

Movement design for exclusive furniture.

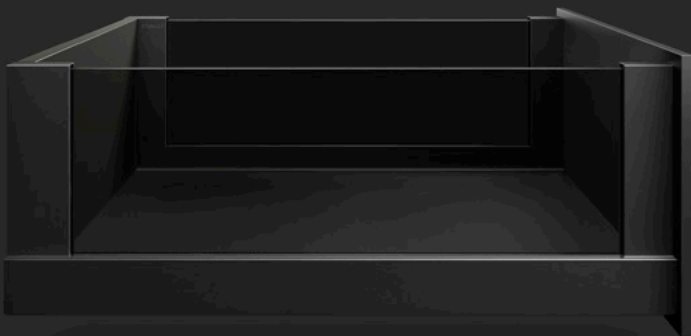
Catalogue 2025.26



As a leading developer and manufacturer of functional movement systems, GRASS is certified in accordance with international quality and environmental management system DIN ISO 9001 and DIN ISO 14001.



GRASS HAS BEEN A PIONEER IN THE FURNITURE INDUSTRY FOR OVER 75 YEARS. FROM THE FIRST CONCEALED HINGE TO THE INVENTION OF THE DOUBLE-WALL DRAWER SIDE, THE HISTORY OF GRASS HAS BEEN SHAPED BY VISIONARY ENGINEERING EXPERTISE AND COUNTLESS GROUNDBREAKING PRODUCTS. IN KEEPING WITH THIS TRADITION, WE SHALL CONTINUE TO DEVELOP MOVEMENT SYSTEMS THAT SATISFY THE HIGHEST EXPECTATIONS LONG INTO THE FUTURE.



Feel more WOW.

G*GRASS®



With a branded product, you know what you're getting. That's where GRASS is the best example. Our premium-quality movement systems combine technological advances, comfortable functionality, top quality and precision through to the smallest detail.

Functional movement means so much more than just open and close. Discover.

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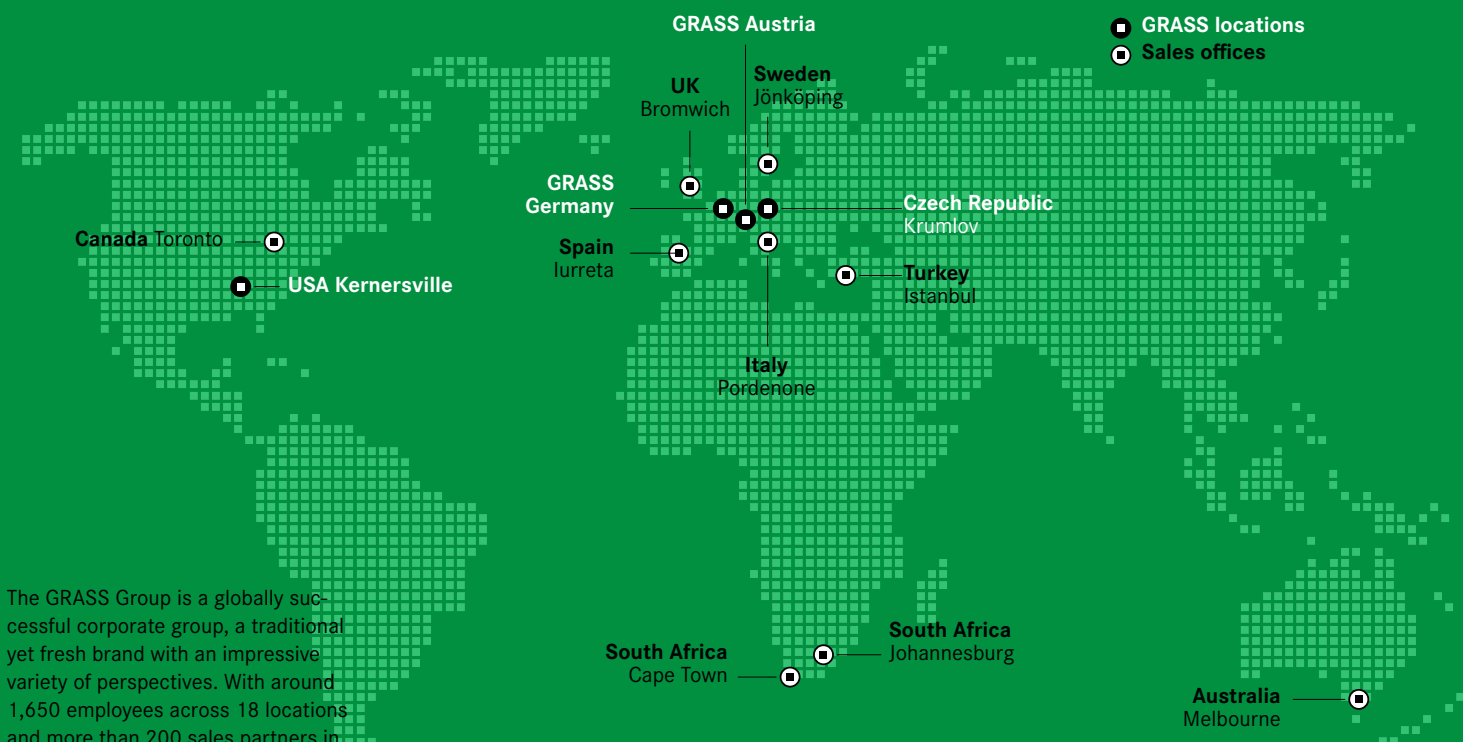
Movement Systems for Exclusive Furniture

Drawer Systems	Double-wall drawer systems offer maximum comfort and individual design possibilities. For classic drawer systems or systems with concealed slides.	013	1
Slide Systems	Concealed slide systems for wooden drawers. Scope for creative design combined with maximum operating comfort.	301	2
Hinge Systems	Our versatile hinge systems offer everything that moves doors: Style, top-quality workmanship, perfect function and operating comfort.	383	3
Drinks Compartment Flap	Elegant flap stay with pull cable for drinks compartment flaps. High comfort, damping and space-saving installation.	585	4
Organising Systems	Organising. Dividing. Fitting out. Versatile accessory systems for perfectly organised drawers.	Nova Pro Scala 093 Nova Pro One 187 Vionario V13 261	
Opening Systems	High-quality opening systems combine handle-free opening with proven Soft-close damper technology to meet all the requirements of modern, handle-free furniture.	Nova Pro Scala 105 Vionario V13 273 Dynapro 345	
Assembly Technology	Installation and assembly aids for professional efficiency. Sophisticated and tested technology for fast, safe working.	Nova Pro Scala 125 Nova Pro One 197 Vionario V13 289 Dynapro 342 Dynaneo 380 Hinge systems 575	
Index	Index of order numbers. A clear overview of the F-article numbers.	602	

We operate all over the world, wherever our customers call home. Because customer proximity is an expression of our corporate culture.



Developing complex movement systems takes an efficient team combined with the passion and desire to work together and transform ideas into something new. This is our traditional way of thinking at GRASS. **Movement is our passion.**



The GRASS Group is a globally successful corporate group, a traditional yet fresh brand with an impressive variety of perspectives. With around 1,650 employees across 18 locations and more than 200 sales partners in 60 countries, GRASS ranks among the world's leading specialists in movement systems.

Sales and production sites in Germany
 Reinheim production plant
 Reinheim sales office
 Verl sales office

Locations in Austria:
 Hohenems logistics centre
 Hohenems sales office
 Höchst production plant
 Götzis production plant
 Salzburg production plant

State-of-the-art customer and logistics centre.

With a total investment of 70 million euro, the customer and logistics centre is not only the largest investment in the company's history, but also the most modern distribution centre in the Würth Group. The figures for the new logistics site speak for themselves: The 11-aisle high-bay warehouse is 22 levels tall, with over 600 racking uprights to accommodate almost 38,000 pallet storage spaces. The site incorporates over 5,000 tonnes of steel, and the longest façade measures more than 180 metres. The building covers an area of 11,150 m².



Distributed over 2 floors and 500 square metres of space is living proof of what modern motion design can offer. In an architecturally impressive setting, extravagant furniture concepts and surprising product presentations inspire visitors and provide for a lasting experience that is **»Moved by GRASS«**.



Since 2004, GRASS has been part of the international Würth Group, which has an annual turnover of more than 20 billion euro and is the world leader in the trade of assembly and fastening materials.

MEMBER OF THE
WÜRTH  GROUP

GRASS is aware of its responsibility to provide customers with the outstanding product quality they expect.



Internal standards, test procedures based on DIN ISO and tests by independent institutes ensure systematic quality assurance. The GRASS Group is certified according to international quality management system DIN ISO 9001. **Quality is in our DNA.**



The packaging plant at the Götzis site uses 2 separately controlled robotic arms to process around 110 different packaging variants. With a cycle rate of just six seconds per slide set, the system's performance range ensures high efficiency – whether handling single boxes or outer packaging.



Exceptional products call for state-of-the-art production and testing facilities.

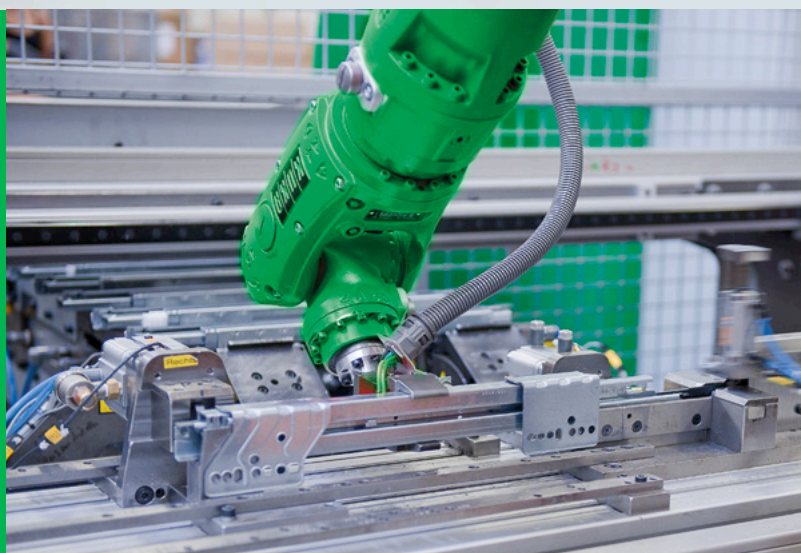
State-of-the-art machinery helps our highly qualified employees to create outstanding products. This includes state-of-the-art production lines, cutting-edge welding robots and automatic punching machines which, with a pressing force of several tonnes, can form the thickest sheet metal and feed the parts directly into the automatic assembly line without any further post-processing. Numerous testing and control stations integrated into the production lines use SPC (Statistical Process Control) to monitor consistent quality excellence, which forms the basis for a high level of customer satisfaction.



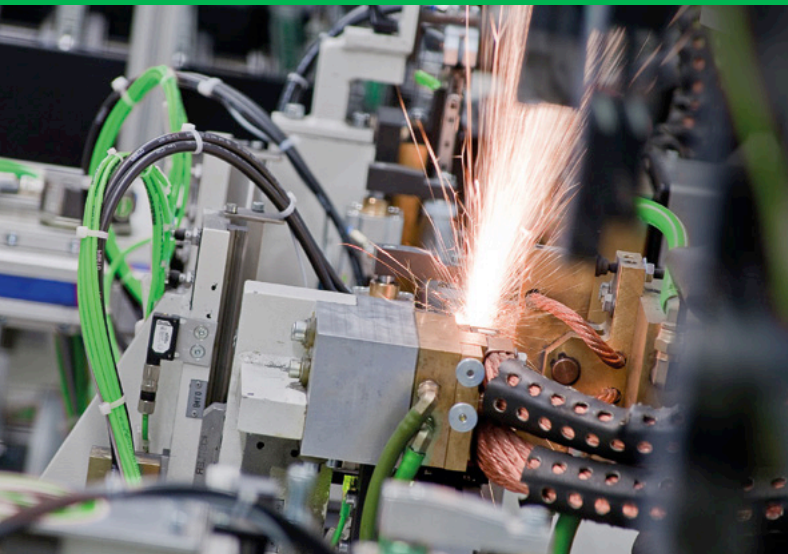
With 3D instruments for measuring profiles, climate chambers, tensile testing machines and optical tactile instruments for measuring rigid, elastically deformable plastics, and our own toolmaking shop for producing complex tools: We leave nothing to chance. **At GRASS, precision, durability, functionality, design and environmental consciousness all come together to form a highly sophisticated quality standard.**

For us, development and production are seamlessly integrated. It is this belief that helps us transform ideas into new products.

Ideas can only become innovations if they can be produced in series at the highest level. Our engineers rely on all the benefits of modern development and production technology to manufacture these product ideas. Production and development departments work closely together across locations to guarantee the continuous optimisation of all production processes. After all, GRASS products are a promise that must be kept day after day.



We produce tens of thousands of movement systems in our plants every day. To ensure that these systems meet our high quality management requirements, each product line is thoroughly tested on site. Our high internal standards, test procedures based on DIN and LGA and testing by independent institutes ensure systematic quality assurance.



QUALITÄTS-ZERTIFIKAT
LGA



For GRASS, environmental protection is a fundamental corporate objective. Taking personal responsibility is part of our identity.



Since 2010, the GRASS Group's international environmental management system has been certified according to ISO 14001. GRASS's strong environmental commitment and dedicated projects dating back many years are entirely rooted in **our love of nature.**



CO₂ reduction: 636 tonnes per year.

Measures to increase energy efficiency have led to savings of 2.8 million kWh per year. Translated into CO₂, this represents a reduction of 636.5 tonnes per year.



Recycling of steel waste: 6,000 tonnes per year.

100 % of steel waste generated during production is recycled.

Reduction of heat demand through heat recovery.

Compressor and exhaust gas heat exchange systems with a total output of over 3,000 kW also improve our carbon footprint.



Electricity savings: 18 % reduction in electricity use.

Reduction in overall electricity demand from 62 million kWh to 51 million kWh per year in recent years.

50 % reduction in waste: 756 tonnes per year.

The volume of non-recyclable waste has been reduced from 1,530 tonnes to 756 tonnes per year.

We see the present as part of the future.

Active involvement in environmental protection is an important prerequisite for long-term company success. Working with this mindset means conserving resources and creating ecologically sound production conditions. We have high expectations of ourselves, and our efforts to keep our ecological footprint as low as possible require a continuous improvement process that incorporates all areas of the company.



Photo: Rote Wand, Vorarlberg



More than 20 percent recycled materials.

The proportion of recycled materials used in the production of our products is between 20 % and 40 %, depending on product and manufacturer.



Green power: In-house combined heat and power plant in Höchst.

With an output of 2,000 kWh, the combined heat and power plant in Höchst covers 75 % of our electrical energy requirement. The waste heat can then be used to heat the premises or, in summer, to provide a substantial proportion of the cooling capacity via the absorption refrigerator.



High-tech surfaces for better climate protection.

New system technologies and optimised production processes in the supply chain enable CO₂ savings of 1,476 tonnes per year overall.

GRASS drawer systems are almost 100 % recyclable and do not contain any hazardous substances or substances specified in the REACH regulation*.



* Substances of very high concern on the candidate list for approval in the EU.

Our wide range of services offers optimal support for modern joinery.



Our expert employees will be happy to advise you on our product selection. They will also help you with any application questions and offer technical support with special applications. **Excellence in Motion Design.**

Assembly and installation aids.

The value of a movement system is made up of many influencing factors. In addition to visual and functional features, the focus is on consistent quality and the possibilities for efficient processing. Against this background, GRASS offers many installation and assembly aids for all product families.

Video support. Installation made easy.

Installation and assembly made easy. Our short videos show you how to install or adjust our products quickly and efficiently. All videos on our YouTube channel can be viewed any time, anywhere, on your tablet or smartphone.

www.youtube.com/grassmovementsystems



Whether you want to drill a row of holes, press-fit a Tiomos hinge or assemble drawer sides, bottom and back panel - our **TECMATOR** drilling and insertion machines offer a professional solution for every requirement.



Download 3D data

Our website offers lots of useful information about our products as well as brochures, product certificates, assembly instructions and CAD data for download in the "Tec Center".



GRASS promotional vehicles bring the latest products directly to you.

Our highly trained employees are ready and waiting to demonstrate and explain our premium-quality movement systems on your premises and to answer all your questions.



**On the road
_again.**

GRASS works with the world's leading manufacturers of planning software.

We constantly integrate our digital data into all standard planning tools and make sure it is always up to date. However, if you are still unable to find the GRASS movement system you want in the software you use, we will be happy to advise and immediately work with the provider to make it as simple as possible for you to plan with the excellent products from GRASS.

Here are a few of our references:



PaletteCAD

PYTHA

imos

TopSolid

teowin

CAD.T

2020

SWOOD

KiM GmbH

POINT LINE CAD-Software

VECTORWORKS A NEMETSCHEK COMPANY

CAD ENAS

TRI D CORPUS FURNITURE SOFTWARE

OS Daten-systeme

Image: Point Line

Whether standard or high drawer: The right assortment for every application.



FOLLOW US



GERMAN DESIGN AWARD WINNER 2016

Nova Pro Scala.
Simple. Clear. Timeless.



Double-wall drawer systems offer maximum comfort and individual design possibilities. For classic drawer systems or systems with concealed slides.

Nova Pro One. The little brother of the Nova Pro Scala is the new number one when it comes to a compact range, performance proven millions of times over and maximum differentiation.

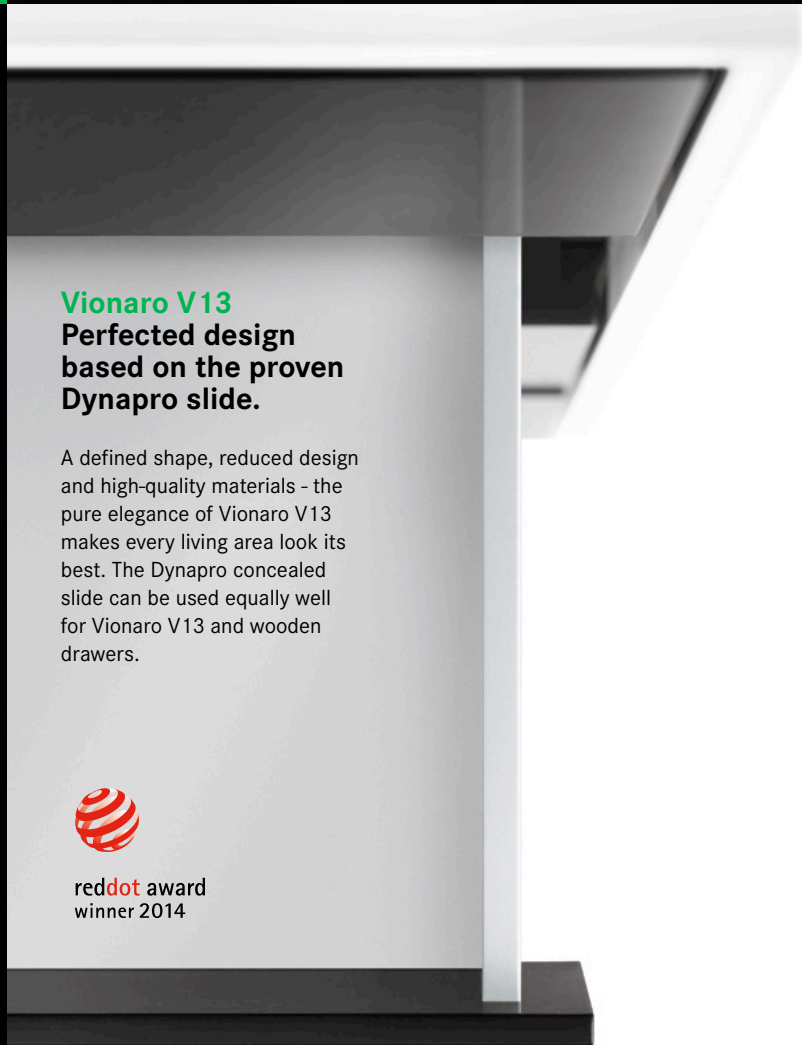


Vionaro V13
Perfected design based on the proven Dynapro slide.

A defined shape, reduced design and high-quality materials - the pure elegance of Vionaro V13 makes every living area look its best. The Dynapro concealed slide can be used equally well for Vionaro V13 and wooden drawers.



reddot award
winner 2014



Drawer Systems to Meet the Highest Demands

The versatile, comprehensive drawer range for individual styling possibilities.

	<p>Nova Pro Scala</p> <p>The benchmark for drawer systems stands for the perfect harmony of form and function and creates a wide range of options for differentiation.</p>	015	1
	<p>Nova Pro One</p> <p>The little brother of the Nova Pro Scala offers a compact range that combines maximum efficiency with minimal complexity.</p>	139	2
	<p>Vionaro V13</p> <p>Minimalism in its most beautiful form. The design classic combines a sleek visual look with the Dynapro slide system.</p>	211	3
			4

The drawer.



FOLLOW US

nova pro scala.



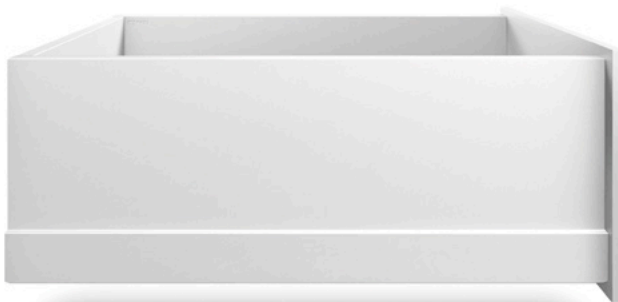
Over the years, Nova Pro has become synonymous with double-wall drawer systems. The quality, stability and smooth running of the system have been proven millions of times over and are still unmatched today.



Nova Pro Scala's purist design is shaped by its reduction to the essentials.

Never amiss with glass.

The 186 mm high glass drawer Crystal Plus certainly ranks as one of the most brilliant inventions in GRASS's history. It's made from a single piece and is delivered ready to install. This makes Crystal Plus the only frame drawer in the world with up to 57 % more lateral transparency.



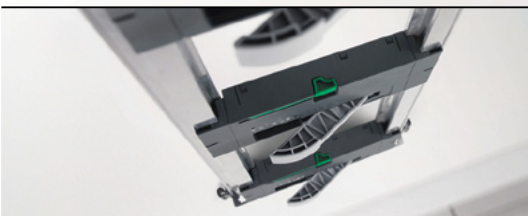



GERMAN
DESIGN
AWARD
WINNER
2016

**Nova Pro Scala.
Simple. Clear. Timeless.**

Nova Pro Scala Drawer System

Nova Pro Scala allows you to create distinctive styles, features and values.

	<p>Nova Pro Scala 024</p> <p>This drawer system is a perfect combination of form and function and opens up a wide range of differentiation options.</p>	<p>1</p>
	<p>Dividing and Organising Systems 093</p> <p>Organising. Dividing. Fitting out. Useful helpers for organising storage space.</p>	<p>2</p>
	<p>Opening Systems 105</p> <p>Sensomatic, the electro-mechanical opening system for drawers and pot drawers.</p>	<p>3</p>
	<p>Assembly Technology 125</p> <p>Installation and assembly aids. Tried-and-tested technology for professional efficiency.</p>	<p>4</p>

Nova Pro Scala

Inspiration at right angles.



The design language of Nova Pro Scala with its striking lines, right angles and small radii gives the double-wall metal drawer sides a timeless, functional appearance. The special character of Nova Pro Scala is based on perfection down to the last detail and the modular system concept. Everything is aimed at achieving perfect function, top quality and lasting value.



A holistic
drawer platform
for maximum
differentiation.

Nova Pro Scala

The drawer.

Nova Pro is the embodiment of exceptionally easy opening, excellent running characteristics, minimum drawer deflection and outstanding reliability. Nova Pro Scala means diversity, neutral aesthetics, inspiration and creativity.



Concealed panel.
A statement look hidden inside.

Today we are seeing more and more high fronts with inset drawers hidden behind them. High fronts can make modern furniture look even more minimalist. Nova Pro Scala offers a truly beautiful solution for these special applications: elegant and extremely narrow concealed panels with a shape and colour perfectly adapted to the drawer system. Optionally available as a closed front or with a glass insert.

High-quality drawer sides.
The perfect combination of form and function.

A minimal installation width and the 90° inner sides of the slim Scala drawer sides provide up to 11 % more storage space. The solid front connection guarantees a secure hold up to a front height of 780 mm. The proven Nova Pro slide ensures excellent running characteristics for load capacities up to 70 kg and the Soft-close technology ensures a smooth closing movement as well as effortless opening.

Material variety.
The jury is out when it comes to glass. Some love it and some hate it.

Whether they choose to use glass or another design element depends entirely on the individual's taste. The special advantage of the Crystal Plus frame-sided drawer is the clip method. It ensures the stable clamping of large design elements without tools or the need to pretreat them in any way. Sounds simple and it is too!



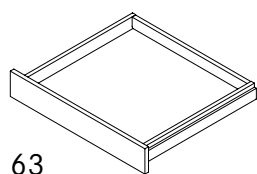
More elegance is hardly possible.

The large Crystal Plus frame-sided drawer not only ensures incomparable transparency, but in combination with the new colour Zircon, it is also one of the most elegant drawers and fits in perfectly with current architectural trends.

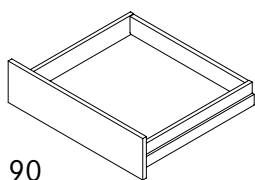
Never amiss with glass.

The 186 mm tall glass drawer Crystal Plus is certainly one of the most exceptional product solutions in the Nova Pro Scala family. It's made from a single piece and is delivered ready to install. This makes Crystal Plus the world's only drawer with 1,100 cm² of transparent surface at the side.

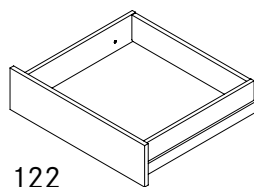
The modular system offers five standard heights. Starting at 63 mm for limited installation heights and up to 250 mm for special requirements. Supplemented by a rectangular railing and a large glass variant, Nova Pro Scala is as versatile as our customers' furniture.



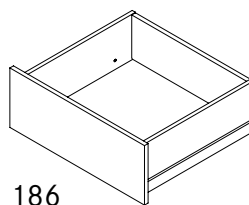
63



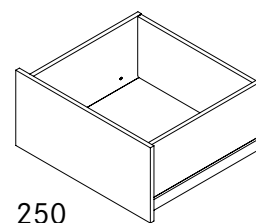
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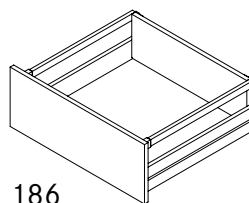
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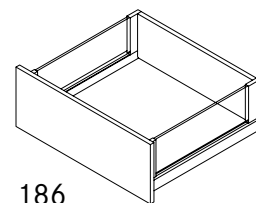
186



250

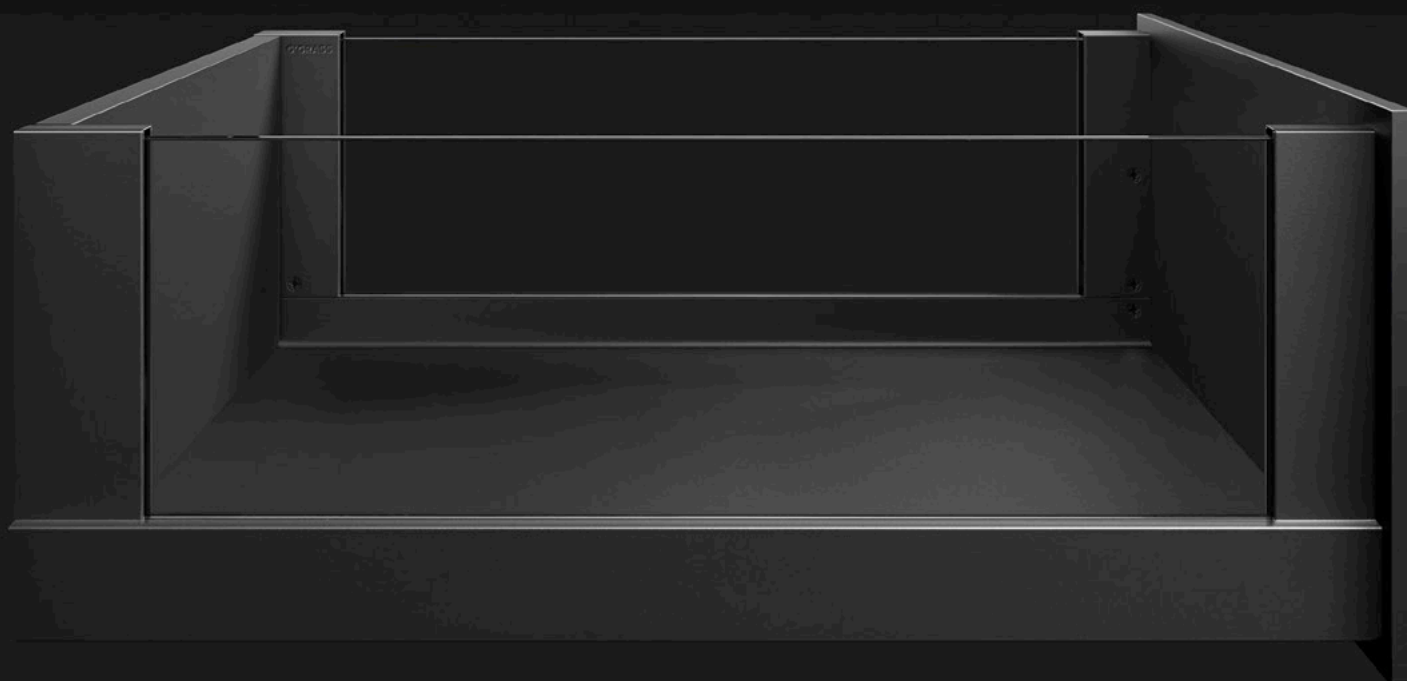


186
Rectangular railing



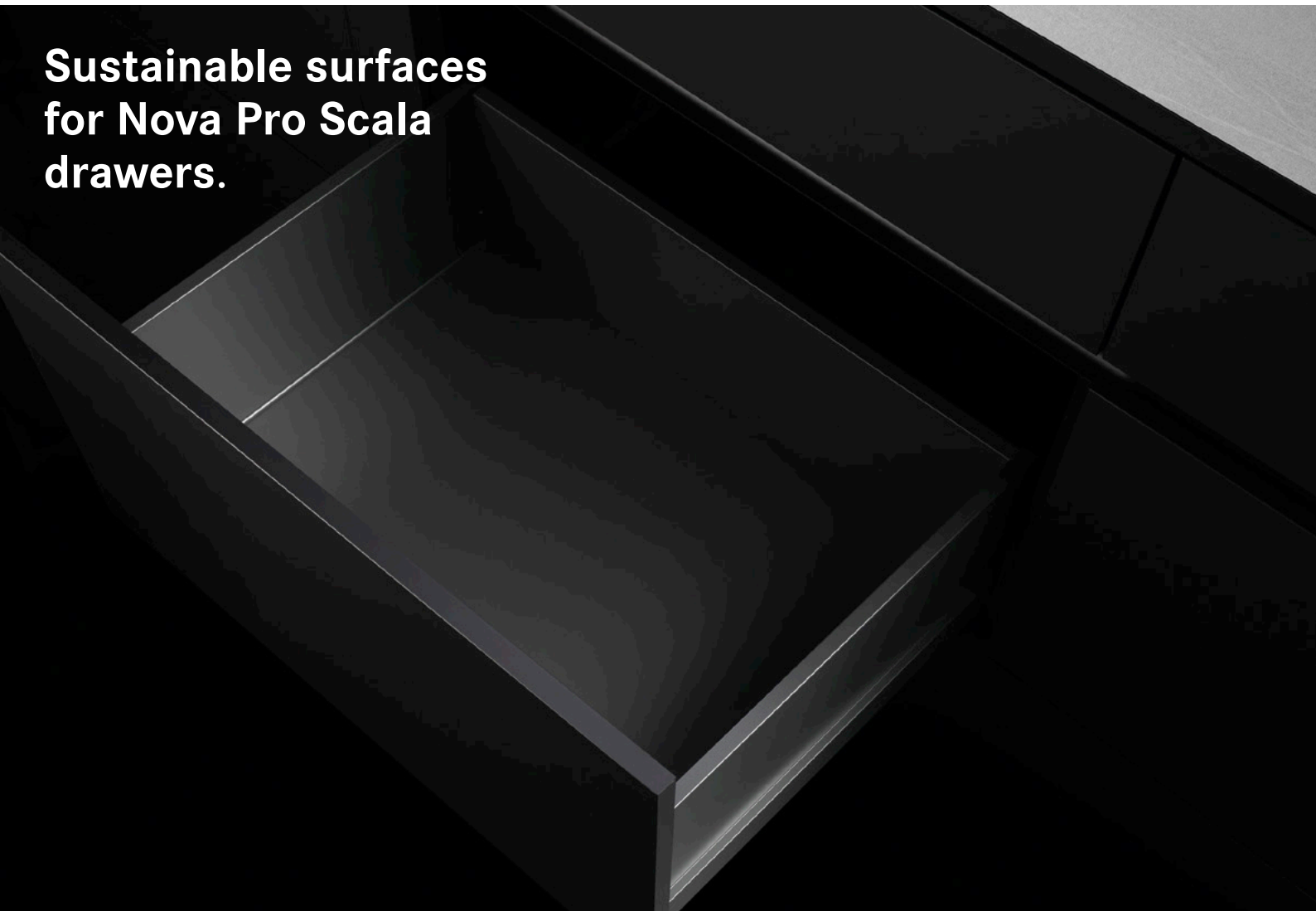
186
Crystal Plus frame-sided drawer

Crystal Plus.
More glass. More freedom.
More stability.



Modern architecture is bright, bathed in light and open. Windows have been replaced with large glass surfaces. Even interior walls are becoming increasingly transparent. One might think that transparency is the zeitgeist – after all, it has been a mega trend for a long time. Furniture is also becoming more transparent. From backlit glass fronts and glass shelves to the partial removal of front panelling. Modern furniture really shows what it's made of. Entirely in keeping with this new openness, Nova Pro Scala offers a unique product solution: the Crystal Plus frame-sided drawer.

Sustainable surfaces for Nova Pro Scala drawers.



Standard colour

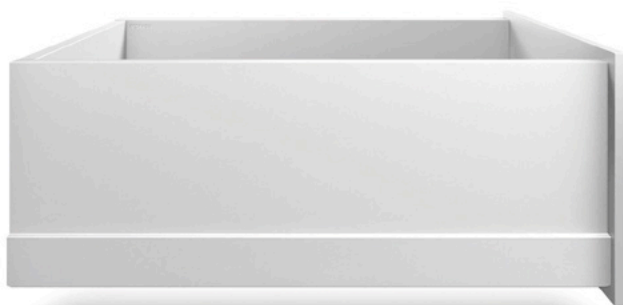
ICE

The natural purity of ice and snow, their unique way of reflecting light and their fine surface texture all inspired us to create the colour ICE.

Standard colour

SILVER

Silver has always been the colour of refinement. Its subtle shine underlines the metallic finish of the drawers and can be combined harmoniously with all modern materials.



As well as the three standard surfaces, Nova Pro Scala offers three new surface effects that draw on current living area design trends. Warm colours, fine textures, matt sheen: These new speciality colours allow styling principles to be carried through to the cabinet interior as well as providing a special tactile experience. But not just that. By using environmentally friendly high-performance powders and energy-saving low-temperature technology, each individual drawer ensures greater sustainability.

All visible components harmoniously matched.

With Nova Pro Scala, all visible plastic parts are coated in steel, eliminating any potential colour variation between individual components. This results in a consistent, even colour finish.

NP All powder-coated surfaces fulfil a protective function. They are robust, scratch-resistant and resistant to common household chemicals. This isn't something special - for us, it goes without saying.



Standard colour

STONE

Stone, as the symbol of eternity, as a statement of timelessness, as a natural force that seems to withstand all external influences, provided the inspiration for the name of this very popular colour.

Standard colour

ZIRCON

This dark, warm surface reflects the zeitgeist. Zircon is an extremely unobtrusive colour that leaves more room for other details. The mineral character and the subtly shimmering, matt surface make zircon something special.





**Take the future into your own hands with
Nova Pro Scala.**

In the future, a completely new, aesthetic interplay between room architecture, furniture items, materials, colours and light will be important. Consumer habits are changing. Individuality and sensuality on the one hand and ergonomics and shortcuts on the other - these are the parameters of modern living. The focus is on people with their individual requirements of form and function. Being true to these changed conditions right to the heart of the furniture piece - this was the idea behind the new customisation options for Nova Pro Scala.

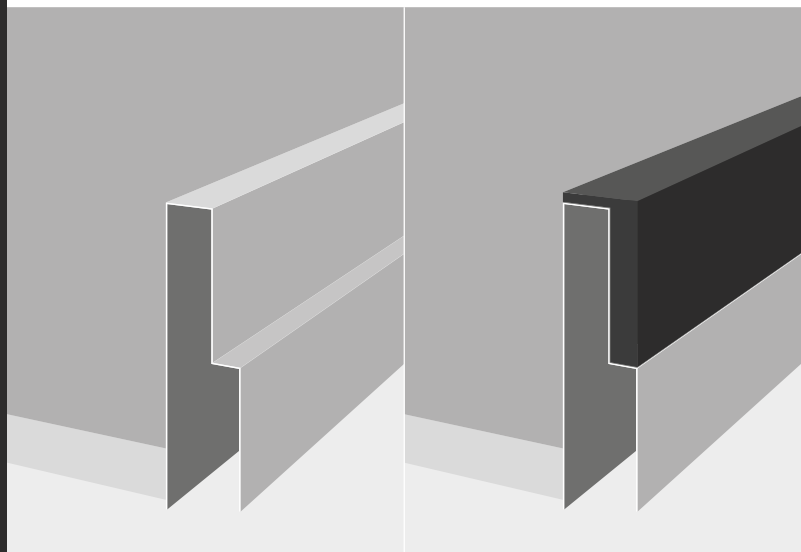


**Simple.
Neat.**

With the additional designer panels from Nova Pro Scala, the aesthetic perception of a drawer can be changed once it has been installed.

Differentiate by upgrading to designer panels.

Thanks to the rectangular shape of the Scala frame, the L-profiles can be attached easily and therefore provide the option of customising any drawer. There are no limits to your creativity.



Nova Pro Scala allows you to create distinctive styles, features and values.

Differentiation is the buzzword of our times. In many sectors, it is becoming increasingly important not only to make products and services distinct from those of their direct competitors but also to diversify the offering for a variety of needs, requirements, target groups and price segments. Nova Pro Scala offers many options for doing so.

NP Whether you use the Crystal Plus slide-in elements to play with materials, shapes and structures or you decide on the unique L-profiles: You set the limits.

Nova Pro Scala Drawer System

This drawer system is a perfect combination of form and function and opens up a wide range of differentiation options.

	Description		Page
	<p>Nova Pro Scala Drawer H63</p> <ul style="list-style-type: none"> • Extremely shallow drawer to accommodate low available height • Can be customised using designer panels • Integrated height and side adjustment 		28
	<p>Nova Pro Scala Drawer H90</p> <ul style="list-style-type: none"> • The practical standard drawer for every application • Can be customised using designer panels • Integrated height and side adjustment 		30
	<p>Nova Pro Scala Drawer H122</p> <ul style="list-style-type: none"> • The elegant intermediate height for special applications • Can be customised using designer panels • Integrated height, side and tilt angle adjustment 		32
	<p>Nova Pro Scala High drawer H186</p> <ul style="list-style-type: none"> • Slim, closed drawer side • High stability up to a front height of 780 mm • Can be customised using designer panels 		34
	<p>Nova Pro Scala High drawer H250</p> <ul style="list-style-type: none"> • Slim, closed drawer side • High stability up to a front height of 780 mm • Can be customised using designer panels 		36
	<p>Nova Pro Scala Pot drawer H90 with rectangular railing</p> <ul style="list-style-type: none"> • Rectangular railing in harmonised design • Flush-mounted back panel adapter • Significantly fewer plastic parts 		38
	<p>Nova Pro Scala Crystal Plus Frame drawer for large slide-in elements, height 140 mm</p> <ul style="list-style-type: none"> • Patented clip technology makes it easy to slide in elements • No additional clips and cover caps • High stability even without front and slide-in elements 		40
	<p>Nova Pro Soft-close S16/S19 Full extension slide 40/70 kg</p> <ul style="list-style-type: none"> • Installation width 29 mm • Use with S16 and S19 • Excellent running characteristics • Fully synchronised slide technology 		42
	<p>Nova Pro Soft-close S18 Full extension slide 40/70 kg</p> <ul style="list-style-type: none"> • Installation width 30 mm • Use with S18 • Excellent running characteristics • Fully synchronised slide technology 		44

	Description		Page
	<p>Nova Pro Tipmatic Soft-close S16/S19 Full extension slide 40/70 kg</p> <ul style="list-style-type: none"> • Mechanical opening system • Combines Tipmatic function with Soft-close damper • Installation width 29 mm • Use with S16 and S19 		46
	<p>Nova Pro Tipmatic Soft-close S18 Full extension slide 40/70 kg</p> <ul style="list-style-type: none"> • Mechanical opening system • Combines Tipmatic function with Soft-close damper • Installation width 30 mm • Use with S18 		48
	<p>Nova Pro Tipmatic Soft-close S16/S19 30 kg full extension slide for short and light drawers</p> <ul style="list-style-type: none"> • Mechanical opening system • Combines Tipmatic function with Soft-close damper • Installation width 29 mm • Use with S16 and S19 		50
	<p>Nova Pro Soft-close S16/S19 Over-extension 50 kg</p> <ul style="list-style-type: none"> • Extended pull-out distance for greater ergonomics when using the drawer or extension • Soft-close damping system • High stability despite long pull-out distance 		52
	<p>Nova Pro Soft-close Bottom panel mounting 70 kg</p> <ul style="list-style-type: none"> • Extends the options for flexible use and subdivision of cabinets, e.g. for waste separation systems • Assembly on the cabinet base or shelf • Synchronised full extension slide, 70 kg load capacity, compatible with Tipmatic Soft-close 		54
	<p>Nova Pro Scala F8 inset panel for inset drawer H90</p> <ul style="list-style-type: none"> • Colour-coordinated aluminium trim panel • Smooth inside and outside surfaces provide a high-quality look • Same dimensions as standard drawers (inside depth) 		56
	<p>Nova Pro Scala F8 inset panel for inset drawer H90 with rectangular railing</p> <ul style="list-style-type: none"> • Colour-coordinated aluminium trim panel • Smooth inside and outside surfaces provide a high-quality look • Same dimensions as standard drawers (inside depth) 		58
	<p>Nova Pro Scala F8 inset panel for inset drawer H186 and Crystal Plus</p> <ul style="list-style-type: none"> • Colour-coordinated aluminium trim panel • Smooth inside and outside surfaces provide a high-quality look • Same dimensions as standard drawers (inside depth) 		60
	<p>Nova Pro Scala F8 inset panel Crystal for inset drawer H186 and Crystal Plus</p> <ul style="list-style-type: none"> • Colour-coordinated with Nova Pro Scala • Elegant design • Low complexity of parts • Easy to install 		62

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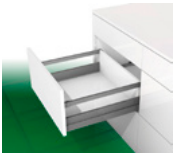
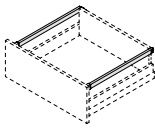
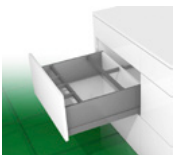
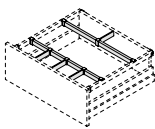
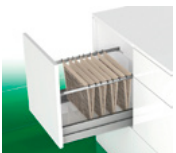
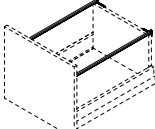
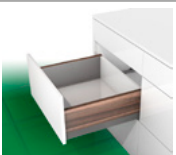
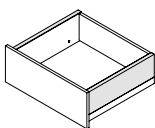

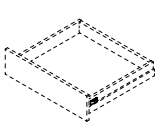

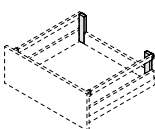

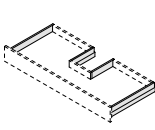
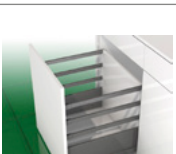
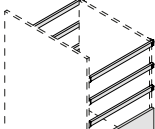

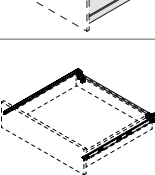
2

3

4

Nova Pro Scala Drawer System

This drawer system is a perfect combination of form and function and opens up a wide range of differentiation options.

	Description		Page
	<p>Nova Pro Scala Rectangular railing - individual components</p> <ul style="list-style-type: none"> • Easy assembly • Can be ordered as individual parts 		64
	<p>Nova Pro Scala Cross and longitudinal divider</p> <ul style="list-style-type: none"> • Easy assembly • Can be ordered as individual parts 		66
	<p>Nova Pro Scala Oval railing for filing drawer</p> <ul style="list-style-type: none"> • For use with Nova Pro Scala drawer sides H90 • Oval, natural anodised aluminium tube with high bending resistance and scratch-resistant surface • High stability and load capacity thanks to secure screw connection to the front and back panels • Tool-free tilt angle adjustment via oval railing 		68
	<p>Nova Pro Scala Designer panels</p> <ul style="list-style-type: none"> • Planning dimensions for designer panels H63, H90, H122, H186 and H250 • Magnetic tape can be ordered 		70
	<p>Nova Pro Scala Locking system</p> <ul style="list-style-type: none"> • Screw-on locking pin for Nova Pro Scala • Can be used with Nova Pro Scala drawer sides H90/H122/H186/H250 • Compatible with Lehmann SVS-3 locking system 		72
	<p>Nova Pro Scala Sink drawer with low back panel</p> <ul style="list-style-type: none"> • Sink back panel clip for Nova Pro Scala H186 and Crystal Plus • Allows extensions with siphon cut-outs and rectangular wooden back panels to be produced quickly and easily - no special cutting needed • Colour matched to all Nova Pro drawer sides 		74
	<p>Application example Sink drawer with cut-out</p> <ul style="list-style-type: none"> • Maximum storage space utilisation in the sink area through individual combination with shorter drawer sides • Easy assembly with standard Nova Pro products • Variable width, variable cut-out 		76
	<p>Application examples Laundry drawer</p> <ul style="list-style-type: none"> • Large pot drawer by combining high drawer side H250 with any number of rectangular railings • Application e.g. as a container for dirty laundry • Tilt angle adjustment by means of drawer side and railings 		78
	<p>Nova Pro Scala Side stabilising device</p>		80

	Description		Page
	Nova Pro Scala Accessories		82
	Nova Pro Scala Technical information		86

1

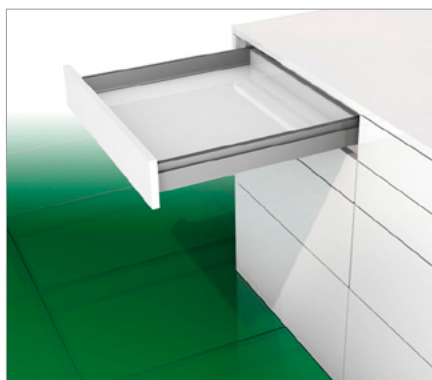
2

3

4

NOVA PRO SCALA

Drawer H63



- Extremely shallow drawer to accommodate low available height
- Can be customised using designer panels
- Integrated height and side adjustment
- Straight inside surfaces and narrow installation width ensure optimal utilisation of space
- Sturdy construction and high degree of stability
- Tool-free installation and removal of the front
- Same bottom panel and back panel width
- No need to machine the bottom panel

Notice:

- Front-bottom panel connector recommended for KB 800 mm and above (see accessories)

ORDER INFORMATION

1 Nova Pro Scala Drawer sides, H63 Ice				
NL	Ice Left, Right	Ice Left	Ice Right	
400	F100103036	F100103037	F100103038	
450	F100103039	F100103040	F100103041	
500	F100103042	F100103043	F100103044	
550	F100103045	F100103046	F100103047	

1 Nova Pro Scala Drawer sides, H63 Silver				
NL	Silver Left, Right	Silver Left	Silver Right	
400	F100103063	F100103064	F100103065	
450	F100103066	F100103067	F100103068	
500	F100103069	F100103070	F100103071	
550	F100103072	F100103073	F100103074	

1 Nova Pro Scala Drawer sides, H63 Stone				
NL	Stone Left, Right	Stone Left	Stone Right	
400	F100103009	F100103010	F100103011	
450	F100103012	F100103013	F100103014	
500	F100103015	F100103016	F100103017	
550	F100103018	F100103019	F100103020	

1 Nova Pro Scala Drawer sides, H63 Zircon				
NL	Zircon Left, Right	Zircon Left	Zircon Right	
400	F100132187	F100132188	F100132189	
450	F100133340	F100133341	F100133342	
500	F100130860	F100130861	F100130862	
550	F100134350	F100134351	F100134352	

2 Installation hook Piece: Left or right		
BLA	Mounting material	Art. no.
20	Screw (excl.)	F102038330
20	Dowel (pre-mounted)	F102038331
20	Expansion dowel (pre-mounted)	F102117716

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PAGE REFERENCES

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PLANNING INFORMATION

All dimensions in millimetres

Front panel installation dimensions	Installation dimensions for back panel	Cutting dimensions for 16 mm chipboard												
	 <table border="1"> <thead> <tr> <th colspan="3">Slide</th> </tr> </thead> <tbody> <tr> <td>S</td> <td>16/19</td> <td>18</td> </tr> <tr> <td>EB</td> <td>29</td> <td>30</td> </tr> <tr> <td>A</td> <td>21.5</td> <td>22.5</td> </tr> </tbody> </table> <p>Note: Slide available in two versions: S16/S19 and S18. See the chapter on slides.</p>	Slide			S	16/19	18	EB	29	30	A	21.5	22.5	
Slide														
S	16/19	18												
EB	29	30												
A	21.5	22.5												
<p>* Recommendation/minimum dimension: 49.5 mm/Tipmatic Soft-close: 58 mm</p>														

Exploded Drawing	

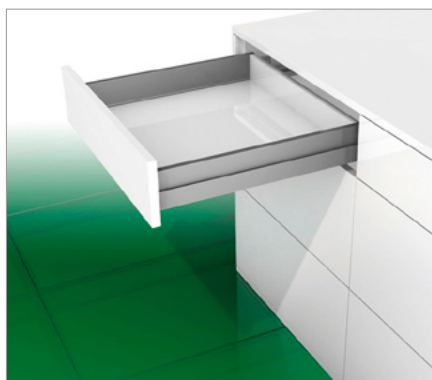
LEGEND

B	Bottom panel	EB	Installation width	NL	Nominal length
BB	Bottom panel width	FAS	Front overlay, side	RW	Back panel
BL	Bottom panel length	FST	Front overhang	RWB	Back panel width
BLA	Drill hole distance	LWK	Inside cabinet width	RWH	Back panel height



NOVA PRO SCALA

Drawer H90



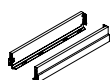
- The practical standard drawer for every application
- Can be customised using designer panels
- Integrated height and side adjustment
- Straight inside surfaces and narrow installation width ensure optimal utilisation of space
- Sturdy construction and high degree of stability
- Tool-free installation and removal of the front
- Same bottom panel and back panel width
- No need to machine the bottom panel

Notice:

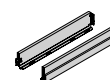
- Front-bottom panel connector recommended for KB 800 mm and above (see accessories)

ORDER INFORMATION

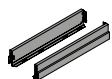
1 Nova Pro Scala Drawer sides, H90 Ice				
NL	Ice	Ice	Ice	
	Left, Right	Left	Right	
270	F100103135	F100103136	F100103137	
300	F100103138	F100103139	F100103140	
350	F100103141	F100103142	F100103143	
400	F100103144	F100103145	F100103146	
450	F100103147	F100103148	F100103149	
500	F100103150	F100103151	F100103152	
550	F100103153	F100103154	F100103155	
600	F100103156	F100103157	F100103158	
650	F100103159	F100103160	F100103161	



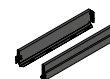
1 Nova Pro Scala Drawer sides, H90 Silver				
NL	Silver	Silver	Silver	
	Left, Right	Left	Right	
270	F100103162	F100103163	F100103164	
300	F100103165	F100103166	F100103167	
350	F100103168	F100103169	F100103170	
400	F100103171	F100103172	F100103173	
450	F100103174	F100103175	F100103176	
500	F100103177	F100103178	F100103179	
550	F100103180	F100103181	F100103182	
600	F100103183	F100103184	F100103185	
650	F100103186	F100103187	F100103188	



1 Nova Pro Scala Drawer sides, H90 Stone				
NL	Stone	Stone	Stone	
	Left, Right	Left	Right	
270	F100103108	F100103109	F100103110	
300	F100103111	F100103112	F100103113	
350	F100103114	F100103115	F100103116	
400	F100103117	F100103118	F100103119	
450	F100103120	F100103121	F100103122	
500	F100103123	F100103124	F100103125	
550	F100103126	F100103127	F100103128	
600	F100103129	F100103130	F100103131	
650	F100103132	F100103133	F100103134	



1 Nova Pro Scala Drawer sides, H90 Zircon				
NL	Zircon	Zircon	Zircon	
	Left, Right	Left	Right	
270	F100133214	F100133215	F100133216	
300	F100130863	F100130864	F100130865	
350	F100133217	F100133218	F100133219	
400	F100130866	F100130867	F100130868	
450	F100133220	F100133221	F100133222	
500	F100130869	F100130870	F100130871	
550	F100133223	F100133224	F100133225	
600	F100133226	F100133227	F100133228	
650	F100130872	F100130873	F100130874	



2 Installation hook		
Piece: Left or right		
BLA	Mounting material	Art. no.
32	Dowel (pre-mounted)	F102021854
32	Expansion dowel (pre-mounted)	F102117719
32/50	Screw (excl.)	F102021855
50	Dowel (pre-mounted)	F102021153
50	Expansion dowel (pre-mounted)	F102117720



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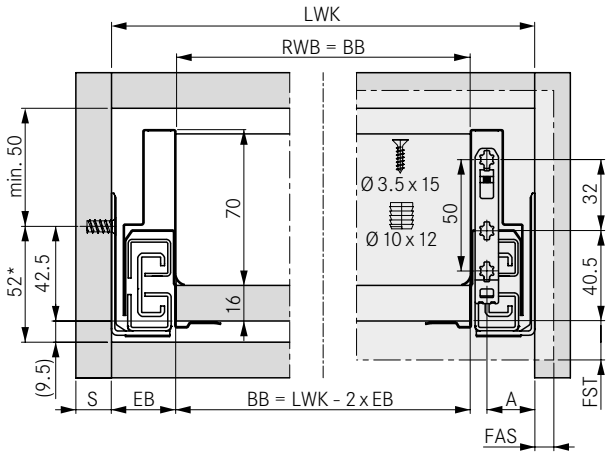
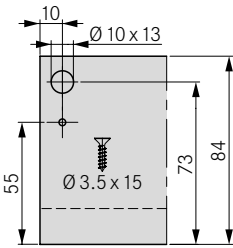
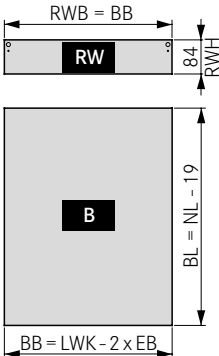
Nova Pro Front support for high fronts	
page 82	
	

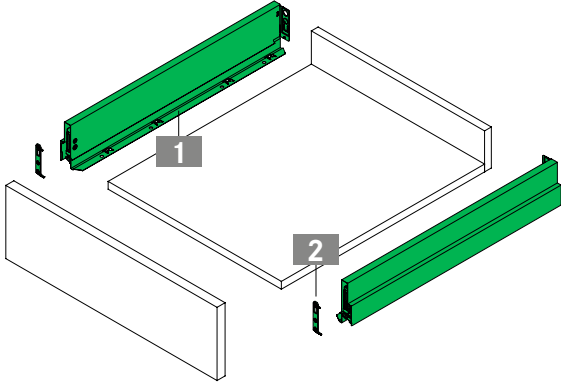
PAGE REFERENCES

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Designer panels	70	Technical information	86	Assembly technology	125

PLANNING INFORMATION

All dimensions in millimetres

Front panel installation dimensions	Installation dimensions for back panel	Cutting dimensions for 16 mm chipboard												
	 <table border="1"> <thead> <tr> <th colspan="3">Slide</th> </tr> </thead> <tbody> <tr> <td>S</td> <td>16/19</td> <td>18</td> </tr> <tr> <td>EB</td> <td>29</td> <td>30</td> </tr> <tr> <td>A</td> <td>21.5</td> <td>22.5</td> </tr> </tbody> </table> <p>Note: Slide available in two versions: S16/S19 and S18. See chapter on slides.</p>	Slide			S	16/19	18	EB	29	30	A	21.5	22.5	
Slide														
S	16/19	18												
EB	29	30												
A	21.5	22.5												
<p>* Recommendation/minimum dimension: 49.5 mm/Tipmatic Soft-close: 58 mm</p>														

Exploded Drawing	
	

LEGEND

B	Bottom panel	EB	Installation width	NL	Nominal length
BB	Bottom panel width	FAS	Front overlay, side	RW	Back panel
BL	Bottom panel length	FST	Front overhang	RWB	Back panel width
BLA	Drill hole distance	LWK	Inside cabinet width	RWH	Back panel height



NOVA PRO SCALA

Drawer H122



- The elegant intermediate height for special applications
- Can be customised using designer panels
- Integrated height, side and tilt angle adjustment
- Straight inside surfaces and narrow installation width ensure optimal utilisation of space
- Sturdy construction and high degree of stability
- Tool-free installation and removal of the front
- Same bottom panel and back panel width
- No need to machine the bottom panel

Notice:

- Front-bottom panel connector recommended for KB 800 mm and above (see accessories)

ORDER INFORMATION

1 Nova Pro Scala Drawer sides, H122 Ice				
NL	Ice	Ice	Ice	
	Left, Right	Left	Right	
300		F100103247	F100103248	
350		F100103250	F100103251	
400	F100103252	F100103253	F100103254	
450	F100103255	F100103256	F100103257	
500	F100103258	F100103259	F100103260	
550	F100103261	F100103262	F100103263	
600	F100103264	F100103265	F100103266	

1 Nova Pro Scala Drawer sides, H122 Silver				
NL	Silver	Silver	Silver	
	Left, Right	Left	Right	
300		F100103274	F100103275	
350		F100103277	F100103278	
400	F100103279	F100103280	F100103281	
450	F100103282	F100103283	F100103284	
500	F100103285	F100103286	F100103287	
550	F100103288	F100103289	F100103290	
600	F100103291	F100103292	F100103293	

1 Nova Pro Scala Drawer sides, H122 Stone				
NL	Stone	Stone	Stone	
	Left, Right	Left	Right	
300		F100103220	F100103221	
350		F100103223	F100103224	
400	F100103225	F100103226	F100103227	
450	F100103228	F100103229	F100103230	
500	F100103231	F100103232	F100103233	
550	F100103234	F100103235	F100103236	
600	F100103237	F100103238	F100103239	

1 Nova Pro Scala Drawer sides, H122 Zircon				
NL	Zircon	Zircon	Zircon	
	Left, Right	Left	Right	
300		F100133963	F100133964	
350		F100133966	F100133967	
400	F100133343	F100133344	F100133345	
450	F100133346	F100133347	F100133348	
500	F100133349	F100133350	F100133351	
550	F100133352	F100133353	F100133354	
600	F100133355	F100133356	F100133357	

2 Installation hook Piece: Left or right		
BLA	Mounting material	Art. no.
32	Dowel (pre-mounted)	F102021854
32	Expansion dowel (pre-mounted)	F102117719
32/50	Screw (excl.)	F102021855
50	Dowel (pre-mounted)	F102021153
50	Expansion dowel (pre-mounted)	F102117720

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PLANNING INFORMATION

All dimensions in millimetres

Front panel installation dimensions	Installation dimensions for back panel	Cutting dimensions for 16 mm chipboard												
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Slide														
S	16/19	18												
EB	29	30												
A	21.5	22.5												
<p>* Recommendation/minimum dimension: 49.5 mm/Tipmatic Soft-close: 58 mm</p>														

Exploded Drawing	

LEGEND

B	Bottom panel	EB	Installation width	NL	Nominal length
BB	Bottom panel width	FAS	Front overlay, side	RW	Back panel
BL	Bottom panel length	FST	Front overhang	RWB	Back panel width
BLA	Drill hole distance	LWK	Inside cabinet width	RWH	Back panel height



NOVA PRO SCALA

High drawer H186



- Slim, closed drawer side
- High stability up to a front height of 780 mm
- Can be customised using designer panels
- Integrated height, side and tilt angle adjustment
- Straight inside surfaces and narrow installation width ensure optimal utilisation of space
- Tool-free installation and removal of the front
- Same bottom panel and back panel width
- No need to machine the bottom panel

Notice:

- Front-bottom panel connector recommended for KB 800 mm and above (see accessories)

ORDER INFORMATION

1 Nova Pro Scala Drawer sides, H186 Ice				
NL	Ice	Ice	Ice	
	Left, Right	Left	Right	
270	F100103327	F100103328	F100103329	
300	F100103330	F100103331	F100103332	
350	F100103333	F100103334	F100103335	
400	F100103336	F100103337	F100103338	
450	F100103339	F100103340	F100103341	
500	F100103342	F100103343	F100103344	
550	F100103345	F100103346	F100103347	
600	F100103348	F100103349	F100103350	
650	F100103351	F100103352	F100103353	

1 Nova Pro Scala Drawer sides, H186 Silver				
NL	Silver	Silver	Silver	
	Left, Right	Left	Right	
270	F100103354	F100103355	F100103356	
300	F100103357	F100103358	F100103359	
350	F100103360	F100103361	F100103362	
400	F100103363	F100103364	F100103365	
450	F100103366	F100103367	F100103368	
500	F100103369	F100103370	F100103371	
550	F100103372	F100103373	F100103374	
600	F100103375	F100103376	F100103377	
650	F100103378	F100103379	F100103380	

1 Nova Pro Scala Drawer sides, H186 Stone				
NL	Stone	Stone	Stone	
	Left, Right	Left	Right	
270	F100103300	F100103301	F100103302	
300	F100103303	F100103304	F100103305	
350	F100103306	F100103307	F100103308	
400	F100103309	F100103310	F100103311	
450	F100103312	F100103313	F100103314	
500	F100103315	F100103316	F100103317	
550	F100103318	F100103319	F100103320	
600	F100103321	F100103322	F100103323	
650	F100103324	F100103325	F100103326	

1 Nova Pro Scala Drawer sides, H186 Zircon				
NL	Zircon	Zircon	Zircon	
	Left, Right	Left	Right	
270	F100133358	F100133359	F100133360	
300	F100133361	F100133362	F100133363	
350	F100133364	F100133365	F100133366	
400	F100132421	F100132422	F100132423	
450	F100133367	F100133368	F100133369	
500	F100132424	F100132425	F100132426	
550	F100133370	F100133371	F100133372	
600	F100133373	F100133374	F100133375	
650	F100133376	F100133377	F100133378	

2 Installation hook		
Piece: Left or right		
BLA	Mounting material	Art. no.
32	Dowel (pre-mounted)	F102021854
32	Expansion dowel (pre-mounted)	F102117719
32/50	Screw (excl.)	F102021855
50	Dowel (pre-mounted)	F102021153
50	Expansion dowel (pre-mounted)	F102117720

3 Front clip		
Piece: Left or right		
BLA	Mounting material	Art. no.
32	Screw (excl.)	F102104833
32	Dowel (pre-mounted)	F102104834
32	Expansion dowel (pre-mounted)	F102104835

PAGE REFERENCES

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PLANNING INFORMATION

All dimensions in millimetres

Front panel installation dimensions	Installation dimensions for back panel	Cutting dimensions for 16 mm chipboard												
	<table border="1"> <thead> <tr> <th colspan="3">Slide</th> </tr> </thead> <tbody> <tr> <td>S</td> <td>16/19</td> <td>18</td> </tr> <tr> <td>EB</td> <td>29</td> <td>30</td> </tr> <tr> <td>A</td> <td>21.5</td> <td>22.5</td> </tr> </tbody> </table> <p>Note: Slide available in two versions: S16/S19 and S18. See chapter on slides.</p>	Slide			S	16/19	18	EB	29	30	A	21.5	22.5	
Slide														
S	16/19	18												
EB	29	30												
A	21.5	22.5												
<p>* Recommendation/minimum dimension: 49.5 mm/Tipmatic Soft-close: 58 mm</p>														

Exploded Drawing	

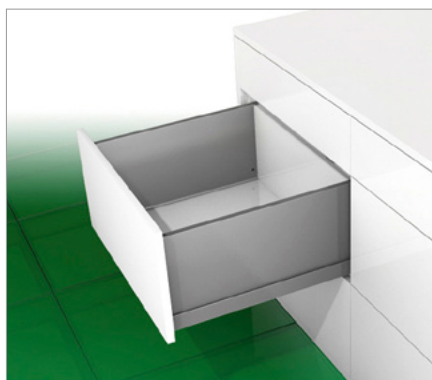
LEGEND

B	Bottom panel	EB	Installation width	NL	Nominal length
BB	Bottom panel width	FAS	Front overlay, side	RW	Back panel
BL	Bottom panel length	FST	Front overhang	RWB	Back panel width
BLA	Drill hole distance	LWK	Inside cabinet width	RWH	Back panel height



NOVA PRO SCALA

High drawer H250



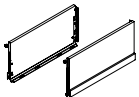
- Slim, closed drawer side
- High stability up to a front height of 780 mm
- Can be customised using designer panels
- Integrated height, side and tilt angle adjustment
- Straight inside surfaces and narrow installation width ensure optimal utilisation of space
- Tool-free installation and removal of the front
- Same bottom panel and back panel width
- No need to machine the bottom panel

Notice:

- Front-bottom panel connector recommended for KB 800 mm and above (see accessories)

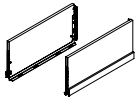
ORDER INFORMATION

1 Nova Pro Scala Drawer sides H250 with drawer side lock
Set: Left, Right




NL	Ice	Silver	Stone	Zircon
	Left, Right	Left, Right	Left, Right	Left, Right
400	F100132720	F100132725	F100132715	F100133379
450	F100132721	F100132726	F100132716	F100133382
500	F100132722	F100132727	F100132717	F100133385
550	F100132723	F100132728	F100132718	F100133388
600	F100132724	F100132729	F100132719	F100133391

1 Nova Pro Scala H250 drawer sides
Piece




NL	Ice	Ice	Silver	Silver
	Left	Right	Left	Right
270	F100131056	F100131057	F100131083	F100131084
300	F100131059	F100131060	F100131086	F100131087
350	F100131062	F100131063	F100131089	F100131090
400	F100131065	F100131066	F100131092	F100131093
450	F100131068	F100131069	F100131095	F100131096
500	F100131071	F100131072	F100131098	F100131099
550	F100131074	F100131075	F100131101	F100131102
600	F100131077	F100131078	F100131104	F100131105
NL	Stone	Stone	Zircon	Zircon
	Left	Right	Left	Right
270	F100131029	F100131030	F100134363	F100134364
300	F100131032	F100131033	F100134366	F100134367
350	F100131035	F100131036	F100134369	F100134370
400	F100131038	F100131039	F100133380	F100133381
450	F100131041	F100131042	F100133383	F100133384
500	F100131044	F100131045	F100133386	F100133387
550	F100131047	F100131048	F100133389	F100133390
600	F100131050	F100131051	F100133392	F100133393

2 Installation hook
Piece: Left or right




BLA	Mounting material	Art. no.
32	Dowel (pre-mounted)	F102021854
32	Expansion dowel (pre-mounted)	F102117719
32/50	Screw (excl.)	F102021855
50	Dowel (pre-mounted)	F102021153
50	Expansion dowel (pre-mounted)	F102117720

3 Front clip
Piece: Left or right



BLA	Mounting material	Art. no.
32	Screw (excl.)	F102104833
32	Dowel (pre-mounted)	F102104834
32	Expansion dowel (pre-mounted)	F102104835

4 Drawer side lock
Piece: Left or right



Ø	Type of assembly	Art. no.
3.5	Screw-on	F102109564

Nova Pro Slides
page 42



Nova Pro Front support for high fronts
page 82



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PLANNING INFORMATION

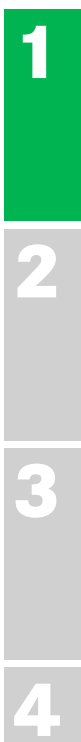
All dimensions in millimetres

Front panel installation dimensions	Installation dimensions for back panel	Cutting dimensions for 16 mm chipboard																
	<table border="1"> <thead> <tr> <th>Slide</th> <th>S</th> <th>EB</th> <th>A</th> </tr> </thead> <tbody> <tr> <td>S</td> <td>16/19</td> <td>18</td> <td></td> </tr> <tr> <td>EB</td> <td>29</td> <td>30</td> <td></td> </tr> <tr> <td>A</td> <td>21.5</td> <td>22.5</td> <td></td> </tr> </tbody> </table> <p>Note: Slide available in two versions: S16/S19 and S18. See chapter on slides.</p>	Slide	S	EB	A	S	16/19	18		EB	29	30		A	21.5	22.5		
Slide	S	EB	A															
S	16/19	18																
EB	29	30																
A	21.5	22.5																
<p>* Recommendation/minimum dimension: 49.5 mm/Tipmatic Soft-close: 58 mm</p>																		

Exploded Drawing	

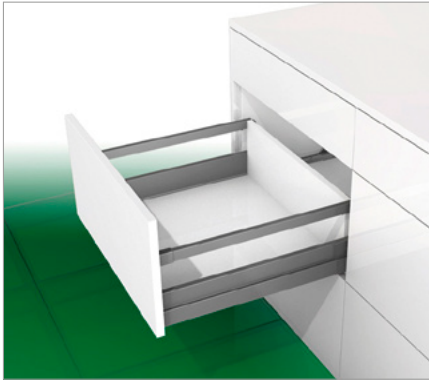
LEGEND

B	Bottom panel	EB	Installation width	NL	Nominal length
BB	Bottom panel width	FAS	Front overlay, side	RW	Back panel
BL	Bottom panel length	FST	Front overhang	RWB	Back panel width
BLA	Drill hole distance	LWK	Inside cabinet width	RWH	Back panel height



NOVA PRO SCALA

Pot drawer H90 with rectangular railing



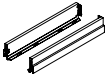
- Rectangular railing in harmonised design
- Flush-mounted back panel adapter
- Significantly fewer plastic parts
- Integrated height and side adjustment
- Tilt angle adjustment via railing
- Straight inside surfaces and narrow installation width ensure optimal utilisation of space
- Tool-free installation and removal of the front
- Same bottom panel and back panel width
- No need to machine the bottom panel

Notice:

- Front-bottom panel connector recommended for KB 800 mm and above (see accessories)

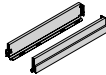
ORDER INFORMATION

1 Nova Pro Scala Drawer sides, H90 Ice



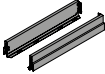
NL	Ice Left, Right	Ice Left	Ice Right
270	F100103135	F100103136	F100103137
300	F100103138	F100103139	F100103140
350	F100103141	F100103142	F100103143
400	F100103144	F100103145	F100103146
450	F100103147	F100103148	F100103149
500	F100103150	F100103151	F100103152
550	F100103153	F100103154	F100103155
600	F100103156	F100103157	F100103158
650	F100103159	F100103160	F100103161

1 Nova Pro Scala Drawer sides, H90 Silver



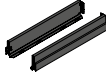
NL	Silver Left, Right	Silver Left	Silver Right
270	F100103162	F100103163	F100103164
300	F100103165	F100103166	F100103167
350	F100103168	F100103169	F100103170
400	F100103171	F100103172	F100103173
450	F100103174	F100103175	F100103176
500	F100103177	F100103178	F100103179
550	F100103180	F100103181	F100103182
600	F100103183	F100103184	F100103185
650	F100103186	F100103187	F100103188

1 Nova Pro Scala Drawer sides, H90 Stone



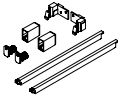
NL	Stone Left, Right	Stone Left	Stone Right
270	F100103108	F100103109	F100103110
300	F100103111	F100103112	F100103113
350	F100103114	F100103115	F100103116
400	F100103117	F100103118	F100103119
450	F100103120	F100103121	F100103122
500	F100103123	F100103124	F100103125
550	F100103126	F100103127	F100103128
600	F100103129	F100103130	F100103131
650	F100103132	F100103133	F100103134

1 Nova Pro Scala Drawer sides, H90 Zircon




NL	Zircon Left, Right	Zircon Left	Zircon Right
270	F100133214	F100133215	F100133216
300	F100130863	F100130864	F100130865
350	F100133217	F100133218	F100133219
400	F100130866	F100130867	F100130868
450	F100133220	F100133221	F100133222
500	F100130869	F100130870	F100130871
550	F100133223	F100133224	F100133225
600	F100133226	F100133227	F100133228
650	F100130872	F100130873	F100130874

2 Nova Pro Rectangular railing, screw fitting, for wooden back panels
Set: Left, Right



NL	Ice	Silver	Stone	Zircon
270	F102103525	F102103534	F102103516	F102134371
300	F102103526	F102103535	F102103517	F102134372
350	F102103527	F102103536	F102103518	F102134373
400	F102103528	F102103537	F102103519	F102134374
450	F102103529	F102103538	F102103520	F102134375
500	F102103530	F102103539	F102103521	F102134376
550	F102103531	F102103540	F102103522	F102134377
600	F102103532	F102103541	F102103523	F102134378
650	F102103533	F102103542	F102103524	F102134379

3 Installation hook
Piece: Left or right



BLA	Mounting material	Art. no.
32	Dowel (pre-mounted)	F102021854
32	Expansion dowel (pre-mounted)	F102117719
32/50	Screw (excl.)	F102021855
50	Dowel (pre-mounted)	F102021153
50	Expansion dowel (pre-mounted)	F102117720

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PLANNING INFORMATION

All dimensions in millimetres

Front panel installation dimensions	Installation dimensions for back panel	Cutting dimensions for 16 mm chipboard												
	<table border="1"> <thead> <tr> <th colspan="3">Slide</th> </tr> </thead> <tbody> <tr> <td>S</td> <td>16/19</td> <td>18</td> </tr> <tr> <td>EB</td> <td>29</td> <td>30</td> </tr> <tr> <td>A</td> <td>21.5</td> <td>22.5</td> </tr> </tbody> </table> <p>Note: Slide available in two versions: S16/S19 and S18. See chapter on slides.</p>	Slide			S	16/19	18	EB	29	30	A	21.5	22.5	
Slide														
S	16/19	18												
EB	29	30												
A	21.5	22.5												
<p>* Recommendation/minimum dimension: 49.5 mm/Tipmatic Soft-close: 58 mm</p>														

Exploded Drawing	

LEGEND

B	Bottom panel	EB	Installation width	NL	Nominal length
BB	Bottom panel width	FAS	Front overlay, side	RW	Back panel
BL	Bottom panel length	FST	Front overhang	RWB	Back panel width
BLA	Drill hole distance	LWK	Inside cabinet width	RWH	Back panel height



NOVA PRO SCALA CRYSTAL PLUS

Frame drawer for large slide-in elements, height 140 mm



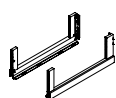
- No need to machine the slide-in elements
- Patented clip technology makes it easy to slide in elements
- No additional cover caps
- High stability even without front and slide-in elements
- Integrated height, side and tilt angle adjustment
- Straight inside surfaces and narrow installation width ensure optimal utilisation of space
- Tool-free installation and removal of the front

Notice:

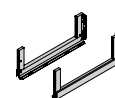
- When using glass slide-in elements, we recommend single-pane safety glass (ESG); please refer to national and international safety standards.
- Front-bottom panel connector recommended for KB 800 mm and above (see accessories)

ORDER INFORMATION

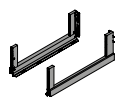
1 Nova Pro Scala Crystal Plus drawer sides Ice				
NL	Ice	Ice	Ice	
	Left, Right	Left	Right	
270	F100104751	F100104752	F100104753	
300	F100104754	F100104755	F100104756	
350	F100104757	F100104758	F100104759	
400	F100104760	F100104761	F100104762	
450	F100104763	F100104764	F100104765	
500	F100104766	F100104767	F100104768	
550	F100104769	F100104770	F100104771	
600	F100104772	F100104773	F100104774	
650	F100104775	F100104776	F100104777	



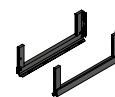
1 Nova Pro Scala Crystal Plus drawer sides Silver				
NL	Silver	Silver	Silver	
	Left, Right	Left	Right	
270	F100104778	F100104779	F100104780	
300	F100104781	F100104782	F100104783	
350	F100104784	F100104785	F100104786	
400	F100104787	F100104788	F100104789	
450	F100104790	F100104791	F100104792	
500	F100104793	F100104794	F100104795	
550	F100104796	F100104797	F100104798	
600	F100104799	F100104800	F100104801	
650	F100104802	F100104803	F100104804	



1 Nova Pro Scala Crystal Plus drawer sides Stone				
NL	Stone	Stone	Stone	
	Left, Right	Left	Right	
270	F100104724	F100104725	F100104726	
300	F100104727	F100104728	F100104729	
350	F100104730	F100104731	F100104732	
400	F100104733	F100104734	F100104735	
450	F100104736	F100104737	F100104738	
500	F100104739	F100104740	F100104741	
550	F100104742	F100104743	F100104744	
600	F100104745	F100104746	F100104747	
650	F100104748	F100104749	F100104750	



1 Nova Pro Scala Crystal Plus drawer sides Zircon				
NL	Zircon	Zircon	Zircon	
	Left, Right	Left	Right	
270	F100133404	F100133405	F100133406	
300	F100130887	F100130888	F100130889	
350	F100133407	F100133408	F100133409	
400	F100130890	F100130891	F100130892	
450	F100133410	F100133411	F100133412	
500	F100130893	F100130894	F100130895	
550	F100133413	F100133414	F100133415	
600	F100133416	F100133417	F100133418	
650	F100130896	F100130897	F100130898	



2 Installation hook		
Piece: Left or right		
BLA	Mounting material	Art. no.
32	Dowel (pre-mounted)	F102021854
32	Expansion dowel (pre-mounted)	F102117719
32/50	Screw (excl.)	F102021855
50	Dowel (pre-mounted)	F102021153
50	Expansion dowel (pre-mounted)	F102117720



3 Front clip		
Piece: Left or right		
BLA	Mounting material	Art. no.
32	Screw (excl.)	F102104833
32	Dowel (pre-mounted)	F102104834
32	Expansion dowel (pre-mounted)	F102104835



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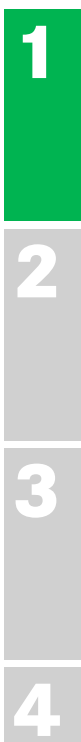
All dimensions in millimetres

Front panel installation dimensions	Installation dimensions for back panel	Cutting dimensions for 16 mm chipboard																
<p>* Recommendation/minimum dimension: 49.5 mm/Tipmatic Soft-close: 58 mm</p>	<table border="1"> <thead> <tr> <th>Slide</th> <th>16/19</th> <th>18</th> </tr> </thead> <tbody> <tr> <td>S</td> <td>16/19</td> <td>18</td> </tr> <tr> <td>EB</td> <td>29</td> <td>30</td> </tr> <tr> <td>A</td> <td>21.5</td> <td>22.5</td> </tr> </tbody> </table> <p>Note: Slide available in two versions: S16/S19 and S18. See chapter on slides.</p>	Slide	16/19	18	S	16/19	18	EB	29	30	A	21.5	22.5	<table border="1"> <thead> <tr> <th colspan="2">Cutting dimensions of slide-in element</th> </tr> </thead> <tbody> <tr> <td> </td> <td> <p>* Glass slide-in element</p> </td> </tr> </tbody> </table>	Cutting dimensions of slide-in element			<p>* Glass slide-in element</p>
Slide	16/19	18																
S	16/19	18																
EB	29	30																
A	21.5	22.5																
Cutting dimensions of slide-in element																		
	<p>* Glass slide-in element</p>																	

Exploded Drawing	

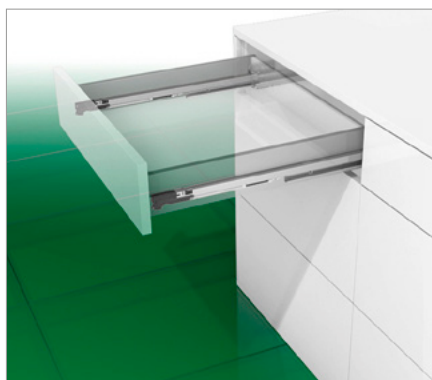
LEGEND

B	Bottom panel	EB	Installation width	NL	Nominal length
BB	Bottom panel width	FAS	Front overlay, side	RW	Back panel
BL	Bottom panel length	FST	Front overhang	RWB	Back panel width
BLA	Drill hole distance	LWK	Inside cabinet width	RWH	Back panel height



NOVA PRO SOFT-CLOSE S16/S19

Full extension slide 40/70 kg



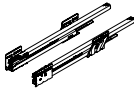
- Excellent running characteristics
- Fully synchronised slide technology
- Soft-close damping system
- Limit stop damper
- Maximum side stability
- Minimum drawer deflection
- Suitable for all Nova Pro drawer sides

Notice:

- For use with cabinet side wall S16 and S19 mm
- Installation width 29 mm
- See planning dimensions

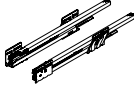
ORDER INFORMATION

1 Nova Pro Full extension slide 40 kg Soft-close S16/S19

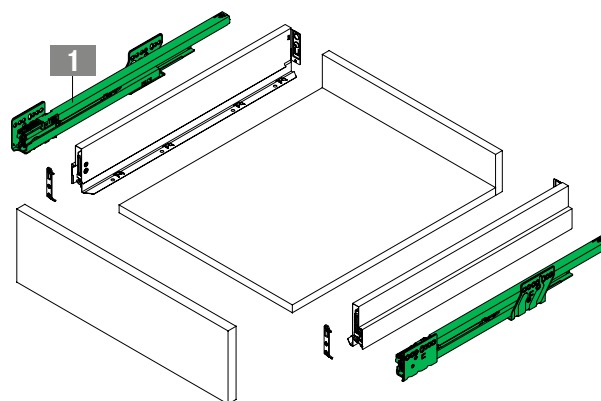


NL	40 kg	40 kg	40 kg	
	Left, Right	Left	Right	
270	F101108261	F101108262	F101108263	
300	F101108264	F101108265	F101108266	
350	F101108267	F101108268	F101108269	
400	F101108270	F101108271	F101108272	
450	F101108273	F101108274	F101108275	
500	F101108276	F101108277	F101108278	
550	F101108279	F101108280	F101108281	
600	F101108282	F101108283	F101108284	

1 Nova Pro Full extension slide 70 kg Soft-close S16/S19



NL	70 kg	70 kg	70 kg	
	Left, Right	Left	Right	
450	F101108285	F101108286	F101108287	
500	F101108288	F101108289	F101108290	
550	F101108291	F101108292	F101108293	
600	F101108294	F101108295	F101108296	
650	F101108297	F101108298	F101108299	

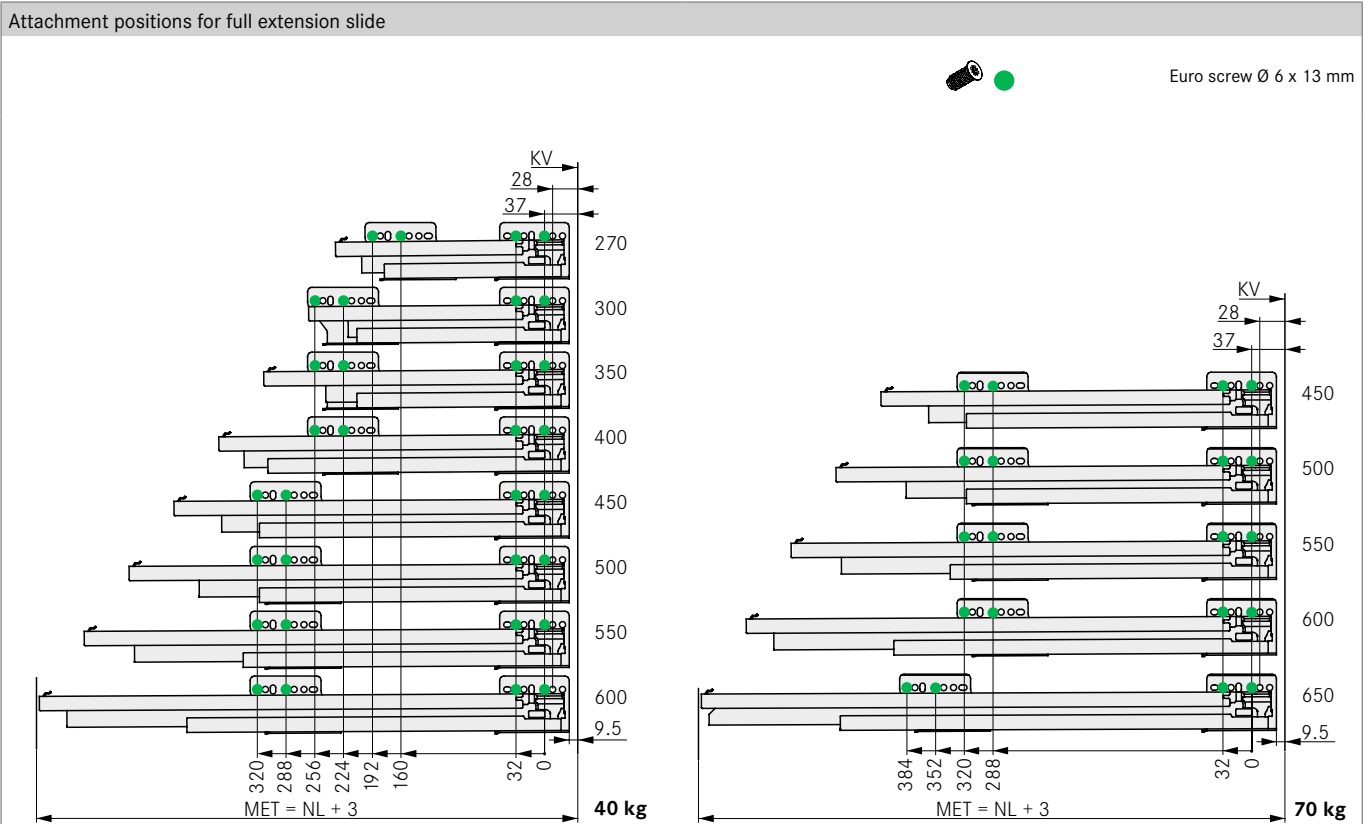
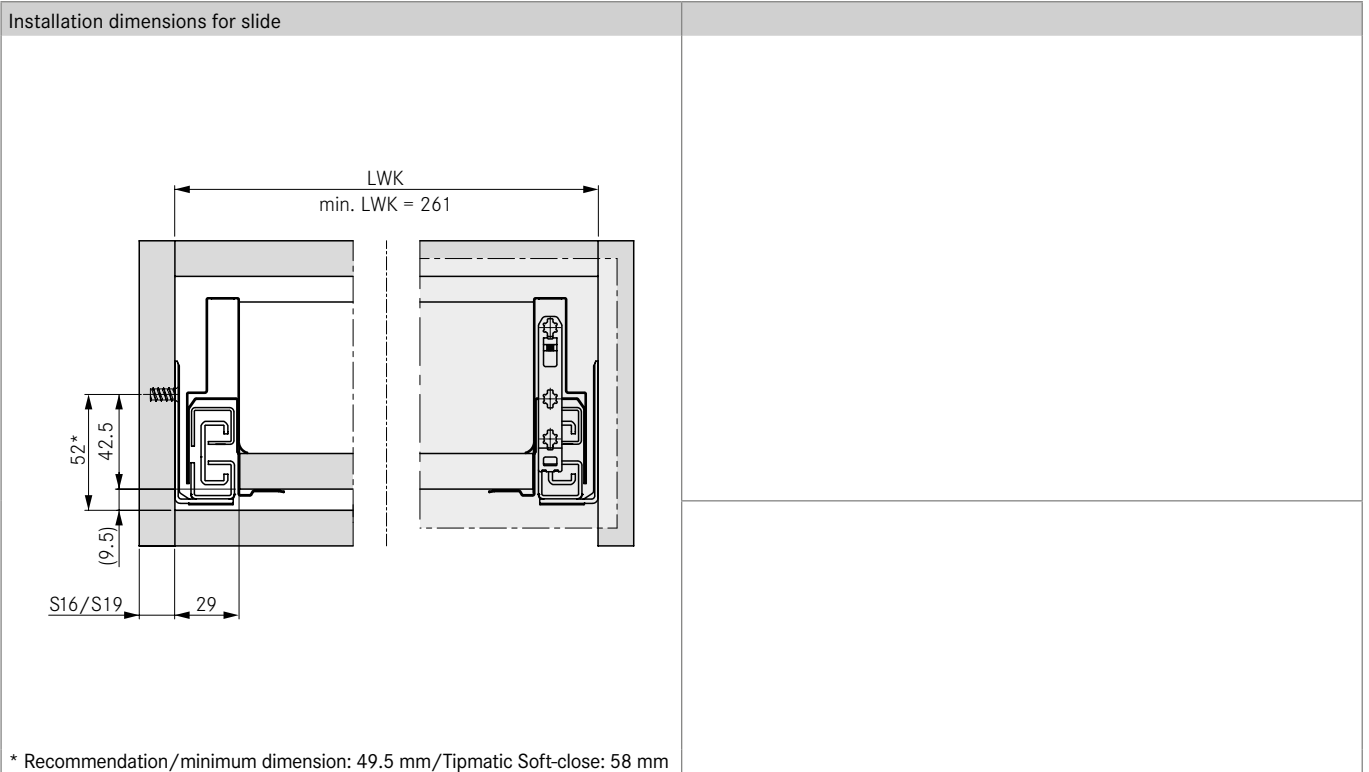


PAGE REFERENCES

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Inset panels	56	Accessories	82	Sensomatic	105
Designer panels	70	Technical information	86	Assembly technology	125

PLANNING INFORMATION

All dimensions in millimetres



LEGEND

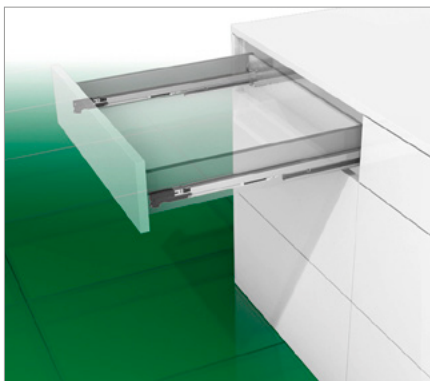
KV	Front edge of cabinet
LWK	Inside cabinet width
MET	Minimum installation depth
NL	Nominal length

S	Side wall thickness
---	---------------------



NOVA PRO SOFT-CLOSE S 18

Full extension slide 40/70 kg



- Excellent running characteristics
- Fully synchronised slide technology
- Soft-close damping system
- Limit stop damper
- Maximum side stability
- Minimum drawer deflection
- Suitable for all Nova Pro drawer sides

Notice:

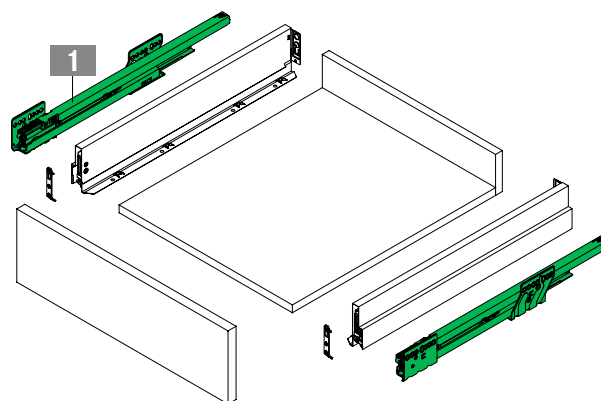
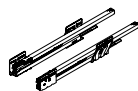
- For use with cabinet side wall S 18 mm
- Installation width 30 mm
- See planning dimensions

ORDER INFORMATION

1 Nova Pro Full extension slide 40 kg Soft-close S 18				
	40 kg	40 kg	40 kg	
NL	Left, Right	Left	Right	
270	F101108450	F101108451	F101108452	
300	F101108453	F101108454	F101108455	
350	F101108456	F101108457	F101108458	
400	F101108459	F101108460	F101108461	
450	F101108462	F101108463	F101108464	
500	F101108465	F101108466	F101108467	
550	F101108468	F101108469	F101108470	
600	F101108471	F101108472	F101108473	



1 Nova Pro Full extension slide 70 kg Soft-close S 18				
	70 kg	70 kg	70 kg	
NL	Left, Right	Left	Right	
450	F101108474	F101108475	F101108476	
500	F101108477	F101108478	F101108479	
550	F101108480	F101108481	F101108482	
600	F101108483	F101108484	F101108485	
650	F101108486	F101108487	F101108488	

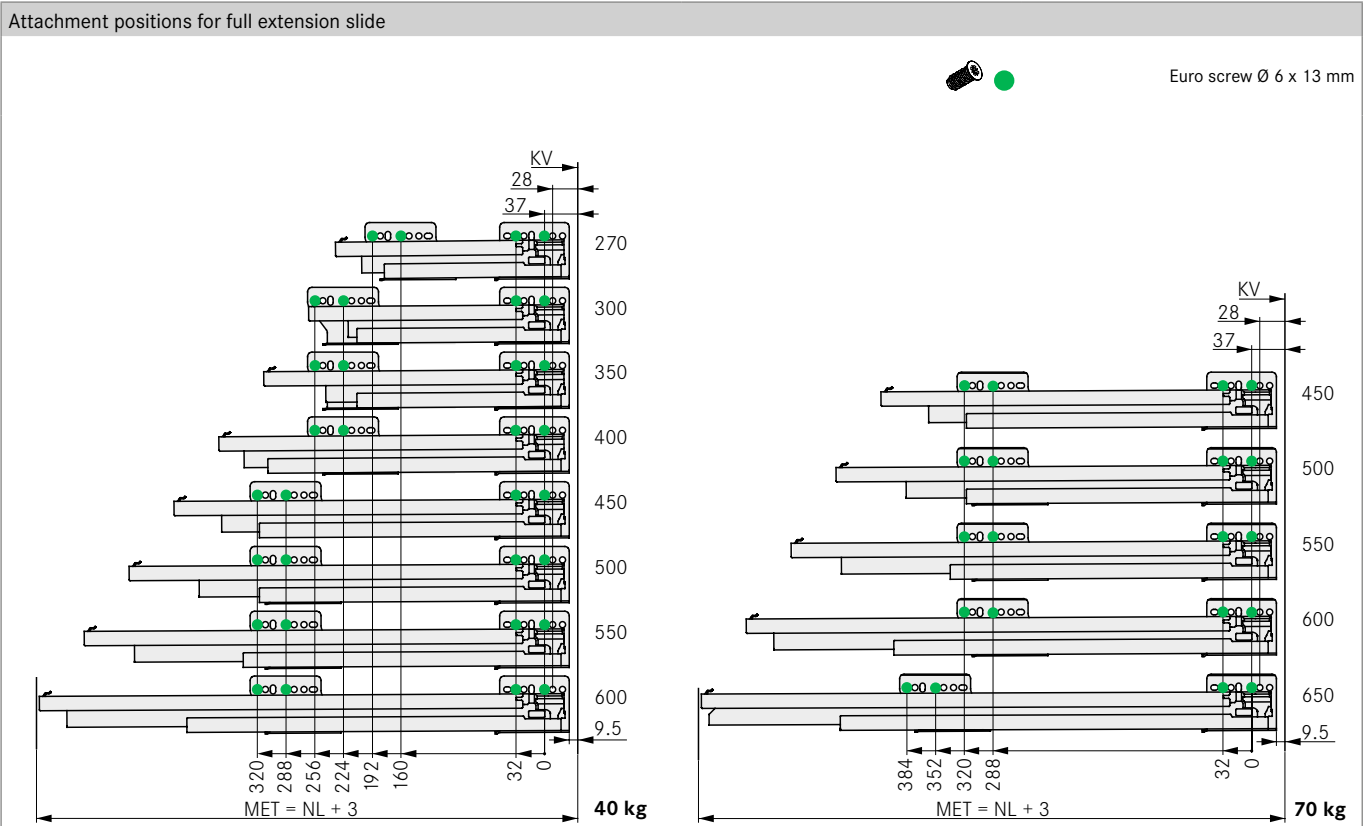
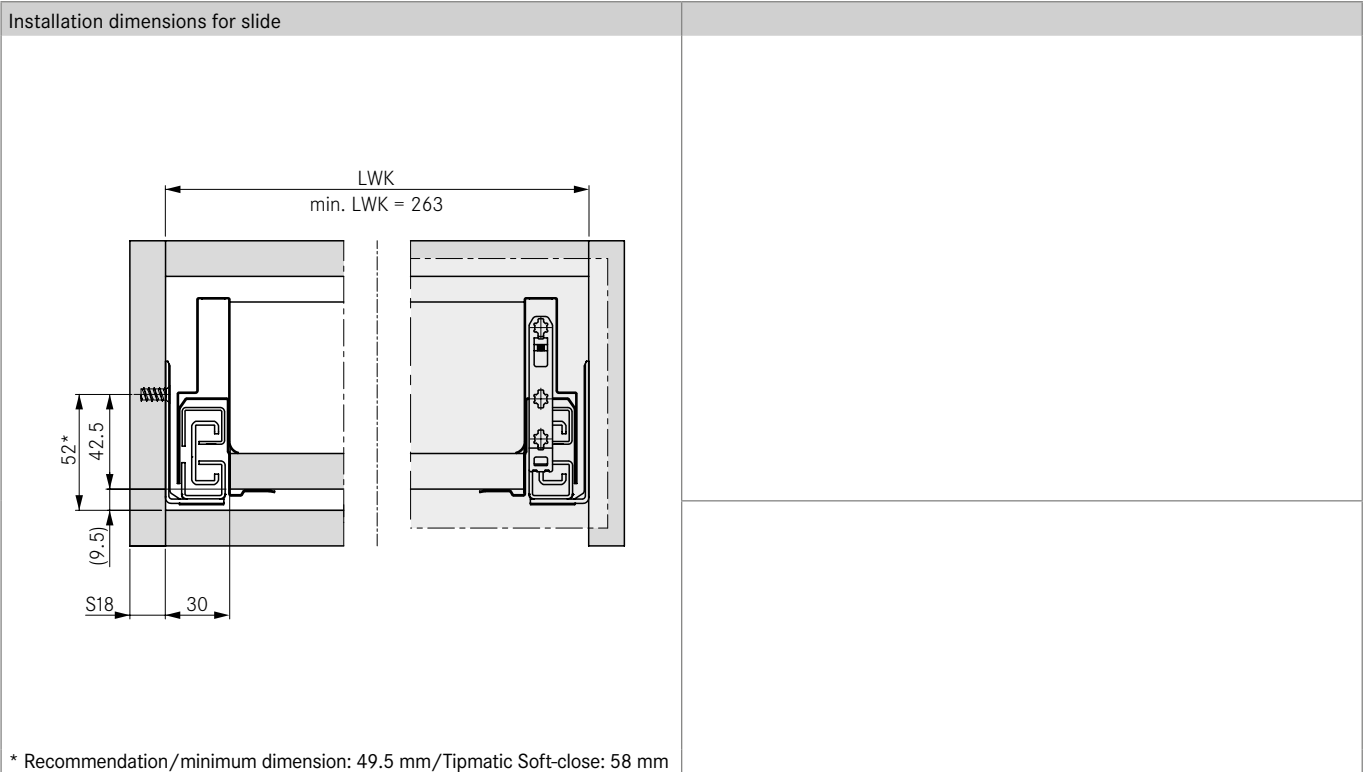


PAGE REFERENCES

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Designer panels	70	Technical information	86	Assembly technology	125

PLANNING INFORMATION

All dimensions in millimetres



LEGEND

KV	Front edge of cabinet
LWK	Inside cabinet width
MET	Minimum installation depth
NL	Nominal length

S	Side wall thickness
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1

2

3

4

NOVA PRO TIPMATIC SOFT-CLOSE S16/S19

Full extension slide 40/70 kg



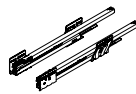
- Mechanical opening system for handle-free fronts
- Combines Tipmatic function with Soft-close damper
- Easy installation of the Tipmatic Soft-close unit
- Can be used for Nova Pro Soft-close full extension slides
- One unit for all nominal lengths and weight classes
- 3-stage adjustment of the opening force
- Large activation zone through synchronisation rod

Notice:

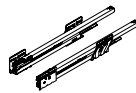
- For use with cabinet side wall S16 and S19 mm
- Installation width 29 mm
- See planning dimensions

ORDER INFORMATION

1 Nova Pro Full extension slide 40 kg Soft-close S16/S19				
NL	40 kg	40 kg	40 kg	
	Left, Right	Left	Right	
270	F101108261	F101108262	F101108263	
300	F101108264	F101108265	F101108266	
350	F101108267	F101108268	F101108269	
400	F101108270	F101108271	F101108272	
450	F101108273	F101108274	F101108275	
500	F101108276	F101108277	F101108278	
550	F101108279	F101108280	F101108281	
600	F101108282	F101108283	F101108284	



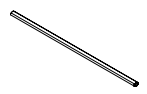
1 Nova Pro Full extension slide 70 kg Soft-close S16/S19				
NL	70 kg	70 kg	70 kg	
	Left, Right	Left	Right	
450	F101108285	F101108286	F101108287	
500	F101108288	F101108289	F101108290	
550	F101108291	F101108292	F101108293	
600	F101108294	F101108295	F101108296	
650	F101108297	F101108298	F101108299	



2 Nova Pro Tipmatic Soft-close Set: Activator, Unit		
Type of assembly	Art. no.	
Screw-on	F102134456	



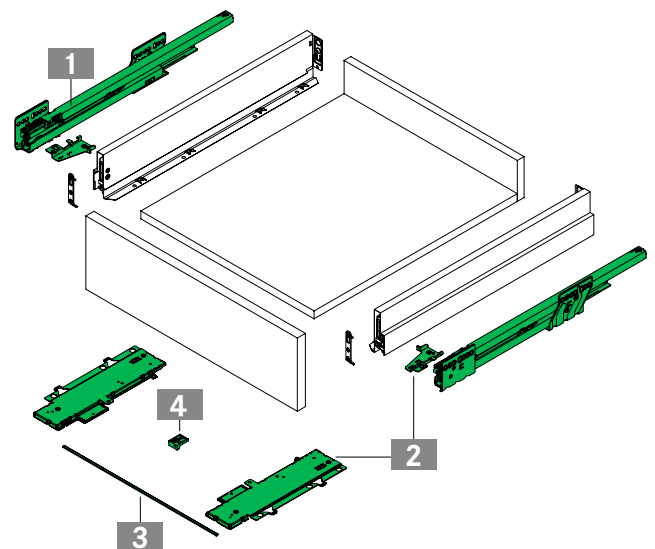
3 Synchronisation rod for Nova Pro Tipmatic Soft-close Piece		
KB	Length of synchronisation rod	Art. no.
1200	962	F102109393
1800	1562	F102109394
2200	1952	F134131408



4 Support for synchronisation rod Piece		
Min. cabinet width	Art. no.	
800	F102108021	



Individual components Piece: Left, Right		
Product type	Art. no.	
Activator	F102109295	
Unit	F102134457	

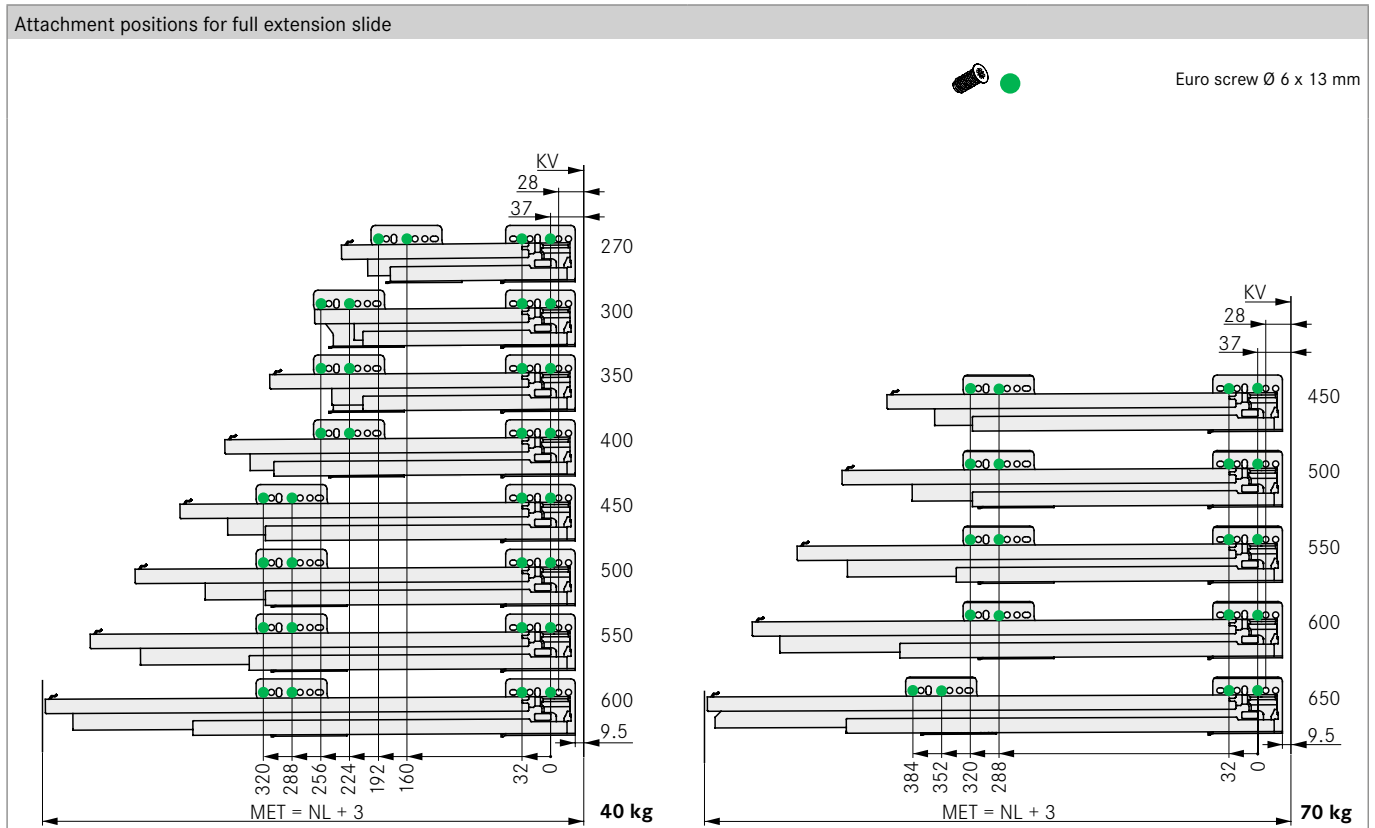
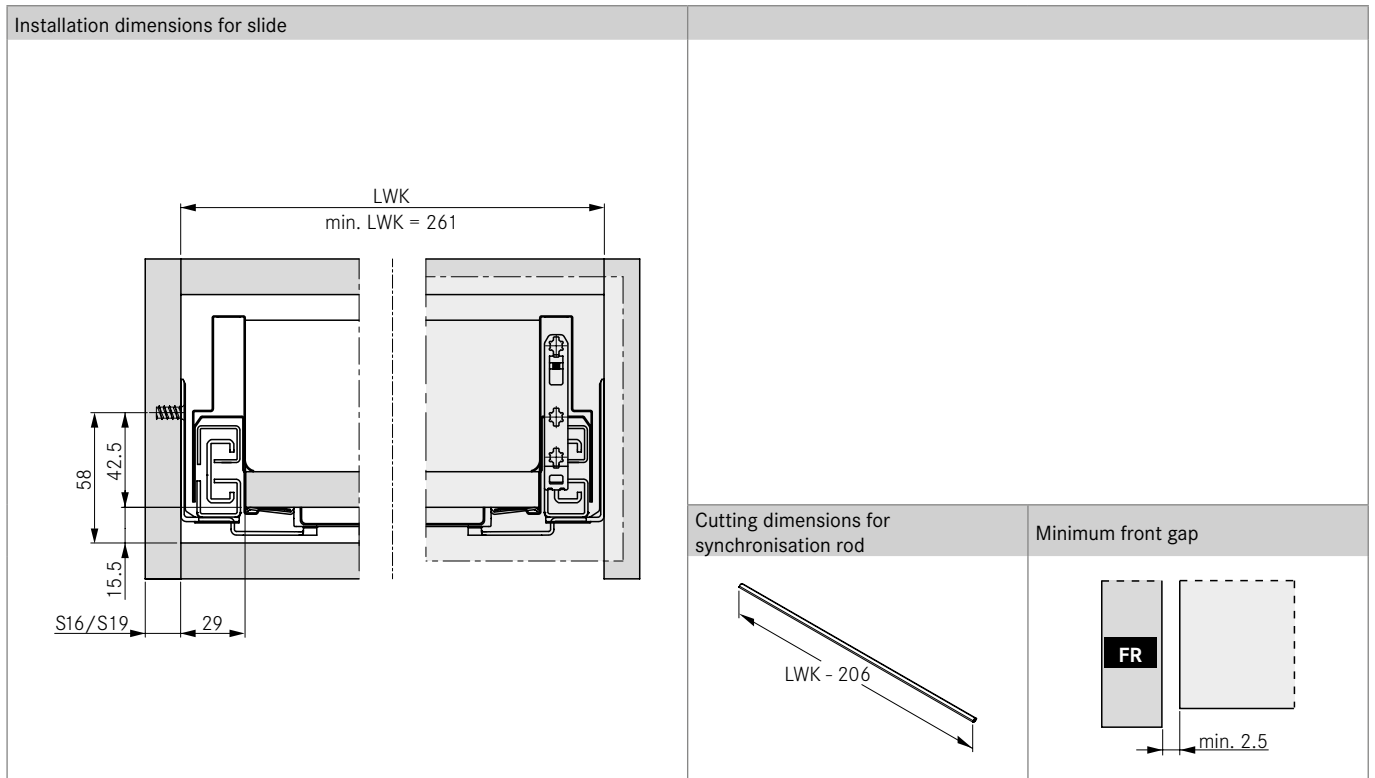


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PLANNING INFORMATION

All dimensions in millimetres



LEGEND

FR	Front	MET	Minimum installation depth
KB	Cabinet width	NL	Nominal length
KV	Front edge of cabinet	S	Side wall thickness
LWK	Inside cabinet width		



NOVA PRO TIPMATIC SOFT-CLOSE S18

Full extension slide 40/70 kg



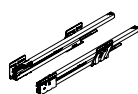
- Mechanical opening system for handle-free fronts
- Combines Tipmatic function with Soft-close damper
- Easy installation of the Tipmatic Soft-close unit
- Can be used for Nova Pro Soft-close full extension slides
- One unit for all nominal lengths and weight classes
- 3-stage adjustment of the opening force
- Large activation zone through synchronisation rod

Notice:

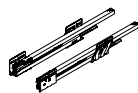
- For use with cabinet side wall S18 mm
- Installation width 30 mm
- See planning dimensions

ORDER INFORMATION

1 Nova Pro Full extension slide 40 kg Soft-close S18				
NL	40 kg	40 kg	40 kg	
	Left, Right	Left	Right	
270	F101108450	F101108451	F101108452	
300	F101108453	F101108454	F101108455	
350	F101108456	F101108457	F101108458	
400	F101108459	F101108460	F101108461	
450	F101108462	F101108463	F101108464	
500	F101108465	F101108466	F101108467	
550	F101108468	F101108469	F101108470	
600	F101108471	F101108472	F101108473	



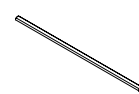
1 Nova Pro Full extension slide 70 kg Soft-close S18				
NL	70 kg	70 kg	70 kg	
	Left, Right	Left	Right	
450	F101108474	F101108475	F101108476	
500	F101108477	F101108478	F101108479	
550	F101108480	F101108481	F101108482	
600	F101108483	F101108484	F101108485	
650	F101108486	F101108487	F101108488	



2 Nova Pro Tipmatic Soft-close Set: Activator, Unit		
Type of assembly	Art. no.	
Screw-on	F102134456	



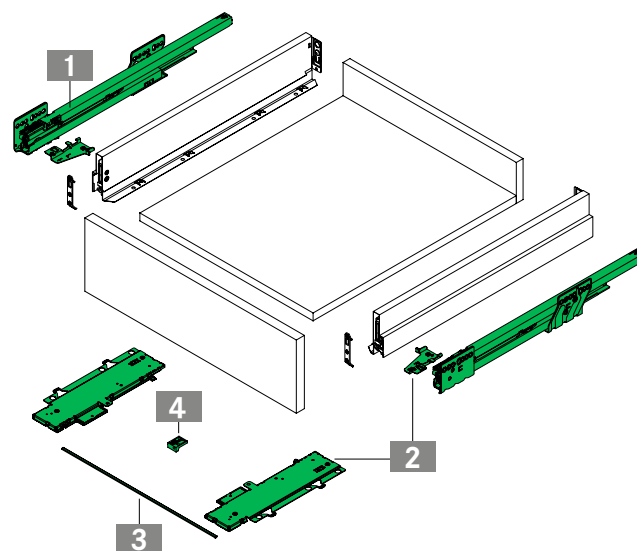
3 Synchronisation rod for Nova Pro Tipmatic Soft-close Piece		
KB	Length of synchronisation rod	Art. no.
1200	962	F102109393
1800	1562	F102109394
2200	1952	F134131408



4 Support for synchronisation rod Piece	
Min. cabinet width	Art. no.
800	F102108021



Individual components Piece: Left, Right	
Product type	Art. no.
Activator	F102109295
Unit	F102134457

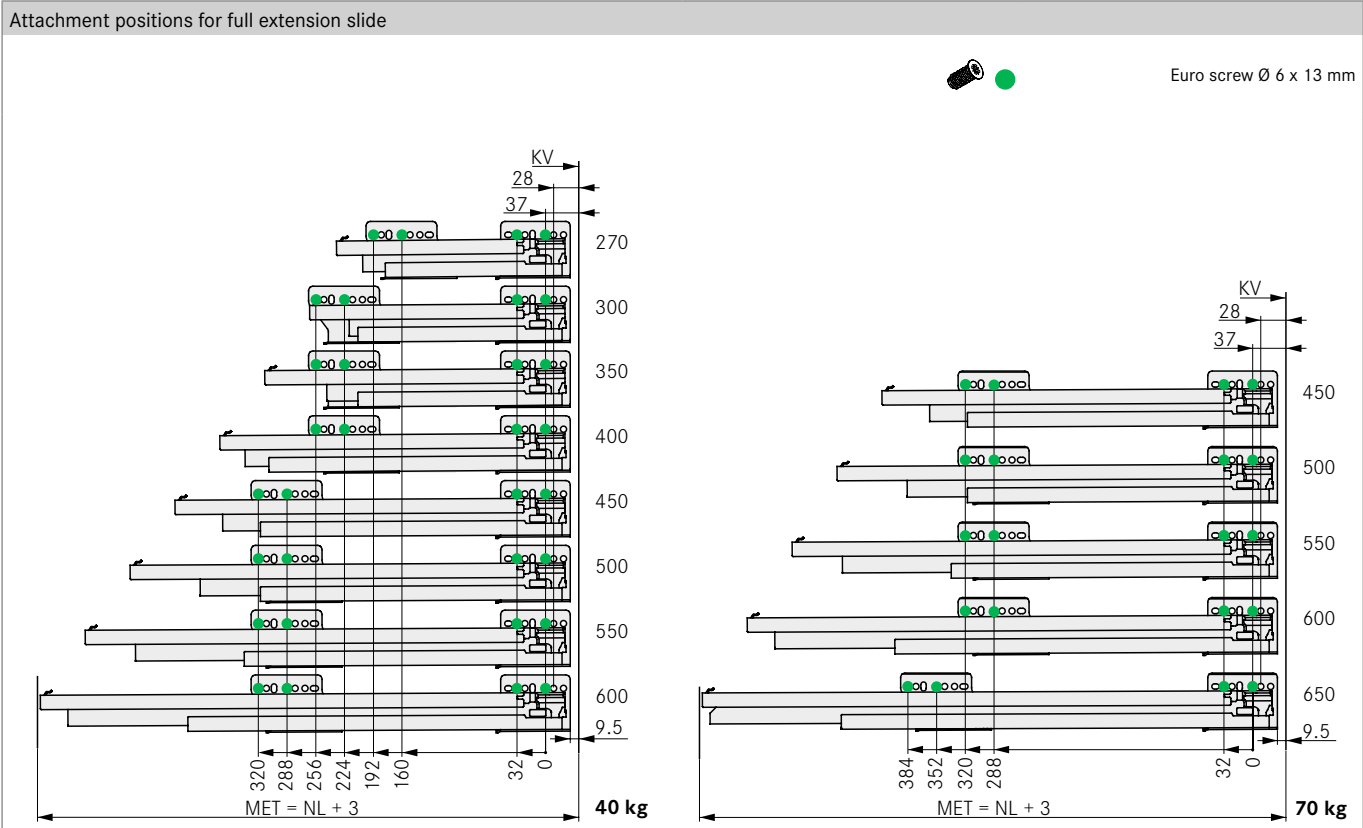
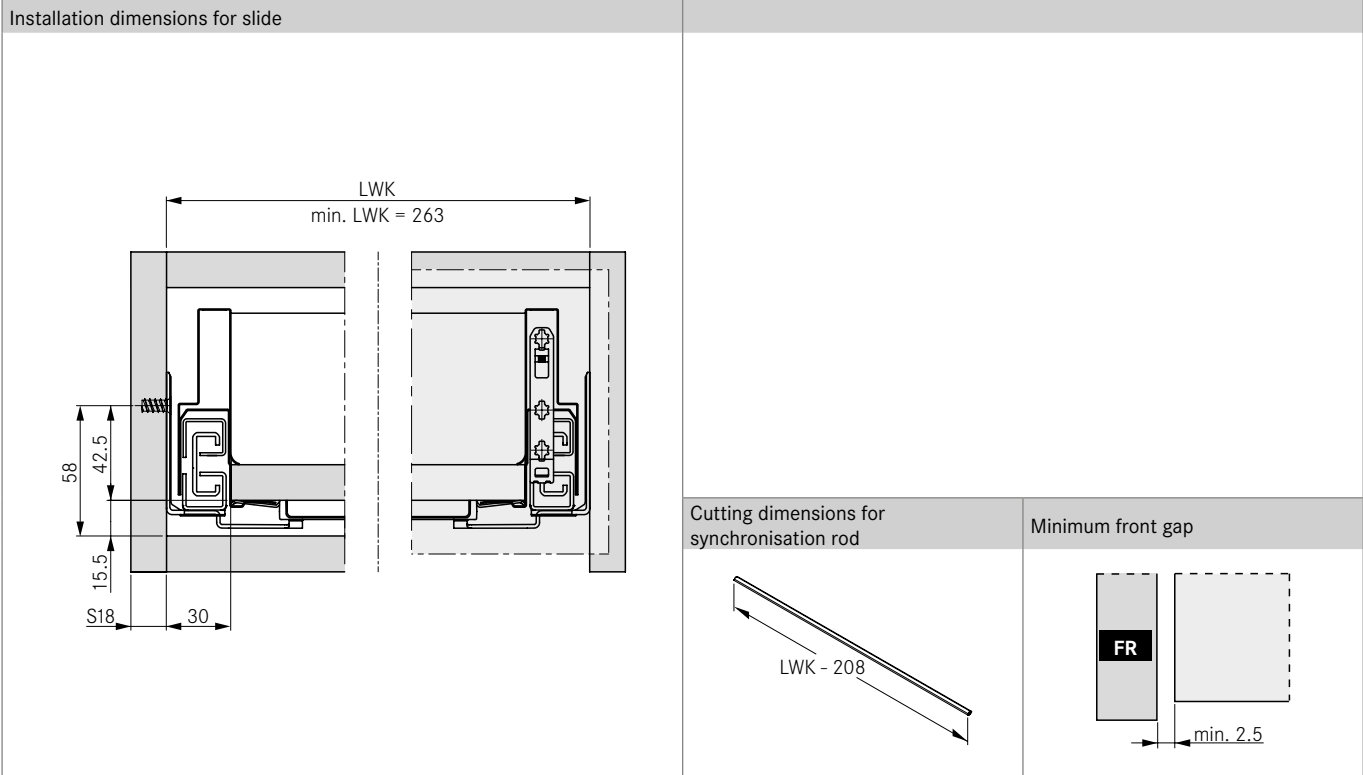


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PLANNING INFORMATION

All dimensions in millimetres



LEGEND

FR	Front	MET	Minimum installation depth
KB	Cabinet width	NL	Nominal length
KV	Front edge of cabinet	S	Side wall thickness
LWK	Inside cabinet width		



NOVA PRO TIPMATIC SOFT-CLOSE S16/S19

30 kg full extension slide for short and light drawers



- Mechanical opening system for handle-free fronts
- Combines Tipmatic function with Soft-close damper
- Optimised ejection/entry adjustment especially for short and light drawers from 5 to 30 kg
- Can only be used in combination with Nova Pro Soft-close full extension slides 30 kg
- One unit for all nominal lengths and weight classes thanks to 3-stage adjustment of the ejection force

- Easy installation of the Tipmatic Soft-close unit
- Large activation zone due to synchronisation rod

Notice:

- For use with cabinet side wall S16 and S19 mm
- Installation width 29 mm
- See planning dimensions

ORDER INFORMATION

1	Nova Pro Full extension slide 30 kg Soft-close S16/S19 for short and light drawers			
	Piece			
	30 kg	30 kg		
NL	Left	Right		
270	F101131571	F101131572		
300	F101131574	F101131575		
350	F101131577	F101131578		
400	F101131580	F101131581		



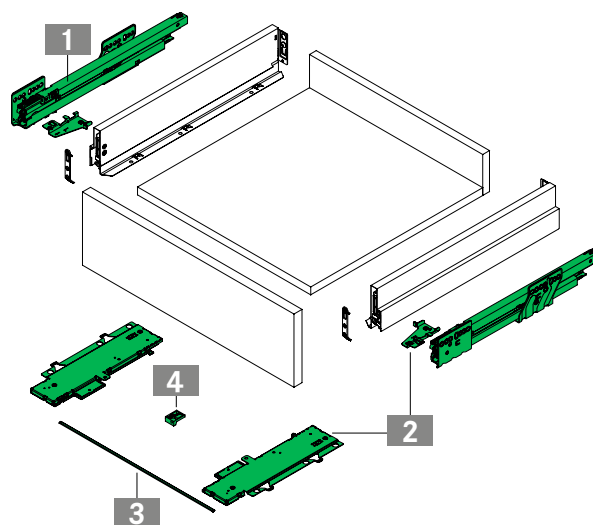
2	Nova Pro Tipmatic Soft-close for short and light drawers	
	Set: Activator, unit	
	Type of assembly	Art. no.
	Screw-on	F102134460



3	Synchronisation rod for Nova Pro Tipmatic Soft-close	
	Piece	
KB	Length of synchronisation rod	Art. no.
1200	962	F102109393
1800	1562	F102109394
2200	1952	F134131408



4	Support for synchronisation rod	
	Piece	
	Min. cabinet width	Art. no.
	800	F102108021



PAGE REFERENCES

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PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions for slide

Cutting dimensions for synchronisation rod

Minimum front gap

Attachment positions for full extension slide

Euro screw Ø 6 x 13 mm

LEGEND

FR	Front	MET	Minimum installation depth
KB	Cabinet width	NL	Nominal length
KV	Front edge of cabinet	S	Side wall thickness
LWK	Inside cabinet width		



NOVA PRO SOFT-CLOSE S16/S19

Over-extension 50 kg



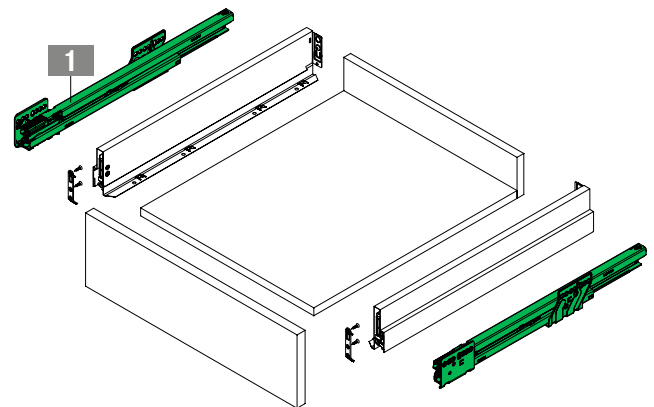
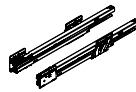
- Extended pull-out distance for greater ergonomics when using the drawer or extension
- Ideal for waste separation systems, overhanging worktops and other special applications where extended access is required
- Over-extension of 50 mm for nominal length 500 and 40 mm for nominal length 450
- Soft-close damping system
- High stability despite long pull-out distance
- Suitable for all Nova Pro drawer sides

Notice:

- For use with cabinet side wall S16 and S19 mm
- Installation width 29 mm
- See planning dimensions

ORDER INFORMATION

1	Nova Pro Over-extension 50 kg Soft-close S16/S19			
	Set: Left, Right			
	50 kg			
NL	Left, Right			
450	F101131988			
500	F101132460			

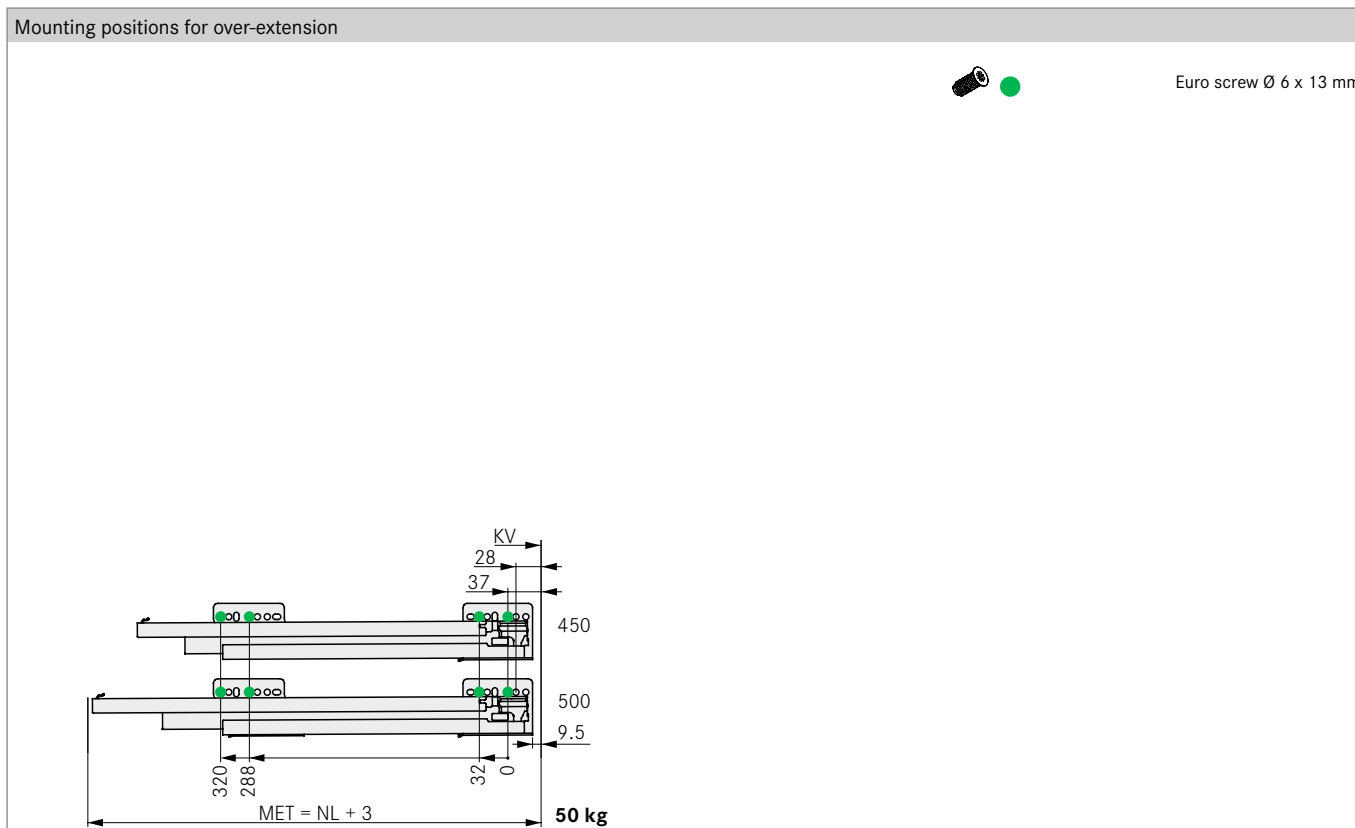
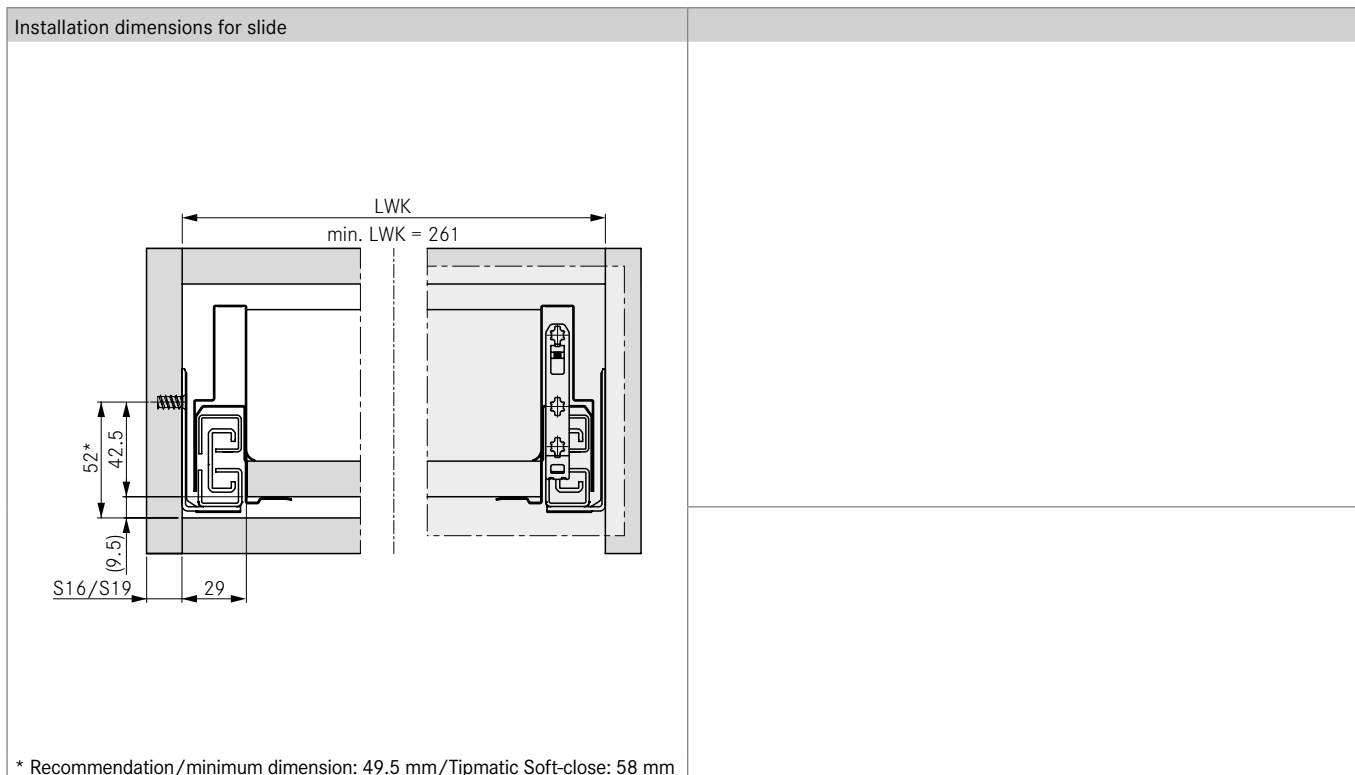


PAGE REFERENCES

Drawer sides	28	Application examples	76	Organising systems	93
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Designer panels	70	Technical information	86	Assembly technology	125

PLANNING INFORMATION

All dimensions in millimetres



LEGEND

KV	Front edge of cabinet
LWK	Inside cabinet width
MET	Minimum installation depth
NL	Nominal length

S	Side wall thickness
---	---------------------



NOVA PRO SOFT-CLOSE

Bottom panel mounting 70 kg

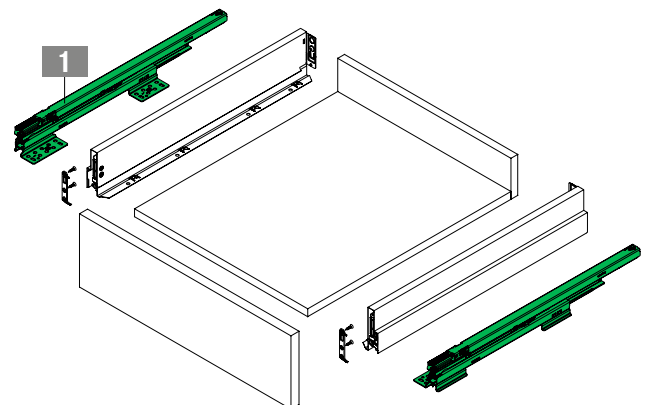


- Extends the options for flexible use and subdivision of cabinets, e.g. for waste separation systems
- Assembly on the cabinet base or shelf
- Synchronised full extension slide, 70 kg load capacity
- Soft-close damping system
- Excellent running characteristics
- Compatible with Tipmatic Soft-close unit through additional activator
- Suitable for all Nova Pro drawer sides

ORDER INFORMATION

1	Nova Pro Full extension slide 70 kg Soft-close for bottom panel mounting			
	Piece			
	70 kg	70 kg		
NL	Left	Right		
450	F101132331	F101132332		
500	F101132333	F101132334		

Nova Pro bottom panel mounting Tipmatic Soft-close activator		
Set: Left, Right		
	Product type	Art. no.
	Activator	F102132634

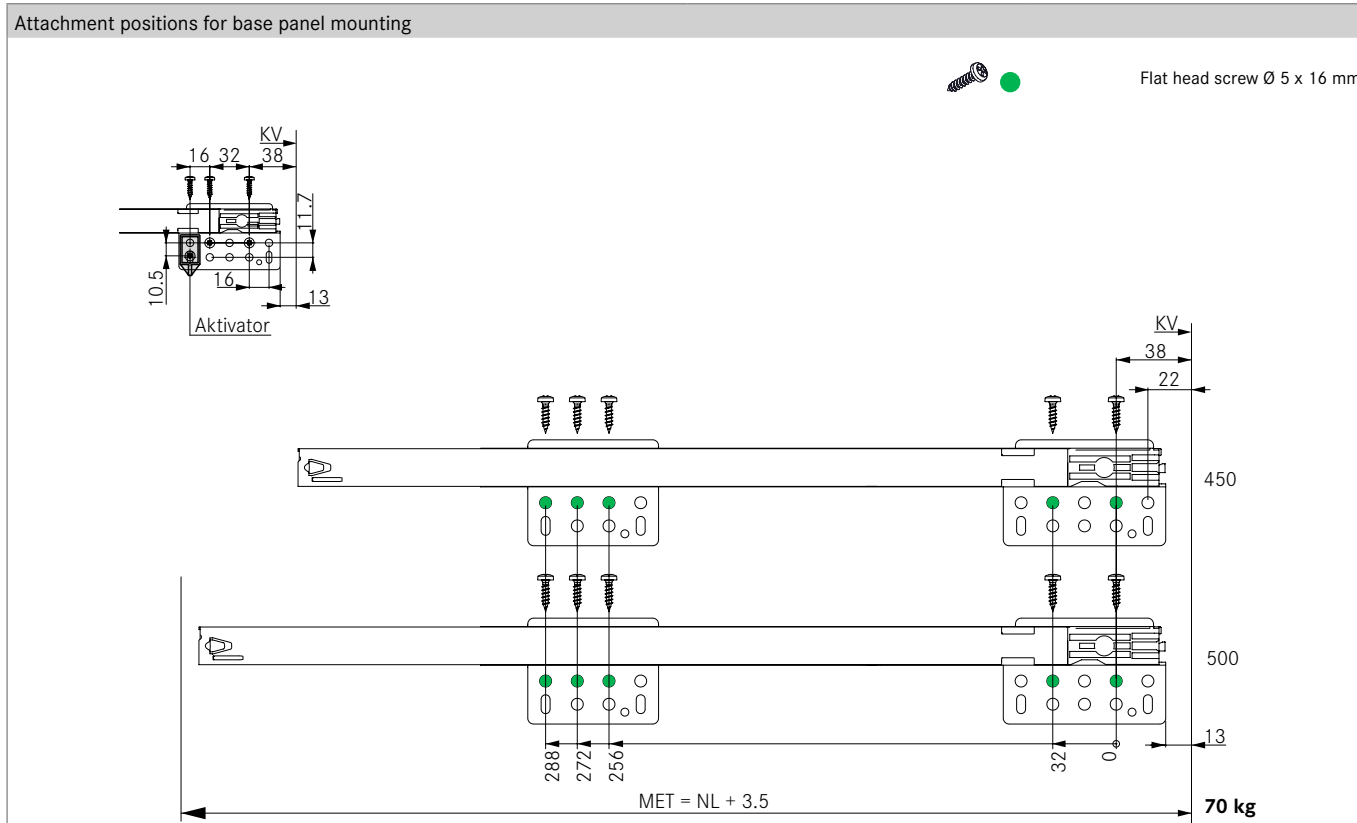
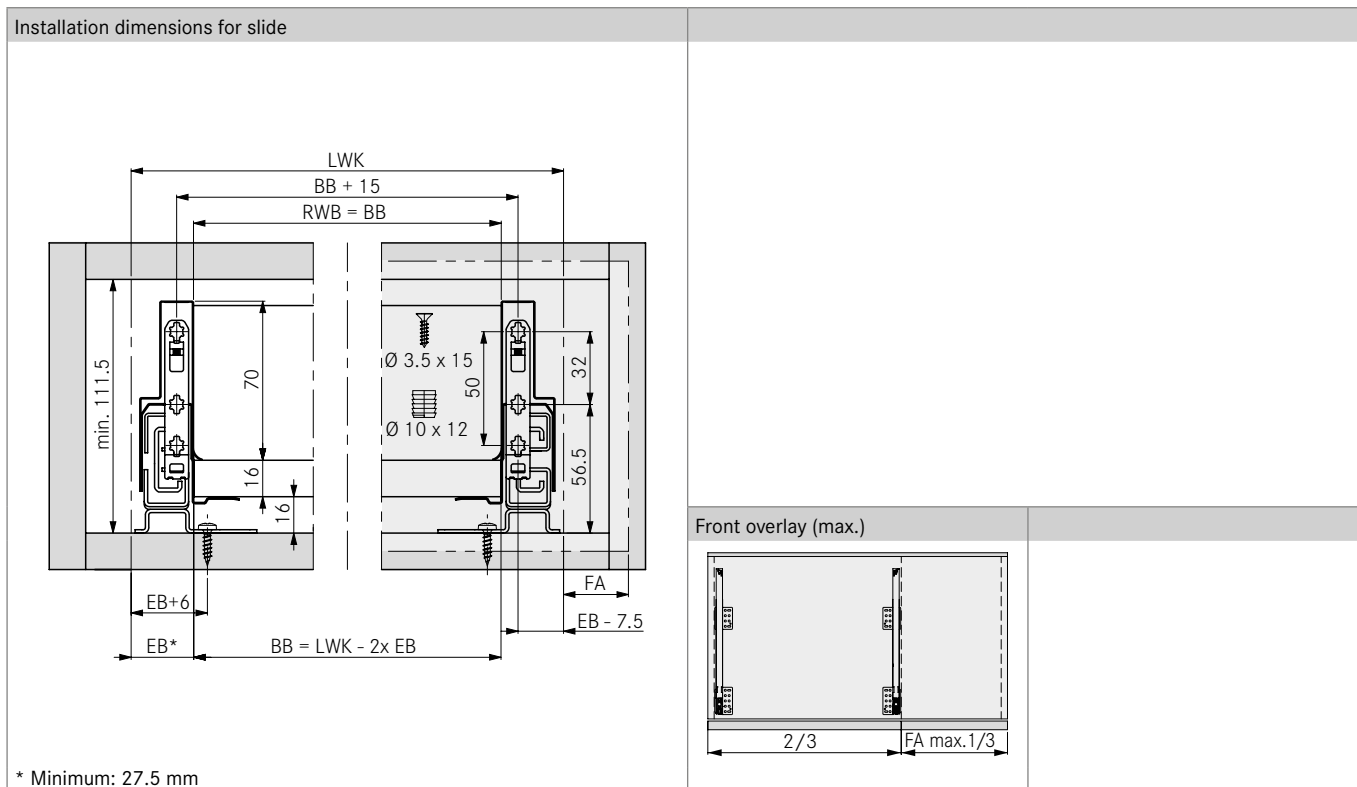


PAGE REFERENCES

Drawer sides	28	Application examples	76	Organising systems	93
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Designer panels	70	Technical information	86	Assembly technology	125

PLANNING INFORMATION

All dimensions in millimetres



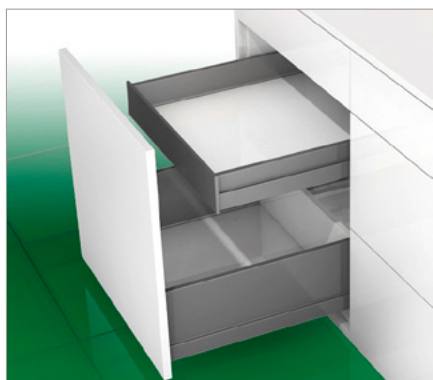
LEGEND

BB	Bottom panel width	LWK	Inside cabinet width
EB	Installation width	MET	Minimum installation depth
FA	Front overlay	NL	Nominal length
KV	Front edge of cabinet	RWB	Back panel width



NOVA PRO SCALA

F8 inset panel for inset drawer H90

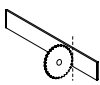



- Colour-coordinated aluminium trim panel
- Smooth inside and outside surfaces provide a high-quality look
- Same dimensions as standard drawers (inside depth)

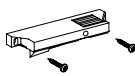
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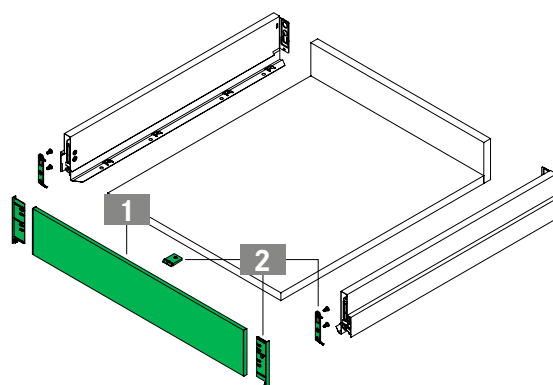
- Front-bottom connector recommended for widths of 600 mm and above (see accessories)

ORDER INFORMATION

1	F8 inset panel H90 for cutting to length			
	Piece			
				
L	Ice	Silver	Stone	Zircon
1160	F102105357	F102105069	F102101371	F102132243

2	Accessories, F8 inset panel for inset drawer H90			
	Set: Left or right			
				
H	Ice	Silver	Stone	Zircon
90	F102109511	F102109512	F102109510	F102133254

Inset drawer catch				
Piece: Inset drawer catch and pan head screws				
dia. 3.5 x 15 mm (2x)				
				
	Ice	Silver	Stone, Graphite	Zircon
	F102132043	F102132042	F102109714	F102134381



PAGE REFERENCES

Drawer sides	30	Accessories	82	Sensomatic	105
Slides	42	Technical information	86	Assembly technology	125
Designer panels	70	Organising systems	93	Assembly aids	134

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions

Front panel profile H90

Slide		
S	16/19	18
EB	29	30

Note: Slide available in two versions: S16/S19 and S18. See the chapter on slides.

* Recommendation/minimum dimension: 49.5 mm/Tipmatic Soft-close: 58 mm

Attachment positions for full extension slide

Euro screw Ø 6 x 13 mm

40 kg

MET = NL + 12

70 kg

MET = NL + 12

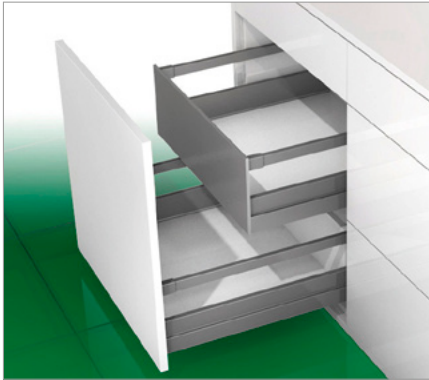
LEGEND

BB Bottom panel width	KB Cabinet width	NL Nominal length
EB Installation width	KV Front edge of cabinet	RWB Back panel width
H Height	LWK Inside cabinet width	S Side wall thickness
IBL Length of concealed drawer front	MET Minimum installation depth	



NOVA PRO SCALA

F8 inset panel for inset drawer H90 with rectangular railing



- Colour-coordinated aluminium trim panel
- Smooth inside and outside surfaces provide a high-quality look
- Same dimensions as standard drawers (inside depth)

Notice:

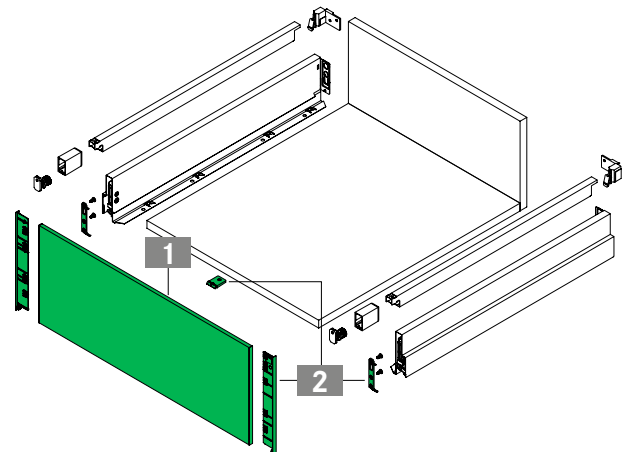
- Front-bottom connector recommended for widths of 600 mm and above (see accessories)

ORDER INFORMATION

1	F8 inset panel H186 for cutting to length				
	Piece				
L	Ice	Silver	Stone	Zircon	
1160	F102105358	F102105070	F102101379	F102132244	

2	Accessories, F8 inset panel for inset drawer H90 with rectangular railing				
	Set: Left or right				
H	Ice	Silver	Stone	Zircon	
186	F102109517	F102109518	F102109516	F102133256	

Inset drawer catch					
Piece: Inset drawer catch and pan head screws dia. 3.5 x 15 mm (2x)					
	Ice	Silver	Stone, Graphite	Zircon	
	F102132043	F102132042	F102109714	F102134381	



PAGE REFERENCES

Drawer sides	38	Accessories	82	Sensomatic	105
Slides	42	Technical information	86	Assembly technology	125
Designer panels	70	Organising systems	93	Assembly aids	134

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions

Front panel profile H186

Slide		
S	16/19	18
EB	29	30

Note: Slide available in two versions: S16/S19 and S18. See the chapter on slides.

* Recommendation/minimum dimension: 49.5 mm/Tipmatic Soft-close: 58 mm

Attachment positions for full extension slide

Euro screw $\varnothing 6 \times 13$ mm

40 kg

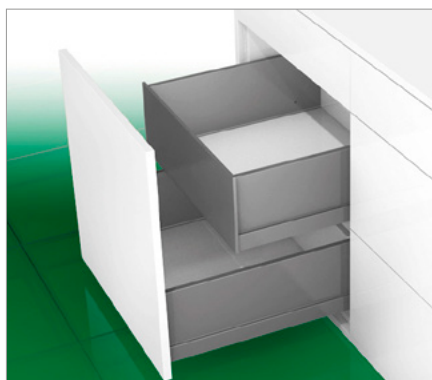
70 kg

LEGEND

BB	Bottom panel width	KB	Cabinet width	NL	Nominal length
EB	Installation width	KV	Front edge of cabinet	RWB	Back panel width
H	Height	LWK	Inside cabinet width	S	Side wall thickness
IBL	Length of concealed drawer front	MET	Minimum installation depth		

NOVA PRO SCALA

F8 inset panel for inset drawer H186 and Crystal Plus

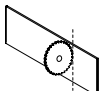


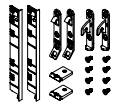
- Colour-coordinated aluminium trim panel
- Smooth inside and outside surfaces provide a high-quality look
- Same dimensions as standard drawers (inside depth)

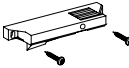
Notice:

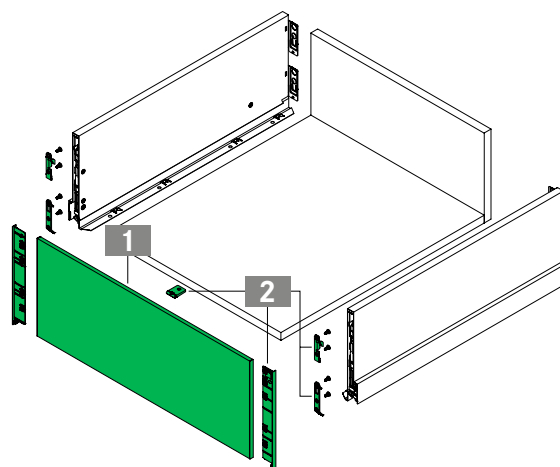
- Front-bottom connector recommended for widths of 600 mm and above (see accessories)

ORDER INFORMATION

1	F8 inset panel H186 for cutting to length			
	Piece			
				
L	Ice	Silver	Stone	Zircon
1160	F102105358	F102105070	F102101379	F102132244

2	Accessories, F8 inset panel for inset drawer H186 and Crystal Plus			
	Set: Left or right			
				
H	Ice	Silver	Stone	Zircon
186	F102109514	F102109515	F102109513	F102133255

Inset drawer catch				
Piece: Inset drawer catch and pan head screws				
dia. 3.5 x 15 mm (2x)				
				
	Ice	Silver	Stone, Graphite	Zircon
	F102132043	F102132042	F102109714	F102134381



PAGE REFERENCES

Drawer sides	34	Accessories	82	Sensomatic	105
Slides	42	Technical information	86	Assembly technology	125
Designer panels	70	Organising systems	93	Assembly aids	134

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions

* Recommendation/minimum dimension: 49.5 mm/Tipmatic Soft-close: 58 mm

Front panel profile H186

Slide		Can be used with	
S	16/19	18	<p>H186 Crystal Plus</p>
EB	29	30	

Note: Slide available in two versions: S16/S19 and S18. See chapter on slides.

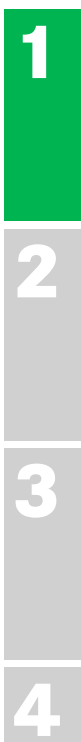
Attachment positions for full extension slide

Euro screw $\text{Ø } 6 \times 13 \text{ mm}$

40 kg **70 kg**

LEGEND

BB Bottom panel width	KB Cabinet width	NL Nominal length
EB Installation width	KV Front edge of cabinet	RWB Back panel width
H Height	LWK Inside cabinet width	S Side wall thickness
IBL Length of concealed drawer front	MET Minimum installation depth	



NOVA PRO SCALA

F8 inset panel Crystal for inset drawer H186 and Crystal Plus



- Colour-coordinated with Nova Pro Scala
- Elegant design
- Low complexity of parts
- Easy installation
- Slide-in element 6 mm
- No need to machine the slide-in elements
- Same dimensions as standard drawers (inside depth)
- Can be used with H186 and Crystal Plus drawer sides

Notice:

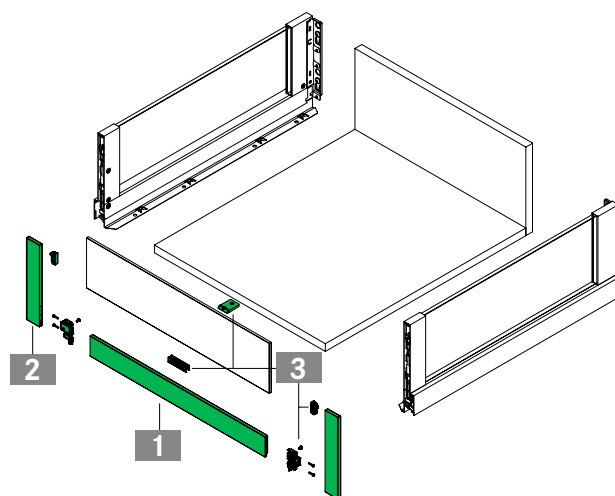
- Front-bottom panel connector recommended for width 600 mm and above
- Stabiliser recommended for width 600 mm and above

ORDER INFORMATION

1	Cross profile for F8 inset panel Crystal for cutting to length			
	Piece			
L	Ice	Silver	Stone	Zircon
1087	F102132511	F102132532	F102132490	F102132655

2	Bracket for F8 inset panel Crystal H186			
	Set: Bracket with pre-assembled installation hooks, front clips, cover caps			
H	Ice	Silver	Stone	Zircon
186	F102132469	F102132470	F102132468	F102132641

3	Accessories F8 inset panel Crystal for inset drawer H186 and Crystal Plus			
	Set: Profile adapter, profile screws, special screws, stabiliser, spacer, front-bottom panel connector			
H	Ice	Silver	Stone	Zircon
186	F102132472	F102132473	F102132471	F102132642



PAGE REFERENCES

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PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions

* Recommendation/minimum dimension: 49.5 mm/Tipmatic Soft-close: 58 mm

Front panel profile H186

Slide		
S	16/19	18
EB	29	30

Note: Slide available in two versions: S16/S19 and S18. See chapter on slides.

High glass

Low glass

Cutting dimensions for cross profile

Attachment positions for full extension slide

Euro screw Ø 6 x 13 mm

40 kg **70 kg**

LEGEND

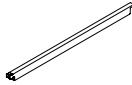
BB Bottom panel width	KB Cabinet width	NL Nominal length
EB Installation width	KV Front edge of cabinet	RWB Back panel width
H Height	LWK Inside cabinet width	S Side wall thickness
IBL Length of concealed drawer front	MET Minimum installation depth	





NOVA PRO SCALA


Rectangular railing - individual components


ORDER INFORMATION

1	Nova Pro Rectangular railing				
	Piece				
					
	NL	Ice	Silver	Stone	Zircon
	270	F102104630	F102104639	F102104621	F102133229
	300	F102104631	F102104640	F102104622	F102130899
	350	F102104632	F102104641	F102104623	F102133230
	400	F102104633	F102104642	F102104624	F102130900
	450	F102104634	F102104643	F102104625	F102133231
	500	F102104635	F102104644	F102104626	F102130901
	550	F102104636	F102104645	F102104627	F102133232
600	F102104637	F102104646	F102104628	F102133233	
650	F102104638	F102104647	F102104629	F102130902	

2	Railing cover cap			
	Piece			
				
	Ice	Silver	Stone	Zircon
	F102104687	F102104698	F102104676	F102130907

3	Railing clip for wooden back panels with screw fittings			
	Piece: Left back			
				
	Ice	Silver	Stone	Zircon
	F102104681	F102104692	F102104670	F102130903

4	Railing clip for wooden back panels with screw fittings			
	Piece: Right back			
				
	Ice	Silver	Stone	Zircon
	F102104682	F102104693	F102104671	F102130904

5	Railing clip with tilt angle adjustment	
	Piece: Left or right front	
		
	Mounting material	Art. no.
	Dowel (incl.)	F102104669
	Screw (excl.)	F102104668

PAGE REFERENCES

Drawer sides	30	Inset panels	58	Organising systems	93
Rectangular railing set	38	Accessories	82	Sensomatic	105
Slides	42	Technical information	86	Assembly technology	125

PLANNING INFORMATION

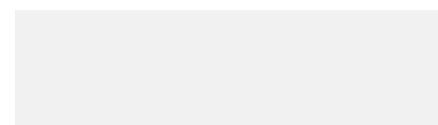
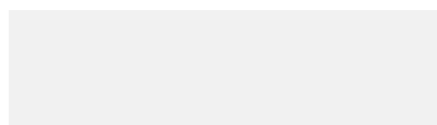
All dimensions in millimetres

Rectangular railing for drawer with wooden back panel for screw fitting	Installation dimensions for back panel
<p>Requires 1 (2x), 2 (2x), 3 (1x), 4 (1x), 5 (2x)</p>	



LEGEND

NL Nominal length

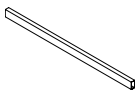


NOVA PRO SCALA


Cross and longitudinal divider

ORDER INFORMATION

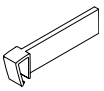
L	1 Nova Pro Divider railing made of aluminium for cutting to length			
	Piece			
1150	F102108654	F102108655	F102108653	F102133305



	2 Universal divider railing clip for aluminium divider railing			
	Piece: Left or right			
	F102108834	F102108836	F102108835	F102133336



L	3 Longitudinal divider railing			
	Piece			
100	F102109963	F102109964	F102109962	F102133306



PAGE REFERENCES

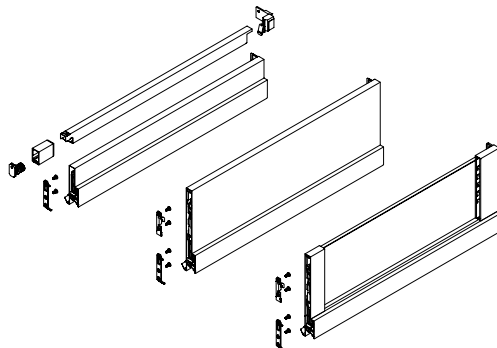
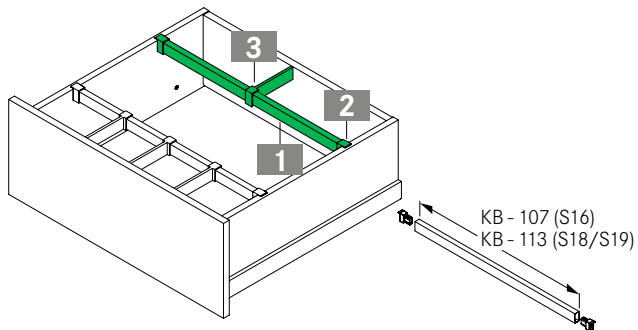
Drawer sides	28	Inset panels	56	Organising systems	93
Rectangular railing set	38	Accessories	82	Sensomatic	105
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PLANNING INFORMATION

All dimensions in millimetres

Divider rail with universal divider railing clip and longitudinal divider for all Nova Pro Scala drawer versions

Requires 1 (1x), 2 (2x), 3

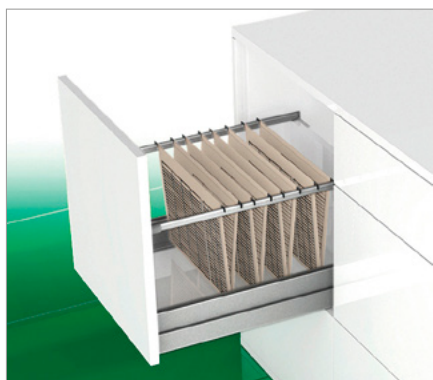


LEGEND

KB	Cabinet width
L	Length
S	Side wall thickness


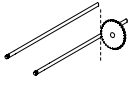
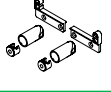
NOVA PRO SCALA

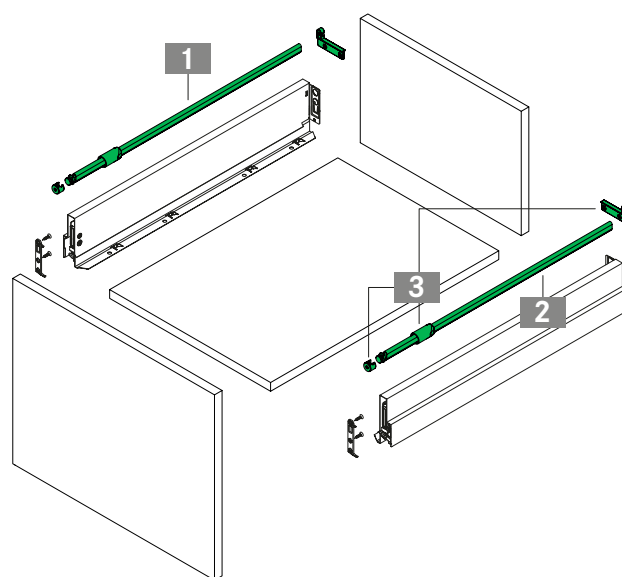
Oval railing for filing drawer



- For use with Nova Pro Scala drawer sides H90
- Oval, natural anodised aluminium tube with high bending resistance and scratch-resistant surface
- High stability and load capacity thanks to secure screw connection to the front and back panels
- Tool-free tilt angle adjustment via oval railing

ORDER INFORMATION

1	Nova Pro Oval railing with setting screw for attaching wooden back panel Set: Oval railing, cover cap, railing clip, back panel clip	
NL	Aluminium anodised	
500	F102131354	
2	Nova Pro Oval railing with setting screw, for cutting to length Piece	
L	Aluminium anodised	
525	F102131356	
3	Nova Pro Accessories for oval railing, screw fitting, for wooden back panel Set: Cover cap, railing clip, back panel clip	
	Stone	
	F102131355	

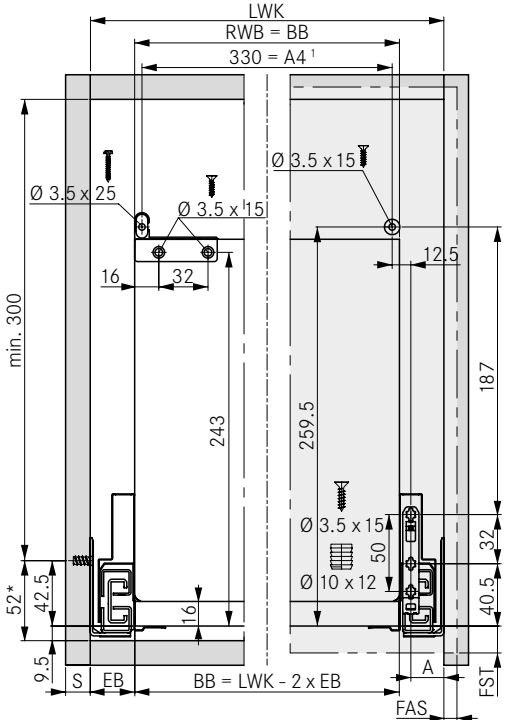
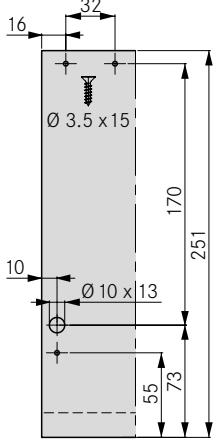
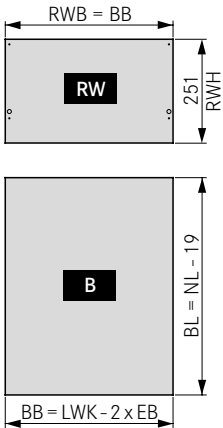
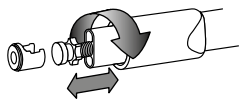
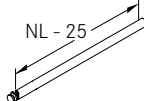


PAGE REFERENCES

Drawer sides	30	Designer panels	70	Organising systems	93
Slides	42	Accessories	82	Sensomatic	105
Inset panels	56	Technical information	86	Assembly technology	125

PLANNING INFORMATION

All dimensions in millimetres

Front panel installation dimensions	Installation dimensions for back panel	Cutting dimensions for 16 mm chipboard												
	 <table border="1"> <thead> <tr> <th colspan="3">Slide</th> </tr> </thead> <tbody> <tr> <td>S</td> <td>16/19</td> <td>18</td> </tr> <tr> <td>EB</td> <td>29</td> <td>30</td> </tr> <tr> <td>A</td> <td>21.5</td> <td>22.5</td> </tr> </tbody> </table> <p>Note: Slide available in two versions: S16/S19 and S18. See the chapter on slides.</p>	Slide			S	16/19	18	EB	29	30	A	21.5	22.5	 <p>Front tilt angle adjustment</p>  <p>Cutting dimensions for oval railing</p> 
Slide														
S	16/19	18												
EB	29	30												
A	21.5	22.5												
<p>* Recommendation/minimum dimension: 49.5 mm/Tipmatic Soft-close: 58 mm ¹ For DIN A4 suspension files (RWB = 340)</p>														

LEGEND

B	Bottom panel	FAS	Front overlay, side	NL	Nominal length
BB	Bottom panel width	FST	Front overlay	RWB	Back panel width
BL	Bottom panel length	L	Length	RWH	Back panel height
EB	Installation width	LWK	Inside cabinet width	S	Side wall thickness



NOVA PRO SCALA

Designer panels




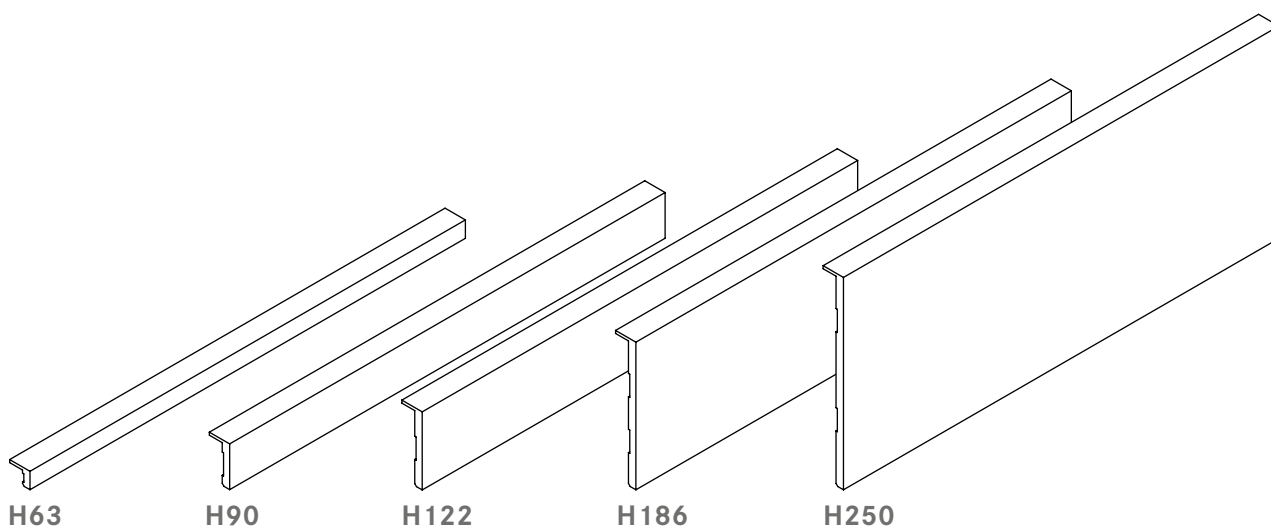
- Designer panels offer new styling options for differentiation
- High-quality visual design through combination of materials enables system-based segmentation
- Designer panels can be fitted easily by means of magnetic tape or adhesive
- Can be retrofitted at the end of the production process

Notice:

- Designer panels available from distributors
- Designer panels cannot be used with the side stabilising device
- For designer panel H63, the magnetic tape needs to be halved to 10 x 1.5 mm

ORDER INFORMATION

Nova Pro Scala Magnetic tape, self-adhesive Piece		
Length x width x thickness	Art. no.	
40000 x 20 x 1.5	F102108509	



PAGE REFERENCES

Drawer sides	28	Accessories	82	Sensomatic	105
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PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions of designer panels for H63	Installation dimensions of designer panels for H90	Installation dimensions of designer panels for H122
Installation dimensions of designer panels for H186	Installation dimensions of designer panels for H250	
Cutting dimensions for designer panel	Design options	Magnetic tape

LEGEND

H Height
NL Nominal length

1

2

3

4

NOVA PRO SCALA

Locking system





- Screw-on locking pin for Nova Pro Scala
- Can be used with Nova Pro Scala drawer sides H90/H122/H186/H250
- Compatible with Lehmann SVS-3 locking system
- Available in Stone, Ice and Silver
- Easy to retrofit
- Unrestricted, convenient adjustment

Notice:

- We recommend the use of a pilot drill bit (see assembly aids)
- Lehmann SVS-3 locking system available from distributors

ORDER INFORMATION

Nova Pro Scala Screw-on locking pin				
Piece				
	Ice	Silver	Stone	
	F102131867	F102131868	F102131869	

Tapping screws			
Piece			
	Nominal diameter x screw length		Art. no.
	3.5 x 13		F102131865

Nova Pro Scala Drawer sides		
page 30		

Nova Pro Slides		
page 42		

PAGE REFERENCES

Drawer sides	30	Designer panels	70	Organising systems	93
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Inset panels	56	Technical information	86	Assembly technology	125

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions for Lehmann locking system SVS-3

Drawer side	X	Y**
H90	min. 87.5	min. 110
H122	min. 112.5	min. 137
H186	min. 181.5	min. 206
H250*	min. 245.5	min. 270

* Please pay attention to the position of the locking pin for screw fittings with the Nova Pro Scala H250.

** Minimum dimension without installation of Tipmatic Soft-close unit.

Important: When ordering the locking rail from Lehmann, please specify dimensions x and y.

Locking pin = dia. 5 mm

Screw-on position for locking pin Nova Pro Scala H90/H122/H186

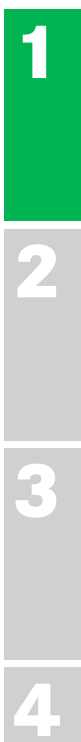
1. Positioning the locking rail on the drawer side.
2. Using a pilot drill bit to drill a hole through the drawer side.
3. Tightening the screw into the hole. Tightening torque max. 1.8 Nm (without pre-drilling).
4. Final position of the locking rail with the pin secured.

Screw-on position for locking pin Nova Pro Scala H250

The locking pin must be screwed on at least 96 mm from the step of the drawer side.

LEGEND

FS	Front gap	NT	Groove depth
H	Height		
NB	Groove width		
NM	Groove centre		



NOVA PRO SCALA

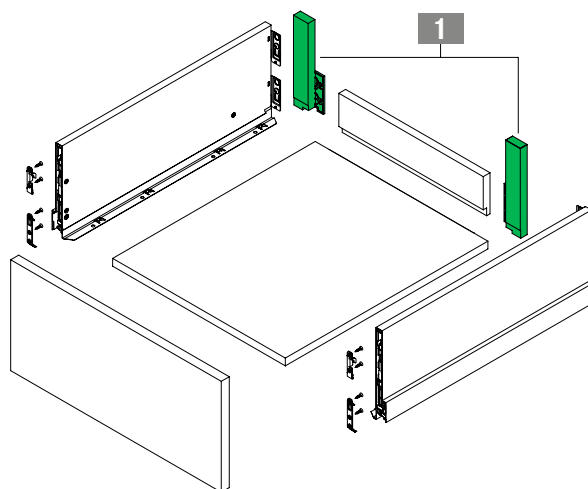
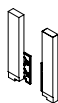
Sink drawer with low back panel



- Sink back panel clip for Nova Pro Scala H186 and Crystal Plus
- Allows extensions with siphon cut-outs and rectangular wooden back panels to be produced quickly and easily - no special cutting needed
- Colour matched to all Nova Pro drawer sides

ORDER INFORMATION

1	Nova Pro H186 sink back panel clip for H186 and Crystal Plus			
	Set: Left, Right			
	Ice	Silver	Stone	Zircon
	Left, Right	Left, Right	Left, Right	Left, Right
	F102131006	F102131005	F102131004	F102134382



PAGE REFERENCES

Drawer sides	38	Designer panels	70	Organising systems	93
Slides	42	Accessories	82	Sensomatic	105
Inset panels	56	Technical information	86	Assembly technology	125

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions front (H186)	Installation dimensions for back panel (H186)	Back panel rebate									
	<p>Slide</p> <table border="1"> <tr> <td>S</td> <td>16/19</td> <td>18</td> </tr> <tr> <td>EB</td> <td>29</td> <td>30</td> </tr> <tr> <td>A</td> <td>21.5</td> <td>22.5</td> </tr> </table> <p>Note: Slide available in two versions: S16/S19 and S18. See chapter on slides.</p>	S	16/19	18	EB	29	30	A	21.5	22.5	
S	16/19	18									
EB	29	30									
A	21.5	22.5									

* Recommendation/minimum dimension: 49.5 mm/Tipmatic Soft-close: 58 mm

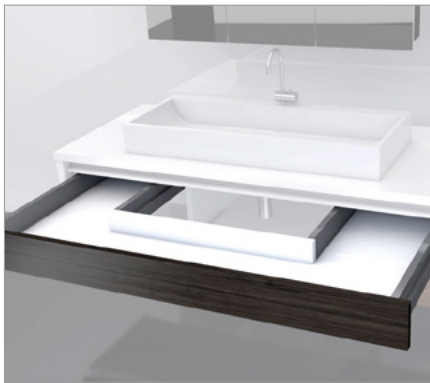


LEGEND

B	Bottom panel	FAS	Front overlay, side	RW	Back panel
BB	Bottom panel width	FST	Front overlay	RWB	Back panel width
BL	Bottom panel length	LWK	Inside cabinet width	RWH	Back panel height
EB	Installation width	NL	Nominal length	S	Side wall thickness

APPLICATION EXAMPLE

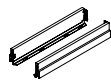
Sink drawer with cut-out



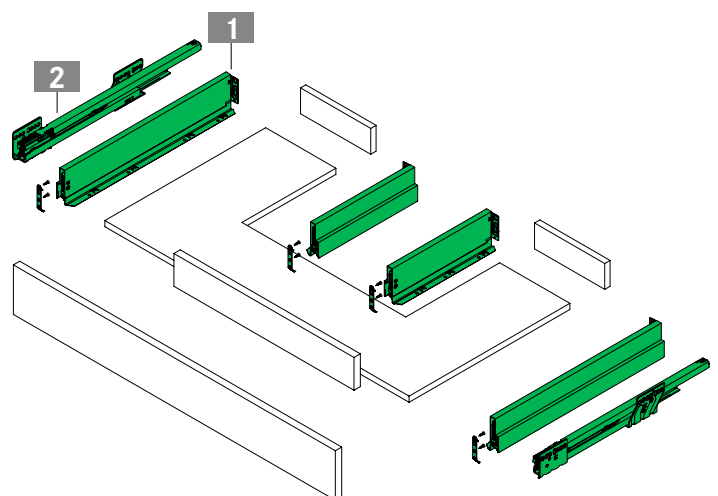
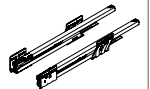
- Maximum storage space utilisation in the sink area through individual combination with shorter drawer sides
- Easy assembly with standard Nova Pro products
- Variable width, variable cut-out
- As a regular or pot drawer
- Integrated height and side adjustment
- Straight inside surfaces and narrow installation width ensure optimal utilisation of space
- Sturdy construction and high degree of stability
- Same bottom panel and back panel width
- Tool-free fitting of front

ORDER INFORMATION

1 Nova Pro Scala Drawer sides
page 30



2 Nova Pro Slides
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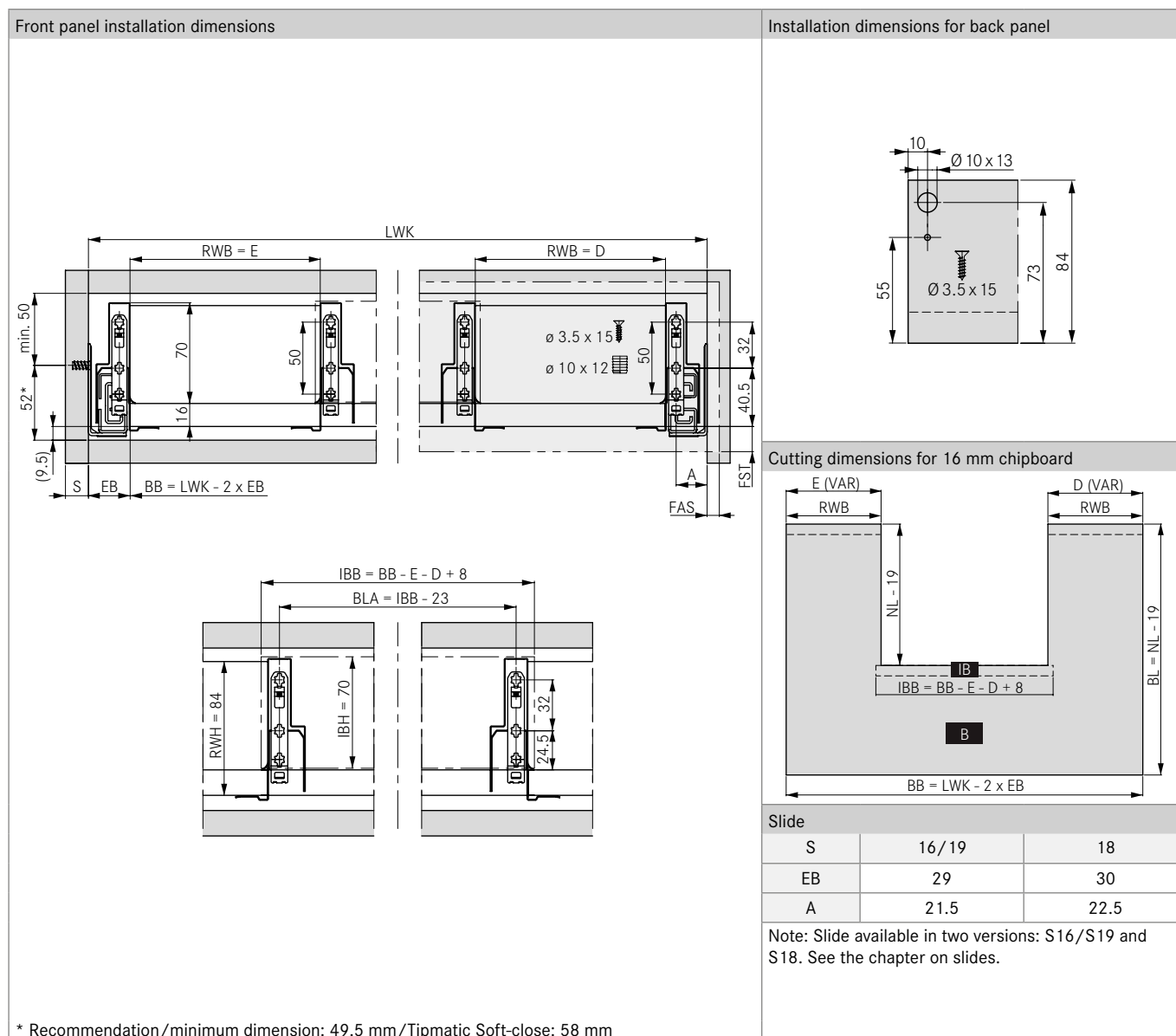


PAGE REFERENCES

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PLANNING INFORMATION

All dimensions in millimetres

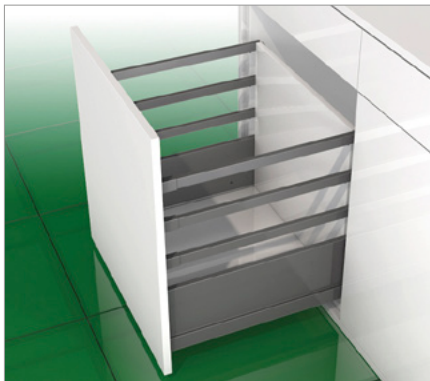


LEGEND

BB	Bottom panel width	FAS	Front overlay, side	LWK	Inside cabinet width
BL	Bottom panel length	FST	Front overhang	NL	Nominal length
BLA	Drill hole distance	IBB	Width of concealed drawer front	RWB	Back panel width
EB	Installation width	IBH	Height of concealed drawer front	RWH	Back panel height

APPLICATION EXAMPLES

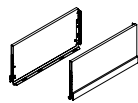
Laundry drawer



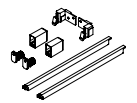
- Large pot drawer by combining high drawer side H250 with any number of rectangular railings
- Application e.g. as a container for dirty laundry
- Tilt angle adjustment by means of drawer side and railings

ORDER INFORMATION

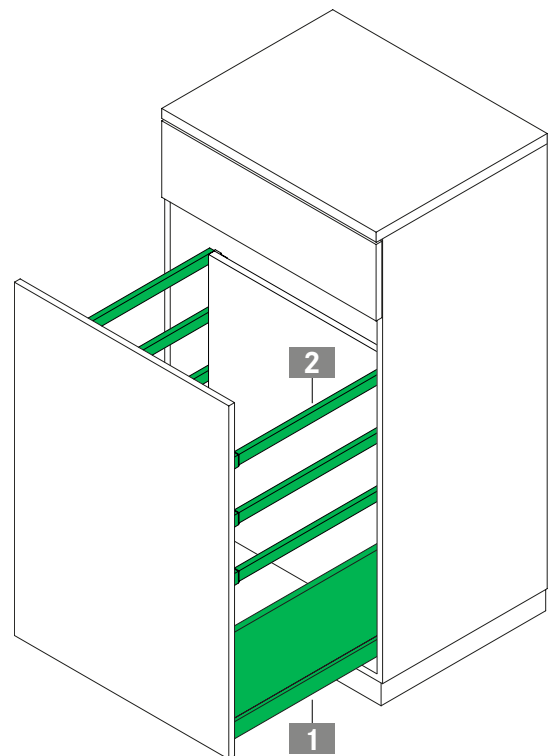
1 Nova Pro Scala Drawer sides H250
page 36



2 Nova Pro Scala Rectangular railing
page 38



Nova Pro Slides
page 42



PAGE REFERENCES

Drawer sides	36	Inset panels	56	Technical information	86
Rectangular railing	38	Designer panels	70	Organising systems	93
Slides	42	Accessories	82	Sensomatic	105

1

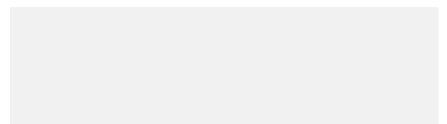
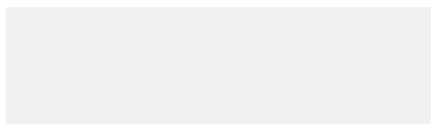
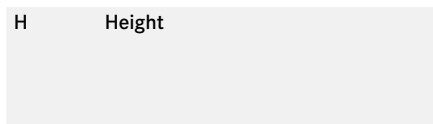
2

3

4

LEGEND

H Height



NOVA PRO SCALA

Side stabilising device



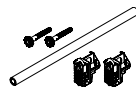
- Maximum stability for extra-wide regular and pot drawers
- Outstanding pull-out comfort and perfect running
- For drawer widths up to 1,500 mm

Notice:

- Cannot be used with designer panels for Nova Pro Scala

ORDER INFORMATION

1 Torsion bar
Set: Torsion bar, pinion, support



KB	Aluminium metallic			
900	F102066385			
1000	F102066386			
1100	F102066387			
1200	F102066388			
1500	F102066389			

2 Gliding channel
Set: Left, Right

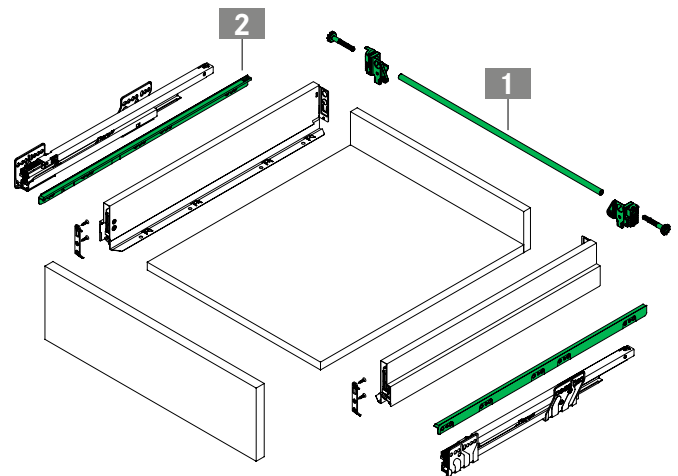


NL	Aluminium metallic			
450	F102050864			
500	F102050865			
550	F102050866			
600	F102050867			
650	F102050868			

Tapping screws
Piece



	Nominal diameter x screw length	Art. no.
	4.8 x 13	F145050869

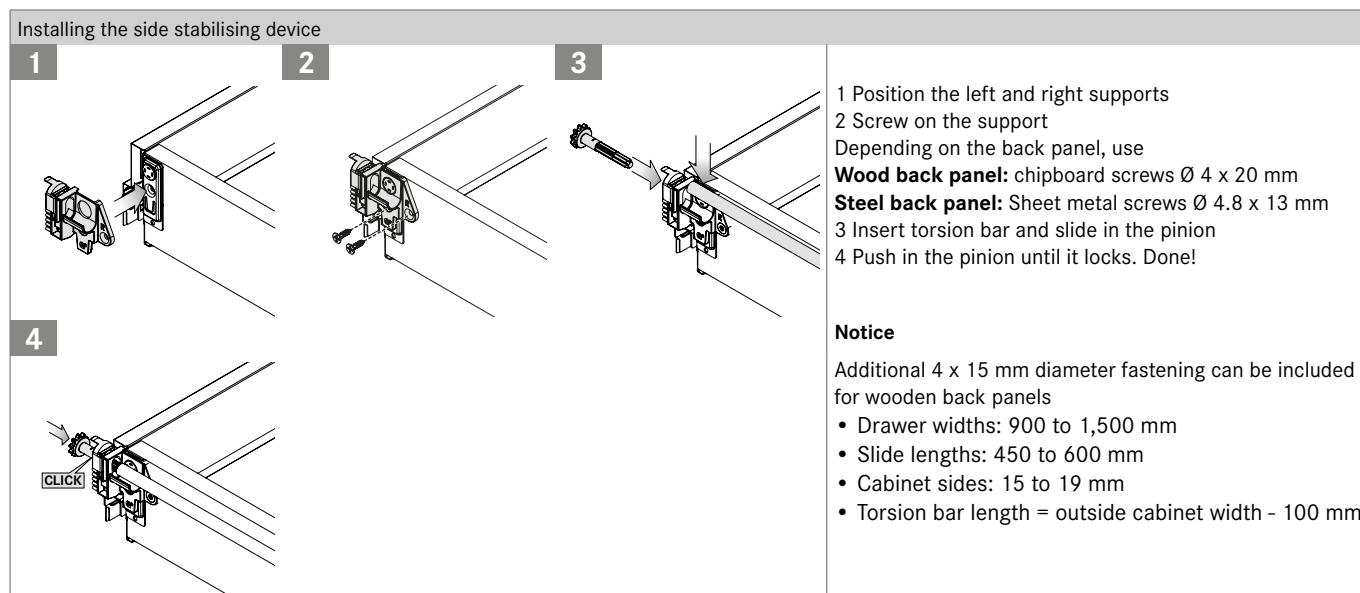
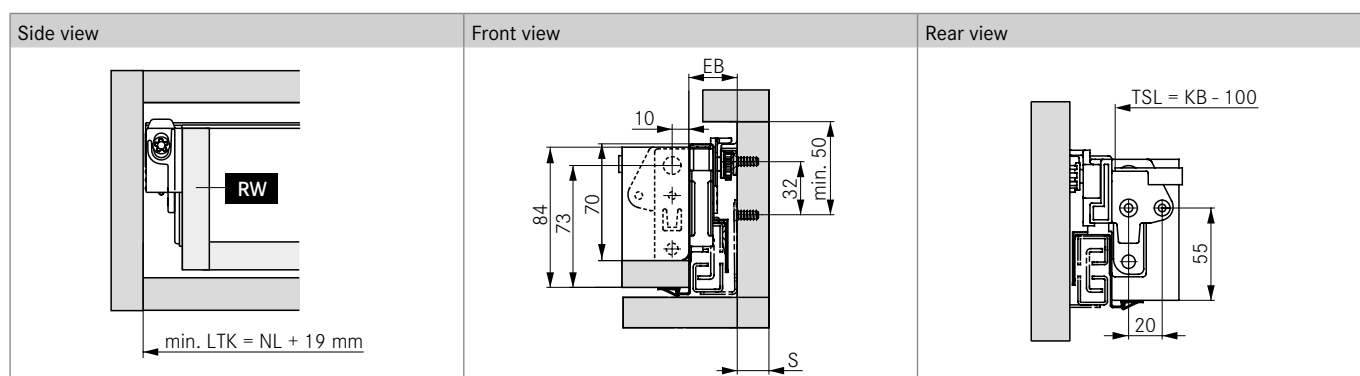
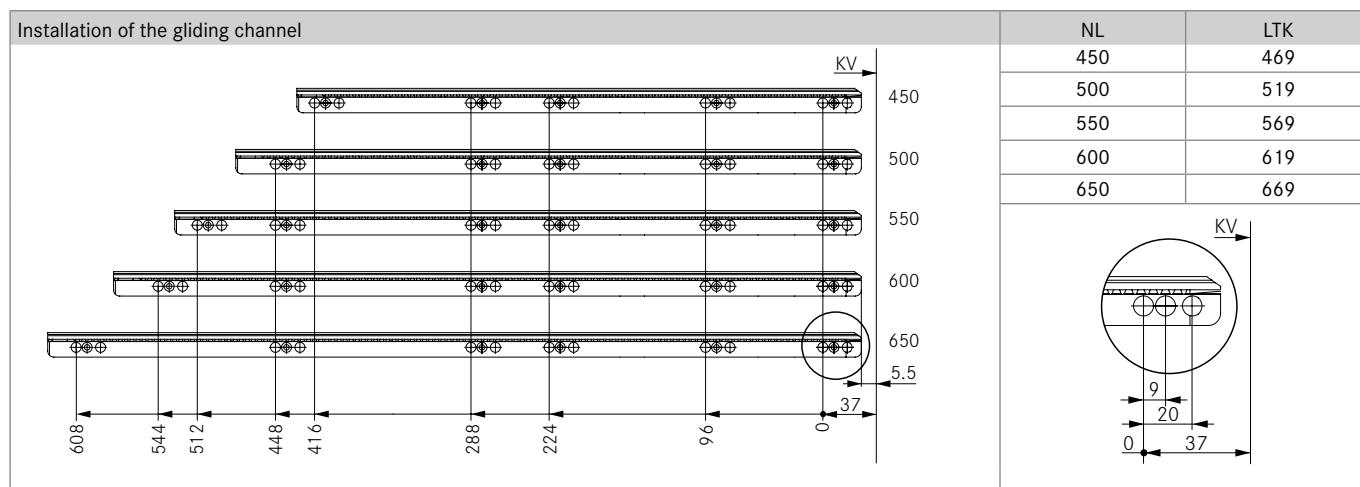


PAGE REFERENCES

Drawer sides	28	Inset panels	56	Sensomatic	105
Rectangular railing	38	Technical information	86	Assembly technology	125
Slides	42	Organising systems	93	Assembly aids	134

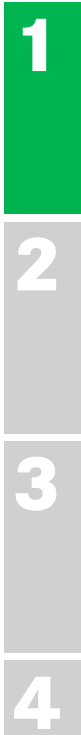
PLANNING INFORMATION

All dimensions in millimetres



LEGEND

EB	Installation width	NL	Nominal length
KB	Cabinet width	RW	Back panel
KV	Front edge of cabinet	S	Side wall thickness
LTK	Inside cabinet depth	TSL	Torsion bar length



NOVA PRO SCALA

Accessories

NOVA PRO BLIND PANEL SNAP-ON BRACKET

Description				Art. no.
<ul style="list-style-type: none"> • Tool-free installation and removal • Fast Click-on installation and removal of the front • Worktop • Already fitted: min. 5.5 mm • Not fitted: 0 mm • Side adjustment +/- 1.5 mm • Height adjustment +/- 2 mm • Depth adjustment +/- 1.5 mm 				F102108430

NOVA PRO SPACER

Description			Colour	Art. no.
<ul style="list-style-type: none"> • Allows inset drawers to be pulled out with no collision in the case of hinged doors with protrusion • Fix the spacer in the row of holes, then screw the slide into the spacer • Thickness 25 mm • can be used on left/right 			Stone	F102131359
			White	F102062616

NOVA PRO CHILD LOCK

Description				Art. no.
<ul style="list-style-type: none"> • When activated, this limits the drawer opening to a gap. After activating a concealed release lever underneath the drawer, the drawer opens completely • Concealed installation prevents the child from learning and copying • Entire storage space of the drawer can be utilised • No damage to the front and cabinet • Can also be retrofitted • Tool-free deactivation if necessary • Can be used with all Nova Pro add-on systems, as it is installed on the bottom panel mounting • Cannot be used in combination with Tipmatic Soft-close 				F102108857

PAGE REFERENCES

Drawer sides	28	Designer panels	70	Sensomatic	105
Slides	42	Technical information	86	Assembly technology	125
Inset panels	56	Organising systems	93	Assembly aids	134

NOVA PRO FRONT SUPPORT

Description			Colour	Art. no.
<ul style="list-style-type: none"> Improves the stability of high fronts Easy to retrofit Only one front support for different nominal lengths Can be used with Nova Pro Scala/One rectangular railings 14 x 25 mm Can be used with Nova Pro One H90 Can be used with Nova Pro Scala H90/H122/H186/H250 			Ice	F102133697
			Silver	F102133698
			Stone	F102133696
			Zircon	F102134380

FRONT-BOTTOM PANEL CONNECTOR FOR WOOD FRONTS

Description			Suitable for cabinet width	Art. no.
<ul style="list-style-type: none"> For wide drawers Thanks to the ball joint, the alignment of the front can also be adjusted when the front-bottom panel connector is mounted 			From 600 mm: 1 piece (Vionario V8), From 600 mm: 1 piece (Vionario V13), From 800 mm: 1 piece (Nova Pro)	F148026744

FRONT-BOTTOM PANEL CONNECTOR FOR F8 INSET PANEL

Description			Suitable for cabinet width	Art. no.
<ul style="list-style-type: none"> For wide drawers 		<p>KB = 600 - 800 mm</p> <p>KB = 800 - 1200 mm</p>	From 600 - 800 mm: 1 piece (Nova Pro), From 800 - 1200 mm: 2 pieces (Nova Pro)	F145117993

LEGEND

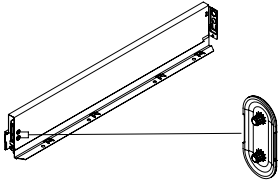
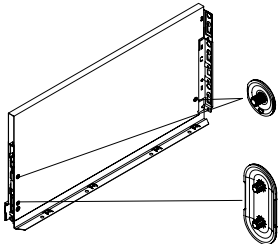
B	Bottom panel	H	Height	SPS	Chipboard screw
ES	Euro countersunk screw	HV	Height adjustment	SV	Lateral adjustment
FR	Front	KB	Cabinet width	TV	Depth adjustment
FS	Front gap	L	Length		



NOVA PRO SCALA

Accessories

COVER CAPS FOR SETTING SCREWS

Description			Colour	Art. no.
<ul style="list-style-type: none"> Cover cap set for use with: Nova Pro Scala H90 Nova Pro One H90 			Ice	F102109523
			Silver	F102131371
			Stone	F102109522
			Zircon	F102133337
<ul style="list-style-type: none"> Cover cap set for use with: Nova Pro Scala H122 Nova Pro Scala H186 Nova Pro Scala H250 Nova Pro Scala Crystal Plus 			Ice	F102131379
			Silver	F102131380
			Stone	F102131378
			Zircon	F102133339

ANCHOR POINT

	Ø	L	Øh	Colour	Material			Art. no.
	5 mm	8 mm	8.8 mm	Natural	Plastic			F071044351

DOWEL

	Ø	L	Colour	Material				Art. no.
	8 mm	12 mm	Natural	Plastic				F071004885
	10 mm							F071005853

EURO SCREW

	Ø	L	Øh	Colour	Material	Internal drive		Art. no.
	6 mm	8.5 mm	8 mm	Nickel	Steel	Z2		F145089301
		11.5 mm						F145083544
		13 mm						F145083545
		14.5 mm						F145083546


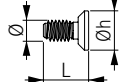
SPECIAL EURO SCREWS

	Ø	L	Øh	Colour	Material	Internal drive		Art. no.
	6 mm	8.5 mm	7 mm	Nickel	Steel	Z2		F145089355
		13.5 mm						F145088185

CHIPBOARD SCREWS

	Ø	L	Øh	Colour	Material	Internal drive		Art. no.
	3.5 mm	15 mm	7 mm	Nickel	Steel	Z2		F145087110



THREAD-ROLLING COUNTERSUNK HEAD SCREW

	Ø	L	Øh	Colour	Material	Internal drive		Art. no.
	M3.5	7.5 mm	6.5 mm	Black	Steel	Z2		F145117998


PAGE REFERENCES

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Inset panels	56	Organising systems	93	Assembly aids	134

NOVA PRO SCALA BRANDING CLIP FOR GLUING

	Installation width	Assembly position	Colour	Type of assembly	Material of cover cap	Design	Personalisation (logo)	Art. no.
	29/30 mm	Left or right top edge	Ice	Fit with adhesive	Plastic	With GRASS Logo	Digital printing	F102131490
			Silver					F102131492
			Stone					F102131488
			Zircon					F102133333
	30 mm	Left or right lower edge	Ice					F102131491
			Silver					F102131493
			Stone					F102131489
			Zircon					F102133334

NOVA PRO SCALA BRANDING CLIP CLIP-IN

	Installation width	Assembly position	Colour	Type of assembly	Material of cover cap	Design	Personalisation (logo)	Art. no.
	30 mm	Left lower edge	Ice	To clip-on	Plastic	With GRASS Logo	Digital printing	F102131484
			Silver					F102131486
			Stone					F102131482
			Zircon					F102134385
		Right lower edge	Ice					F102131485
			Silver					F102131487
			Stone					F102131483
			Zircon					F102134386

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LEGEND

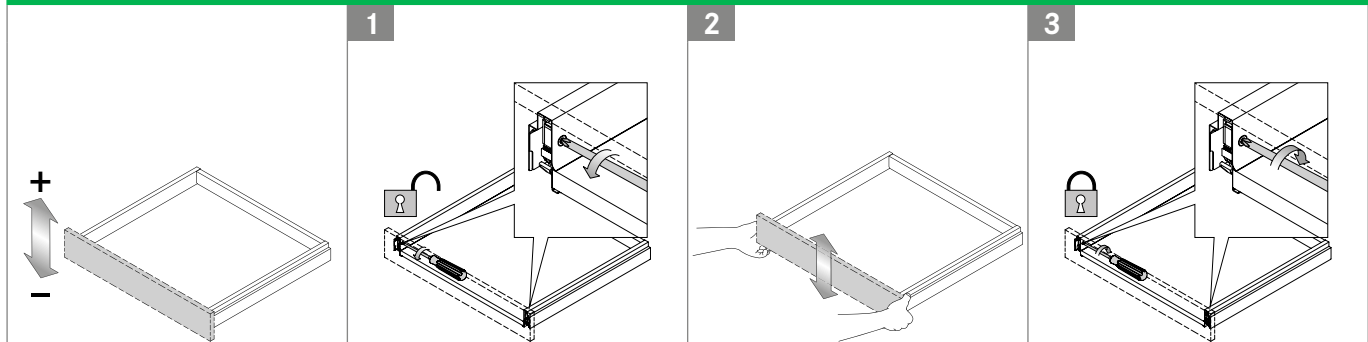
B Bottom panel	H Height	SPS Chipboard screw
ES Euro countersunk screw	HV Height adjustment	SV Lateral adjustment
FR Front	KB Cabinet width	TV Depth adjustment
FS Front gap	L Length	

NOVA PRO SCALA

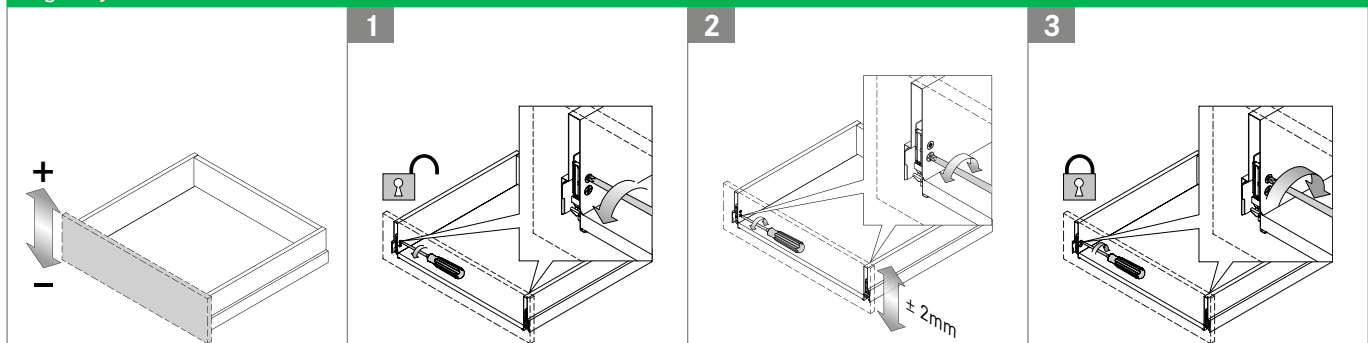
Technical information

ADJUSTMENT

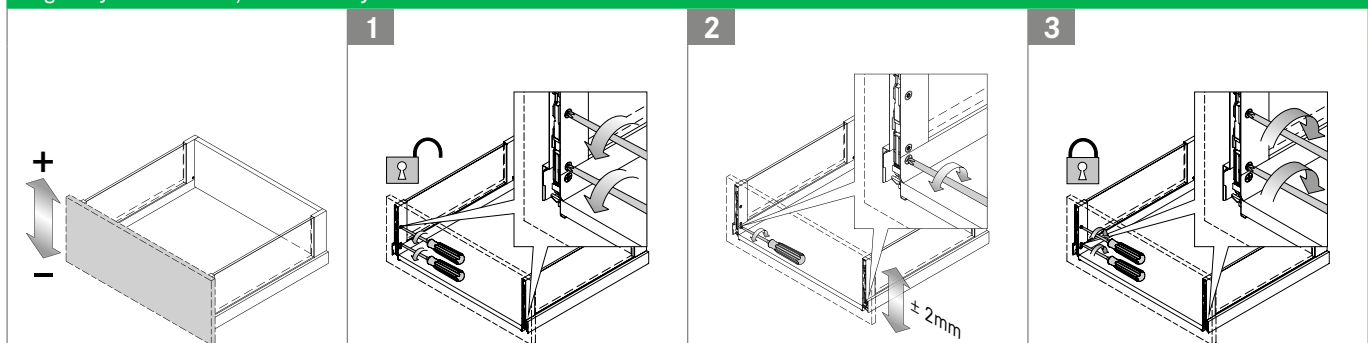
Height adjustment H63



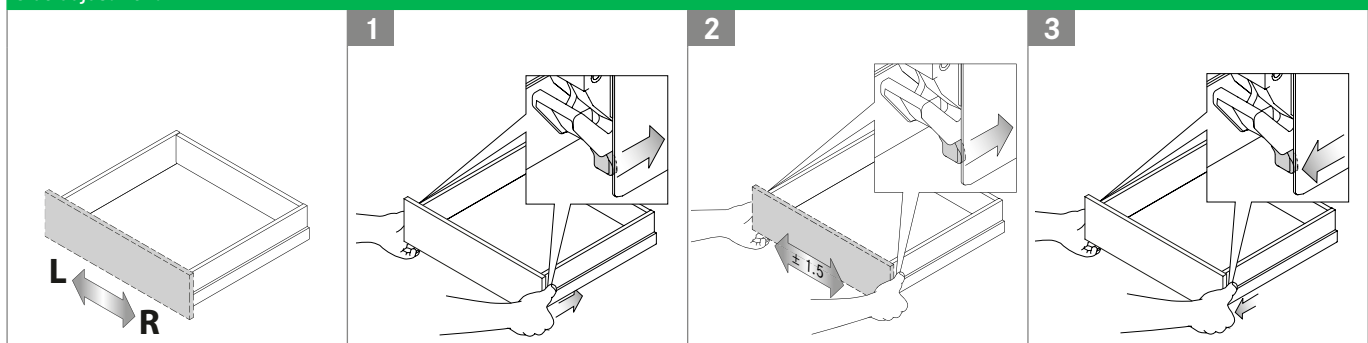
Height adjustment H90 and H122



Height adjustment H186, H250 and Crystal Plus



Side adjustment



PAGE REFERENCES

Drawer sides	28	Inset panels	56	Organising systems	93
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ADJUSTMENT

Tilt angle adjustment H90 with rectangular railing		Tilt angle adjustment H122, H186, H250 and Crystal Plus	
Tilt angle adjustment H90 with oval railing			

INSERTION/REMOVAL

Insertion		Removal	

LEGEND

H	Height		
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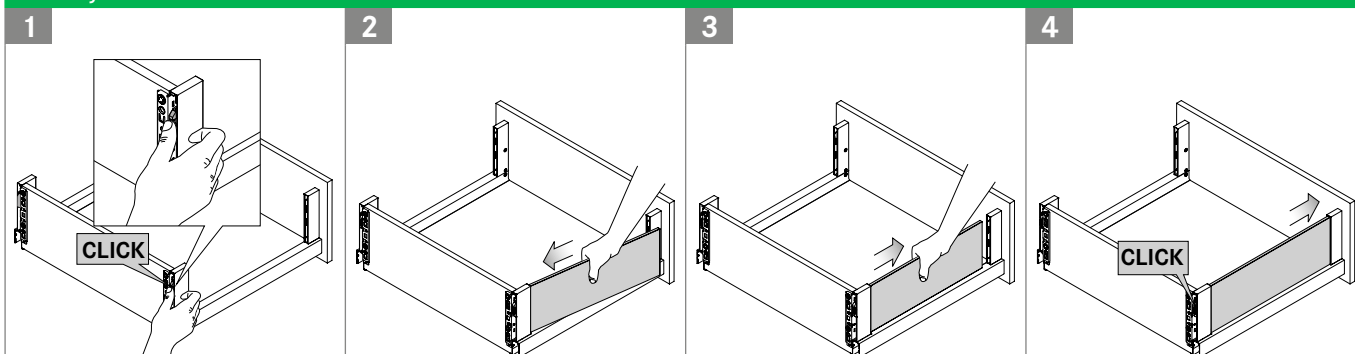


NOVA PRO SCALA

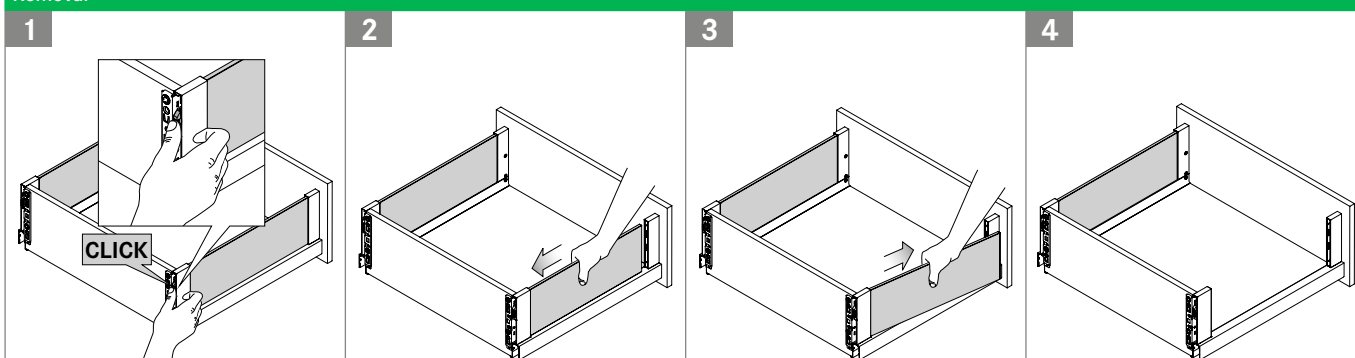
Technical information

CRYSTAL PLUS SLIDE-IN ELEMENT

Assembly

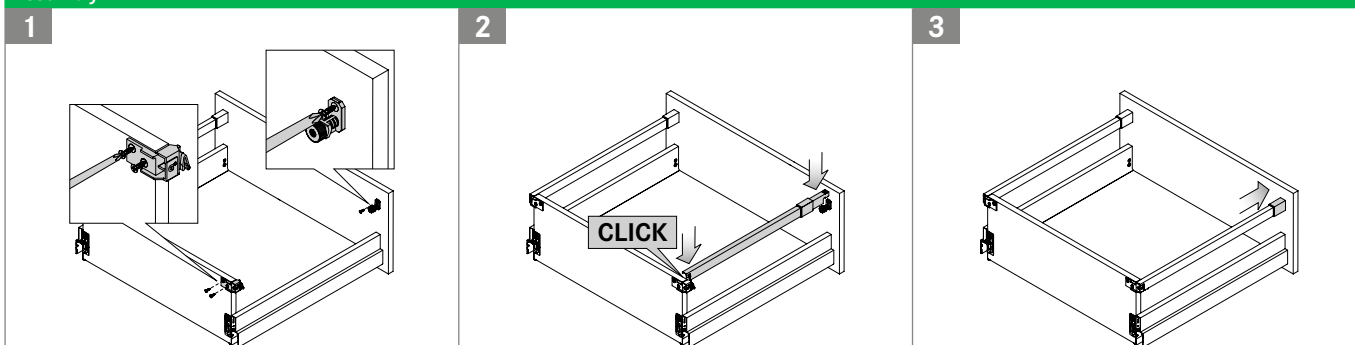


Removal

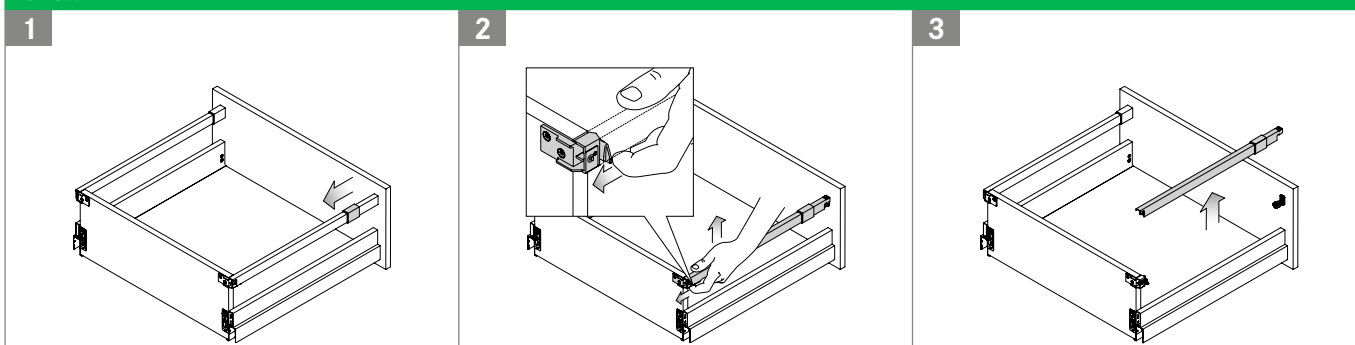


RECTANGULAR RAILING

Assembly



Removal

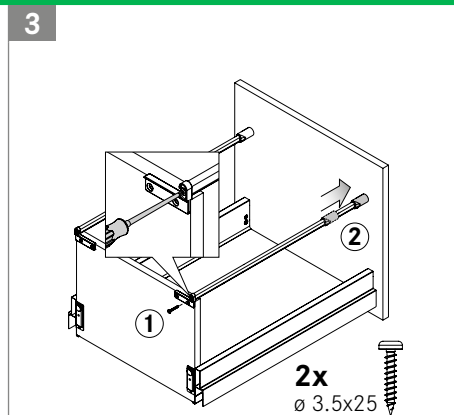
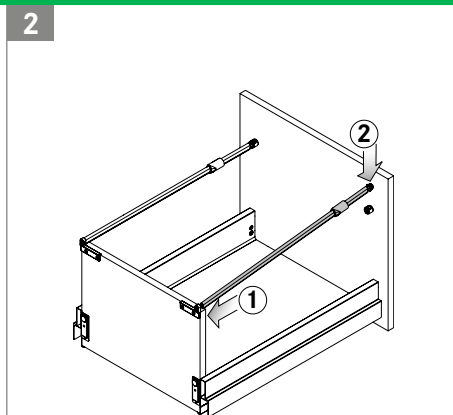
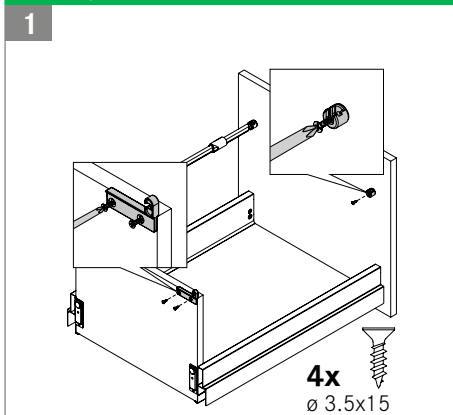


PAGE REFERENCES

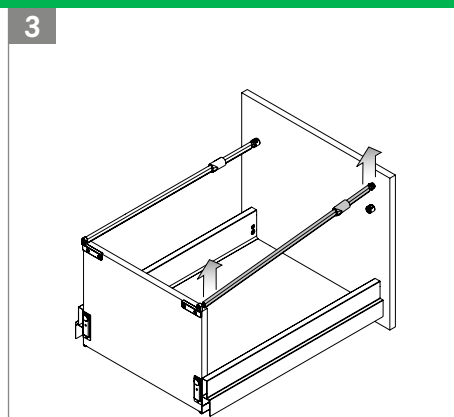
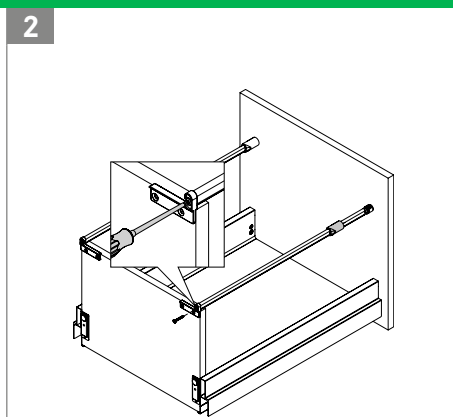
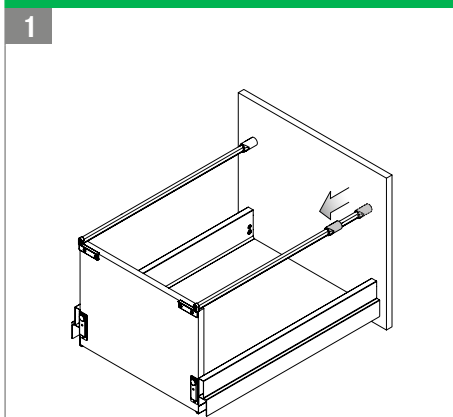
Drawer sides	28	Inset panels	56	Organising systems	93
Rectangular railing	38	Designer panels	70	Sensomatic	105
Slides	42	Accessories	82	Assembly technology	125

OVAL RAILING

Assembly



Removal



LEGEND

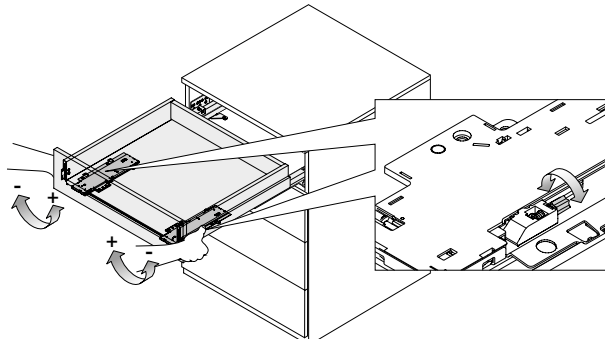
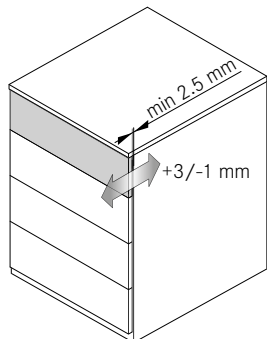
H Height

NOVA PRO SCALA

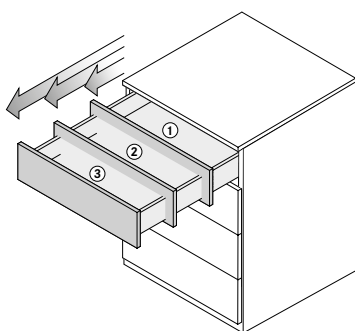
Technical information

TIPMATIC SOFT-CLOSE

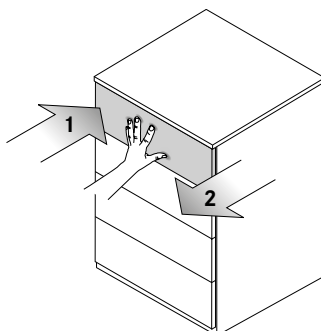
Front gap adjustment (+3 mm/-1 mm)



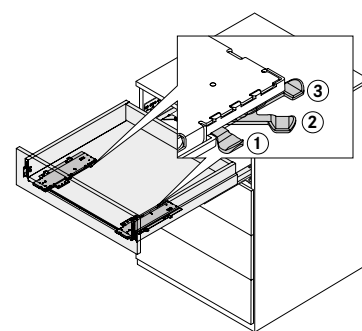
Opening force



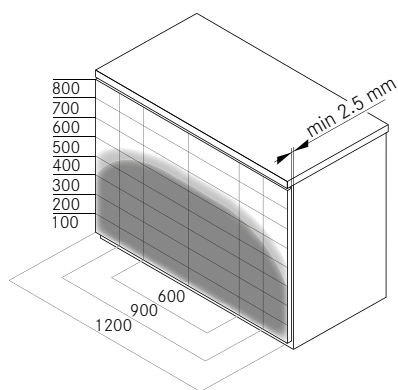
1



2



Activation zone



PAGE REFERENCES

Drawer sides	28	Inset panels	56	Organising systems	93
Rectangular railing	38	Designer panels	70	Sensomatic	105
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1

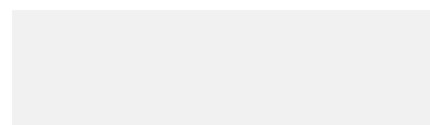
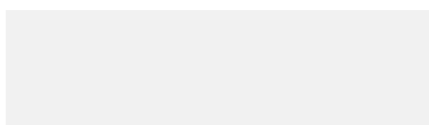
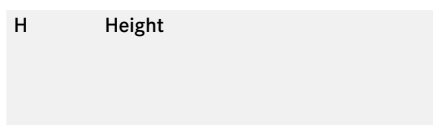
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3

4

LEGEND

H Height





**Tavinea Sorto for
Nova Pro drawers**

Virtually no other interior accessory system combines simple systematics with a high degree of flexibility as perfectly as Tavinea Sorto. The system matches the colour of the frame to form a perfect whole with Nova Pro Scala regular and pot drawers.




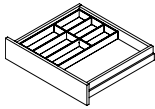
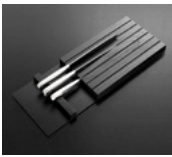
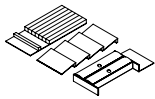
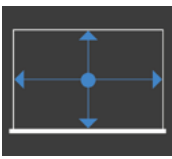

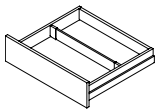

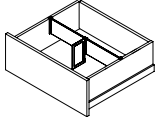
**Tavinea Optima.
Dividing system for
pot drawers.**

Placed on the Nova Pro Scala drawer sides, the closed and flexible elements of Tavinea Optima ensure that everything stays in place inside the drawers.

Knife blocks,
foil roll holders and
spice racks -
the matching acces-
sories are what make
TAVINEA SORTO a
perfectly matched
range of interior
accessories.



Dividing and Organising Systems for Nova Pro Regular and Pot Drawers

	Description		Page
	<p>Tavinea Sorto Interior accessory system</p> <ul style="list-style-type: none"> • Modular interior accessory system • Perfect organisation inside drawers for cutlery and small sundry items • High-quality frame and length dividers made of powder-coated steel 		94
	<p>Tavinea Sorto Accessories</p> <ul style="list-style-type: none"> • The perfect accessories for any application • Knives, spice jars, foil rolls, cutlery or even perfume - with Tavinea Sorto accessories, everything is perfectly sorted • High-quality materials: Aluminium and solid wood 		96
	<p>Tavinea Sorto Planning dimensions</p>		98
	<p>Drawer divider Dividing system</p> <ul style="list-style-type: none"> • Elegant organisation of storage space by dividing the drawer • Easy to install 		100
	<p>Tavinea Optima Dividing system</p> <ul style="list-style-type: none"> • Dividing system for pot drawers • Organisation of storage space makes everything visible at a glance • Simple, tool-free assembly 		102

1
2
3
4

TAVINEA SORTO

Interior accessory system



- Perfect organisation inside drawers for cutlery and small sundry items
- High-quality frame and length dividers made of powder-coated steel
- Colour coordinated
- Innovative anti-slip pads ensure that the frames stay in place

Notice:

- Tavinea Sorto B186 can be used for cabinet width 300 and above
- Tavinea Sorto B276 can be used for cabinet width 400 and above

ORDER INFORMATION

1 Tavinea Sorto B186
Piece




NL	Ice	Silver	Stone	Zircon
350	F007132925	F007130075	F007130074	F007132926
400	F007132927	F007130079	F007130078	F007132928
450	F007132929	F007130083	F007130082	F007132930
500	F007132931	F007130087	F007130086	F007132932
550	F007132933	F007130091	F007130090	F007132934
600	F007132935	F007130095	F007130094	F007132936

2 Tavinea Sorto B276
Piece



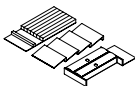
NL	Ice	Silver	Stone	Zircon
400	F007132913	F007130051	F007130050	F007132914
450	F007132915	F007130055	F007130054	F007132916
500	F007132917	F007130059	F007130058	F007132918
550	F007132919	F007130063	F007130062	F007132920
600	F007132921	F007130067	F007130066	F007132922

3 Tavinea Sorto length divider
Piece



NL	Ice	Silver	Stone	Zircon
350	F007132939	F007130103	F007130102	F007132940
400	F007132941	F007130107	F007130106	F007132942
450	F007132943	F007130111	F007130110	F007132944
500	F007132945	F007130115	F007130114	F007132946
550	F007132947	F007130119	F007130118	F007132948
600	F007132949	F007130123	F007130122	F007132950

Tavinea Sorto Accessories
page 96



PAGE REFERENCES

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Inset panels	56	Installation information	98	Assembly aids	134

PLANNING INFORMATION

All dimensions in millimetres

Tavinea Sorto B186

1



NL 350



NL 400-500



NL 550-600

Tavinea Sorto B276

2



NL 400



NL 450-500



NL 550-600

Tavinea Sorto length divider

3



LEGEND

- B Width
- KB Cabinet width
- NL Nominal length

1

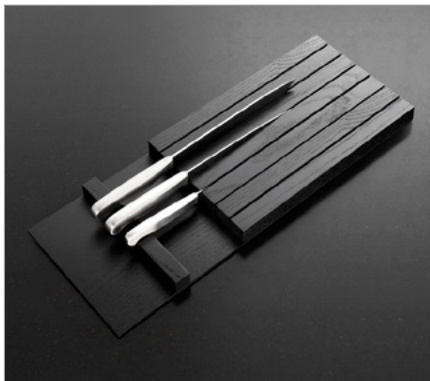
2

3

4

TAVINEA SORTO

Accessories

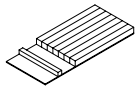


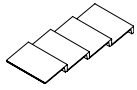
- The perfect accessories for any application
- Knives, spice jars, foil rolls, cutlery or even perfume - with Tavinea Sorto accessories, everything is perfectly sorted
- High-quality materials: Aluminium and solid wood

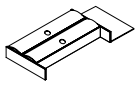
Notice:

- Accessories are hygiene-tested and food-safe

ORDER INFORMATION

1	Knife block			
	Piece			
				
NL	Ash, bright	Ash, dark		
450	F007108657	F007108658		
500	F007101990	F007101995		

2	Spice rack			
	Piece			
				
NL	Ash, bright	Ash, dark		
500	F007101992	F007101997		

3	Foil roll holder			
	Piece			
				
NL	Ash, bright	Ash, dark		
500	F007101994	F007101999		

	Levelling element			
	Piece			
				
	Ash, bright	Ash, dark		
	F007108659	F007108660		

PAGE REFERENCES

Drawer sides	30	Designer panels	70	Sensomatic	105
Slides	42	Tavinea Sorto	94	Assembly technology	125
Inset panels	56	Installation information	98	Assembly aids	134

PLANNING INFORMATION

All dimensions in millimetres

Knife block

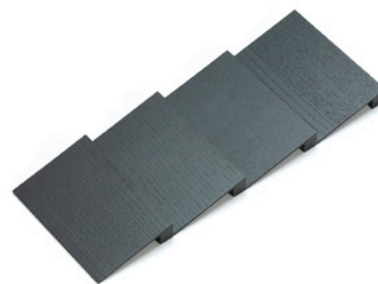
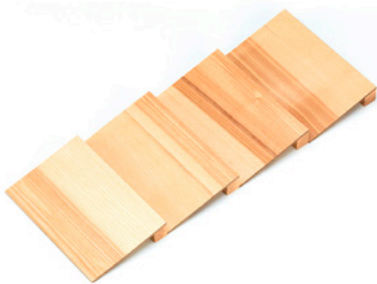
1



1

Spice rack

2



2

3

Foil roll holder

3



4

LEGEND

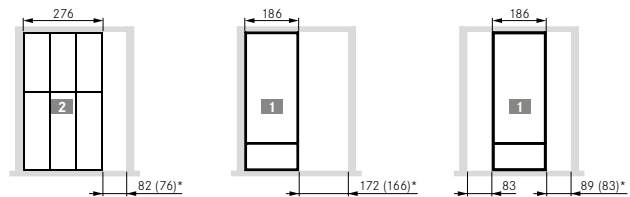
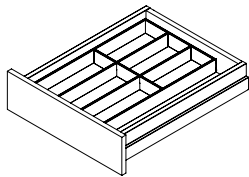
NL Nominal length

TAVINEA SORTO

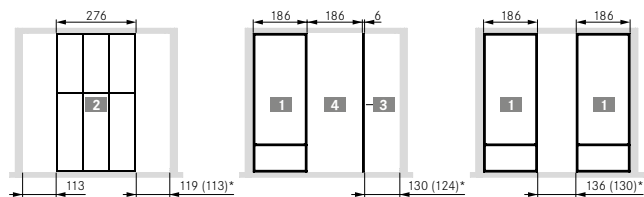
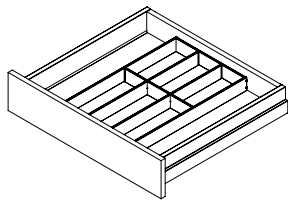
Planning dimensions

APPLICATION EXAMPLES

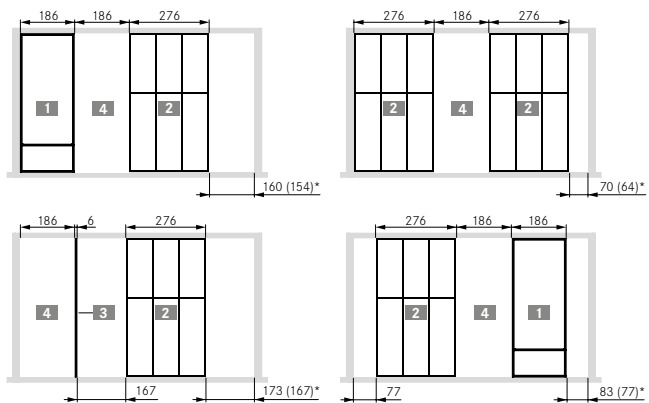
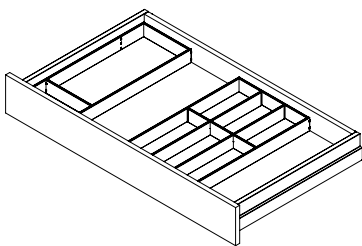
KB 450



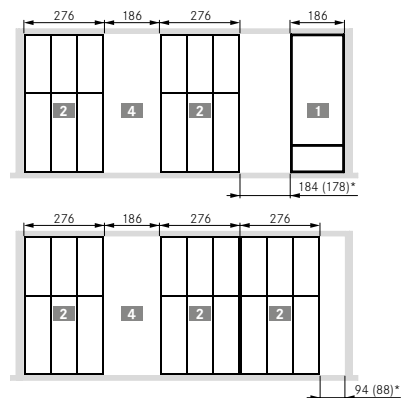
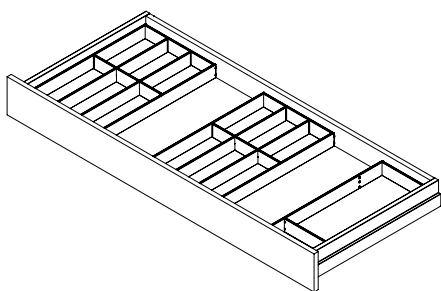
KB 600



KB 900



KB 1200



* S16 (S18/S19)

PAGE REFERENCES

Drawer sides	30	Designer panels	70	Sensomatic	105
Slides	42	Tavinea Sorto	94	Assembly technology	125
Inset panels	56	Accessories	96	Assembly aids	134

APPLICATION EXAMPLES

Description

1

2

3

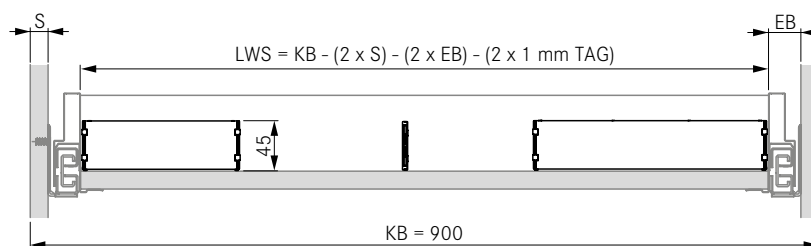
4

NL	X
350	329
400	379
450	429
500	479
550	530
600	580

1
2
3
4

PLANNING INFORMATION

Installation dimensions



S/EB	Cabinet width (KB)								
	300	400	450	500	600	800	900	1000	1200
16/29	208	308	358	408	508	708	808	908	1108
18/30	202	302	352	402	502	702	802	902	1102
19/29	202	302	352	402	502	702	802	902	1102
Inside drawer width (LWS)									

LEGEND

EB	Installation width	S	Side wall thickness
KB	Cabinet width	TAG	Tolerance compensation
LWS	Inside drawer width		
NL	Nominal length		

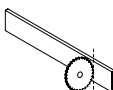
DRAWER DIVIDER


Dividing system

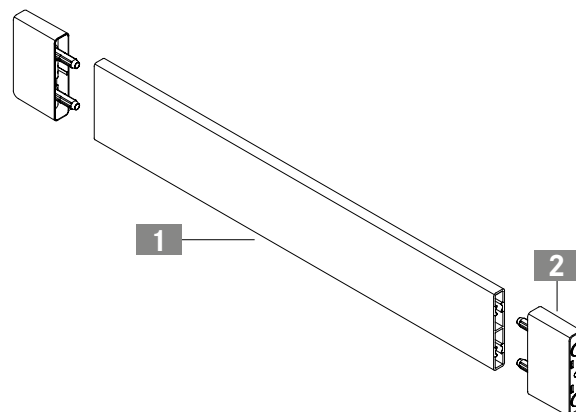


- Elegant organisation of storage space by dividing the drawer
- Compensation of cabinet side wall thickness through spring-loaded clamping elements
- Aluminium profiles for cutting to length
- Easy to install
- Tool-free adjustment
- Can be retrofitted at any time
- Colour coordinated

ORDER INFORMATION

1	Drawer divider for cutting to length			
	Piece			
				
L	Ice	Silver	Stone	Zircon
1185	F102102944	F102102945	F102102943	F102134384

2	Clamping unit			
	Piece: Left or right			
				
	Ice	Silver	Stone	Zircon
	F102102947	F102102948	F102102932	F102134383

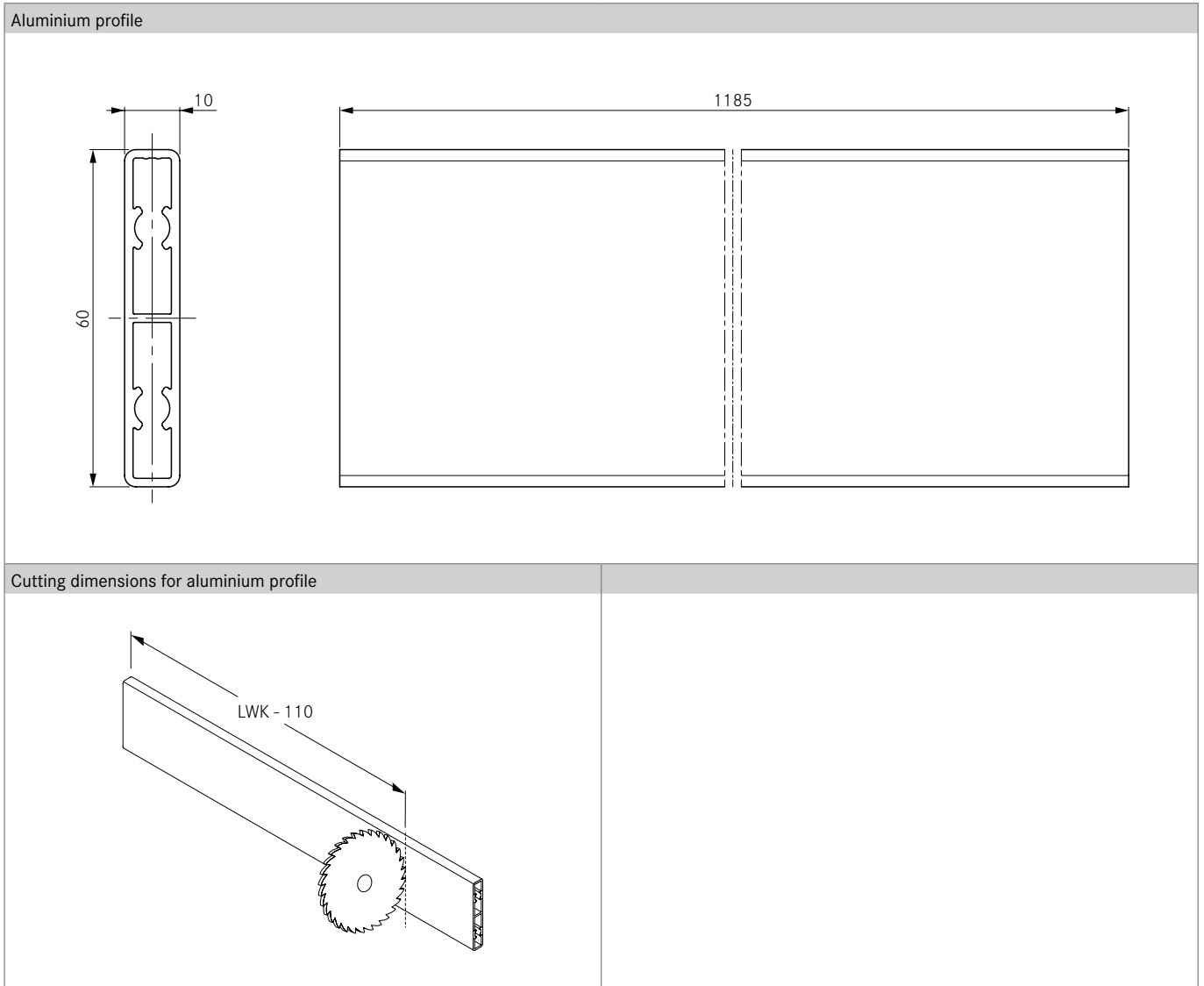


PAGE REFERENCES

Drawer sides	30	Designer panels	70	Assembly technology	125
Slides	42	Accessories	82	Assembly aids	134
Inset panels	56	Sensomatic	105		

PLANNING INFORMATION

All dimensions in millimetres



1

2

3

4

LEGEND

L	Length
LWK	Inside cabinet width

TAVINEA OPTIMA

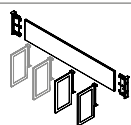
Dividing system



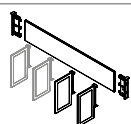
- Dividing system for pot drawers
- Organisation of storage space makes everything visible at a glance
- Simple, tool-free assembly
- Tool-free adjustment for variable use of storage space
- Can be retrofitted at any time
- Colour-coordinated with drawer sides

ORDER INFORMATION

Tavinea Optima, S16 Set				
KB	Ice	Silver	Stone	Zircon
600	F007130272	F007130286	F007130258	F007131015
900	F007130275	F007130289	F007130261	F007131016
1200	F007130278	F007130292	F007130264	F007131017



Tavinea Optima, S18/S19 Set				
KB	Ice	Silver	Stone	Zircon
600	F007130369	F007130383	F007130355	F007133887
900	F007130372	F007130386	F007130358	F007133888
1200	F007130375	F007130389	F007130361	F007133889



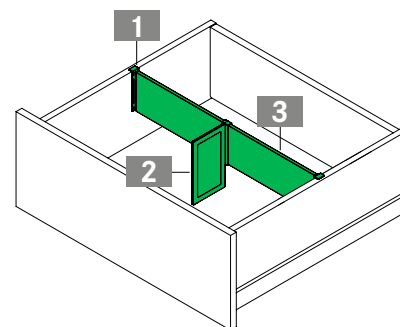
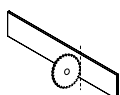
1 Tavinea Optima Profile holder Piece: Left or right				
	Graphite, Stone	Ice	Silver	Zircon
	F007130228	F007130229	F007130230	F007131018



2 Tavinea Optima Smartboard Piece				
	Graphite, Stone	Ice	Silver	Zircon
	F007130245	F007130246	F007130247	F007131019



3 Tavinea Optima Divider profile for cutting to length Piece				
L	Ice	Silver	Stone	Zircon
1098	F007130235	F007130236	F007130234	F007134387



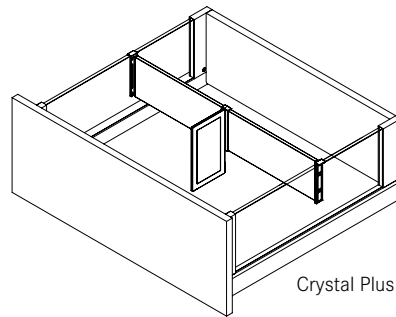
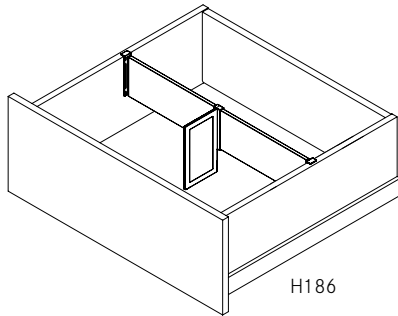
PAGE REFERENCES

Drawer sides	34	Designer panels	70	Assembly technology	125
Slides	42	Accessories	82	Assembly aids	134
Inset panels	56	Sensomatic	105		

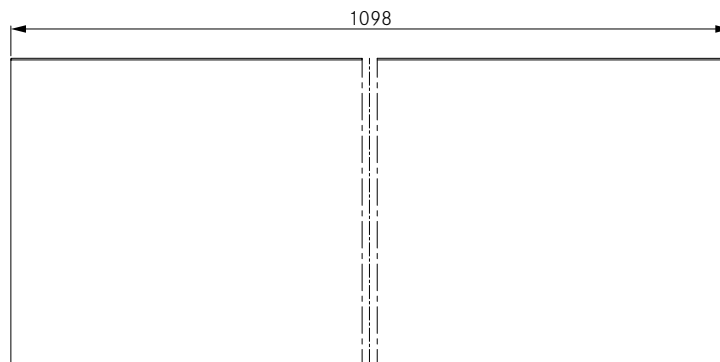
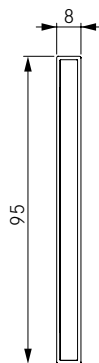
PLANNING INFORMATION

All dimensions in millimetres

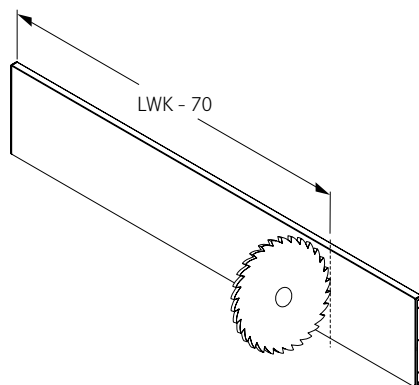
Applications



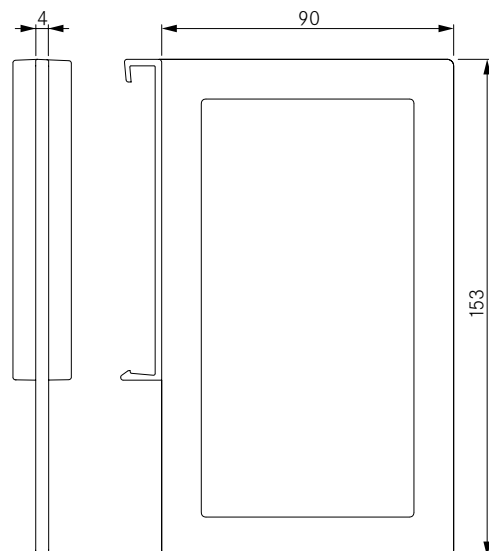
Divider profile



Cutting dimensions for divider profile



Smartboard



LEGEND

H Height
KB Cabinet width
L Length
LWK Inside cabinet width

S Side wall thickness



**Sensomatic.
There's no more
elegant way to open
handle-free drawers.**



To enable you to test the special properties of Sensomatic yourself, we also supply the electromechanical **opening system as a practical single set.**


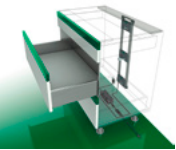
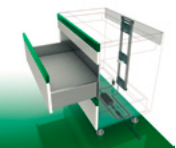
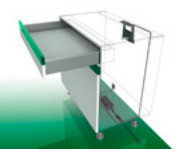
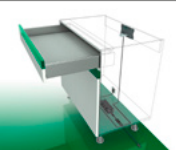
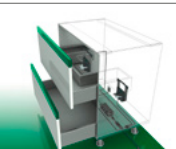
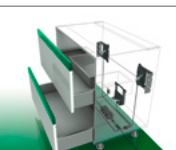
WITH THE SENSOMATIC TOUCH-ACTIVATED AUTOMATIC SYSTEM, A GENTLE TAP IS ALL THAT IS NEEDED TO SET REGULAR AND POT DRAWERS IN MOTION. MECHANICAL TAPPING OR PULLING IS CONVERTED INTO AN ELECTRICAL SIGNAL, WHICH STARTS THE MOVEMENT WITHIN A FEW FRACTIONS OF A SECOND. SMOOTH, PRECISE AND ELEGANT AT THE SAME TIME. **SENSOMATIC IS AN INTERACTIVE MOVEMENT SYSTEM FOR MAXIMUM OPERATING COMFORT AND FREEDOM OF MOVEMENT.**

**Action.
Reaction.
Interaction.**



Sensomatic Opening System for Nova Pro Drawers

Electro-mechanical opening of regular and pot drawers.
For a balance between stylish design and functional comfort.

	Description		Page
	Sensomatic Single set <ul style="list-style-type: none"> • Complete set for one drawer • For cabinet widths up to 1200 mm • Easy to assemble • Extremely simple wiring (plug and play) 		106
	Sensomatic Standard cabinet, horizontal wooden stretcher <ul style="list-style-type: none"> • Smallest additional space requirement between drawer back panel and cabinet • Extremely simple wiring (plug and play) • Only one drive unit for cabinet widths up to 1200 mm • Large activation zone 		108
	Sensomatic Standard cabinet, vertical wooden stretcher <ul style="list-style-type: none"> • Smallest additional space requirement between drawer back panel and cabinet • Extremely simple wiring (plug and play) • Only one drive unit for cabinet widths up to 1200 mm • Large activation zone 		110
	Sensomatic Single drawer, overhead frame set mounting <ul style="list-style-type: none"> • Smallest additional space requirement between drawer back panel and cabinet • Extremely simple wiring (plug and play) • Only one drive unit for cabinet widths up to 1200 mm • Large activation zone 		112
	Sensomatic Single drawer back panel frame set mounting <ul style="list-style-type: none"> • Smallest additional space requirement between drawer back panel and cabinet • Extremely simple wiring (plug and play) • Only one drive unit for cabinet widths up to 1200 mm • Large activation zone 		114
	Sensomatic Sink cabinet bottom panel frame set mounting <ul style="list-style-type: none"> • Smallest additional space requirement between drawer back panel and cabinet • Extremely simple wiring (plug and play) • Only one drive unit for cabinet widths up to 1200 mm • Large activation zone 		116
	Sensomatic Sink cabinet side panel frame set mounting <ul style="list-style-type: none"> • Smallest additional space requirement between drawer back panel and cabinet • Extremely simple wiring (plug and play) • Only one drive unit for cabinet widths up to 1200 mm • Large activation zone 		118



Tipmatic Soft-close

Complete comfort without electronics.

Tipmatic Soft-close keeps mechanical opening without electronic support perfectly under control. This makes Tipmatic Soft-close one of the world's most successful opening systems for handle-free drawers. Tipmatic Soft-close can be found under slides.

SENSOMATIC

Single set



- Electro-mechanical opening system
- Combines handle-free opening with the Soft-close damping system
- 1 drive unit for all weight classes
- Easy to install
- Plug and play wiring
- Low additional installation depth
- Single set contains all components required for assembly
- Ideal for heavy pot drawers and waste separating systems

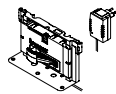
Notice:

- Power supply unit with plug (Central Europe, DE, FR, IT, CH, ES, RU, PT, NL)
- Other country-specific sets on request

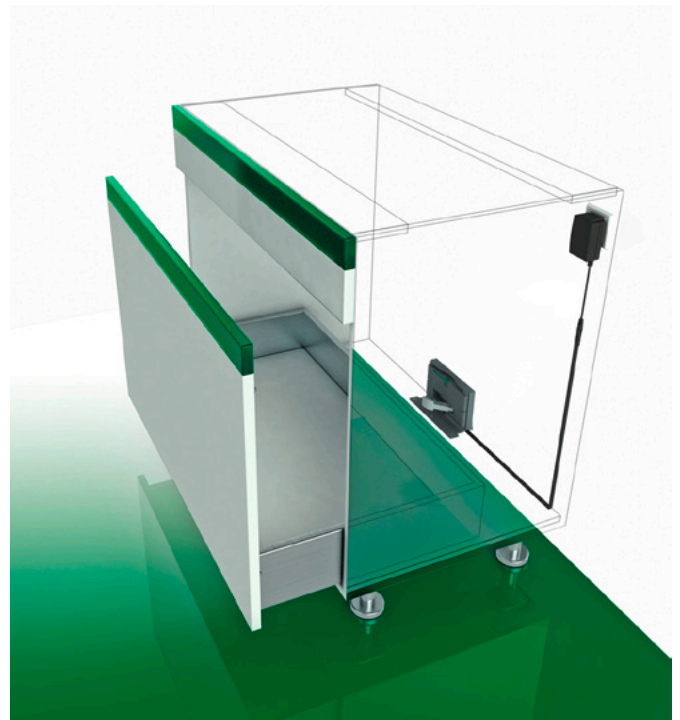
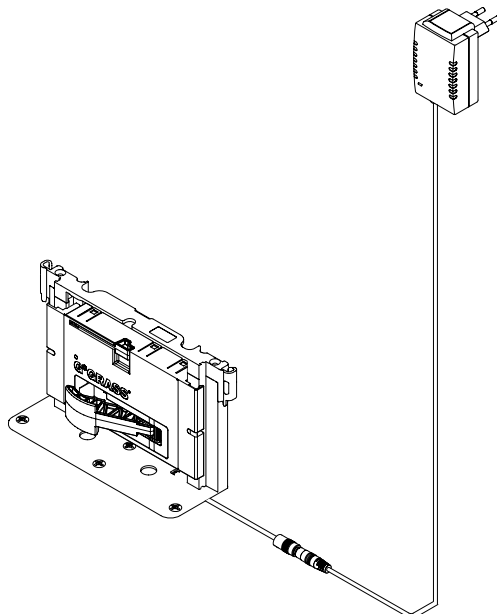
ORDER INFORMATION

Sensomatic Single Set

Set: Drive unit, Installation set, Power supply unit with plug, Front buffer



Plug type	Art. no.
C: Used in: Europe, with the exception of the UK, Ireland, Cyprus and Malta	F121100983



PAGE REFERENCES

Drawer sides	28	Accessories	82	Assembly technology	125
Slides	42	Organising systems	93	Assembly aids	134
Inset panels	56	Installation instructions	120		

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions

RW	MET	LBT
Wooden back panel	NL + 21	NL + 6
Steel back panel	NL + 18	NL + 3

Installation set

Position of drive unit

Position of front buffer

* Recommendation/minimum dimension: 51 mm

Notice: When using Nova Pro slides 70 kg, 4 front buffers must be inserted into the front.

LEGEND


FA	Front overlay	LWK	Inside cabinet width	RW	Back panel
FH	Front height	MET	Minimum installation depth		
KF	Cable routing	NL	Nominal length		
LBT	Depth of hole pattern	P	Positioning aid		




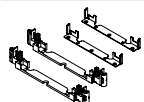
SENSOMATIC


Standard cabinet, horizontal wooden stretcher


ORDER INFORMATION

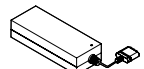
1	Drive unit Piece	
	Suitable for slide Dynapro, Nova Pro	Art. no. F121131975

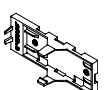
2	Length divider Pair	
	TL 750	Art. no. F121100285


3	Fastening set Set: Frame connector, Fixing brackets	
	Opening/closing system Sensomatic	Art. no. F121100610


3a	Frame connector Piece	
	Opening/closing system Sensomatic	Art. no. F121100282


3b	Fixing bracket Piece: Top or bottom	
	Opening/closing system Sensomatic	Art. no. F121100270

4	Power supply unit Piece	
	Opening/closing system Sensomatic	Art. no. F121109970

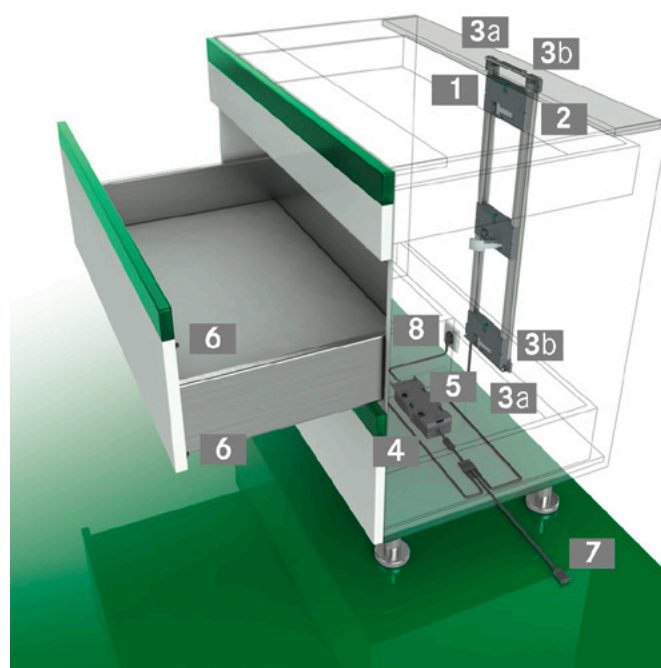
5	Power supply bracket Piece	
	Opening/closing system Sensomatic	Art. no. F121100604

6	Front buffer, spring loaded Piece		
	Ø	Front gap	Art. no.
	5	2.2	F121100294
5	3	F121100295	

7	Connection cable with 2-way adapter Piece	
	L	Art. no.
	1000	F121100289
2000	F121100291	

8	Power supply cable Piece	
	Plug type	Art. no.
	E: Used in: France, Belgium, Slovakia and Tunisia, F: Used in: Germany, Austria, the Netherlands and Spain	F120069761
J: Used in: Switzerland and Lichtenstein	F120069765	

Other country-specific plug types on request.



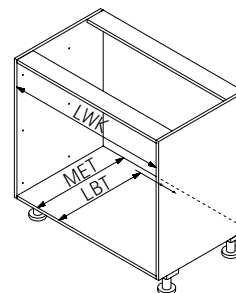
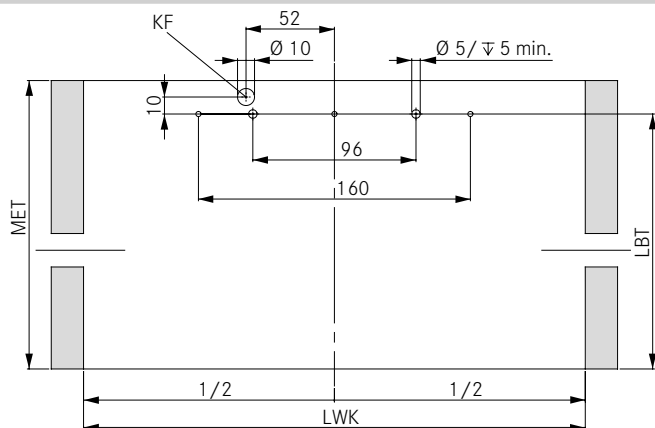
PAGE REFERENCES

Drawer sides	28	Accessories	82	Assembly technology	125
Slides	42	Organising systems	93	Assembly aids	134
Inset panels	56	Installation instructions	120		

PLANNING INFORMATION

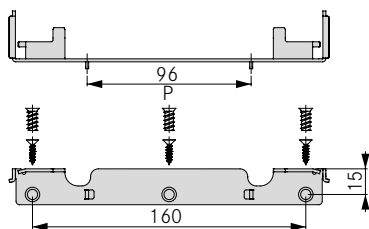
All dimensions in millimetres

Installation dimensions

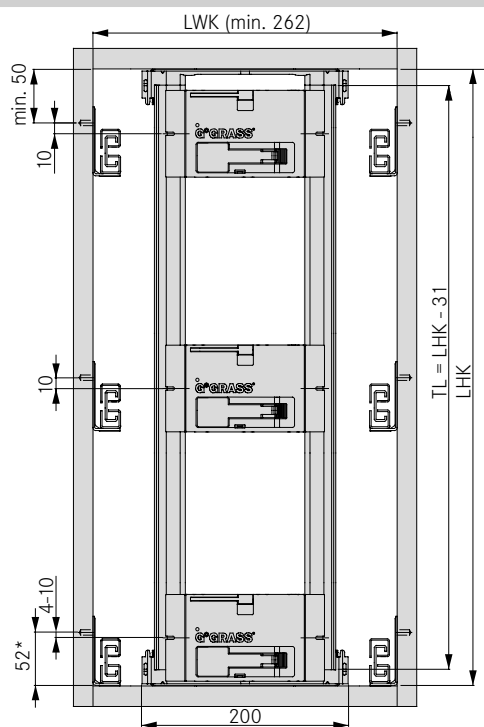


RW	MET	LBT
Wooden back panel	NL + 21	NL + 6
Steel back panel	NL + 18	NL + 3

Upper/lower fixing bracket

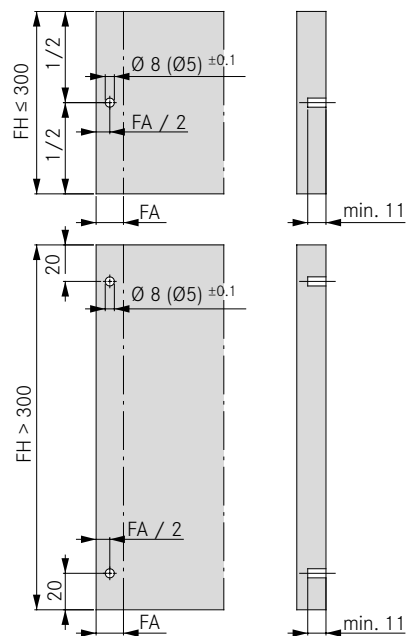


Position of drive unit



* Recommendation/minimum dimension: 49.5 mm

Position of front buffer



Notice: When using Nova Pro slides 70 kg, 4 front buffers must be inserted into the front.

LEGEND

FA	Front overlay
FH	Front height
KF	Cable routing
LBT	Depth of hole pattern

LHK	Inside cabinet height
LWK	Inside cabinet width
MET	Minimum installation depth
NL	Nominal length


P	Positioning aid
RW	Back panel
TL	Traverse length





SENSOMATIC


Standard cabinet, vertical wooden stretcher


ORDER INFORMATION

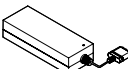
1	Drive unit Piece	
	Suitable for slide Dynapro, Nova Pro	Art. no. F121131975


2	Length divider Pair	
	TL 750	Art. no. F121100285


3	Frame connector Piece	
	Opening/closing system Sensomatic	Art. no. F121100282


4	Fixing bracket Piece: Top or bottom	
	Opening/closing system Sensomatic	Art. no. F121100270


5	Fixing bracket Piece: Back	
	Opening/closing system Sensomatic	Art. no. F121100275

6	Power supply unit Piece	
	Opening/closing system Sensomatic	Art. no. F121109970

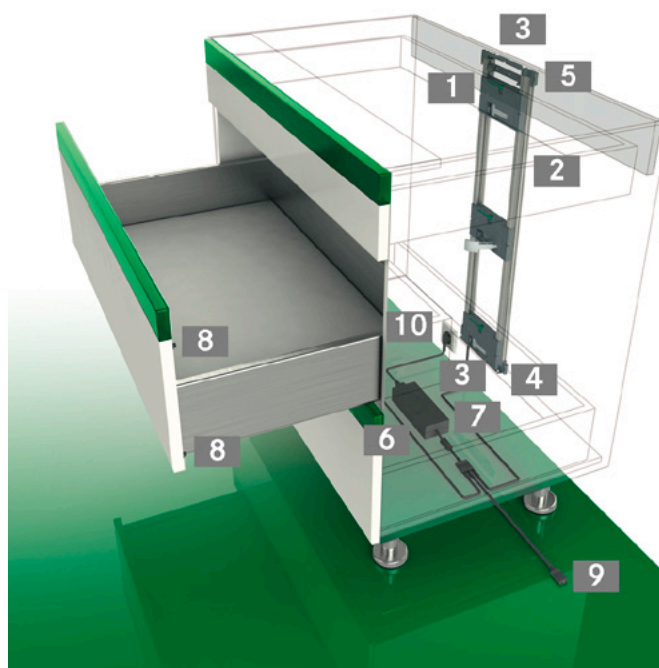
7	Power supply bracket Piece	
	Opening/closing system Sensomatic	Art. no. F121100604

8	Front buffer, spring loaded Piece		
	Ø	Front gap	Art. no.
	5	2.2	F121100294
5	3	F121100295	

9	Connection cable with 2-way adapter Piece	
	L	Art. no.
	1000	F121100289
2000	F121100291	

10	Power supply cable Piece	
	Plug type	Art. no.
	E: Used in: France, Belgium, Slovakia and Tunisia, F: Used in: Germany, Austria, the Netherlands and Spain	F120069761
J: Used in: Switzerland and Lichtenstein	F120069765	

Other country-specific plug types on request.



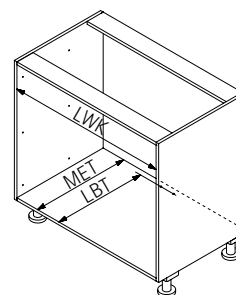
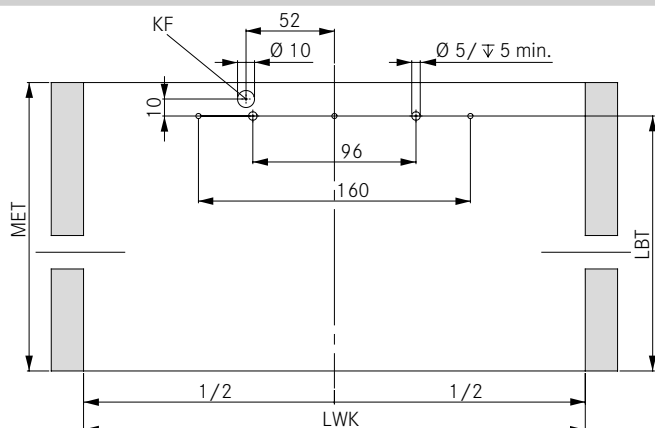
PAGE REFERENCES

Drawer sides	28	Accessories	82	Assembly technology	125
Slides	42	Organising systems	93	Assembly aids	134
Inset panels	56	Installation instructions	120		

PLANNING INFORMATION

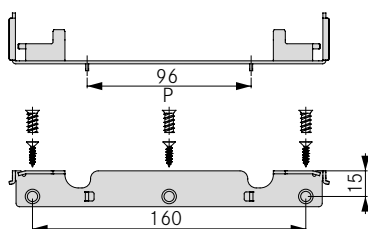
All dimensions in millimetres

Installation dimensions

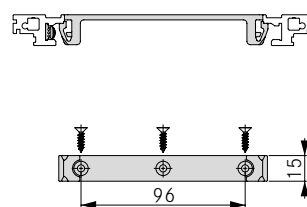


RW	MET	LBT
Wooden back panel	NL + 21	NL + 6
Steel back panel	NL + 18	NL + 3

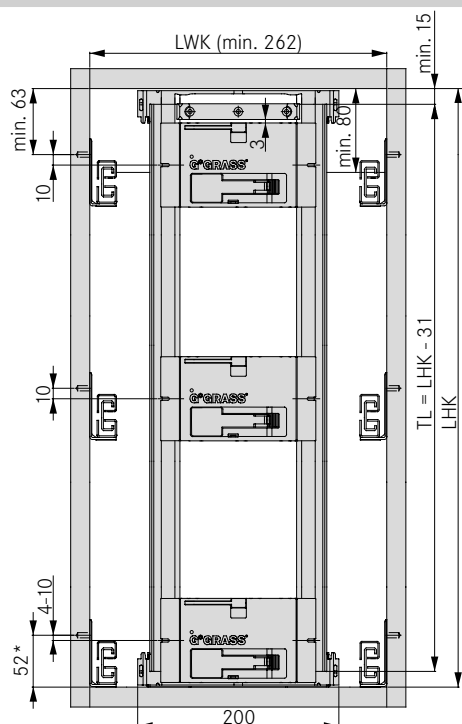
Upper/lower fixing bracket



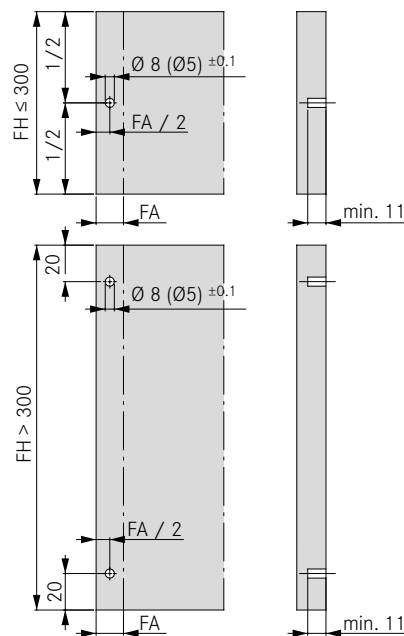
Fixing bracket on the inner rear side



Position of drive unit



Position of front buffer



* Recommendation/minimum dimension: 49.5 mm

Notice: When using Nova Pro slides 70 kg, 4 front buffers must be inserted into the front.

LEGEND

FA Front overlay
FH Front height
KF Cable routing
LBT Depth of hole pattern

LHK Inside cabinet height
LWK Inside cabinet width
MET Minimum installation depth
NL Nominal length


P Positioning aid
RW Back panel
TL Traverse length




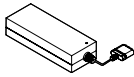
SENSOMATIC


Single drawer, overhead frame set mounting


ORDER INFORMATION


1	Drive unit	
	Piece	
	Suitable for slide	Art. no.
	Dynapro, Nova Pro	F121131975

2	Installation set	
	Set	
	Opening/closing system	Art. no.
	Sensomatic	F121100273

3	Power supply unit	
	Piece	
	Opening/closing system	Art. no.
	Sensomatic	F121109970

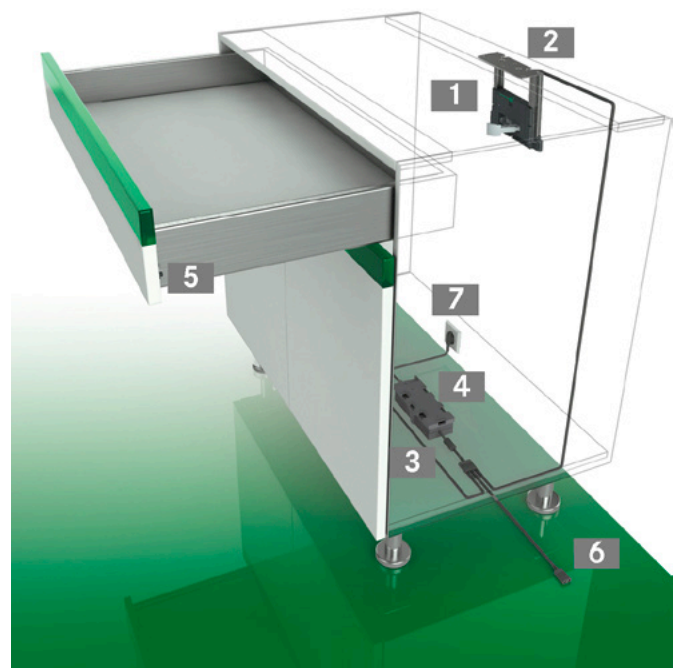
4	Power supply bracket	
	Piece	
	Opening/closing system	Art. no.
	Sensomatic	F121100604

5	Front buffer, spring loaded	
	Piece	
Ø	Front gap	Art. no.
5	2.2	F121100294
5	3	F121100295

6	Connection cable with 2-way adapter	
	Piece	
	L	Art. no.
	1000	F121100289
	2000	F121100291

7	Power supply cable	
	Piece	
	Plug type	Art. no.
	E: Used in: France, Belgium, Slovakia and Tunisia, F: Used in: Germany, Austria, the Netherlands and Spain	F120069761
	J: Used in: Switzerland and Lichtenstein	F120069765

Other country-specific plug types on request.



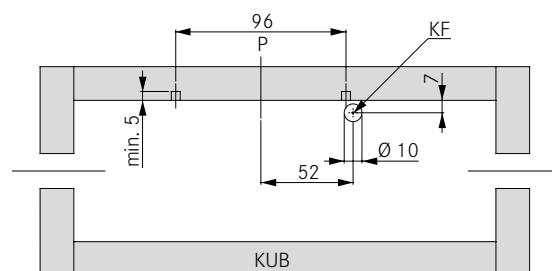
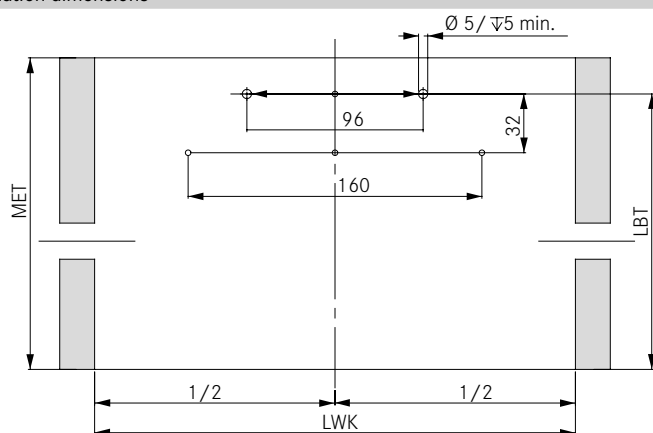
PAGE REFERENCES

Drawer sides	28	Accessories	82	Assembly technology	125
Slides	42	Organising systems	93	Assembly aids	134
Inset panels	56	Installation instructions	120		

PLANNING INFORMATION

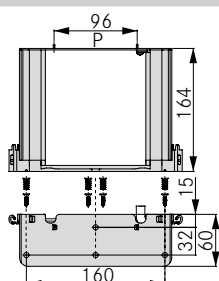
All dimensions in millimetres

Installation dimensions

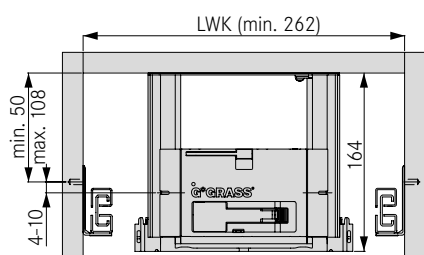


RW	MET	LBT
Wooden back panel	NL + 21	NL + 6
Steel back panel	NL + 18	NL + 3

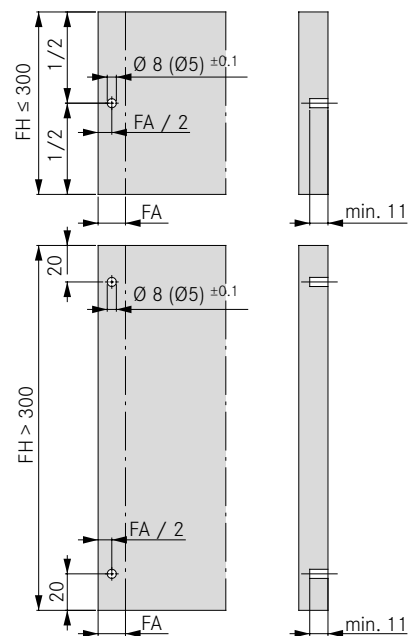
Installation set



Position of drive unit



Position of front buffer



Notice: When using Nova Pro slides 70 kg, 4 front buffers must be inserted into the front.

LEGEND

FA	Front overlay
FH	Front height
KF	Cable routing
KUB	Cabinet base

LBT	Depth of hole pattern
LWK	Inside cabinet width
MET	Minimum installation depth
NL	Nominal length


P	Positioning aid
RW	Back panel





SENSOMATIC

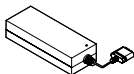
Single drawer back panel frame set mounting


ORDER INFORMATION


1	Drive unit	
	Piece	
	Suitable for slide	Art. no.
	Dynapro, Nova Pro	F121131975


2	Length divider	
	Pair	
	Traverse length	Art. no.
	64	F121100283

3	Frame connector	
	Piece	
	Opening/closing system	Art. no.
	Sensomatic	F121100282

4	Power supply unit	
	Piece	
	Opening/closing system	Art. no.
	Sensomatic	F121109970

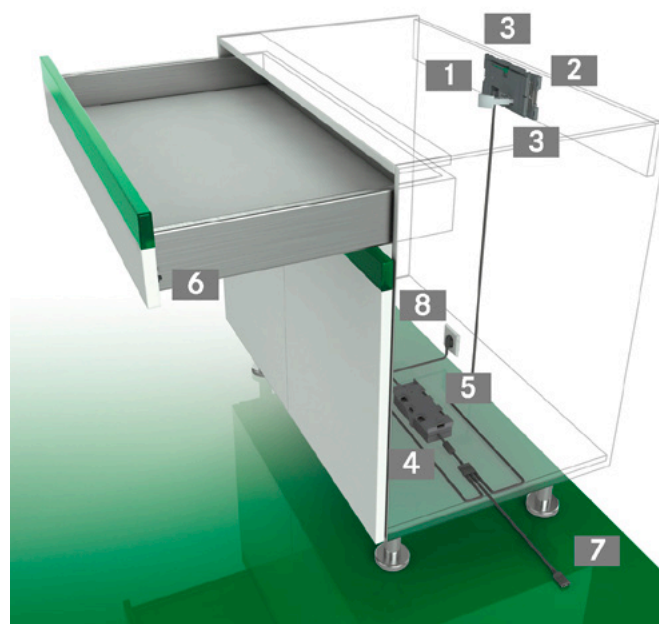
5	Power supply bracket	
	Piece	
	Opening/closing system	Art. no.
	Sensomatic	F121100604

6	Front buffer, spring loaded	
	Piece	
Ø	Front gap	Art. no.
5	2.2	F121100294
5	3	F121100295

7	Connection cable with 2-way adapter	
	Piece	
	L	Art. no.
	1000	F121100289
	2000	F121100291

8	Power supply cable	
	Piece	
	Plug type	Art. no.
	E: Used in: France, Belgium, Slovakia and Tunisia, F: Used in: Germany, Austria, the Netherlands and Spain	F120069761
	J: Used in: Switzerland and Lichtenstein	F120069765

Other country-specific plug types on request.

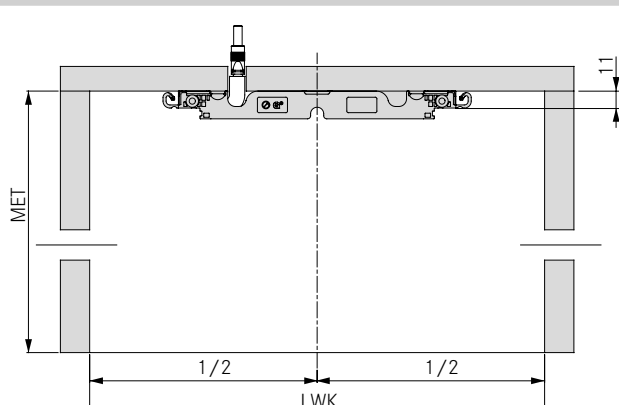
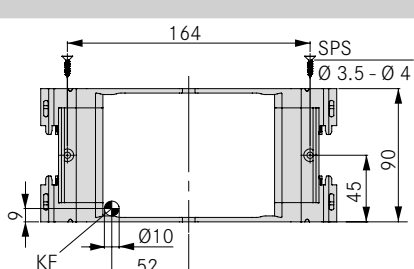
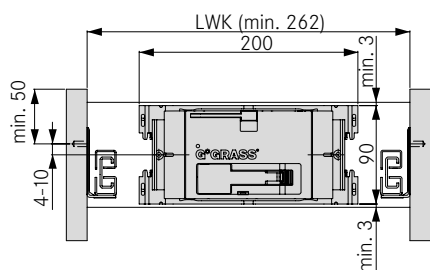
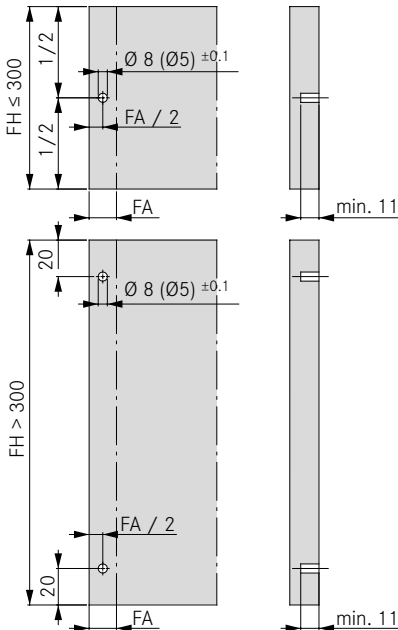


PAGE REFERENCES

Drawer sides	28	Accessories	82	Assembly technology	125
Slides	42	Organising systems	93	Assembly aids	134
Inset panels	56	Installation instructions	120		

PLANNING INFORMATION

All dimensions in millimetres

<p>Installation dimensions</p> 		<table border="1"> <thead> <tr> <th>RW</th> <th>MET</th> </tr> </thead> <tbody> <tr> <td>Wooden back panel</td> <td>NL + 21</td> </tr> <tr> <td>Steel back panel</td> <td>NL + 18</td> </tr> </tbody> </table>	RW	MET	Wooden back panel	NL + 21	Steel back panel	NL + 18
RW	MET							
Wooden back panel	NL + 21							
Steel back panel	NL + 18							
<p>Frame sides</p> 								
<p>Position of drive unit</p> 	<p>Position of front buffer</p> 							
		<p>Notice: When using Nova Pro slides 70 kg, 4 front buffers must be inserted into the front.</p>						

LEGEND

FA	Front overlay
FH	Front height
KF	Cable routing
LWK	Inside cabinet width


MET	Minimum installation depth
NL	Nominal length
RW	Back panel
SPS	Chipboard screw




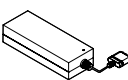
SENSOMATIC


Sink cabinet bottom panel frame set mounting


ORDER INFORMATION


1	Drive unit Piece	
	Suitable for slide	Art. no.
	Dynapro, Nova Pro	F121131975


2	Installation set Set	
	Opening/closing system	Art. no.
	Sensomatic	F121100273

3	Power supply unit Piece	
	Opening/closing system	Art. no.
	Sensomatic	F121109970

4	Power supply bracket Piece	
	Opening/closing system	Art. no.
	Sensomatic	F121100604

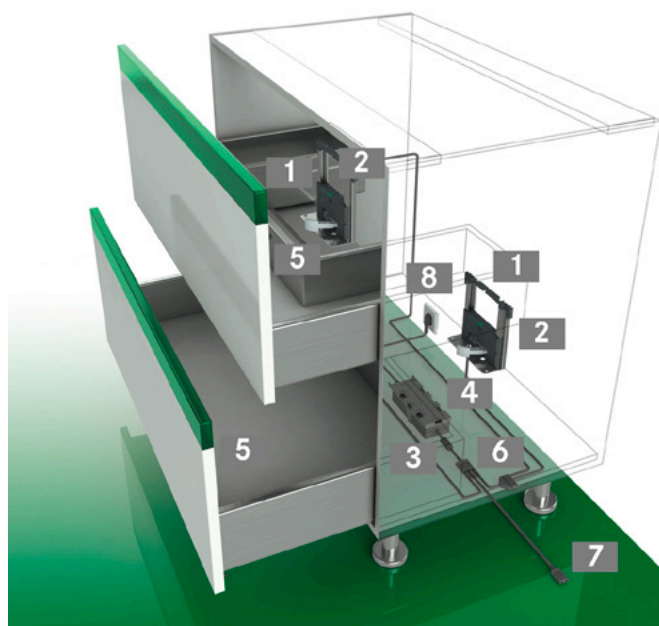
5	Front buffer, spring loaded Piece	
Ø	Front gap	Art. no.
5	2.2	F121100294
5	3	F121100295

6	4-way distributor Piece	
	Opening/closing system	Art. no.
	Sensomatic	F121100293

7	Connection cable with 2-way adapter Piece	
	L	Art. no.
	1000	F121100289
	2000	F121100291

8	Power supply cable Piece	
	Plug type	Art. no.
	E: Used in: France, Belgium, Slovakia and Tunisia, F: Used in: Germany, Austria, the Netherlands and Spain	F120069761
	J: Used in: Switzerland and Lichtenstein	F120069765

Other country-specific plug types on request.



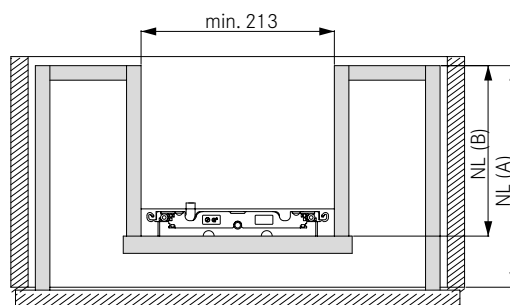
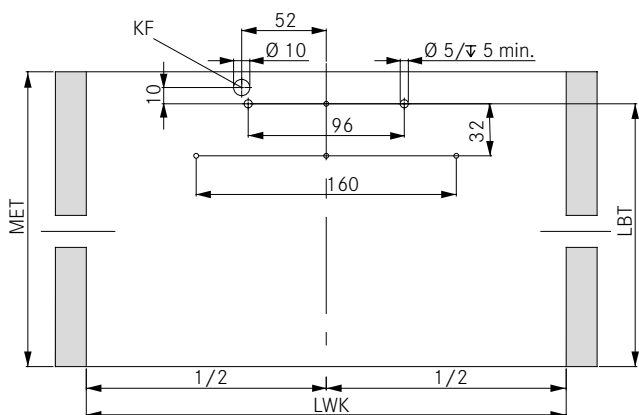
PAGE REFERENCES

Drawer sides	28	Accessories	82	Assembly technology	125
Slides	42	Organising systems	93	Assembly aids	134
Inset panels	56	Installation instructions	120		

PLANNING INFORMATION

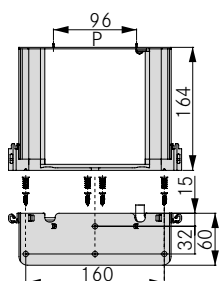
All dimensions in millimetres

Installation dimensions

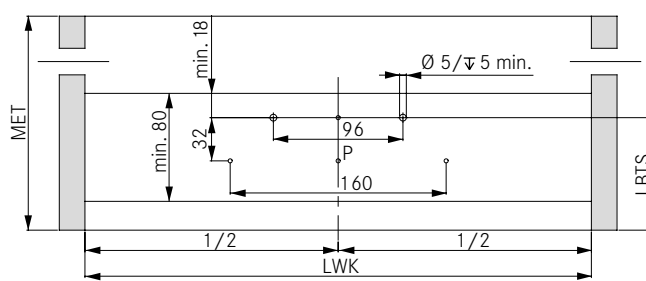


RW	MET	LBT	LBTS
Wooden back panel	NL + 21	NL + 6	NL (A) - NL (B) + 9
Steel back panel	NL + 18	NL + 3	NL (A) - NL (B) + 6

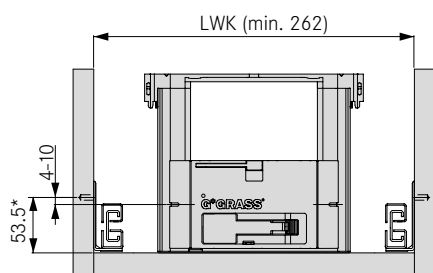
Installation set



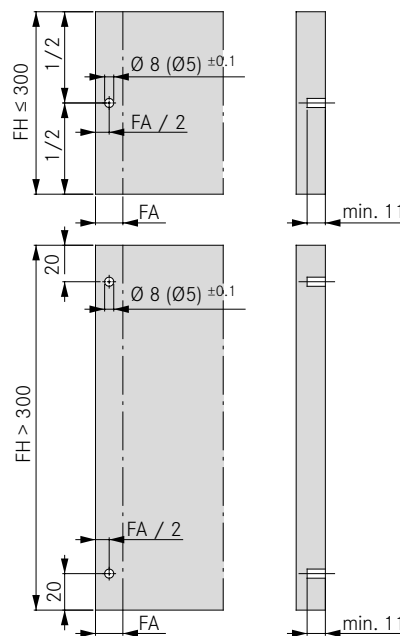
Sink installation



Position of drive unit



Position of front buffer



* Recommendation/minimum dimension: 51 mm

Notice: When using Nova Pro slides 70 kg, 4 front buffers must be inserted into the front.

LEGEND

FA	Front overlay
FH	Front height
KF	Cable routing
LBT	Depth of hole pattern

LBTS	Depth of hole pattern in sink pull-out
LWK	Inside cabinet width
MET	Minimum installation depth
NL	Nominal length


P	Positioning aid
RW	Back panel




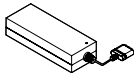
SENSOMATIC


Sink cabinet side panel frame set mounting


ORDER INFORMATION

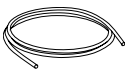
1	Drive unit	
	Piece	
	Suitable for slide	Art. no.
	Dynapro, Nova Pro	F121131975


2	Installation set	
	Set	
	Opening/closing system	Art. no.
	Sensomatic	F121100273


3	Power supply unit	
	Piece	
	Opening/closing system	Art. no.
	Sensomatic	F121109970

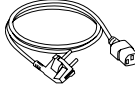
4	Power supply bracket	
	Piece	
	Opening/closing system	Art. no.
	Sensomatic	F121100604

5	Front buffer, spring loaded	
	Piece	
∅	Front gap	Art. no.
5	2.2	F121100294
5	3	F121100295

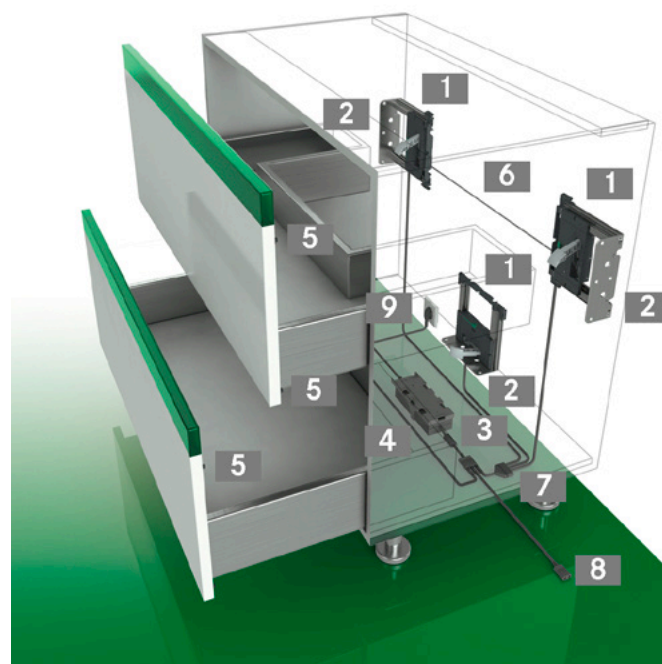
6	Synchronisation cable	
	Piece	
	L	Art. no.
	10000	F121100287

7	4-way distributor	
	Piece	
	Opening/closing system	Art. no.
	Sensomatic	F121100293

8	Connection cable with 2-way adapter	
	Piece	
	L	Art. no.
	1000	F121100289
	2000	F121100291

9	Power supply cable	
	Piece	
	Plug type	Art. no.
	E: Used in: France, Belgium, Slovakia and Tunisia, F: Used in: Germany, Austria, the Netherlands and Spain	F120069761
	J: Used in: Switzerland and Lichtenstein	F120069765

Other country-specific plug types on request.

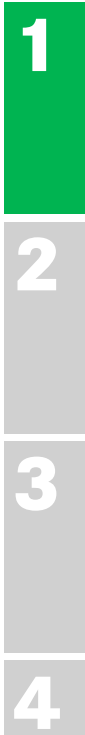
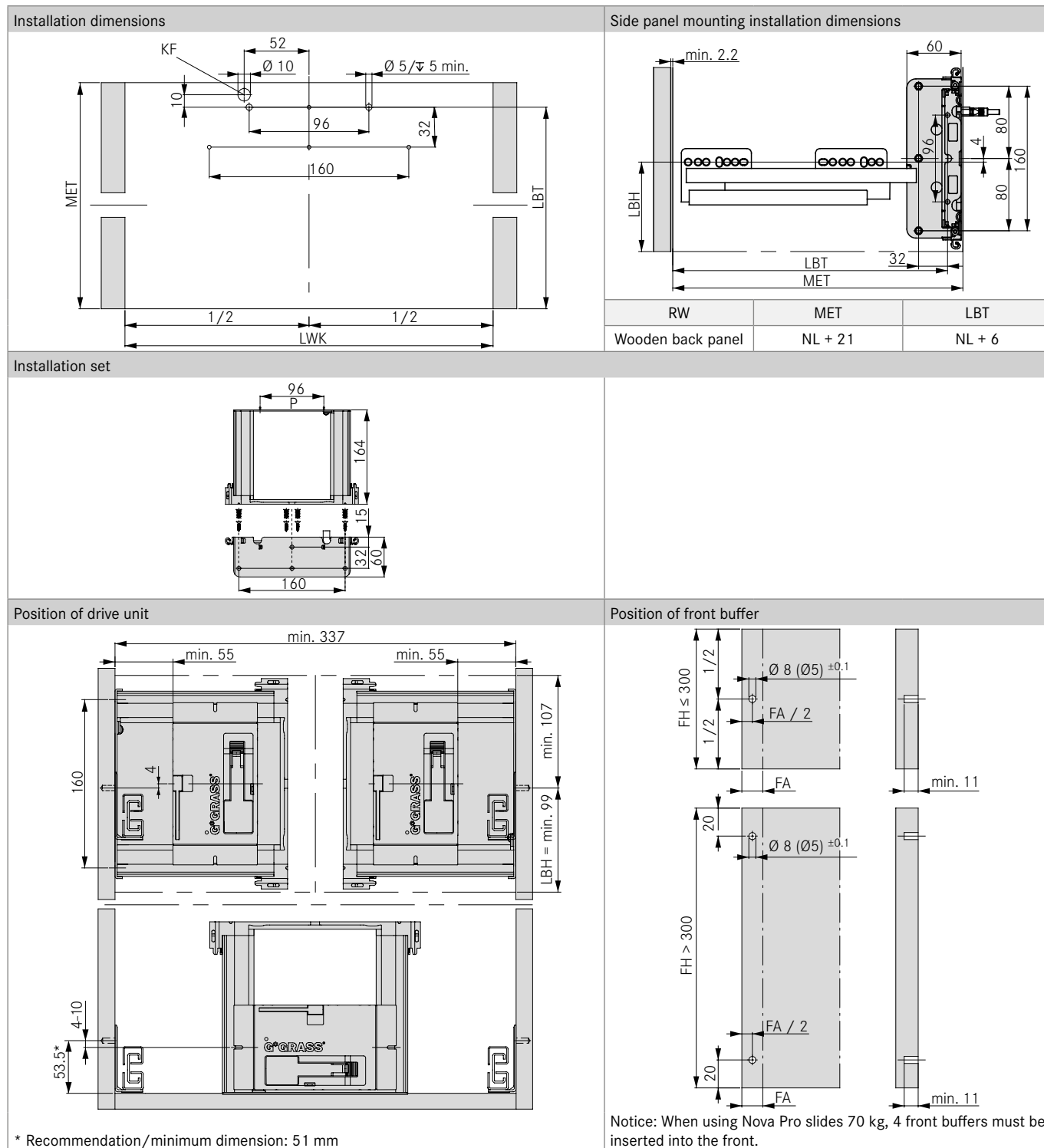


PAGE REFERENCES

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Slides	42	Organising systems	93	Assembly aids	134
Inset panels	56	Installation instructions	120		

PLANNING INFORMATION

All dimensions in millimetres



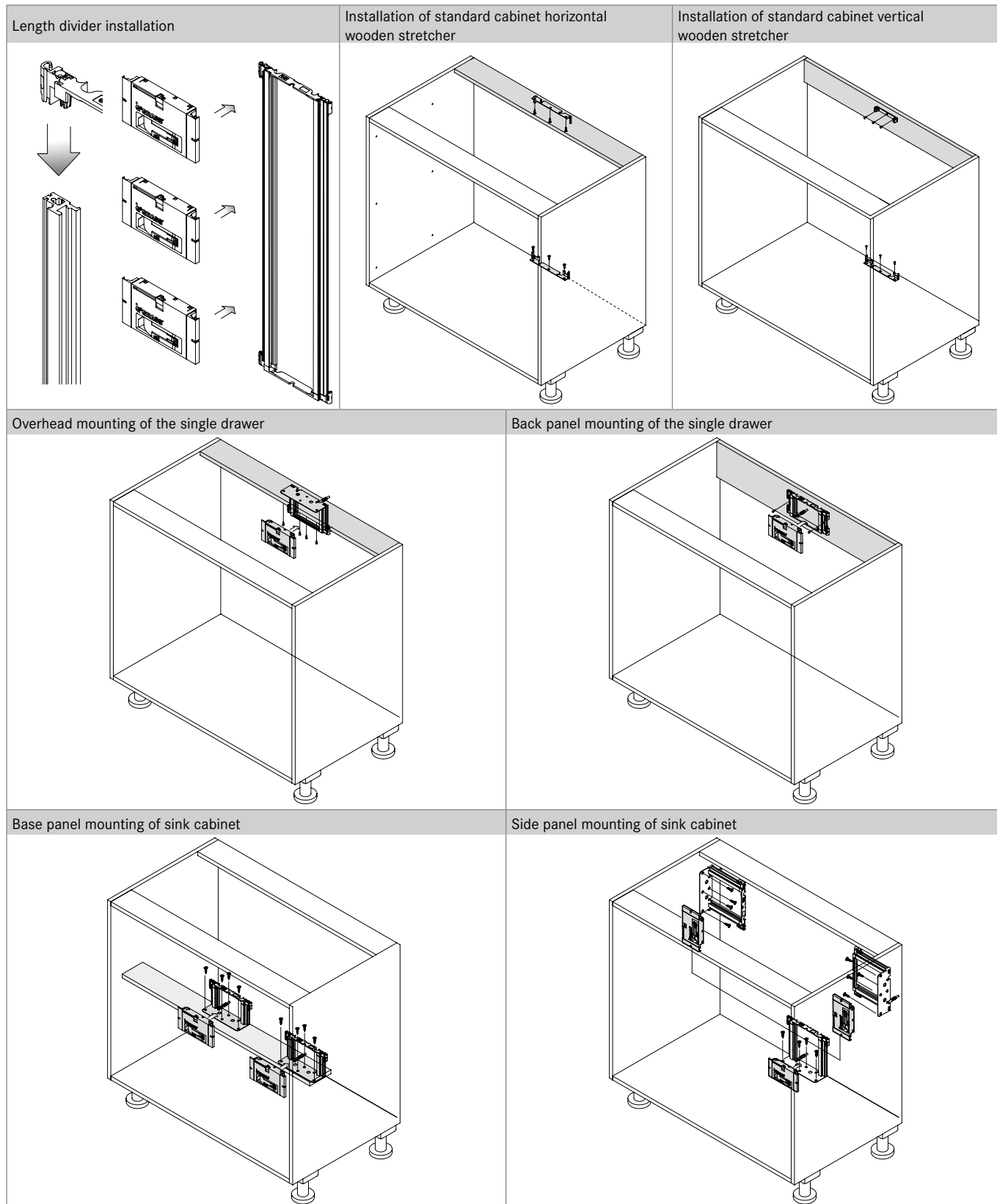
LEGEND

FA	Front overlay	LBT	Depth of hole pattern	P	Positioning aid
FH	Front height	LWK	Inside cabinet width	RW	Back panel
KF	Cable routing	MET	Minimum installation depth		
LBH	Height of hole pattern	NL	Nominal length		

NOVA PRO SENSOMATIC

Installation instructions

INSTALLATION INSTRUCTIONS

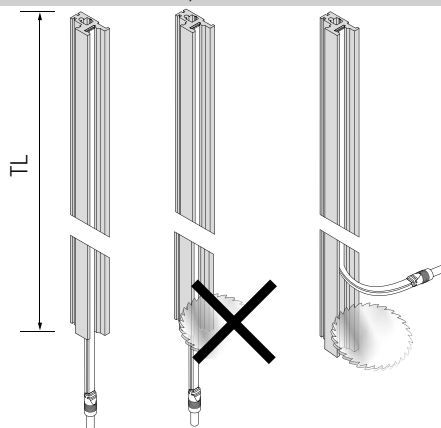


PAGE REFERENCES

Horizontal wooden stretcher	108	Back panel mounting	114	Drawer sides	28
Vertical wooden stretcher	110	Base panel mounting	116	Slides	42
Overhead mounting	112	Side panel mounting	118	Assembly technology	125

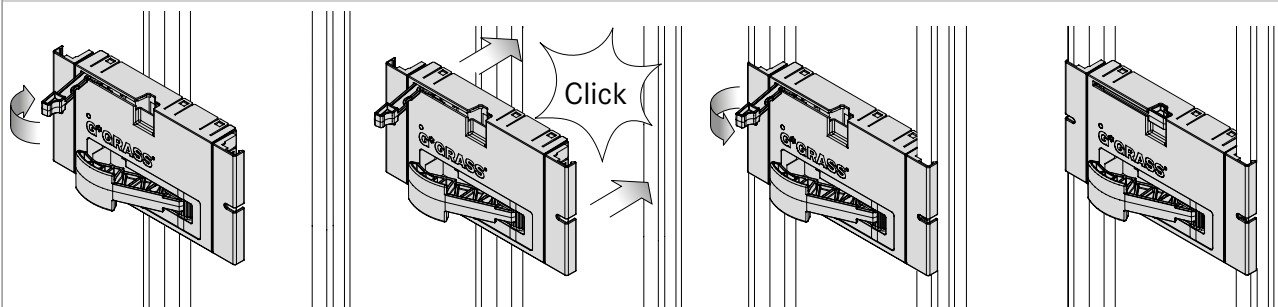
INSTALLATION INSTRUCTIONS

Cutting frame side to length (for horizontal and vertical wooden stretchers)



1

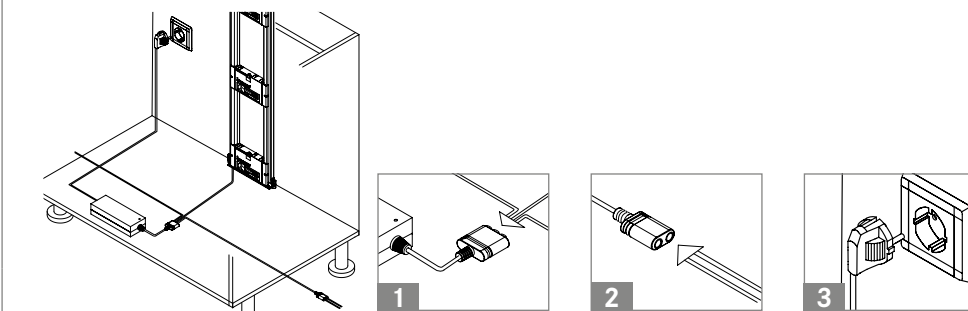
Installation of the drive unit



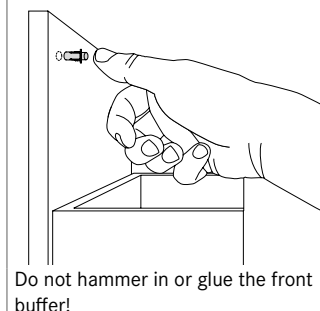
2

3

Wiring (connection sequence)

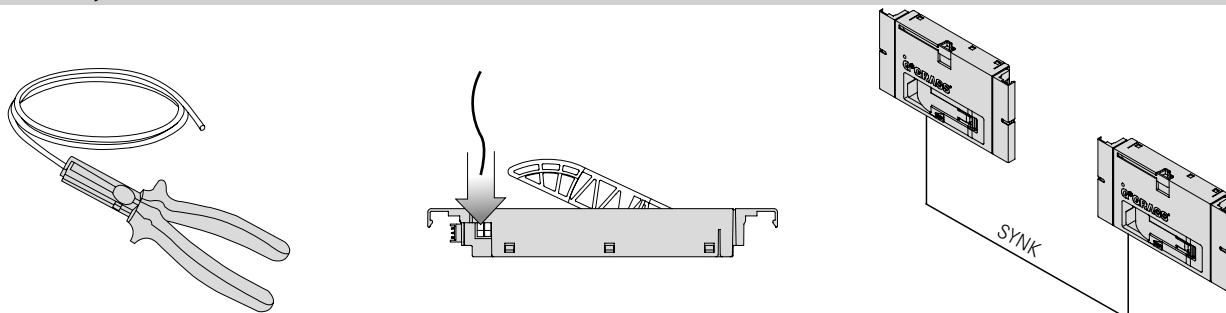


Front buffer installation



4

Installation of the synchronisation cable



LEGEND

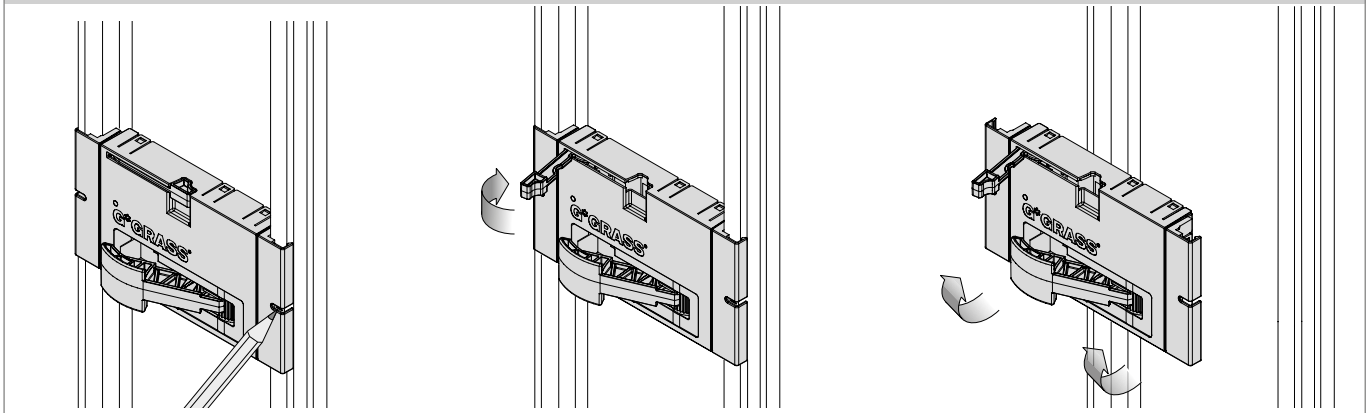
SYNK Synchronisation cable
TL Traverse length

NOVA PRO SENSOMATIC

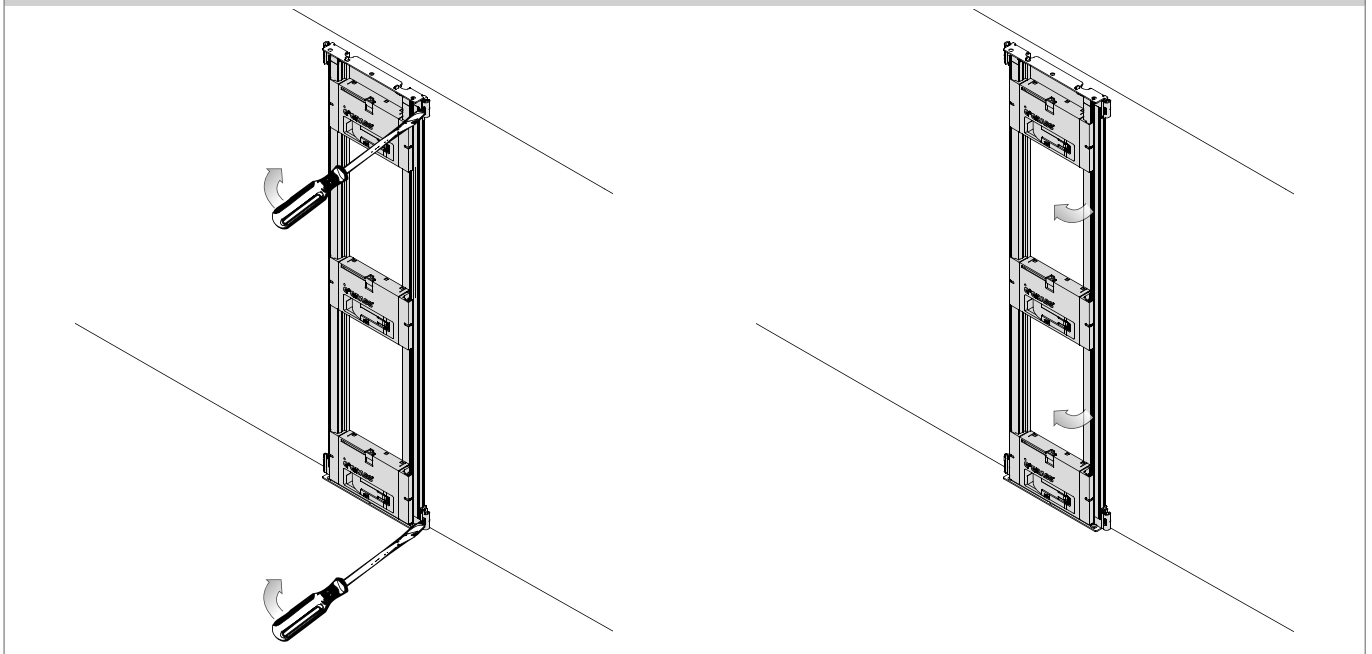
Removal instructions

DISMANTLING INSTRUCTIONS

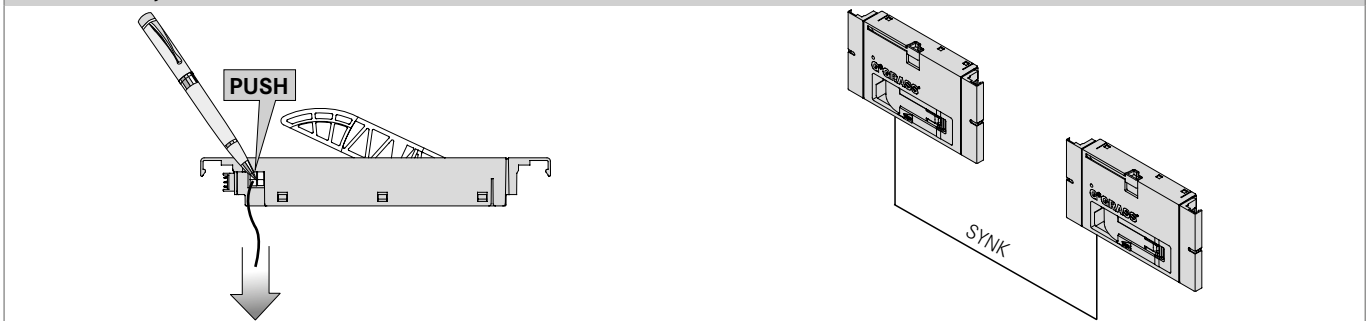
Removal of the drive unit



Removal of the frame sides



Removal of the synchronisation cable

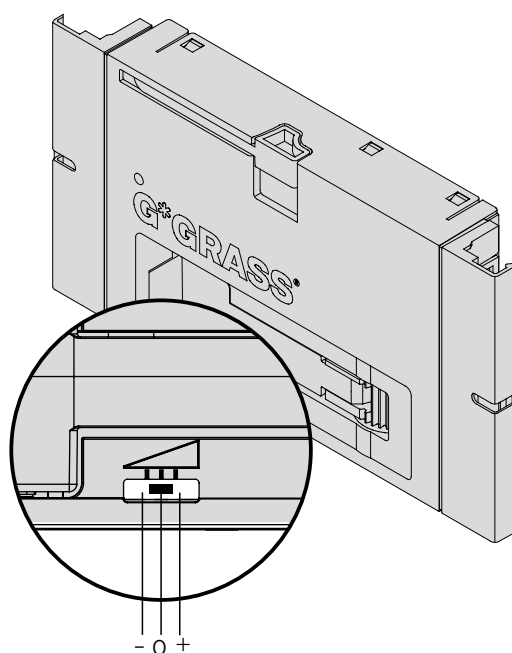


PAGE REFERENCES

Horizontal wooden stretcher	108	Back panel mounting	114	Drawer sides	28
Vertical wooden stretcher	110	Base panel mounting	116	Slides	42
Overhead mounting	112	Side panel mounting	118	Assembly technology	125

ADJUSTMENT

Variable drive force



NOTICE

- The cabinet must be level
- System must be disconnected from the power supply for installation and removal!
- Provide switched sockets
- For a cabinet width of 1200 mm and above, we recommend using 2 drive units. The synchronisation cable ensures that these units are activated simultaneously
- **Important:**
No screws should be inserted in the drawer back panel near the drive lever
- Up to 30 drive units can be operated per power supply unit (F121109970)

PROOF OF PERFORMANCE

- **Application area**
Only in dry, closed spaces
- **Power supply unit**
Power supply:
100 to 240 V
Mains frequency: 50 to 60 Hz
Max. power output: 120 W
Max. power output Single Set: 16 W
- **Drive unit**
Power supply: 24 V
- **Operating conditions**
Temperature: 0 to 50°C
Air humidity: 15 to 90%
Non-condensing

LEGEND

SYNK Synchronisation cable



SOPHISTICATED AND WELL-TESTED TECHNOLOGY FOR FAST, SAFE WORKING. THE VALUE OF A MOVEMENT SYSTEM IS MADE UP OF MANY INFLUENCING FACTORS. IN ADDITION TO VISUAL AND FUNCTIONAL PROPERTIES, THE FOCUS IS ON PERMANENTLY CONSISTENT QUALITY AND THE POSSIBILITIES FOR EFFICIENT PROCESSING. GRASS OFFERS PROFESSIONAL INSTALLATION AND ASSEMBLY AIDS FOR ALL PRODUCT FAMILIES, TAILORED TO THE MANUFACTURING TECHNOLOGY OF OUR SATISFIED CUSTOMERS.

Tecmator.
Strong. Fast.
Economical.



Along with the Tecmator drawer presses for the professional assembly of our drawer systems and the Tecmator drilling and insertion machines, GRASS offers a variety of useful accessories for trade and industry.



Tecmator Assembly Technology for Nova Pro Scala

Installation and assembly aids. Tried-and-tested technology for the professional and cost-effective assembly of GRASS movement systems.

Product description	Page
Tecmator ZP-N-E2 Industrial production of Nova Pro regular and pot drawers	126
Tecmator ZP-N-WOOD H186 Industrial production of Nova Pro regular and pot drawers	128
Tecmator ZMV-TP4 Semi-automatic assembly of regular and pot drawers	130
Tecmator ZMV-FIX H250 Mechanical assembly of regular and pot drawers	132
Assembly aids Nova Pro Scala	134

1

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4

TECMATOR ZP-N-E2

Industrial production of Nova Pro regular and pot drawers




- Suitable for press fitting Nova Pro Scala/One drawers
- Suitable for press fitting wood or steel back panels - selectable via switch
- Press fitting wooden back panels with Nova Pro Scala H250 (3 dowels) possible
- Simple and straightforward handling of individual parts on the machine
- Sturdy frame construction
- Suitable for series production
- Drawer width can be adjusted up to KB 1,200 mm
- Flexible drawer width adjustment using wooden back panel as template
- Smooth width adjustment with pneumatic clamping
- Short process times

Standard equipment:

- Press fitting of bottom spikes for all nominal lengths
- Stop set for KB 250-1,200 (50 mm increments)
- Stops for five wooden back panel heights

ORDER INFORMATION

	Model variant	Type	Compressed air supply	Width	Depth	Height	Weight	Art. no.
	ZP-N-E2	1.2 m	6 bar	1.9 m	1 m	2.2 m	220 kg	F146131003

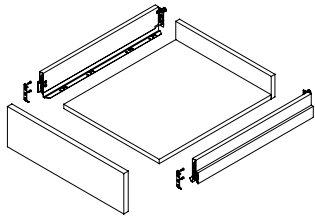
DECORATION PRESS FITTER

Description			Suitable for frame	Art. no.
<ul style="list-style-type: none"> • For press fitting Nova Pro One drawers 			Nova Pro One H90	F146131342

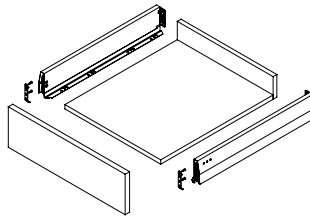
PAGE REFERENCES

Drawer sides	28	Designer panels	70	Sensomatic	105
Slides	42	Accessories	82	Assembly aids	134
Inset panels	56	Organising systems	93		

NOVA PRO SCALA



NOVA PRO ONE

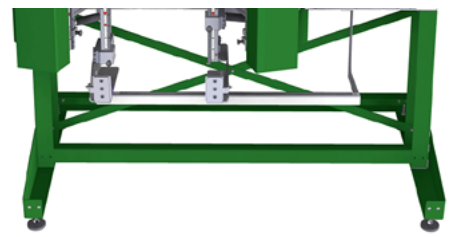
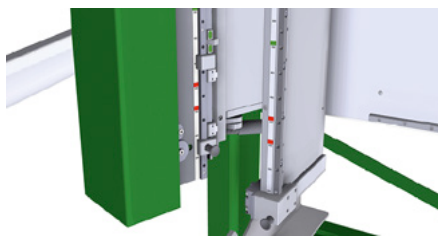


ADVANTAGES

Easy width adjustment thanks to pneumatic clamping

Straightforward handling of the individual parts on the machine

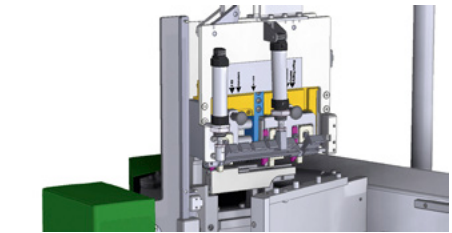
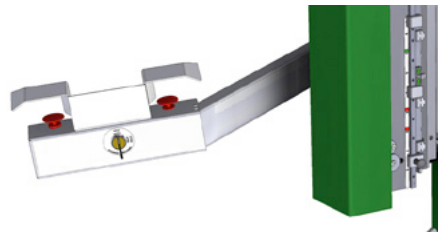
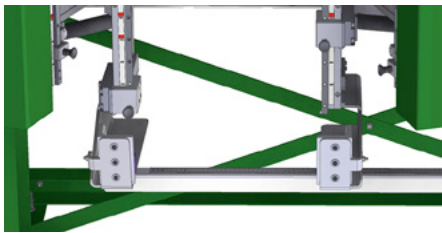
Very stable frame construction



Individual cabinet width adjustment via wooden back panel

Maximum safety thanks to two-hand control

Insertion unit for wooden back panels up to H250 with up to 3 dowels per side



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4

TECMATOR ZP-N-WOOD H186

Industrial production of Nova Pro regular and pot drawers



- Suitable for press fitting Nova Pro Scala/One drawers
- Suitable for press fitting wooden back panels up to a side wall depth of H186
- Simple and straightforward handling of individual parts on the machine
- Sturdy frame construction
- Suitable for series production
- Drawer width can be adjusted up to KB 1,200 mm
- Flexible drawer width adjustment using wooden back panel as template
- Smooth width adjustment
- Short process times

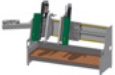
Standard equipment:

- Press fitting of bottom spikes for all nominal lengths
- Stop set for KB 250-1,200 (50 mm increments)
- Flexible drawer width adjustment using wooden back panel as template
- Flexible adjustment of the stops for wooden back panel heights

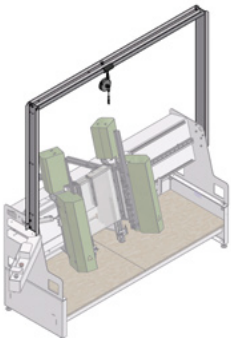
Notice:

- It is not possible to install side wall depth H250
- It is not possible to install steel back panels

ORDER INFORMATION

	Model variant	Compressed air supply	Width	Depth	Height	Weight		Art. no.
	ZP-N-Wood	6 bar	2.2 m	0.92 m	2.3 m	249 kg		F146132089

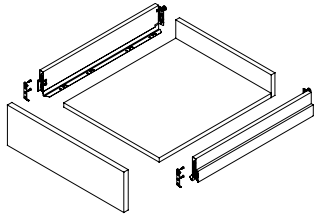
SUPERSTRUCTURE WITH PROVISION FOR PNEUMATIC SCREWDRIVERS

Description				Art. no.
<ul style="list-style-type: none"> • Superstructure with provision for pneumatic screwdrivers 				F146132370

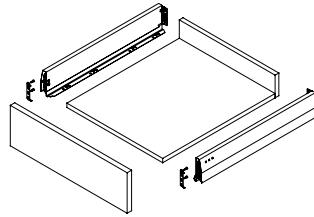
PAGE REFERENCES

Drawer sides	28	Designer panels	70	Sensomatic	105
Slides	42	Accessories	82	Assembly aids	134
Inset panels	56	Organising systems	93		

NOVA PRO SCALA

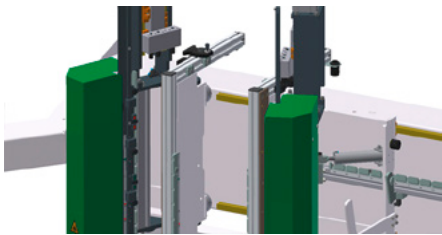


NOVA PRO ONE



ADVANTAGES

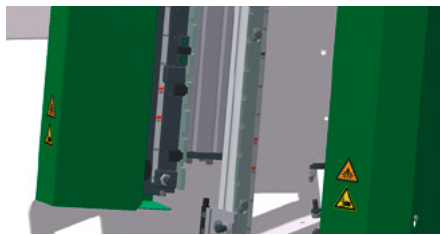
Easy width adjustment thanks to defined increments and flexible clamping lever



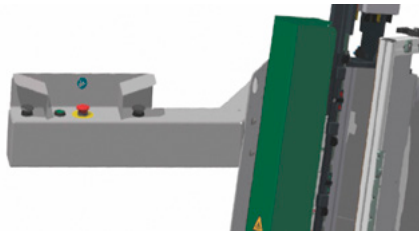
Flexible width adjustment via wooden back panel



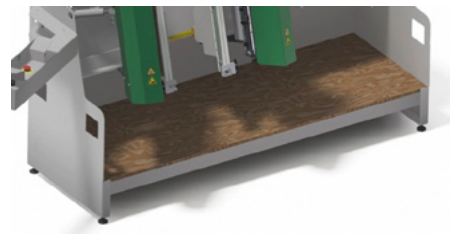
Machine stops can be adjusted manually with ease



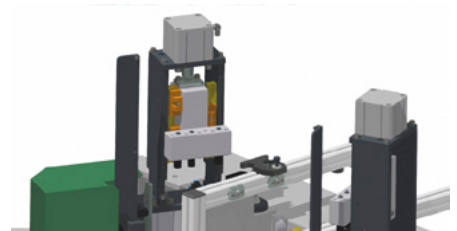
Maximum safety thanks to two-hand control



Sturdy frame construction ensures excellent stability



Dowel press fitting for wooden back panels up to side wall depth H186



1

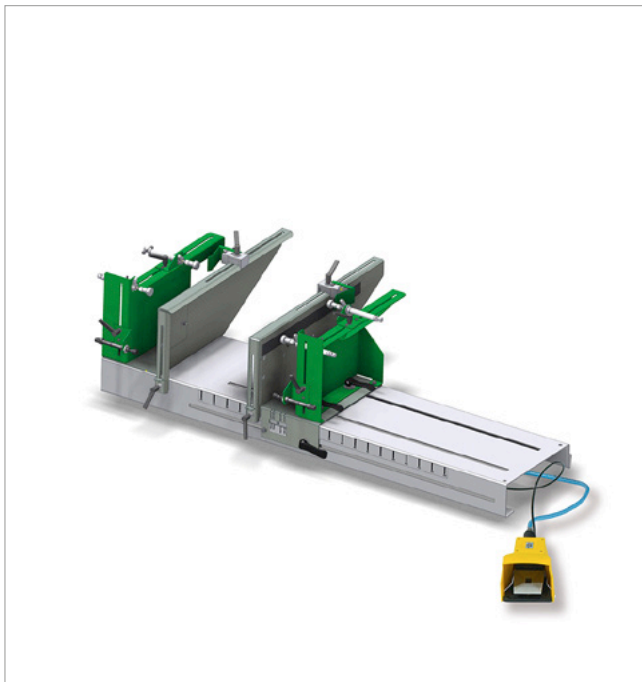
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4


TECMATOR ZMV-TP4

Semi-automatic assembly of regular and pot drawers



- Suitable for press-fitting Nova Pro Scala/One and Vionaro V13 drawers
- Pneumatic table top unit (drawer side height up to 250 mm)
- The ZMV-TP4 can be used to process drawers for outside cabinet widths of up to 1,200 mm
- Simple and straightforward handling
- Sturdy construction
- For small series production
- Pneumatic control
- High performance

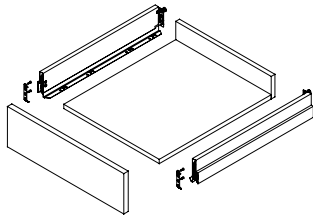
ORDER INFORMATION

	Model variant	Compressed air supply	Width	Depth	Height	Weight		Art. no.
	ZMV-TP4	6 bar	1.62 m	0.9 m	0.5 m	65 kg		F146108668

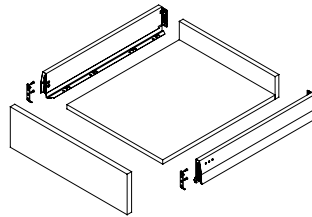
PAGE REFERENCES

Drawer sides	28	Designer panels	70	Sensomatic	105
Slides	42	Accessories	82	Assembly aids	134
Inset panels	56	Organising systems	93		

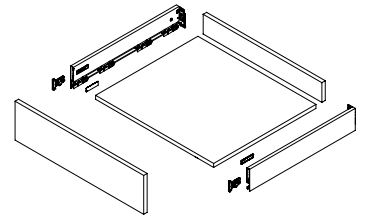
NOVA PRO SCALA



NOVA PRO ONE

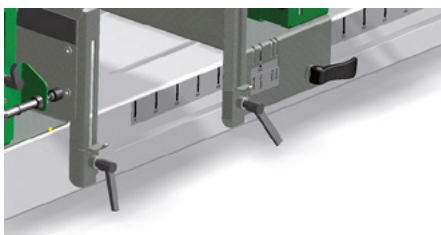


VIONARO V13

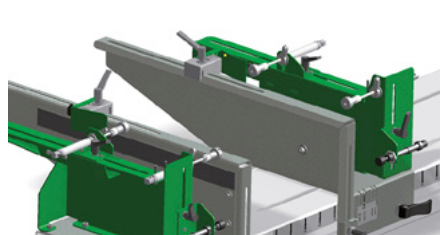


ADVANTAGES

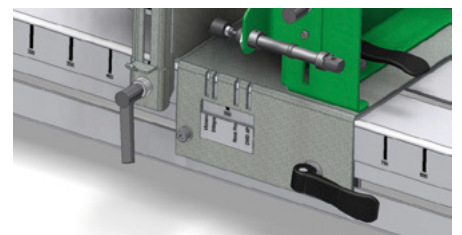
Tool-free setting



Sturdy base frame with pneumatic closing mechanism



All GRASS drawer systems can be processed



1

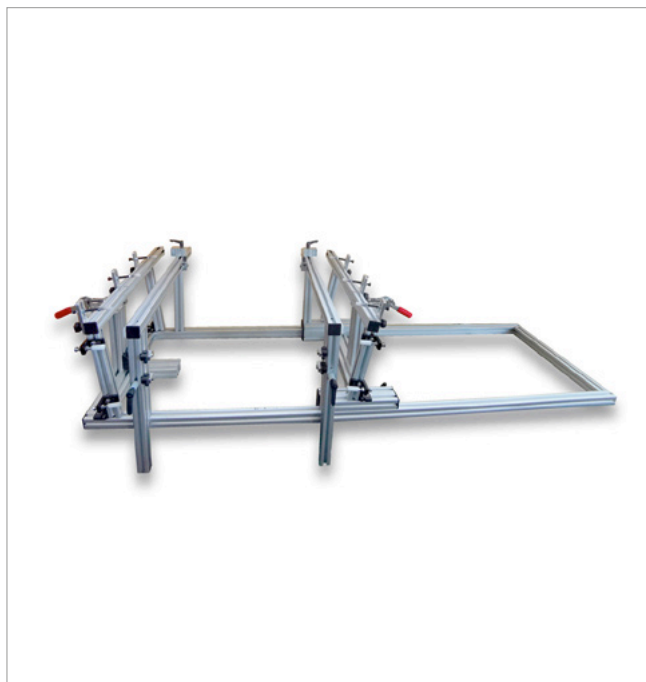
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TECMATOR ZMV-FIX H250

Mechanical assembly of regular and pot drawers



- Suitable for installation of all GRASS drawers and extensions
- Suitable for installation of wooden and steel back panels
- Simple and straightforward handling of individual parts on the machine
- Lightweight frame construction (10 kg)
- Suitable for individual production
- Drawer side heights up to 250 mm can be installed
- Drawer width can be adjusted up to KB 1200 mm
- Flexible drawer width adjustment using wooden back panel as template (standard)
- Smooth width adjustment


Standard equipment:

- Flexible adjustment of the stops for drawer depth
- Flexible adjustment of the stops for wooden back panel heights
- Flexible drawer width adjustment using wooden back panel as template

Notice:

- Wooden back panels with 8 mm and 16 mm thickness can be installed, but must be screwed in
- Steel back panels can be installed, but must be screwed in

ORDER INFORMATION

	Model variant	Width	Depth	Height	Weight			Art. no.
	ZMV-FIX H250	1.52 m	0.72 m	0.36 m	10 kg			F146132388

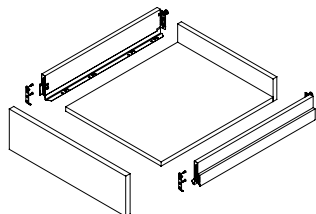
FIXED STOPS

Description			Functions	Art. no.
<ul style="list-style-type: none"> • For fixed adjustment of the back panel height 			Back panel height adjustment (fix)	F146132390

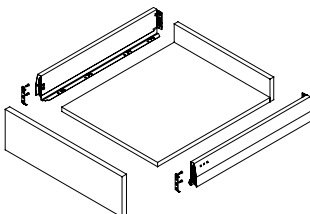
PAGE REFERENCES

Drawer sides	28	Designer panels	70	Sensomatic	105
Slides	42	Accessories	82	Assembly aids	134
Inset panels	56	Organising systems	93		

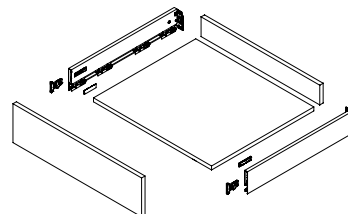
NOVA PRO SCALA



NOVA PRO ONE



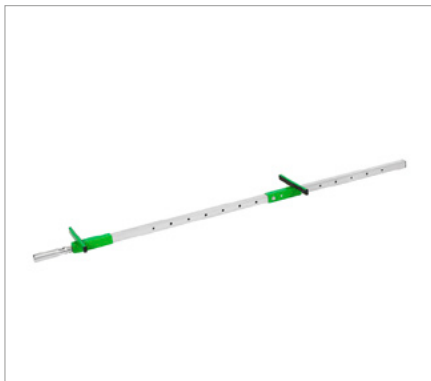
VIONARO V13



- 1
- 2
- 3
- 4

ASSEMBLY AIDS

Nova Pro Scala



DRAWER CLAMP

- For easy assembly of regular and pot drawers up to a cabinet width of 1200 mm
- Can be used for all drawer side heights

Product type	Art. no.
Drawer clamp	F146108833



DRILLING JIG FOR CABINET RAIL

Guide rule (1 x), stop elements (4 x), stop plates (2 x)

Product type	Art. no.
Drilling jig	F146094730



STOP ELEMENT INDIVIDUAL

- For extension of the drilling jig, cabinet rail F146094730

Product type	Art. no.
Individual marking element	F146094721



DRILLING JIG FOR CABINET RAIL

- For use with pilot drill bit F146035692

	Art. no.
	F146134452

PAGE REFERENCES

Drawer sides	28	Designer panels	70	Sensomatic	105
Slides	42	Accessories	82	Assembly technology	125
Inset panels	56	Organising systems	93		



WOOD DRILL BIT WITH STOP RING

- Used for pre-drilling holes for Euro screws
- Length 85 mm
- With stop ring

Diameter	Art. no.
5 mm	F146092594



DRILLING JIG SET

- Drilling jig for front-bottom panel connectors
- For drilling the bottom panel of extra-wide drawers when using the GRASS front-bottom panel connector.

Drilling jig (1x), marking jig (1x), drill bit dia. 8 mm (1x), drill bit dia. 15 mm (1x), bit for drill (1x), Allen key 3 mm (1x), Allen key 4 mm (1x)

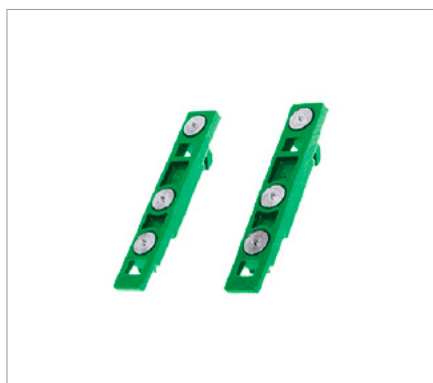
Product type	Art. no.
Drilling jig	F146094770



REPLACEMENT DRILL BIT

- Replacement drill bit for drilling jig set

Diameter	Art. no.
8 mm	F146094755
15 mm	F146094757



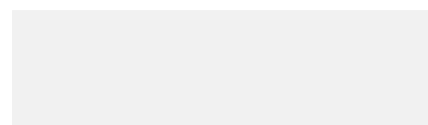
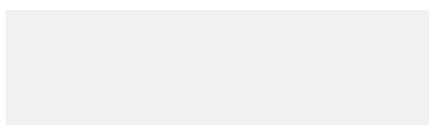
MARKING JIG SET

- For precise centre punching of holes for the Nova Pro installation hook

Suitable for frame	Art. no.
Nova Pro Scala H63	F146094036
Nova Pro Scala H90	F146092050
Nova Pro Scala H122	
Nova Pro One H90	F146101908
Nova Pro Scala H186	
Nova Pro Scala H250	
Nova Pro Scala Crystal Plus	

LEGEND

H	Height



ASSEMBLY AIDS

Nova Pro Scala



FRONT DRILLING JIG

- Front drilling jig for front holder, railing and add-on systems
- Can be used universally for front holes on drawer side heights
- Stable support due to high-quality aluminium construction

Product type	Art. no.
Drilling jig	F146130983



FRONT DRILLING JIG FOR F8 INSET PANEL

- For pre-drilling holes for the F8 inset panel

Product type	Art. no.
Drilling jig	F146102908



INSTALLATION HOOK PUNCHING TOOL

- Place, position and punch the installation hook for Nova Pro

Suitable for frame	Art. no.
Nova Pro One H90	F146091555
Nova Pro Scala H90	
Nova Pro Scala H122	
Nova Pro Scala H186	
Nova Pro Scala H250	
Nova Pro Scala Crystal Plus	F146094035
Nova Pro Scala H63	



FRONT CLIP PUNCHING TOOL

- Place, position and punch the front clip for Nova Pro Scala

Suitable for frame	Art. no.
Nova Pro Scala H186	F146102472
Nova Pro Scala H250	
Nova Pro Scala Crystal Plus	

PAGE REFERENCES

Drawer sides	28	Designer panels	70	Sensomatic	105
Slides	42	Accessories	82	Assembly technology	125
Inset panels	56	Organising systems	93		



RAILING CLIP PUNCHING TOOL

- Place, position and punch the press-fit railing clip for Nova Pro

Suitable for frame	Art. no.
Nova Pro One Nova Pro Scala	F146102473



BOTTOM SPIKE PUNCHING TOOL

- Position the punching tool on the bottom spike and punch in
- Quick, easy installation: The bottom spikes integrated into the drawer side ensure secure attachment between the drawer side and the bottom panel

Suitable for frame	Art. no.
Nova Pro One Nova Pro Scala	F146130853



PUNCHING TOOL FRONT-BOTTOM PANEL CONNECTOR

- Place, position and punch the front-bottom panel connector

Suitable for	Art. no.
Front-ground connector	F146083271



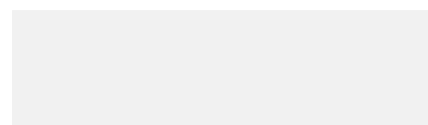
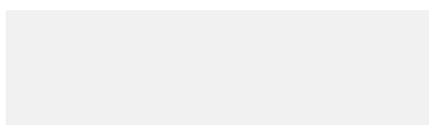
PILOT DRILL BIT

- The pilot drill bit is used for pre-drilling holes for countersunk chipboard screws

Diameter	Art. no.
3.5 mm	F146035692

LEGEND

H	Height



Nova Pro One is
the best of Nova Pro.

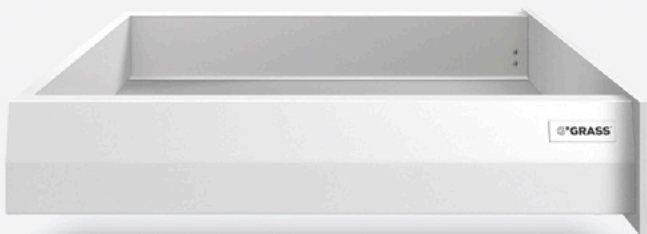


FOLLOW US

nova pro one.



Nova Pro One.
The complexity
minimiser.



A H90 drawer side, a rectangular railing and glass holders that can be retrofitted by simply clipping them between the railing and the drawer side. When used in combination with slide technology that has been proven millions of times over and the matching accessories for the Nova Pro Scala series, Nova Pro One becomes a highly efficient drawer system.

Nova Pro One Drawer System

Nova Pro One is the ideal entry into the Nova Pro universe. The drawer system combines the best of Nova Pro Scala in a compact assortment.

	<p>Nova Pro One 144</p> <p>The little brother of the Nova Pro Scala offers a compact range that combines maximum efficiency with minimal complexity.</p>	<p>1</p>
	<p>Dividing and Organising Systems 187</p> <p>Organising. Dividing. Fitting out. Useful helpers when it comes to organising storage space.</p>	<p>2</p>
	<p>Assembly Technology 197</p> <p>Installation and assembly aids. Tried-and-tested technology for professional efficiency.</p>	<p>3</p>
<hr/>		<p>4</p>

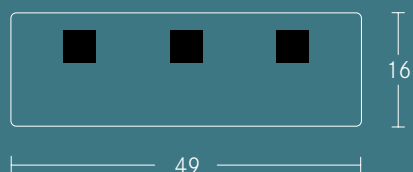
Nova Pro One. The new number one when it comes to a compact range, performance proven millions of times over and maximum differentiation.



Over the years, Nova Pro has become synonymous with particularly easy opening, excellent running characteristics and optimal reliability - it is one of the most successful double-wall full-extension slides in the world. The basis for the entire system is the fully synchronised slide rail, proven millions of times over.

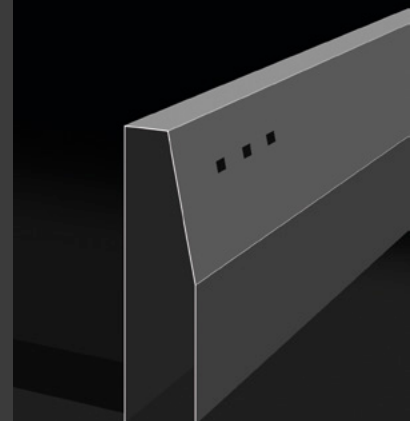
Three squares as a distinguishing feature.

Nova Pro One offers another special feature: Distinctive decorative punching with three squares that also allow the branding clip to be attached.

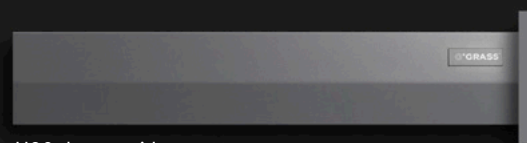


Modern drawer side design with light reflector.

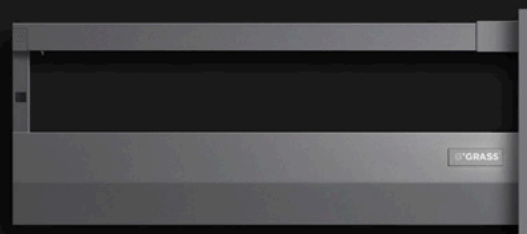
The design of the modern drawer side deliberately plays with the light. The angled surface serves as a light reflector, which gives the drawer a wonderfully new look.



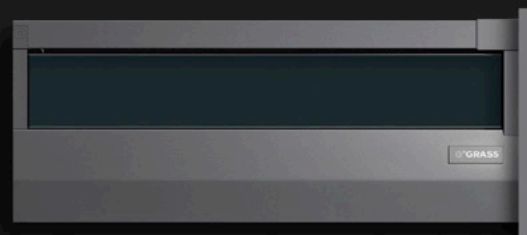
A product range that is designed to work optimally together means no other drawer system offers more options for reducing complexity.



H90 drawer side



H90 drawer side, rectangular railing



H90 drawer side, rectangular railing with crystal glass holders that can be retrofitted

Elegant. With or without a branding clip.

The fact that you can use Nova Pro One both with or without a branding clip makes everyday life easier in many ways. This small detail provides more flexibility and also creates another option for differentiation.

G*GRASS®



The Nova Pro One glass add-on can be easily retrofitted: Simply clip it in between the drawer side and the railing - no need for tools. The glass holders nestle inconspicuously against the drawer side, rendering them almost invisible.



Tavinea Sorto. Everything perfectly sorted.

Thanks to the unique Nova Pro platform concept, all interior accessory systems from Nova Pro Scala fit perfectly into Nova Pro One drawers. Not only are the dimensions identical, but the material, shape, colours and surfaces are also precisely matched to both systems.



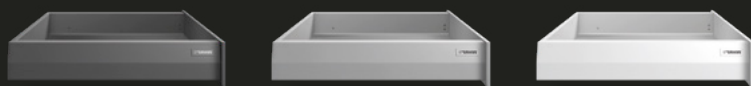
F8 concealed panels for drawers and extensions.

Similarly to the Tavinea interior accessory system, closed F8 concealed panels are also fully compatible with the Nova Pro Scala series. Whether you choose the H90 concealed panel or the high H186 concealed panel for the railing drawer, these elegant concealed panels will fit perfectly in Nova Pro One drawer systems.



Nova Pro One offers new effect powder coatings and high-tech surfaces for better climate protection. Choose from our three standard colours.

ONE COLOURS



STONE

SILVER

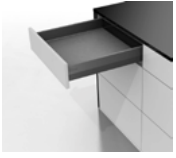
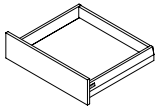
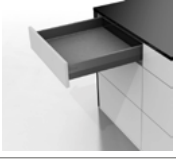
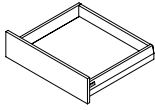

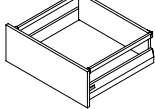

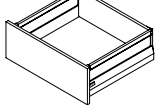

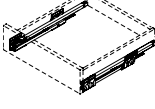

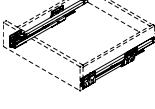

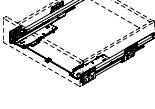

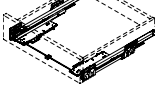

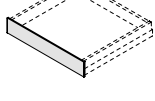
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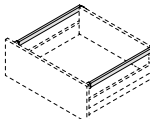
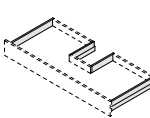
The Nova Pro colour palette sets new standards in terms of ecological considerations. By using environmentally friendly high-performance powders and energy-saving low-temperature technology, each individual drawer ensures greater sustainability. It goes without saying that all GRASS surfaces also fulfil a protective function, that they are durable, scratch-resistant and resistant to household chemicals.



Nova Pro One Drawer System

Nova Pro One is the ideal entry into the Nova Pro universe. The drawer system combines the best of Nova Pro Scala in a compact assortment.

	Description		Page
	Nova Pro One Drawer H90 - single set <ul style="list-style-type: none"> All components including slides included in practical set packaging Individual parts are neatly sorted and right where you need them Space-saving storage thanks to low packaging volume 		146
	Nova Pro One Drawer H90 <ul style="list-style-type: none"> The practical standard drawer for every application Integrated height and side adjustment Straight inside surfaces and narrow installation width ensure optimal utilisation of space 		148
	Nova Pro One Pot drawer H90 with rectangular railing <ul style="list-style-type: none"> Rectangular railing in harmonised design Flush-mounted back panel adapter Integrated height and side adjustment 		150
	Nova Pro One Crystal Pot drawer for slide-in elements, height 66 mm <ul style="list-style-type: none"> Rail drawer with modular adapters for slide-in elements No need to machine the slide-in elements Adapters for slide-in elements in a harmonised design 		152
	Nova Pro Soft-close S16/S19 Full extension slide 40/70 kg <ul style="list-style-type: none"> Installation width 29 mm Use with S16 and S19 Excellent running characteristics Fully synchronised slide technology 		154
	Nova Pro Soft-close S18 Full extension slide 40/70 kg <ul style="list-style-type: none"> Installation width 30 mm Use with S18 Excellent running characteristics Fully synchronised slide technology 		156
	Nova Pro Tipmatic Soft-close S16/S19 Full extension slide 40/70 kg <ul style="list-style-type: none"> Mechanical opening system Combines Tipmatic function with Soft-close damper Installation width 29 mm Use with S16 and S19 		158
	Nova Pro Tipmatic Soft-close S18 Full extension slide 40/70 kg <ul style="list-style-type: none"> Mechanical opening system Combines Tipmatic function with Soft-close damper Installation width 30 mm Use with S18 		160
	Nova Pro One F8 inset panel for inset drawer H90 <ul style="list-style-type: none"> Colour-coordinated aluminium trim panel Smooth inside and outside surfaces provide a high-quality look Same dimensions as standard drawers (inside depth) 		162

	Description		Page
	<p>Nova Pro One F8 inset panel for inset drawer H90 with rectangular railing</p> <ul style="list-style-type: none"> • Colour-coordinated aluminium trim panel • Smooth inside and outside surfaces provide a high-quality look • Same dimensions as standard drawers (inside depth) 		164
	<p>Nova Pro Scala Rectangular railing - individual components</p> <ul style="list-style-type: none"> • Easy assembly • Can be ordered as individual parts 		166
	<p>Nova Pro One Cross and longitudinal divider</p> <ul style="list-style-type: none"> • Easy assembly • Can be ordered as individual parts 		168
	<p>Nova Pro One Oval railing for filing drawer</p> <ul style="list-style-type: none"> • For use with Nova Pro One H90 frames • Oval, naturally oxidised aluminium tube with high bending resistance and scratch-resistant surface • High stability and load capacity thanks to secure screw connection to the front and back panels • Tool-free tilt angle adjustment via oval railing 		170
	<p>Nova Pro One Sink drawer with low back panel</p> <ul style="list-style-type: none"> • Sink back panel retainer for Nova Pro One H90 with rectangular railing • Enables the quick and easy production of drawers with recesses for under-sink plumbing and a rectangular wooden back panel - no special cutting needed • Colour matched to all Nova Pro frames 		172
	<p>Application example Sink drawer with cut-out</p> <ul style="list-style-type: none"> • Maximum storage space utilisation in the sink area through individual combination with shorter drawer sides • Easy assembly with standard Nova Pro products • Variable width, variable cut-out 		174
	<p>Nova Pro One Side stabilising device</p>		176
	<p>Nova Pro One Accessories</p>		178
	<p>Nova Pro One Technical information</p>		182

1

2

3

4

NOVA PRO ONE

Drawer H90 - single set

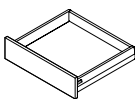


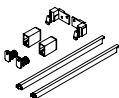
- All components including slides included in practical set packaging
- Individual parts are neatly sorted and right where you need them
- Space-saving storage thanks to low packaging volume
- Same installation dimensions as the Nova Pro Scala
- Compatible with Nova Pro Scala accessories

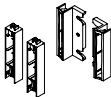
Notice:

- Front-base connector recommended for KB 800 mm and above (see accessories)

ORDER INFORMATION

1	Nova Pro One Drawer H90, soft-close, 40 kg Set: H90 drawer sides incl. branding clips with GRASS logo (embossed), slides (Soft-close, 40 kg), installation hooks with chipboard screws and dowels (loose)			
	NL	Ice	Silver	Stone
270	F100133669	F100134085	F100133677	
300	F100133670	F100134086	F100133678	
350	F100133671	F100134087	F100133679	
400	F100133672	F100134088	F100133680	
450	F100133673	F100134089	F100133681	
500	F100133674	F100134090	F100133682	
550	F100133675	F100134091	F100133683	
600	F100133676	F100134092	F100133684	

2	Nova Pro One Rectangular railing, screw fitting, for wooden back panels page 150	
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3	Nova Pro One Crystal Fixing for wooden back panel page 152	
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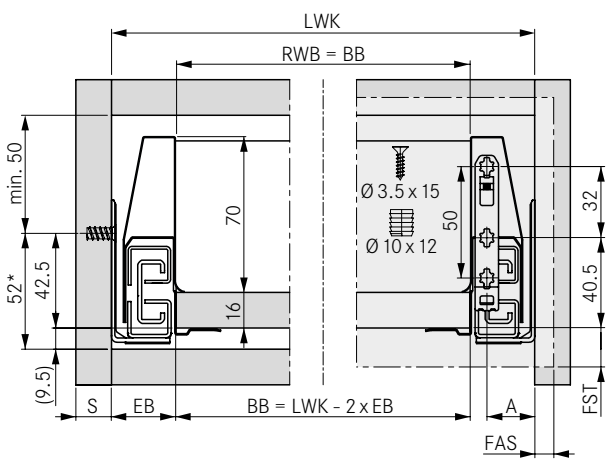
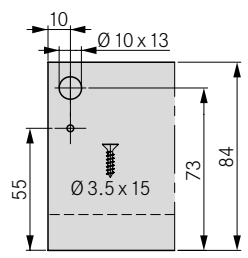
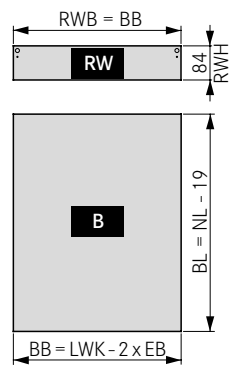
	Nova Pro Front support for high fronts page 178	
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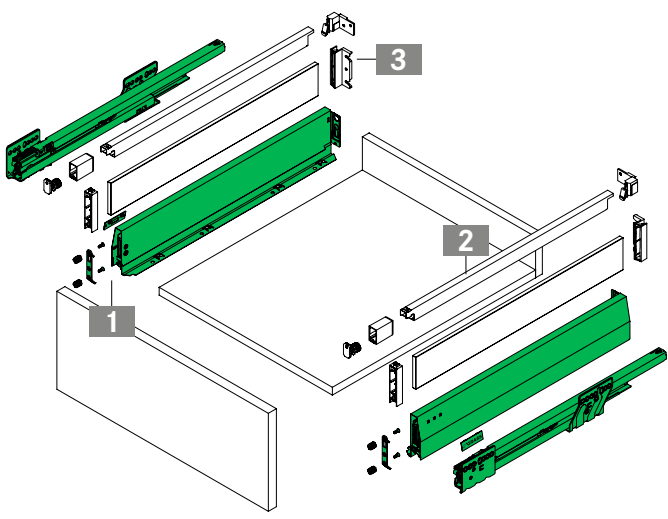
PAGE REFERENCES

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Slides	154	Accessories	178	Assembly technology	197
Inset panels	162	Technical information	182	Assembly aids	206

PLANNING INFORMATION

All dimensions in millimetres

Front panel installation dimensions	Installation dimensions for back panel	Cutting dimensions for 16 mm chipboard												
														
<table border="1"> <thead> <tr> <th>Slide</th> <th>S</th> <th>16/19</th> <th>18</th> </tr> </thead> <tbody> <tr> <td>EB</td> <td>29</td> <td>30</td> <td></td> </tr> <tr> <td>A</td> <td>21.5</td> <td>22.5</td> <td></td> </tr> </tbody> </table> <p>Note: Slide available in two versions: S16/S19 and S18. See the chapter on slides.</p>		Slide	S	16/19	18	EB	29	30		A	21.5	22.5		
Slide	S	16/19	18											
EB	29	30												
A	21.5	22.5												
<p>* Recommendation/minimum dimension: 49.5 mm/Tipmatic Soft-close: 58 mm</p>														

Exploded Drawing


LEGEND

B	Bottom panel	FAS	Front overlay, side	RW	Back panel
BB	Bottom panel width	FST	Front overhang	RWB	Back panel width
BL	Bottom panel length	LWK	Inside cabinet width	RWH	Back panel height
EB	Installation width	NL	Nominal length	S	Side wall thickness



NOVA PRO ONE

Drawer H90



- The practical standard drawer for every application
- Integrated height and side adjustment
- Straight inside surfaces and narrow installation width ensure optimal utilisation of space
- Sturdy construction and high degree of stability
- Tool-free assembly and removal of the front
- Same bottom panel and back panel width
- No need to machine the bottom panel
- Same installation dimensions as the Nova Pro Scala

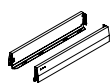
- Compatible with the Nova Pro Scala accessories

Notice:

- Front-base connector recommended for KB 800 mm and above (see accessories)

ORDER INFORMATION

1 Nova Pro One Drawer sides H90 Piece				
NL	Ice	Ice	Silver	Silver
	Left	Right	Left	Right
270	F100133548	F100133549	F100133995	F100133996
300	F100133551	F100133552	F100133998	F100133999
350	F100133554	F100133555	F100134001	F100134002
400	F100133557	F100133558	F100134004	F100134005
450	F100133560	F100133561	F100134007	F100134008
500	F100133563	F100133564	F100134010	F100134011
550	F100133566	F100133567	F100134013	F100134014
600	F100133569	F100133570	F100134016	F100134017
650	F100133572	F100133573	F100134019	F100134020
NL	Stone	Stone		
	Left	Right		
270	F100133521	F100133522		
300	F100133524	F100133525		
350	F100133527	F100133528		
400	F100133530	F100133531		
450	F100133533	F100133534		
500	F100133536	F100133537		
550	F100133539	F100133540		
600	F100133542	F100133543		
650	F100133545	F100133546		



3 Nova Pro One branding clip Piece: Left or right			
Design	Ice	Silver	Stone
With GRASS Logo	F102133595	F102134024	F102133594



Nova Pro Slides page 154	

Nova Pro Front support for high fronts page 178	

2 Installation hook Piece: Left or right		
BLA	Mounting material	Art. no.
32	Dowel (pre-mounted)	F102021854
32	Expansion dowel (pre-mounted)	F102117719
32/50	Screw (excl.)	F102021855
50	Dowel (pre-mounted)	F102021153
50	Expansion dowel (pre-mounted)	F102117720

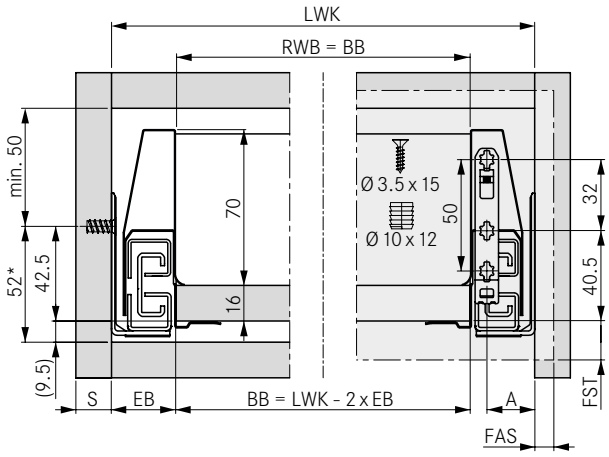
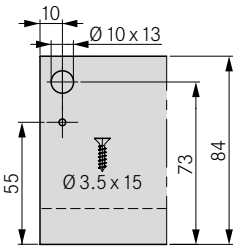
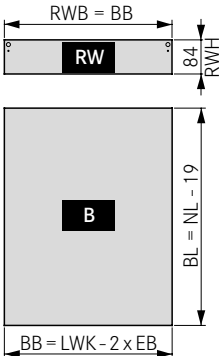


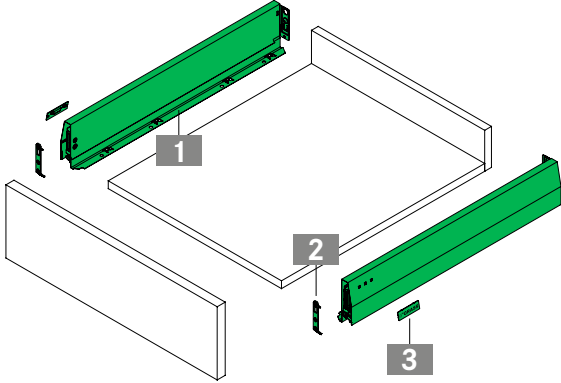
PAGE REFERENCES

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Rectangular railing	150	Application examples	174	Organising systems	187
Slides	154	Accessories	178	Assembly technology	197

PLANNING INFORMATION

All dimensions in millimetres

Front panel installation dimensions	Installation dimensions for back panel	Cutting dimensions for 16 mm chipboard												
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Slide														
S	16/19	18												
EB	29	30												
A	21.5	22.5												
<p>* Recommendation/minimum dimension: 49.5 mm/Tipmatic Soft-close: 58 mm</p>														

Exploded Drawing	
	

LEGEND

B	Bottom panel	EB	Installation width	NL	Nominal length
BB	Bottom panel width	FAS	Front overlay, side	RW	Back panel
BL	Bottom panel length	FST	Front overhang	RWB	Back panel width
BLA	Drill hole distance	LWK	Inside cabinet width	RWH	Back panel height



NOVA PRO ONE

Pot drawer H90 with rectangular railing



- Rectangular railing in harmonised design
- Flush-mounted back panel adapter
- Integrated height and side adjustment
- Tilt angle adjustment via railing
- Straight inside surfaces and narrow installation width ensure optimal utilisation of space
- Tool-free assembly and removal of the front
- Same bottom panel and back panel width
- No need to machine the bottom panel
- Same installation dimensions as the Nova Pro Scala

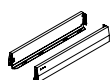
- Compatible with the Nova Pro Scala accessories

Notice:

- Front-base connector recommended for KB 800 mm and above (see accessories)

ORDER INFORMATION

1 Nova Pro One Drawer sides H90 Piece				
NL	Ice	Ice	Silver	Silver
	Left	Right	Left	Right
270	F100133548	F100133549	F100133995	F100133996
300	F100133551	F100133552	F100133998	F100133999
350	F100133554	F100133555	F100134001	F100134002
400	F100133557	F100133558	F100134004	F100134005
450	F100133560	F100133561	F100134007	F100134008
500	F100133563	F100133564	F100134010	F100134011
550	F100133566	F100133567	F100134013	F100134014
600	F100133569	F100133570	F100134016	F100134017
650	F100133572	F100133573	F100134019	F100134020
NL	Stone	Stone		
	Left	Right		
270	F100133521	F100133522		
300	F100133524	F100133525		
350	F100133527	F100133528		
400	F100133530	F100133531		
450	F100133533	F100133534		
500	F100133536	F100133537		
550	F100133539	F100133540		
600	F100133542	F100133543		
650	F100133545	F100133546		



3 Installation hook Piece: Left or right		
BLA	Mounting material	Art. no.
32	Dowel (pre-mounted)	F102021854
32	Expansion dowel (pre-mounted)	F102117719
32/50	Screw (excl.)	F102021855
50	Dowel (pre-mounted)	F102021153
50	Expansion dowel (pre-mounted)	F102117720



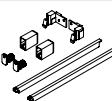
4 Nova Pro One branding clip Piece: Left or right			
Design	Ice	Silver	Stone
With GRASS Logo	F102133595	F102134024	F102133594



Nova Pro Slides page 154	

Nova Pro Front support for high fronts page 178	

2 Nova Pro Rectangular railing, screw fitting, for wooden back panels Set: Rectangular railing, Railing clip, Cover cap				
NL	Ice	Silver	Stone	
270	F102103525	F102103534	F102103516	
300	F102103526	F102103535	F102103517	
350	F102103527	F102103536	F102103518	
400	F102103528	F102103537	F102103519	
450	F102103529	F102103538	F102103520	
500	F102103530	F102103539	F102103521	
550	F102103531	F102103540	F102103522	
600	F102103532	F102103541	F102103523	
650	F102103533	F102103542	F102103524	

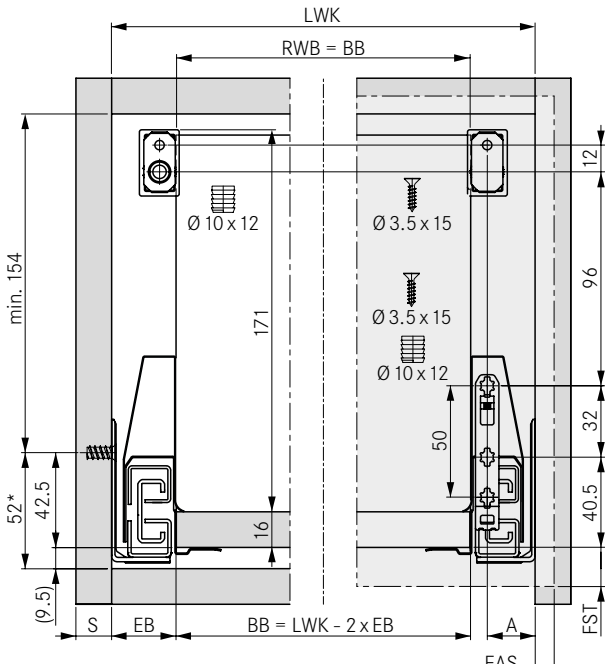
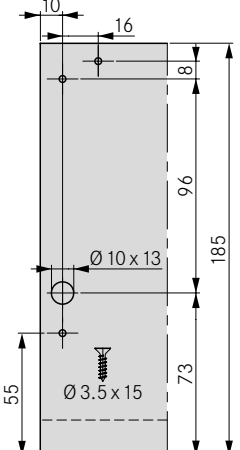
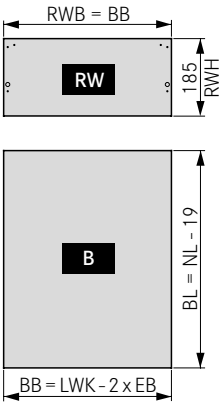


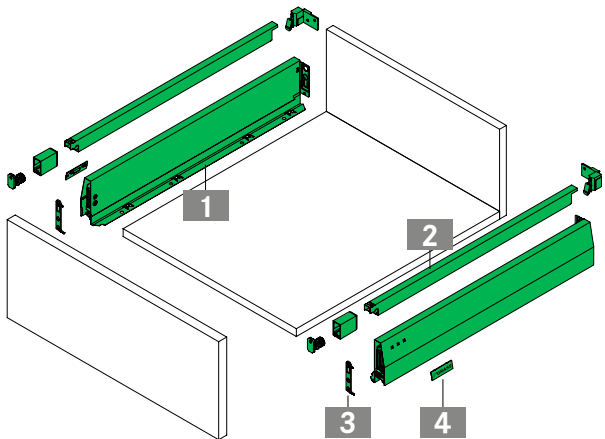
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Inset panels	164	Accessories	178	Assembly technology	197

PLANNING INFORMATION

All dimensions in millimetres

Front panel installation dimensions	Installation dimensions for back panel	Cutting dimensions for 16 mm chipboard												
	 <table border="1"> <thead> <tr> <th>Slide</th> <th>S</th> <th>16/19</th> <th>18</th> </tr> </thead> <tbody> <tr> <td>EB</td> <td>29</td> <td></td> <td>30</td> </tr> <tr> <td>A</td> <td>21.5</td> <td></td> <td>22.5</td> </tr> </tbody> </table> <p>Note: Slide available in two versions: S16/S19 and S18. See the chapter on slides.</p>	Slide	S	16/19	18	EB	29		30	A	21.5		22.5	
Slide	S	16/19	18											
EB	29		30											
A	21.5		22.5											
<p>* Recommendation/minimum dimension: 49.5 mm/Tipmatic Soft-close: 58 mm</p>														

Exploded Drawing	
	

LEGEND

B	Bottom panel	EB	Installation width	NL	Nominal length
BB	Bottom panel width	FAS	Front overlay, side	RW	Back panel
BL	Bottom panel length	FST	Front overhang	RWB	Back panel width
BLA	Drill hole distance	LWK	Inside cabinet width	RWH	Back panel height



NOVA PRO ONE CRYSTAL

Pot drawer for slide-in elements, height 66 mm



- Railing drawer with modular adapters for slide-in elements
- No need to machine the slide-in elements
- Adapters for slide-in elements in a harmonised design
- Integrated height and side adjustment
- Tilt angle adjustment via railing
- Straight inside surfaces and narrow installation width ensure optimal utilisation of space
- Tool-free assembly and removal of the front
- Same bottom panel and back panel width
- No need to machine the bottom panel

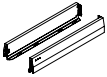
- Same installation dimensions as the Nova Pro Scala
- Compatible with the Nova Pro Scala accessories

Notice:

- When using glass slide-in elements, we recommend single-pane safety glass (ESG); please refer to national and international safety standards
- Front-base connector recommended for KB 800 mm and above (see accessories)

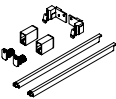
ORDER INFORMATION

1 Nova Pro One Drawer sides H90
Piece



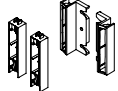
NL	Ice	Ice	Silver	Silver
	Left	Right	Left	Right
270	F100133548	F100133549	F100133995	F100133996
300	F100133551	F100133552	F100133998	F100133999
350	F100133554	F100133555	F100134001	F100134002
400	F100133557	F100133558	F100134004	F100134005
450	F100133560	F100133561	F100134007	F100134008
500	F100133563	F100133564	F100134010	F100134011
550	F100133566	F100133567	F100134013	F100134014
600	F100133569	F100133570	F100134016	F100134017
650	F100133572	F100133573	F100134019	F100134020
NL	Stone	Stone		
	Left	Right		
270	F100133521	F100133522		
300	F100133524	F100133525		
350	F100133527	F100133528		
400	F100133530	F100133531		
450	F100133533	F100133534		
500	F100133536	F100133537		
550	F100133539	F100133540		
600	F100133542	F100133543		
650	F100133545	F100133546		

2 Nova Pro Rectangular railing, screw fitting, for wooden back panels
Set: Rectangular railing, Railing clip, Cover cap




NL	Ice	Silver	Stone	
270	F102103525	F102103534	F102103516	
300	F102103526	F102103535	F102103517	
350	F102103527	F102103536	F102103518	
400	F102103528	F102103537	F102103519	
450	F102103529	F102103538	F102103520	
500	F102103530	F102103539	F102103521	
550	F102103531	F102103540	F102103522	
600	F102103532	F102103541	F102103523	
650	F102103533	F102103542	F102103524	

3 Nova Pro One Crystal fixing for wooden back panels
Set: Glass clip



Mounting material	Ice	Silver	Stone
Chipboard screw (excl.)	F102133519	F102133993	F102133518

4 Installation hook
Piece: Left or right



BLA	Mounting material	Art. no.
32	Dowel (pre-mounted)	F102021854
32	Expansion dowel (pre-mounted)	F102117719
32/50	Screw (excl.)	F102021855
50	Dowel (pre-mounted)	F102021153
50	Expansion dowel (pre-mounted)	F102117720

5 Nova Pro One branding clip
Piece: Left or right



Design	Ice	Silver	Stone
With GRASS Logo	F102133595	F102134024	F102133594

Nova Pro Slides
page 154



Nova Pro Front support for high fronts
page 178



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PLANNING INFORMATION

All dimensions in millimetres

Front panel installation dimensions	Installation dimensions for back panel	Cutting dimensions for 16 mm chipboard												
	<table border="1"> <thead> <tr> <th>Slide</th> <th>16/19</th> <th>18</th> </tr> </thead> <tbody> <tr> <td>S</td> <td>16/19</td> <td>18</td> </tr> <tr> <td>EB</td> <td>29</td> <td>30</td> </tr> <tr> <td>A</td> <td>21.5</td> <td>22.5</td> </tr> </tbody> </table> <p>Note: Slide available in two versions: S16/S19 and S18. See the chapter on slides.</p>	Slide	16/19	18	S	16/19	18	EB	29	30	A	21.5	22.5	<p>Cutting dimensions of slide-in element</p>
Slide	16/19	18												
S	16/19	18												
EB	29	30												
A	21.5	22.5												
<p>* Recommendation/minimum dimension: 49.5 mm/Tipmatic Soft-close: 58 mm</p>		<p>* Glass slide-in element</p>												

Exploded Drawing	

LEGEND

B	Bottom panel	EB	Installation width	NL	Nominal length
BB	Bottom panel width	FAS	Front overlay, side	RW	Back panel
BL	Bottom panel length	FST	Front overhang	RWB	Back panel width
BLA	Drill hole distance	LWK	Inside cabinet width	RWH	Back panel height



NOVA PRO SOFT-CLOSE S16/S19

Full extension slide 40/70 kg



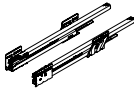
- Excellent running characteristics
- Fully synchronised slide technology
- Soft-close damping system
- Limit stop damper
- Maximum side stability
- Minimum drawer deflection
- Suitable for all Nova Pro drawer sides

Notice:

- For use with cabinet side wall S16 and S19 mm
- Installation width 29 mm
- See planning dimensions

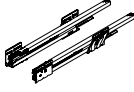
ORDER INFORMATION

1 Nova Pro Full extension slide 40 kg Soft-close S16/S19

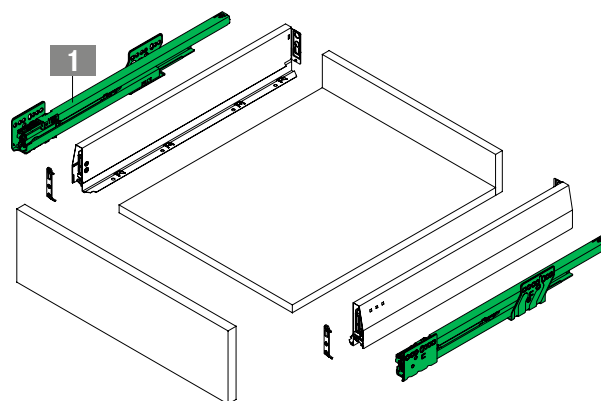


NL	40 kg	40 kg	40 kg	
	Left, Right	Left	Right	
270	F101108261	F101108262	F101108263	
300	F101108264	F101108265	F101108266	
350	F101108267	F101108268	F101108269	
400	F101108270	F101108271	F101108272	
450	F101108273	F101108274	F101108275	
500	F101108276	F101108277	F101108278	
550	F101108279	F101108280	F101108281	
600	F101108282	F101108283	F101108284	

1 Nova Pro Full extension slide 70 kg Soft-close S16/S19



NL	70 kg	70 kg	70 kg	
	Left, Right	Left	Right	
450	F101108285	F101108286	F101108287	
500	F101108288	F101108289	F101108290	
550	F101108291	F101108292	F101108293	
600	F101108294	F101108295	F101108296	
650	F101108297	F101108298	F101108299	

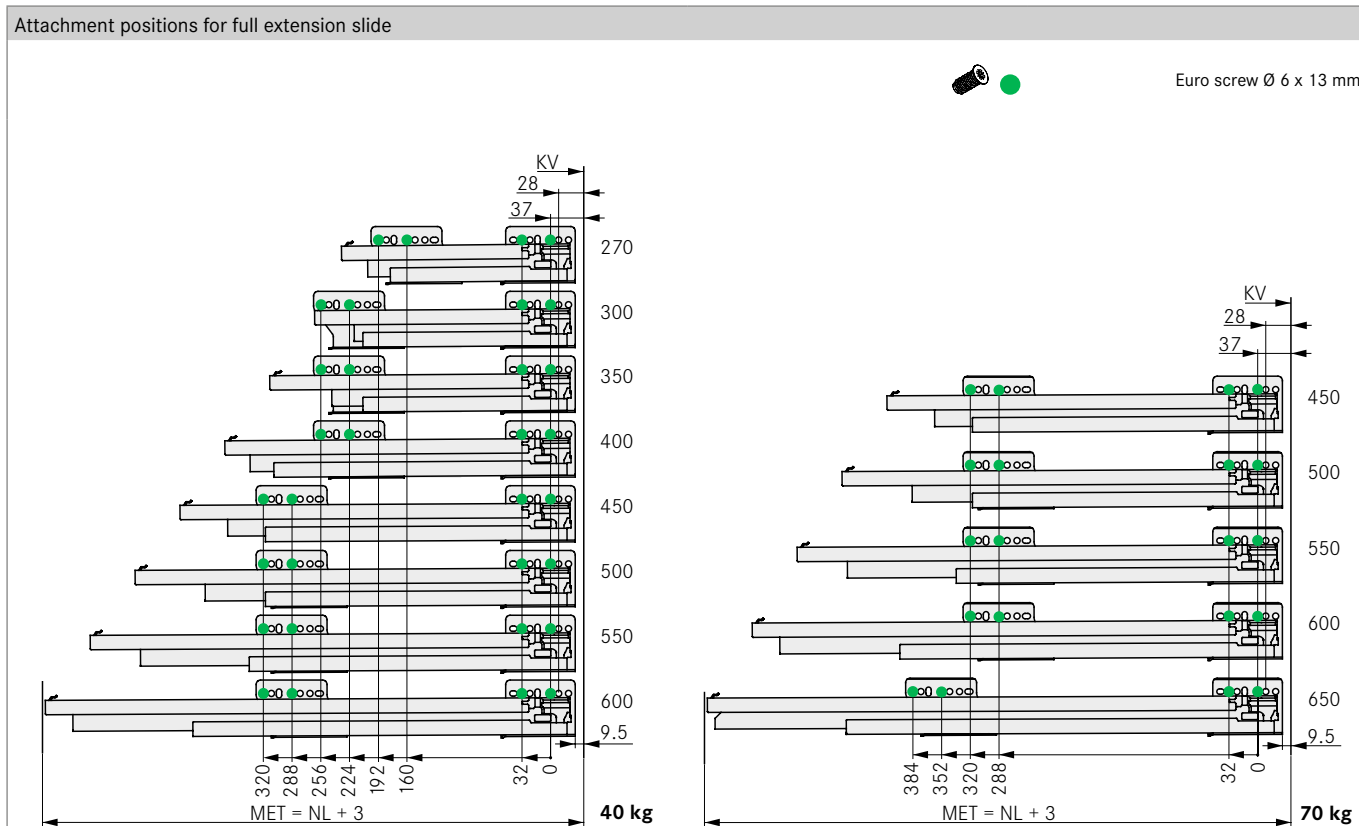
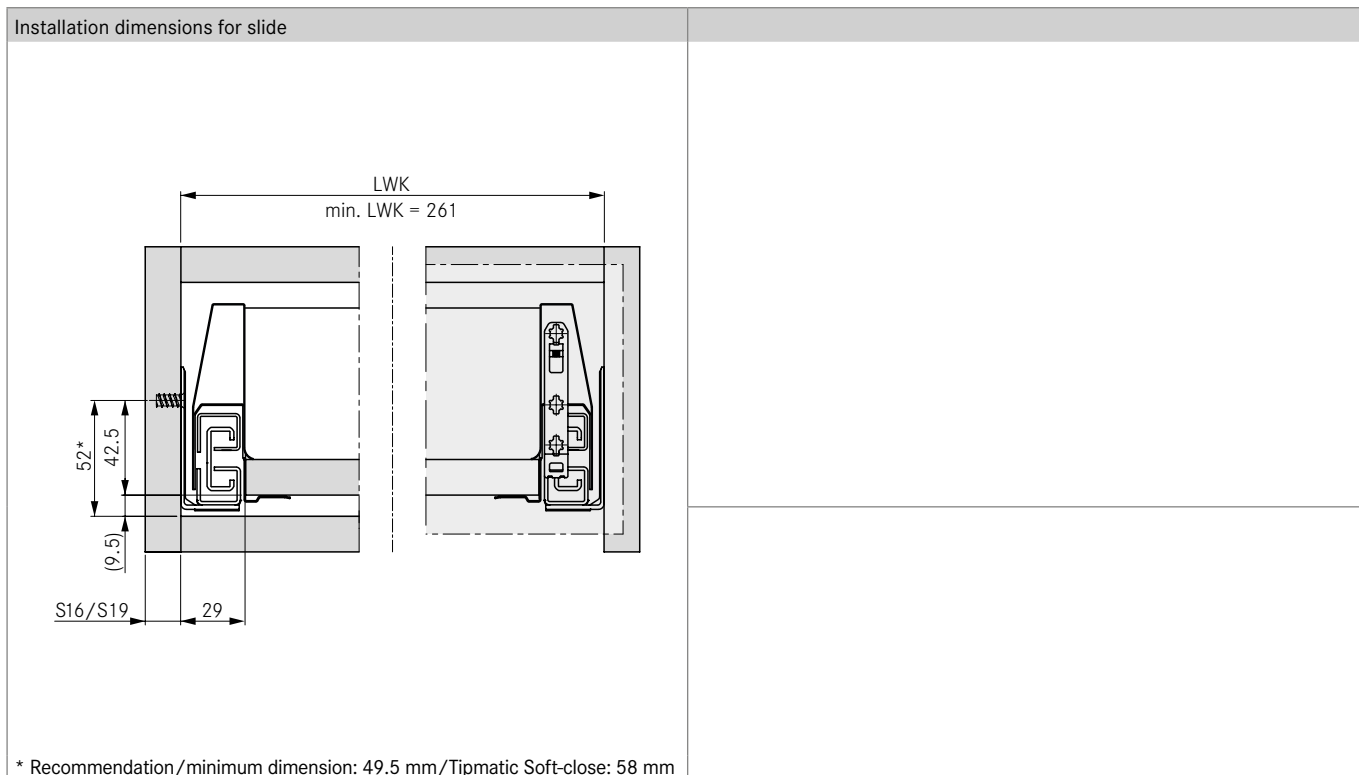


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PLANNING INFORMATION

All dimensions in millimetres



LEGEND

KV	Front edge of cabinet	S	Side wall thickness
LWK	Inside cabinet width		
MET	Minimum installation depth		
NL	Nominal length		



NOVA PRO SOFT-CLOSE S 18

Full extension slide 40/70 kg



- Excellent running characteristics
- Fully synchronised slide technology
- Soft-close damping system
- Limit stop damper
- Maximum side stability
- Minimum drawer deflection
- Suitable for all Nova Pro drawer sides

Notice:

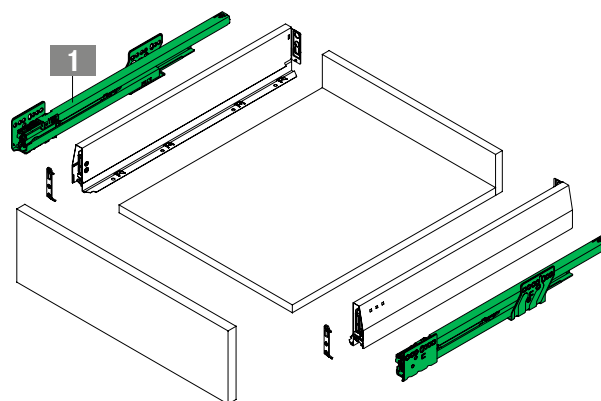
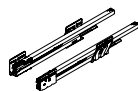
- For use with cabinet side wall S18 mm
- Installation width 30 mm
- See planning dimensions

ORDER INFORMATION

1 Nova Pro Full extension slide 40 kg Soft-close S18				
	40 kg		40 kg	
NL	Left, Right	Left	Right	
270	F101108450	F101108451	F101108452	
300	F101108453	F101108454	F101108455	
350	F101108456	F101108457	F101108458	
400	F101108459	F101108460	F101108461	
450	F101108462	F101108463	F101108464	
500	F101108465	F101108466	F101108467	
550	F101108468	F101108469	F101108470	
600	F101108471	F101108472	F101108473	



1 Nova Pro Full extension slide 70 kg Soft-close S18				
	70 kg		70 kg	
NL	Left, Right	Left	Right	
450	F101108474	F101108475	F101108476	
500	F101108477	F101108478	F101108479	
550	F101108480	F101108481	F101108482	
600	F101108483	F101108484	F101108485	
650	F101108486	F101108487	F101108488	

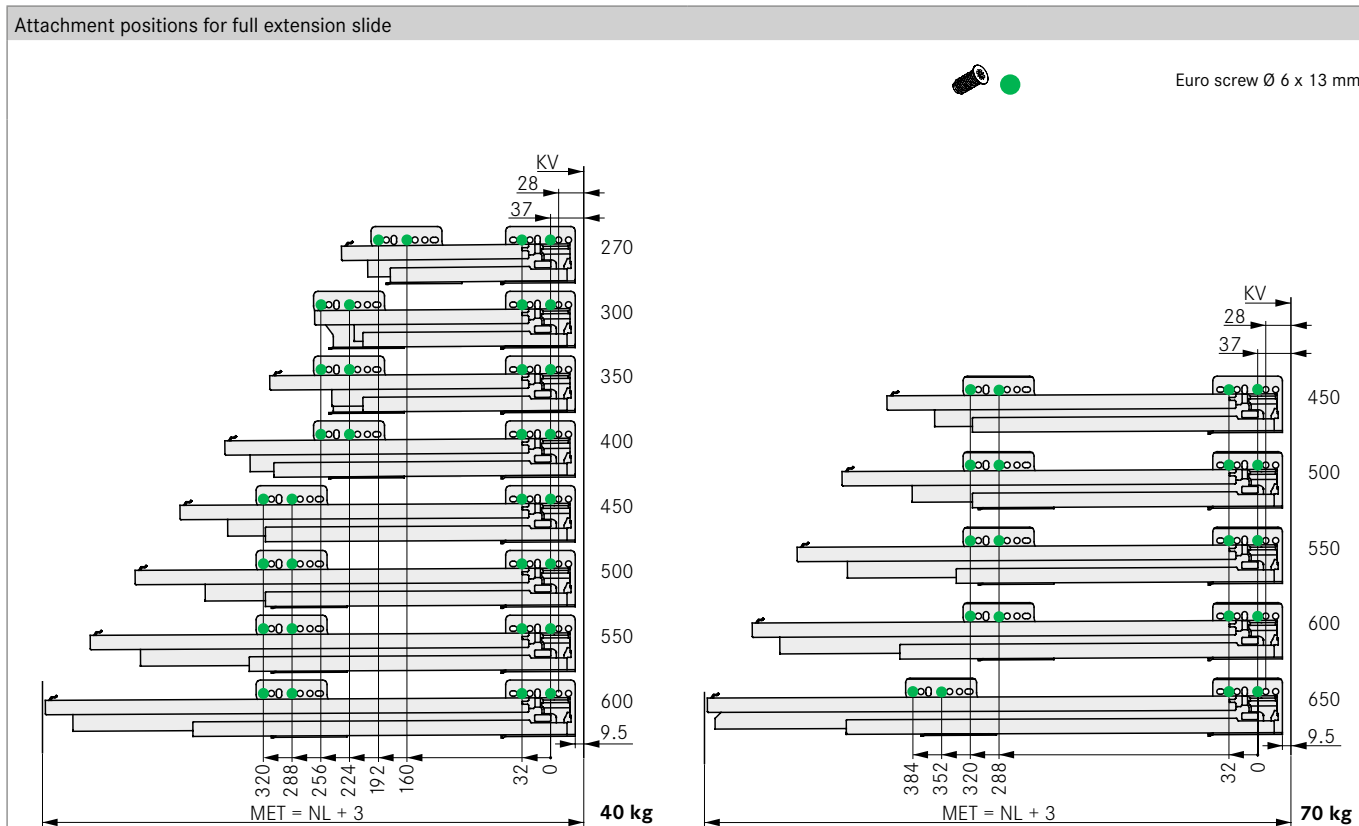
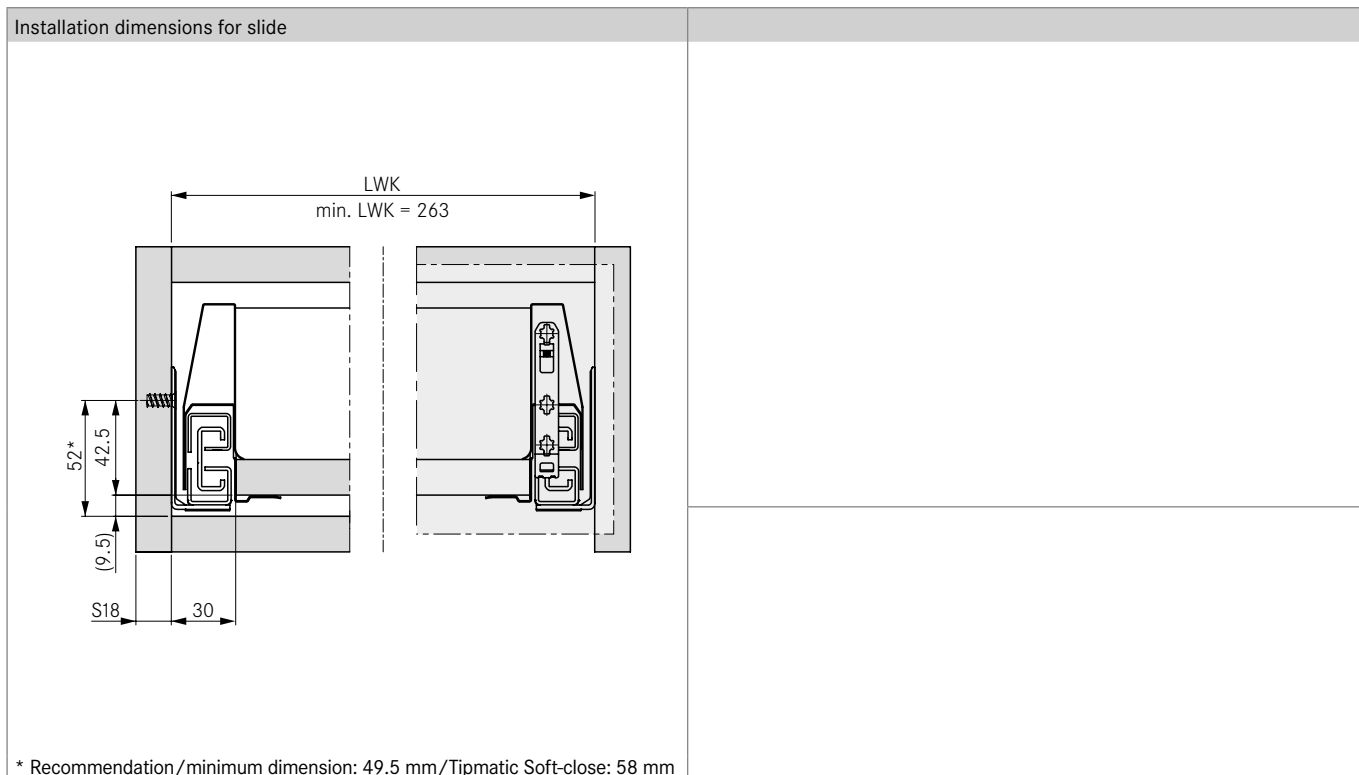


PAGE REFERENCES

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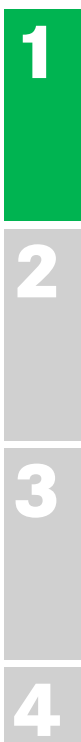
PLANNING INFORMATION

All dimensions in millimetres



LEGEND

KV	Front edge of cabinet	S	Side wall thickness
LWK	Inside cabinet width		
MET	Minimum installation depth		
NL	Nominal length		



NOVA PRO TIPMATIC SOFT-CLOSE S16/S19

Full extension slide 40/70 kg



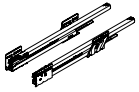
- Mechanical opening system for handle-free fronts
- Combines Tipmatic function with Soft-close damper
- Easy installation of the Tipmatic Soft-close unit
- Can be used for Nova Pro Soft-close full extension slides
- One unit for all nominal lengths and weight classes
- 3-stage adjustment of the opening force
- Large activation zone through synchronisation rod

Notice:

- For use with cabinet side wall S16 and S19 mm
- Installation width 29 mm
- See planning dimensions

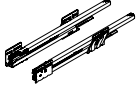
ORDER INFORMATION

1 Nova Pro Full extension slide 40 kg Soft-close S16/S19




NL	40 kg	40 kg	40 kg	
	Left, Right	Left	Right	
270	F101108261	F101108262	F101108263	
300	F101108264	F101108265	F101108266	
350	F101108267	F101108268	F101108269	
400	F101108270	F101108271	F101108272	
450	F101108273	F101108274	F101108275	
500	F101108276	F101108277	F101108278	
550	F101108279	F101108280	F101108281	
600	F101108282	F101108283	F101108284	

1 Nova Pro Full extension slide 70 kg Soft-close S16/S19




NL	70 kg	70 kg	70 kg	
	Left, Right	Left	Right	
450	F101108285	F101108286	F101108287	
500	F101108288	F101108289	F101108290	
550	F101108291	F101108292	F101108293	
600	F101108294	F101108295	F101108296	
650	F101108297	F101108298	F101108299	

2 Nova Pro Tipmatic Soft-close Set: Activator, Unit




Type of assembly	Art. no.
Screw-on	F102134456

3 Synchronisation rod for Nova Pro Tipmatic Soft-close Piece




KB	Length of synchronisation rod	Art. no.
1200	962	F102109393
1800	1562	F102109394
2200	1952	F134131408

4 Support for synchronisation rod Piece

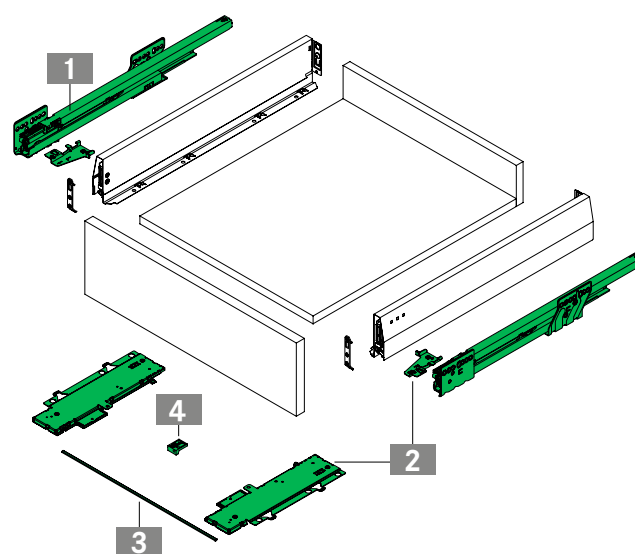


Min. cabinet width	Art. no.
800	F102108021

Individual components Piece: Left, Right



Product type	Art. no.
Activator	F102109295
Unit	F102134457

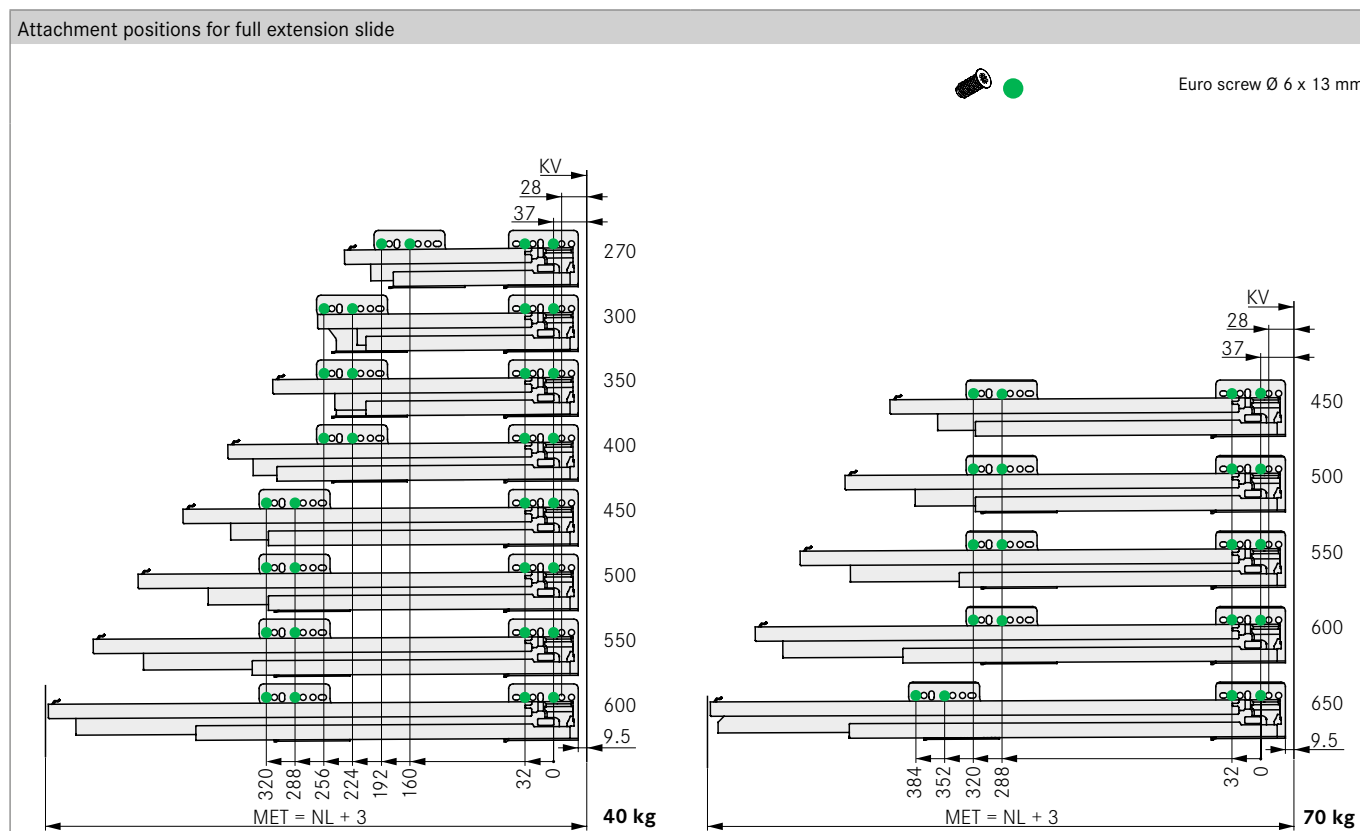
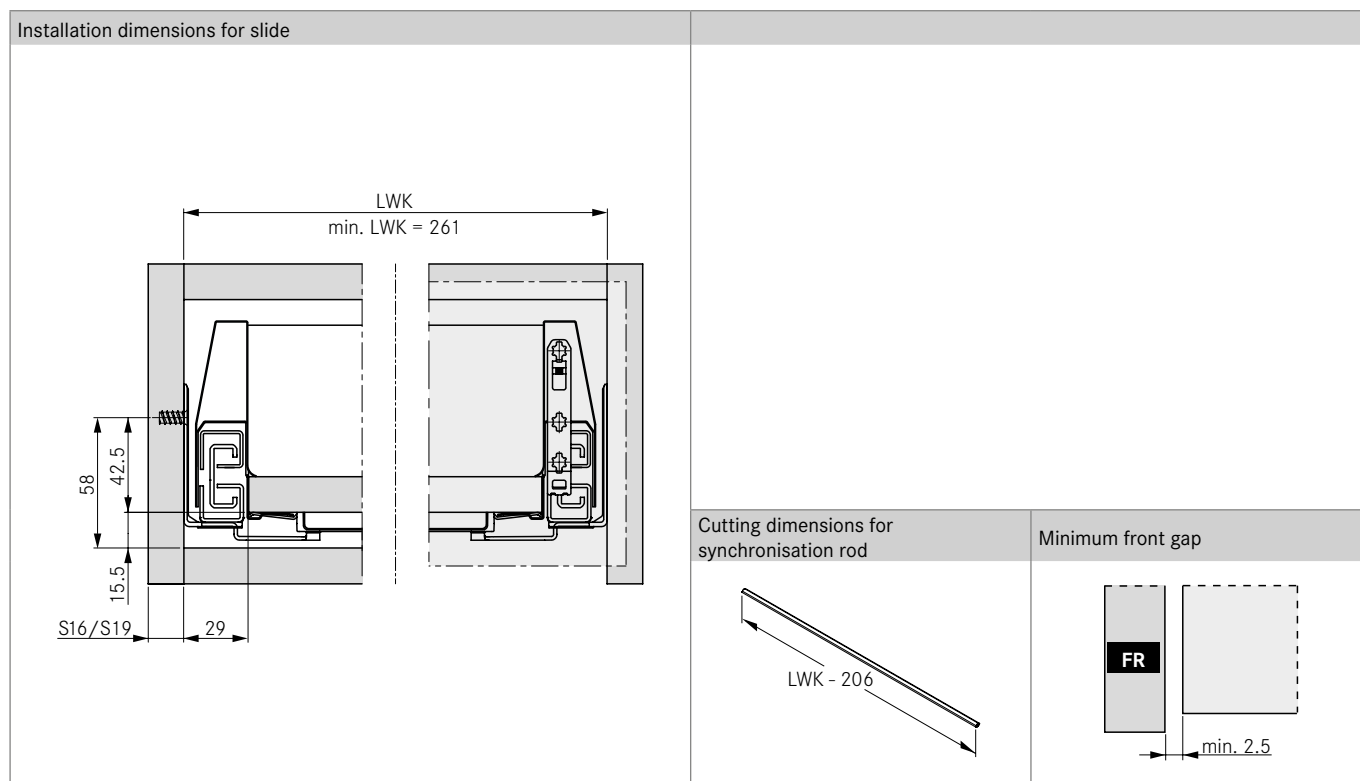


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PLANNING INFORMATION

All dimensions in millimetres



LEGEND

FR Front
KB Cabinet width
KV Front edge of cabinet
LWK Inside cabinet width

MET Minimum installation depth
NL Nominal length
S Side wall thickness



NOVA PRO TIPMATIC SOFT-CLOSE S18

Full extension slide 40/70 kg



- Mechanical opening system for handle-free fronts
- Combines Tipmatic function with Soft-close damper
- Easy installation of the Tipmatic Soft-close unit
- Can be used for Nova Pro Soft-close full extension slides
- One unit for all nominal lengths and weight classes
- 3-stage adjustment of the opening force
- Large activation zone through synchronisation rod

Notice:

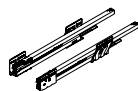
- For use with cabinet side wall S18 mm
- Installation width 30 mm
- See planning dimensions

ORDER INFORMATION

1 Nova Pro Full extension slide 40 kg Soft-close S18				
NL	40 kg	40 kg	40 kg	
	Left, Right	Left	Right	
270	F101108450	F101108451	F101108452	
300	F101108453	F101108454	F101108455	
350	F101108456	F101108457	F101108458	
400	F101108459	F101108460	F101108461	
450	F101108462	F101108463	F101108464	
500	F101108465	F101108466	F101108467	
550	F101108468	F101108469	F101108470	
600	F101108471	F101108472	F101108473	



1 Nova Pro Full extension slide 70 kg Soft-close S18				
NL	70 kg	70 kg	70 kg	
	Left, Right	Left	Right	
450	F101108474	F101108475	F101108476	
500	F101108477	F101108478	F101108479	
550	F101108480	F101108481	F101108482	
600	F101108483	F101108484	F101108485	
650	F101108486	F101108487	F101108488	



2 Nova Pro Tipmatic Soft-close Set: Activator, Unit		
Type of assembly	Art. no.	
Screw-on	F102134456	



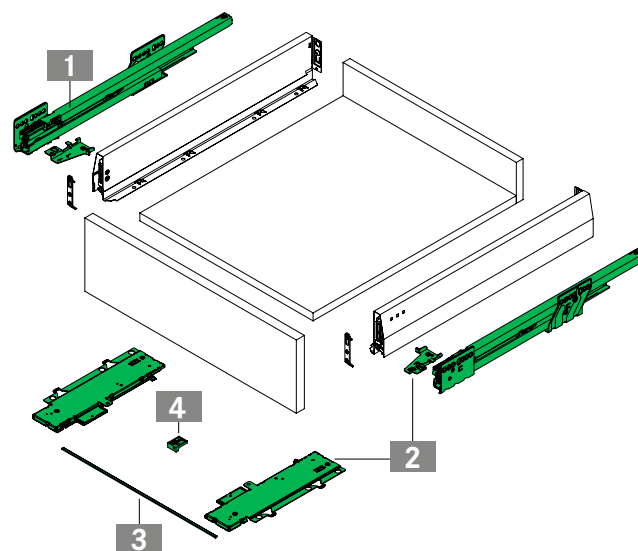
3 Synchronisation rod for Nova Pro Tipmatic Soft-close Piece		
KB	Length of synchronisation rod	Art. no.
1200	962	F102109393
1800	1562	F102109394
2200	1952	F134131408



4 Support for synchronisation rod Piece		
Min. cabinet width	Art. no.	
800	F102108021	



Individual components Piece: Left, Right		
Product type	Art. no.	
Activator	F102109295	
Unit	F102134457	

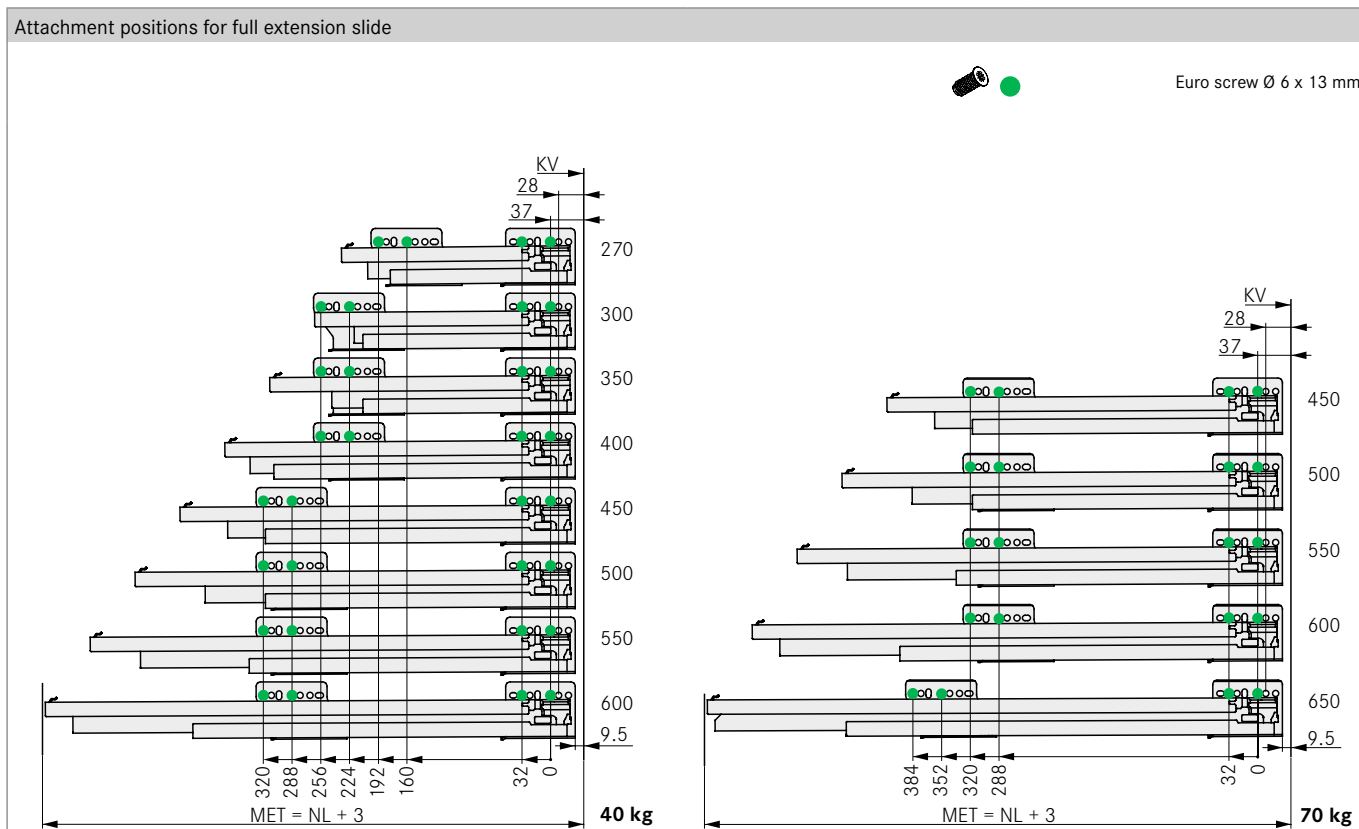
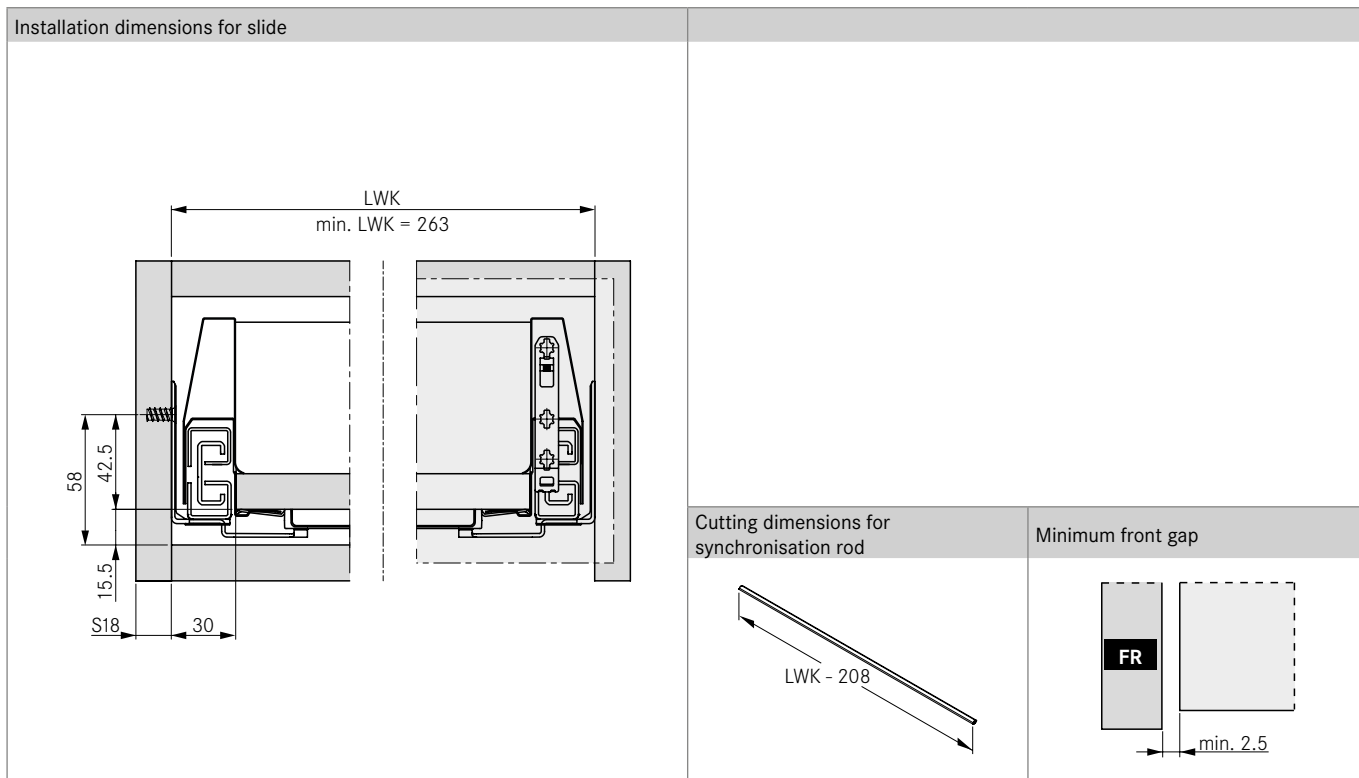


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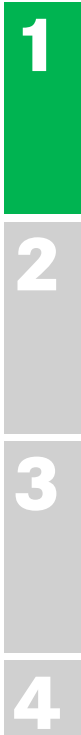
PLANNING INFORMATION

All dimensions in millimetres



LEGEND

FR	Front	MET	Minimum installation depth
KB	Cabinet width	NL	Nominal length
KV	Front edge of cabinet	S	Side wall thickness
LWK	Inside cabinet width		



NOVA PRO ONE

F8 inset panel for inset drawer H90

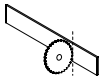


- Colour-coordinated aluminium trim panel
- Smooth inside and outside surfaces provide a high-quality look
- Same dimensions as standard drawers (inside depth)

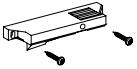
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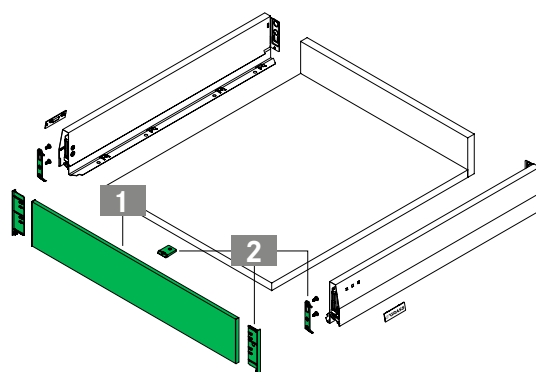
- Front-bottom connector recommended for widths of 600 mm and above (see accessories)

ORDER INFORMATION

1	F8 inset panel H90 for cutting to length			
	Piece			
				
L	Ice	Silver	Stone	
1160	F102105357	F102105069	F102101371	

2	Accessories, F8 inset panel for inset drawer H90			
	Set: Cover cap, Installation hook, Front-bottom connector			
				
H	Ice	Silver	Stone	
90	F102109511	F102109512	F102109510	

Inset drawer catch				
Piece: Inset drawer catch and pan head screws				
dia. 3.5 x 15 mm (2x)				
				
	Ice	Silver	Stone, Graphite	
	F102132043	F102132042	F102109714	



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PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions

Front panel profile H90

Slide		
S	16/19	18
EB	29	30

Note: Slide available in two versions: S16/S19 and S18. See chapter on slides.

* Recommendation/minimum dimension: 49.5 mm/Tipmatic Soft-close: 58 mm

Attachment positions for full extension slide

Euro screw Ø 6 x 13 mm

40 kg

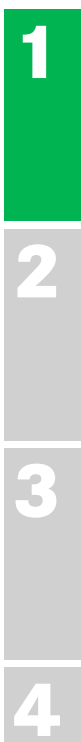
MET = NL + 12

70 kg

MET = NL + 12

LEGEND

BB Bottom panel width	KB Cabinet width	NL Nominal length
EB Installation width	KV Front edge of cabinet	RWB Back panel width
H Height	LWK Inside cabinet width	S Side wall thickness
IBL Length of concealed drawer front	MET Minimum installation depth	



NOVA PRO ONE

F8 inset panel for inset drawer H90 with rectangular railing



- Colour-coordinated aluminium trim panel
- Smooth inside and outside surfaces provide a high-quality look
- Same dimensions as standard drawers (inside depth)

Notice:

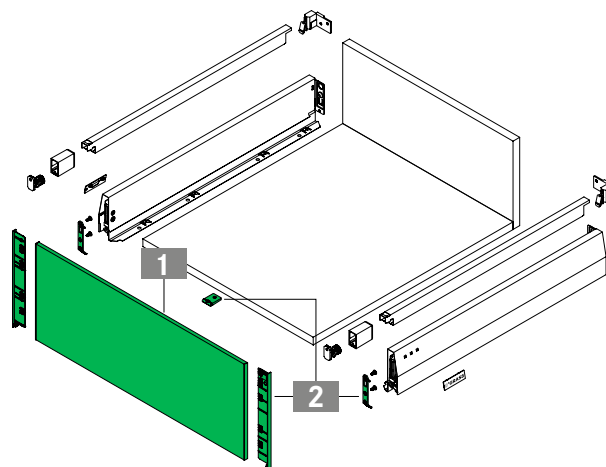
- Front-bottom connector recommended for widths of 600 mm and above (see accessories)

ORDER INFORMATION

1	F8 inset panel H186 for cutting to length				
	Piece				
L	Ice	Silver	Stone		
1160	F102105358	F102105070	F102101379		

2	Accessories, F8 inset panel for inset drawer H90 with rectangular railing				
	Set: Cover cap, Installation hook, Front-bottom connector				
H	Ice	Silver	Stone		
186	F102109517	F102109518	F102109516		

Inset drawer catch				
Piece: Inset drawer catch and pan head screws dia. 3.5 x 15 mm (2x)				
	Ice	Silver	Stone, Graphite	
	F102132043	F102132042	F102109714	



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PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions

* Recommendation/minimum dimension: 49.5 mm/Tipmatic Soft-close: 58 mm

Front panel profile H186

Slide		
S	16/19	18
EB	29	30

Note: Slide available in two versions: S16/S19 and S18. See chapter on slides.

Attachment positions for full extension slide

Euro screw $\text{\O} 6 \times 13 \text{ mm}$

40 kg **70 kg**

LEGEND


BB	Bottom panel width	KB	Cabinet width	NL	Nominal length
EB	Installation width	KV	Front edge of cabinet	RWB	Back panel width
H	Height	LWK	Inside cabinet width	S	Side wall thickness
IBL	Length of concealed drawer front	MET	Minimum installation depth		


NOVA PRO ONE


Rectangular railing - individual components


ORDER INFORMATION

1	Nova Pro Rectangular railing Piece: Left or right				
NL	Ice	Silver	Stone		
270	F102104630	F102104639	F102104621		
300	F102104631	F102104640	F102104622		
350	F102104632	F102104641	F102104623		
400	F102104633	F102104642	F102104624		
450	F102104634	F102104643	F102104625		
500	F102104635	F102104644	F102104626		
550	F102104636	F102104645	F102104627		
600	F102104637	F102104646	F102104628		
650	F102104638	F102104647	F102104629		

2	Railing cover cap Piece: Left or right				
	Ice	Silver	Stone		
	F102104687	F102104698	F102104676		

3	Railing clip for wooden back panels with screw fittings Piece: Left back				
	Ice	Silver	Stone		
	F102104681	F102104692	F102104670		

4	Railing clip for wooden back panels with screw fittings Piece: Right back				
	Ice	Silver	Stone		
	F102104682	F102104693	F102104671		

5	Railing clip with tilt angle adjustment Piece: Left or right front				
	Mounting material		Art. no.		
	Dowel (incl.)		F102104669		
	Screw (excl.)		F102104668		

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Rectangular railing set	150	Accessories	178	Assembly technology	197

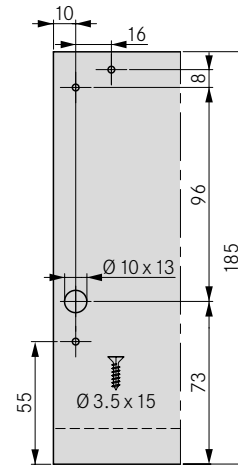
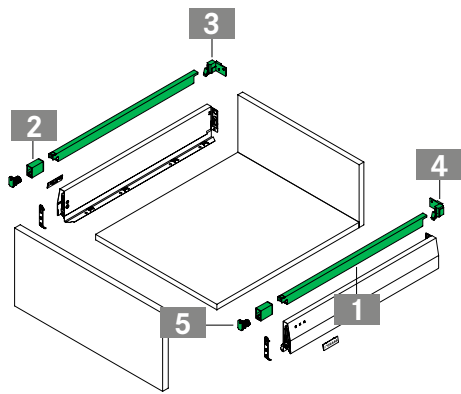
PLANNING INFORMATION

All dimensions in millimetres

Rectangular railing for drawer with wooden back panel for screw fitting

Installation dimensions for back panel

Requires 1 (2x), 2 (2x), 3 (1x), 4 (1x), 5 (2x)



1

2

3

4

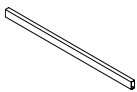
LEGEND

NL Nominal length

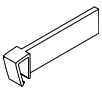
NOVA PRO ONE

Cross and longitudinal divider

ORDER INFORMATION

1	Nova Pro Divider railing made of aluminium for cutting to length			
	Piece			
L	Ice	Silver	Stone	
1150	F102108654	F102108655	F102108653	

2	Universal divider railing clip for aluminium divider railing			
	Piece: Left or right			
	Ice	Silver	Stone	
	F102108834	F102108836	F102108835	

3	Longitudinal divider railing			
	Piece			
L	Ice	Silver	Stone	
100	F102109963	F102109964	F102109962	

PAGE REFERENCES

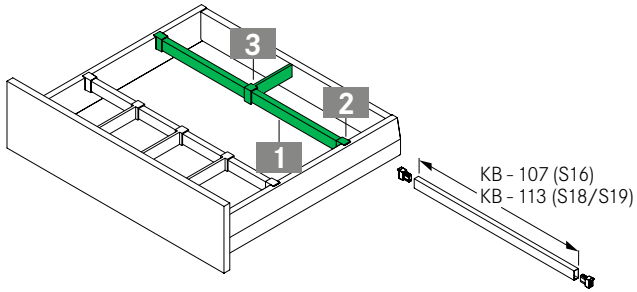
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Rectangular railing	150	Accessories	178	Assembly technology	197

PLANNING INFORMATION

All dimensions in millimetres

Divider rail with universal divider railing clip and longitudinal divider for all Nova Pro One drawer versions

Requires 1 (1x), 2 (2x), 3



1

2

3

4

LEGEND

KB Cabinet width
L Length
S Side wall thickness


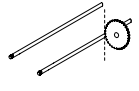
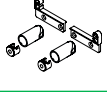
NOVA PRO ONE

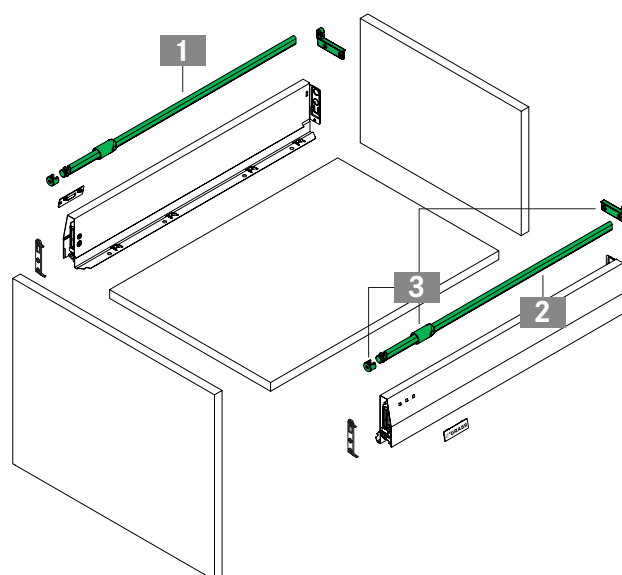
Oval railing for filing drawer



- For use with Nova Pro One H90 frames
- Oval, naturally oxidised aluminium tube with high bending resistance and scratch-resistant surface
- High stability and load capacity thanks to secure screw connection to the front and back panels
- Tool-free tilt angle adjustment via oval railing

ORDER INFORMATION

1	Nova Pro Oval railing with setting screw for attaching wooden back panel Set: Oval railing, cover cap, railing clip, back panel clip	
NL	Aluminium anodised	
500	F102131354	
2	Nova Pro Oval railing with setting screw, for cutting to length Piece	
L	Aluminium anodised	
525	F102131356	
3	Nova Pro Accessories for oval railing, screw fitting, for wooden back panel Set: Cover cap, railing clip, back panel clip	
	Stone	
	F102131355	



PAGE REFERENCES

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PLANNING INFORMATION

All dimensions in millimetres

Front panel installation dimensions	Installation dimensions for back panel	Cutting dimensions for 16 mm chipboard												
<p>* Recommendation/minimum dimension: 49.5 mm/Tipmatic Soft-close: 58 mm ¹ For DIN A4 suspension files (RWB = 340)</p>	<table border="1"> <thead> <tr> <th>Slide</th> <th>16/19</th> <th>18</th> </tr> </thead> <tbody> <tr> <td>S</td> <td>16/19</td> <td>18</td> </tr> <tr> <td>EB</td> <td>29</td> <td>30</td> </tr> <tr> <td>A</td> <td>21.5</td> <td>22.5</td> </tr> </tbody> </table> <p>Note: Slide available in two versions: S16/S19 and S18. See the chapter on slides.</p>	Slide	16/19	18	S	16/19	18	EB	29	30	A	21.5	22.5	<p>Front tilt angle adjustment</p> <p>Cutting dimensions for oval railing</p>
Slide	16/19	18												
S	16/19	18												
EB	29	30												
A	21.5	22.5												



LEGEND

B	Bottom panel	FAS	Front overlay, side	NL	Nominal length
BB	Bottom panel width	FST	Front overlay	RWB	Back panel width
BL	Bottom panel length	L	Length	RWH	Back panel height
EB	Installation width	LWK	Inside cabinet width	S	Side wall thickness


NOVA PRO ONE


Sink drawer with low back panel

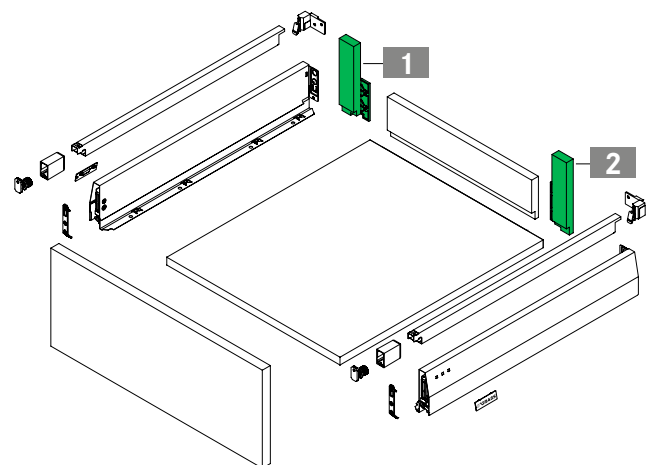


- Sink back panel retainer for Nova Pro One H90 with rectangular railing
- Enables the quick and easy production of drawers with recesses for under-sink plumbing and a rectangular wooden back panel - no special cutting needed
- Colour matched to all Nova Pro frames

ORDER INFORMATION

1	Nova Pro H154 sink back panel clip for H90 with rectangular railing			
	Piece: Left			
	Ice	Silver	Stone	
	Left	Left	Left	
	F102131199	F102131201	F102130601	

2	Nova Pro H154 sink back panel clip for H90 with rectangular railing			
	Piece: Right			
	Ice	Silver	Stone	
	Right	Right	Right	
	F102131200	F102131202	F102130602	



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PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions front (H154)	Installation dimensions for back panel (H154)	Cutting dimensions for 16 mm chipboard																								
	 <table border="1"> <thead> <tr> <th colspan="3">Slide</th> </tr> </thead> <tbody> <tr> <td>S</td> <td>16/19</td> <td>18</td> </tr> <tr> <td>EB</td> <td>29</td> <td>30</td> </tr> <tr> <td>A</td> <td>21.5</td> <td>22.5</td> </tr> </tbody> </table> <p>Note: Slide available in two versions: S16/S19 and S18. See the chapter on slides.</p>	Slide			S	16/19	18	EB	29	30	A	21.5	22.5	 <table border="1"> <thead> <tr> <th colspan="3">Back panel rebate</th> </tr> </thead> <tbody> <tr> <td>min. 78</td> <td>16</td> <td>6</td> </tr> <tr> <td></td> <td></td> <td>16</td> </tr> <tr> <td></td> <td></td> <td>BL = NL - 13</td> </tr> </tbody> </table>	Back panel rebate			min. 78	16	6			16			BL = NL - 13
Slide																										
S	16/19	18																								
EB	29	30																								
A	21.5	22.5																								
Back panel rebate																										
min. 78	16	6																								
		16																								
		BL = NL - 13																								

* Recommendation/minimum dimension: 49.5 mm/Tipmatic Soft-close: 58 mm



LEGEND

B Bottom panel	FAS Front overlay, side	RW Back panel
BB Bottom panel width	FST Front overlay	RWB Back panel width
BL Bottom panel length	LWK Inside cabinet width	RWH Back panel height
EB Installation width	NL Nominal length	S Side wall thickness

APPLICATION EXAMPLE

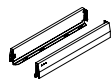
Sink drawer with cut-out



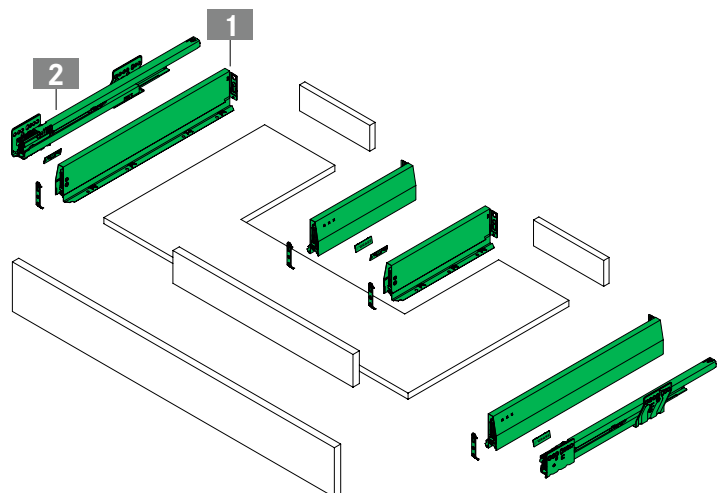
- Maximum storage space utilisation in the sink area through individual combination with shorter drawer sides
- Easy assembly with standard Nova Pro products
- Variable width, variable cut-out
- As a regular or pot drawer
- Integrated height and side adjustment
- Straight inside surfaces and narrow installation width ensure optimal utilisation of space
- Sturdy construction and high degree of stability
- Same bottom panel and back panel width
- Tool-free fitting of front

ORDER INFORMATION

1 Nova Pro One Drawer sides
page 148



2 Nova Pro Slides
page 154



PAGE REFERENCES

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PLANNING INFORMATION

All dimensions in millimetres

Front panel installation dimensions

Installation dimensions for back panel

Cutting dimensions for 16 mm chipboard

Slide		
S	16/ 19	18
EB	29	30
A	21.5	22.5

Note: Slide available in two versions: S16/S19 and S18. See the chapter on slides.

* Recommendation/minimum dimension: 49.5 mm/Tipmatic Soft-close: 58 mm

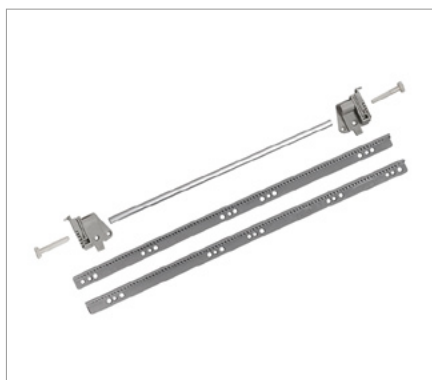


LEGEND

<p>BB Bottom panel width</p> <p>BL Bottom panel length</p> <p>BLA Drill hole distance</p> <p>EB Installation width</p>	<p>FAS Front overlay, side</p> <p>FST Front overhang</p> <p>IBB Width of concealed drawer front</p> <p>IBH Height of concealed drawer front</p>	<p>LWK Inside cabinet width</p> <p>NL Nominal length</p> <p>RWB Back panel width</p> <p>RWH Back panel height</p>
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NOVA PRO ONE

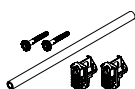
Side stabilising device



- Maximum stability for extra-wide regular and pot drawers
- Outstanding pull-out comfort and perfect running
- For drawer widths up to 1,500 mm

ORDER INFORMATION

1 Torsion bar Set: Torsion bar, pinion, support



KB	Aluminium metallic			
900	F102066385			
1000	F102066386			
1100	F102066387			
1200	F102066388			
1500	F102066389			

2 Gliding channel Set: Left, Right

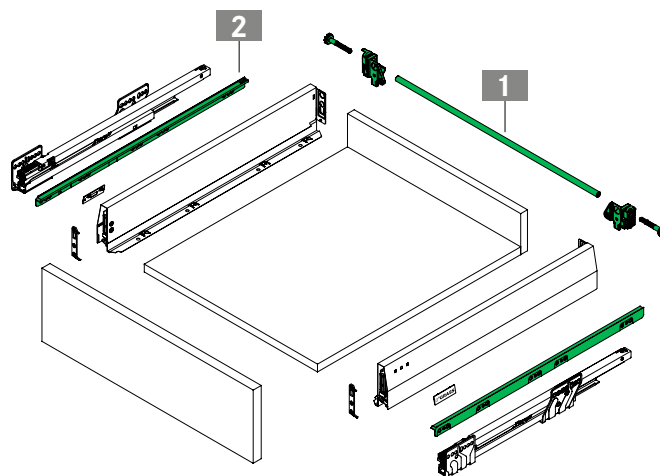


NL	Aluminium metallic			
450	F102050864			
500	F102050865			
550	F102050866			
600	F102050867			
650	F102050868			

Tapping screws Piece



	Nominal diameter x screw length	Art. no.
	4.8 x 13	F145050869

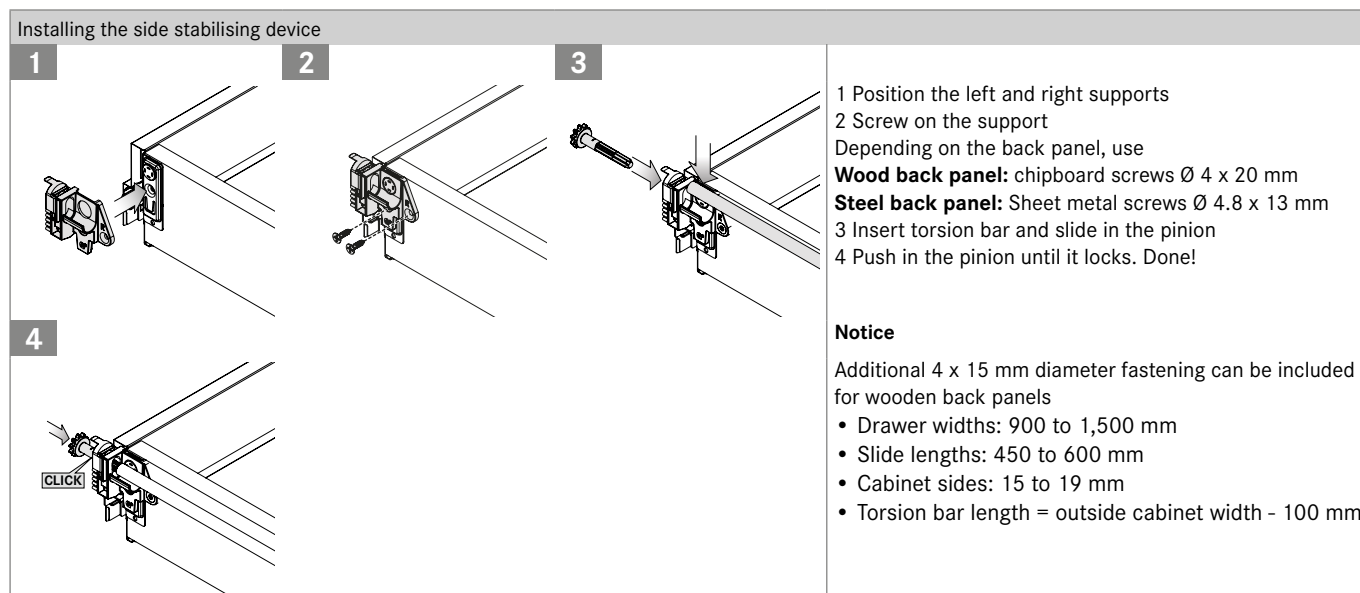
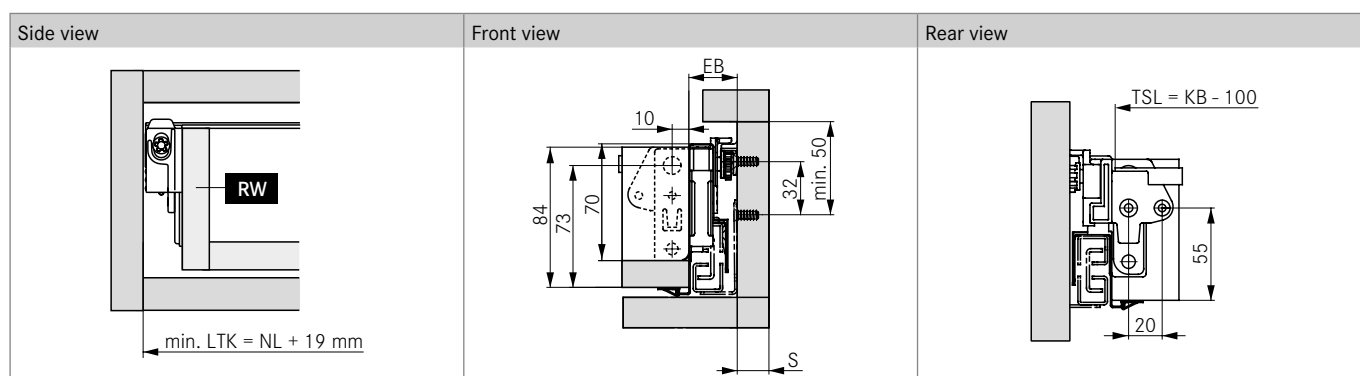
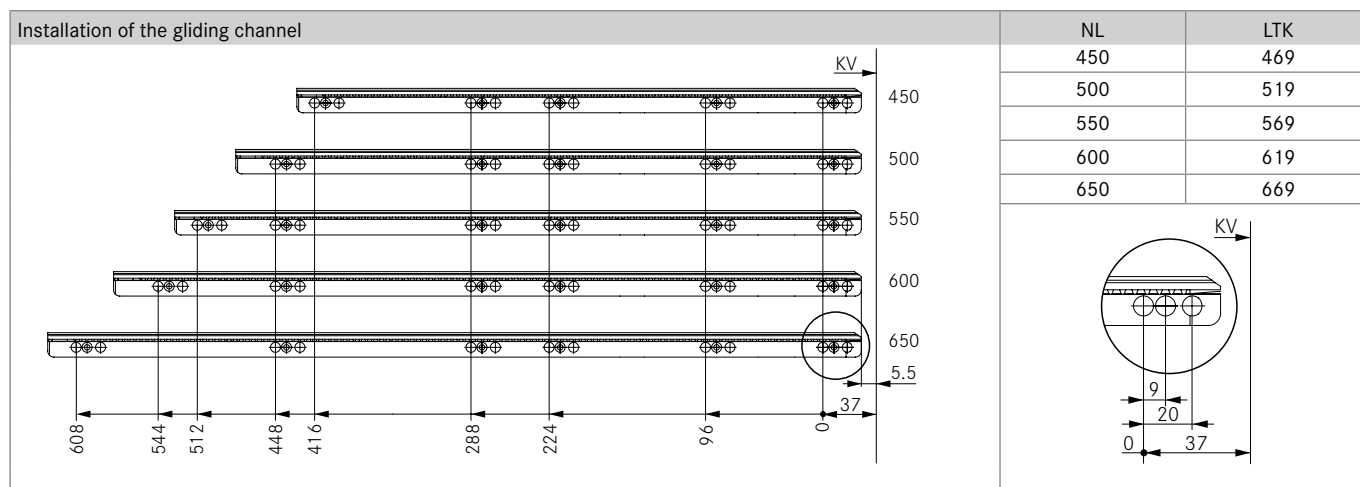


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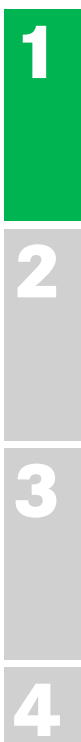
PLANNING INFORMATION

All dimensions in millimetres



LEGEND


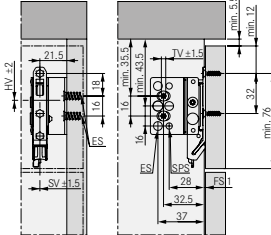
EB	Installation width	NL	Nominal length
KB	Cabinet width	RW	Back panel
KV	Front edge of cabinet	S	Side wall thickness
LTK	Inside cabinet depth	TSL	Torsion bar length




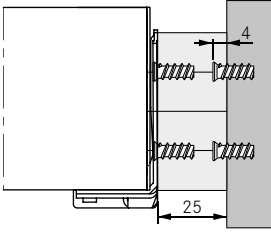

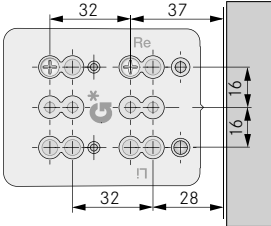
NOVA PRO ONE

Accessories

NOVA PRO BLIND PANEL SNAP-ON BRACKET

Description				Art. no.
<ul style="list-style-type: none"> • Tool-free installation and removal • Fast Click-on installation and removal of the front • Worktop • Already fitted: min. 5.5 mm • Not fitted: 0 mm • Side adjustment +/- 1.5 mm • Height adjustment +/- 2 mm • Depth adjustment +/- 1.5 mm 				F102108430

NOVA PRO SPACER

Description			Colour	Art. no.
<ul style="list-style-type: none"> • Allows inset drawers to be pulled out with no collision in the case of hinged doors with protrusion • Fix the spacer in the row of holes, then screw the slide into the spacer • Thickness 25 mm • can be used on left/right 			Stone	F102131359
				White


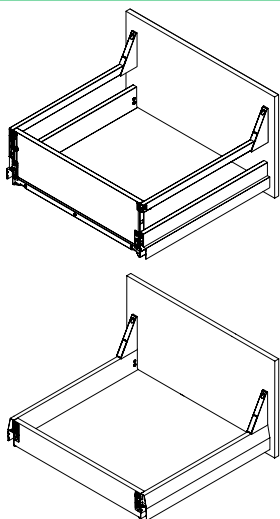
NOVA PRO CHILD LOCK

Description				Art. no.
<ul style="list-style-type: none"> • When activated, this limits the drawer opening to a gap. After activating a concealed release lever underneath the drawer, the drawer opens completely • Concealed installation prevents the child from learning and copying • Entire storage space of the drawer can be utilised • No damage to the front and cabinet • Can also be retrofitted • Tool-free deactivation if necessary • Can be used with all Nova Pro add-on systems, as it is installed on the bottom panel mounting • Cannot be used in combination with Tipmatic Soft-close 				F102108857


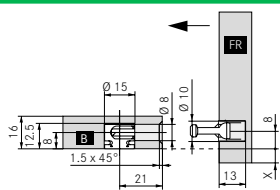
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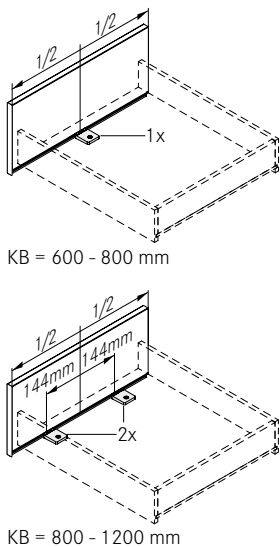
NOVA PRO FRONT SUPPORT

Description			Colour	Art. no.
<ul style="list-style-type: none"> Improves the stability of high fronts Easy to retrofit Only one front support for different nominal lengths Can be used with Nova Pro Scala/One rectangular railings 14 x 25 mm Can be used with Nova Pro One H90 Can be used with Nova Pro Scala H90/H122/H186/H250 			Ice	F102133697
			Silver	F102133698
			Stone	F102133696

FRONT-BOTTOM PANEL CONNECTOR FOR WOOD FRONTS

Description			Suitable for cabinet width	Art. no.
<ul style="list-style-type: none"> For wide drawers Thanks to the ball joint, the alignment of the front can also be adjusted when the front-bottom panel connector is mounted 			From 600 mm: 1 piece (Vionario V8), From 600 mm: 1 piece (Vionario V13), From 800 mm: 1 piece (Nova Pro)	F148026744

FRONT-BOTTOM PANEL CONNECTOR FOR F8 INSET PANEL

Description			Suitable for cabinet width	Art. no.
<ul style="list-style-type: none"> For wide drawers 			From 600 - 800 mm: 1 piece (Nova Pro), From 800 - 1200 mm: 2 pieces (Nova Pro)	F145117993

LEGEND

B	Bottom panel
ES	Euro countersunk screw
FR	Front
FS	Front gap

H	Height
HV	Height adjustment
KB	Cabinet width
L	Length

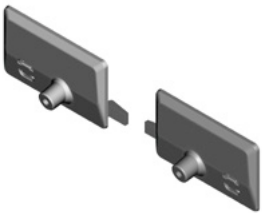
SPS	Chipboard screw
SV	Lateral adjustment
TV	Depth adjustment



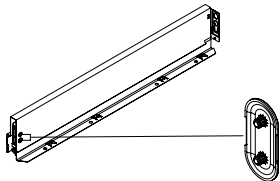
NOVA PRO ONE

Accessories

NOVA PRO ONE LOCKING PIN

Description			Assembly position	Art. no.
<ul style="list-style-type: none"> For recessed locking bar in combination with Lehmann SVS 3 locking system The locking pin is inserted into the punched hole in the Nova Pro One drawer side instead of the Nova Pro One cover cap Tool-free installation and removal Panel adjustment is fully guaranteed Holding force significantly higher than DIN 68852 Colour: Stone 			Left	F102133641
			Right	F102133642

COVER CAPS FOR SETTING SCREWS

Description			Colour	Art. no.
<ul style="list-style-type: none"> Cover cap set for use with: Nova Pro Scala H90 Nova Pro One H90 			Ice	F102109523
			Silver	F102131371
			Stone	F102109522

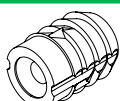
NOVA PRO ONE BRANDING CLIP

	Assembly position	Colour	Type of assembly	Material of cover cap	Design	Personalisation (logo)		Art. no.
	Left or right	Ice	To clip-on	Plastic	With GRASS Logo	Stamping		F102133595
		Silver						F102134024
		Stone						F102133594

ANCHOR POINT

	Ø	L	Øh	Colour	Material			Art. no.
	5 mm	8 mm	8.8 mm	Natural	Plastic			F071044351

DOWEL

	Ø	L	Colour	Material				Art. no.
	8 mm	12 mm	Natural	Plastic				F071004885
	10 mm							F071005853

EURO SCREW

	Ø	L	Øh	Colour	Material	Internal drive		Art. no.
	6 mm	8.5 mm	8 mm	Nickel	Steel	Z2		F145089301
		11.5 mm						F145083544
		13 mm						F145083545
		14.5 mm						F145083546

SPECIAL EURO SCREWS

	Ø	L	Øh	Colour	Material	Internal drive		Art. no.
	6 mm	8.5 mm	7 mm	Nickel	Steel	Z2		F145089355
		13.5 mm						F145088185

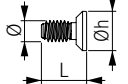
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CHIPBOARD SCREWS

	Ø	L	Øh	Colour	Material	Internal drive		Art. no.
	3.5 mm	15 mm	7 mm	Nickel	Steel	Z2		F145087110

THREAD-ROLLING COUNTERSUNK HEAD SCREW

	Ø	L	Øh	Colour	Material	Internal drive		Art. no.
	M3.5	7.5 mm	6.5 mm	Black	Steel	Z2		F145117998

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LEGEND

B	Bottom panel
ES	Euro countersunk screw
FR	Front
FS	Front gap

H	Height
HV	Height adjustment
KB	Cabinet width
L	Length

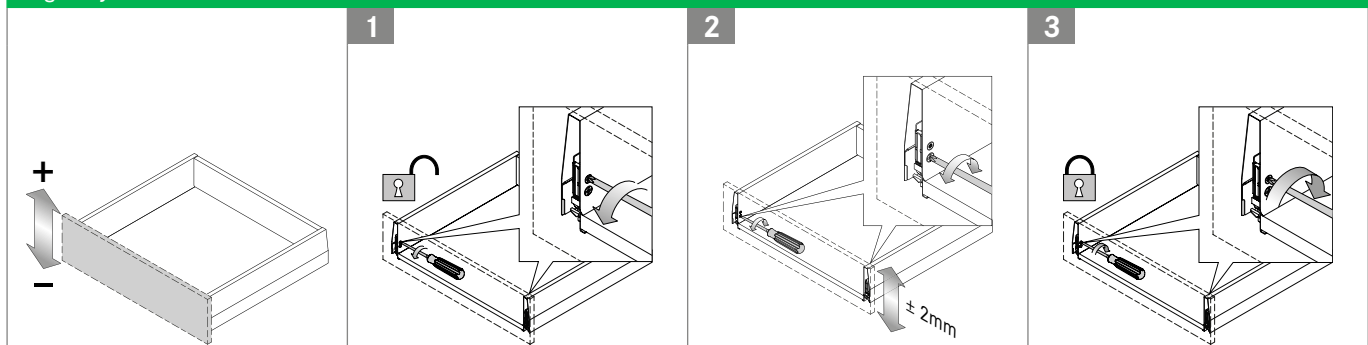
SPS	Chipboard screw
SV	Lateral adjustment
TV	Depth adjustment

NOVA PRO ONE

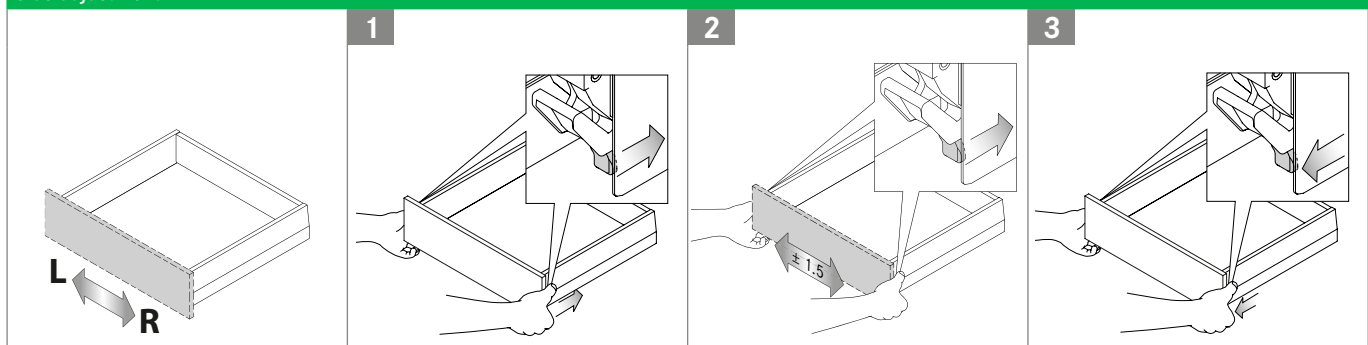
Technical information

ADJUSTMENT

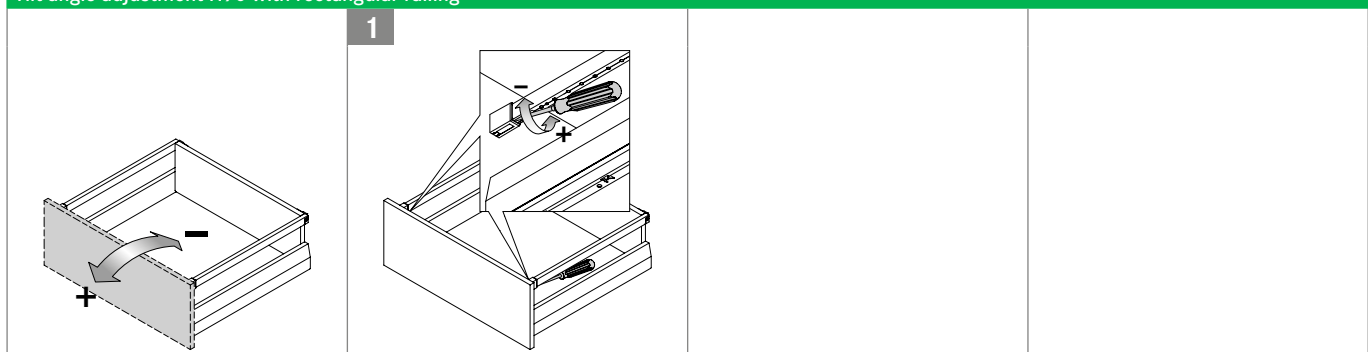
Height adjustment H90



Side adjustment

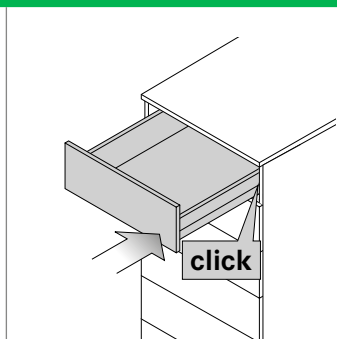
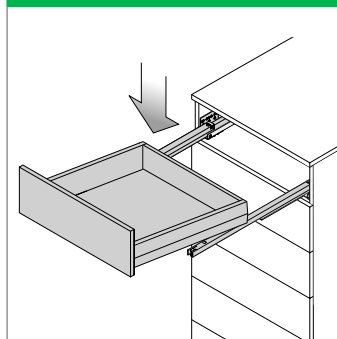


Tilt angle adjustment H90 with rectangular railing

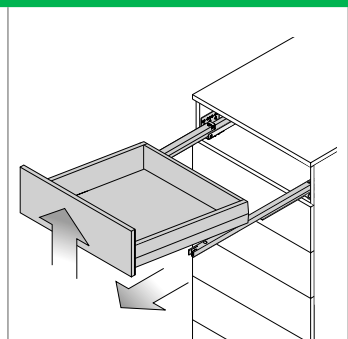
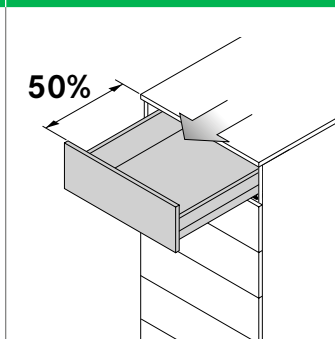


ASSEMBLY/REMOVAL

Insertion



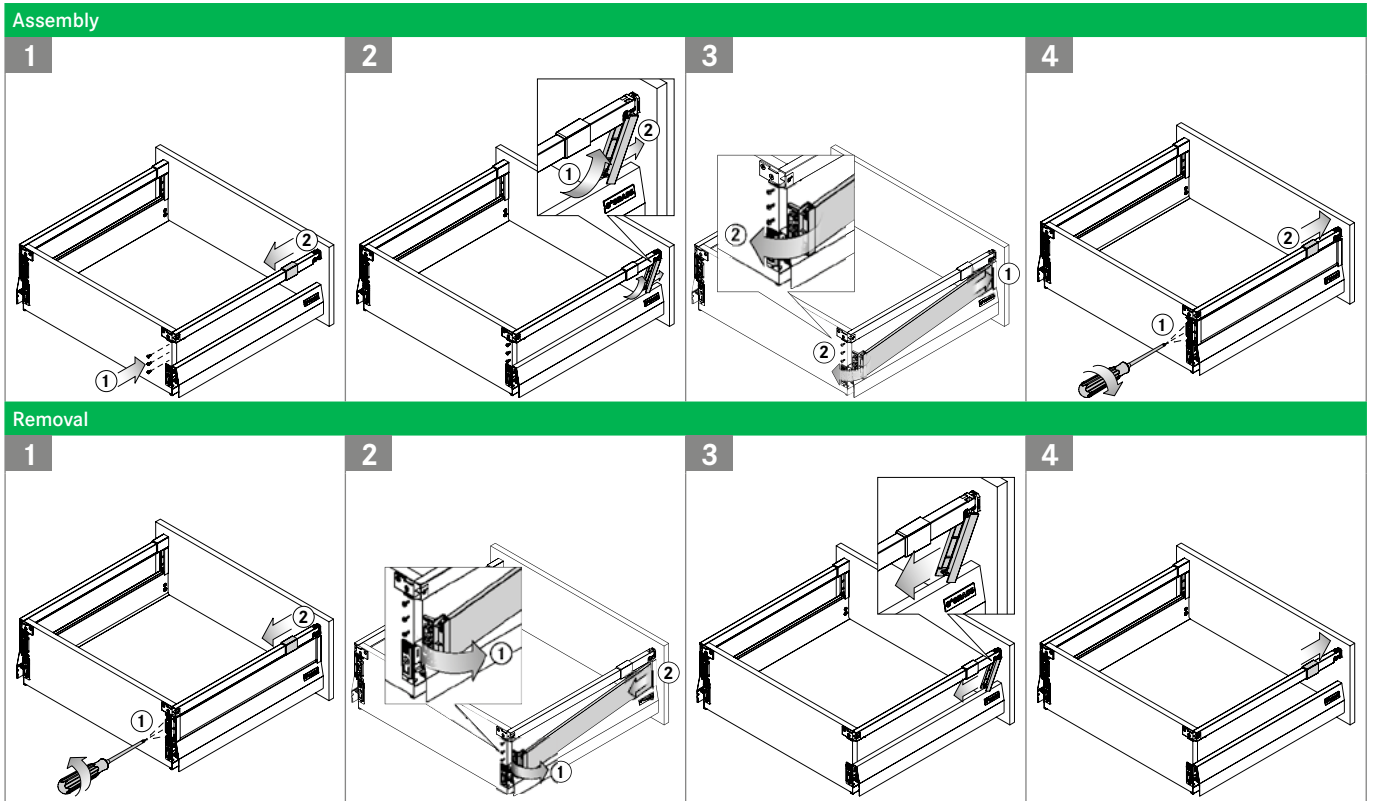
Removal



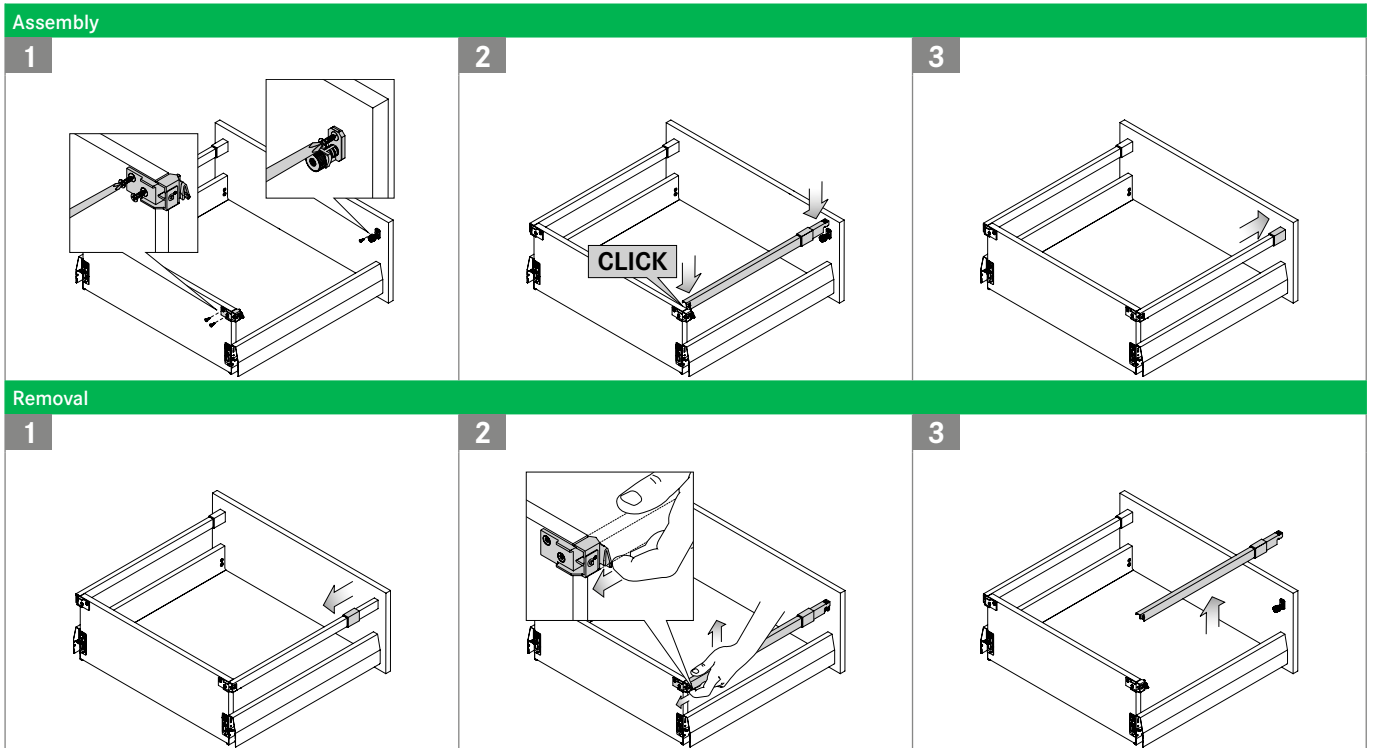
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CRYSTAL SLIDE-IN ELEMENT FOR WOODEN BACK PANELS



RECTANGULAR RAILING



LEGEND

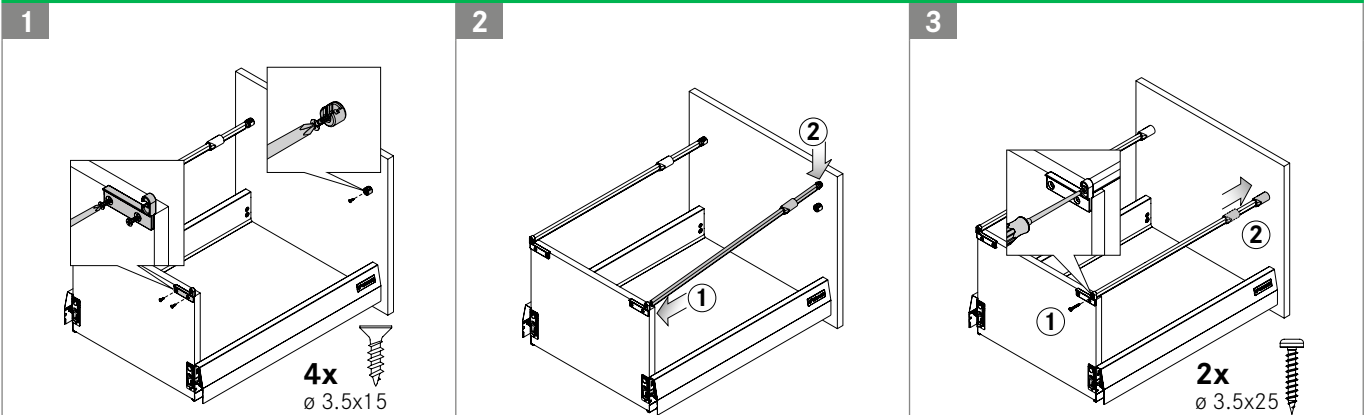
H	Height		
---	--------	--	--

NOVA PRO ONE

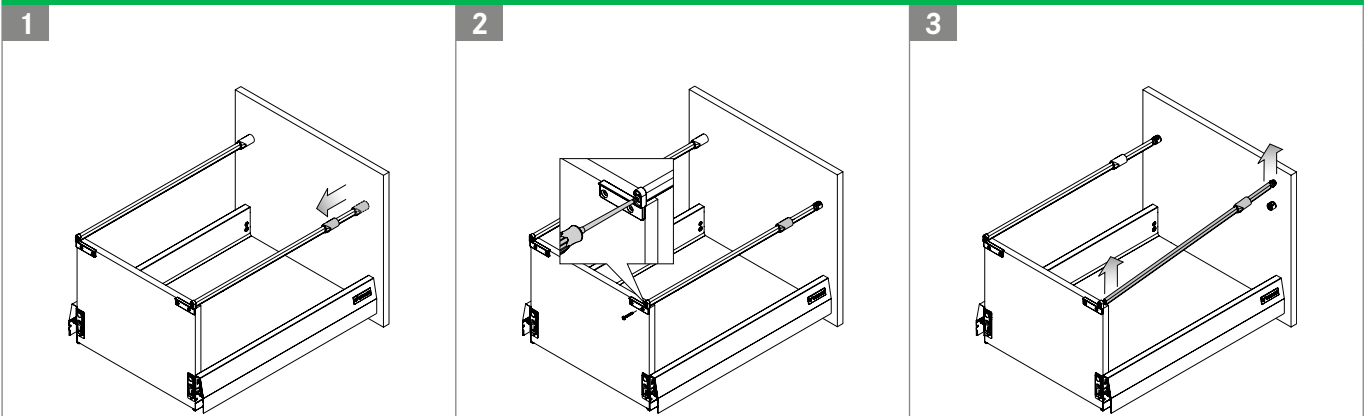
Technical information

OVAL RAILING

Assembly



Removal

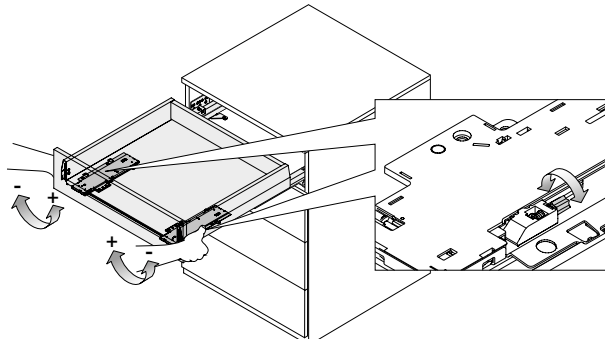
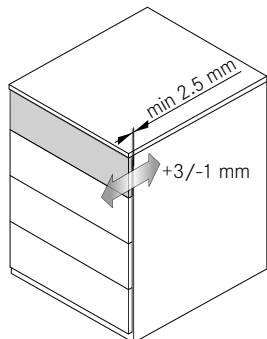


PAGE REFERENCES

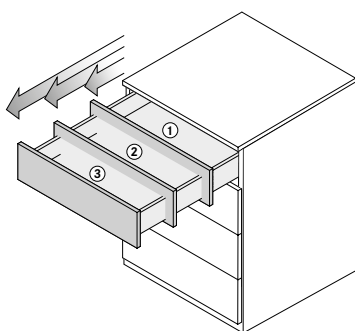
Single Set	146	Inset panels	162	Organising systems	187
Drawer sides	148	Application examples	174	Assembly technology	197
Slides	154	Accessories	178	Assembly aids	206

TIPMATIC SOFT-CLOSE

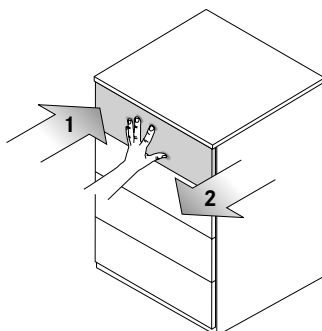
Front gap adjustment (+3 mm/-1 mm)



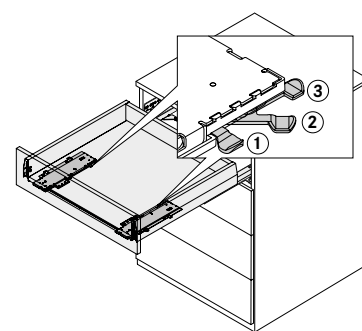
Opening force



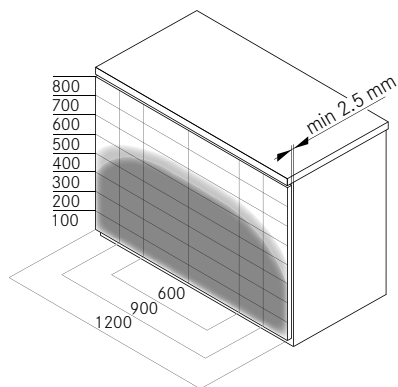
1



2



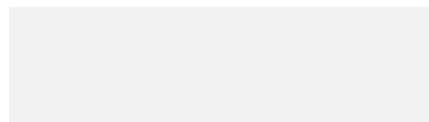
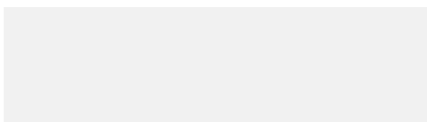
Activation zone



- 1
- 2
- 3
- 4

LEGEND

H **Height**



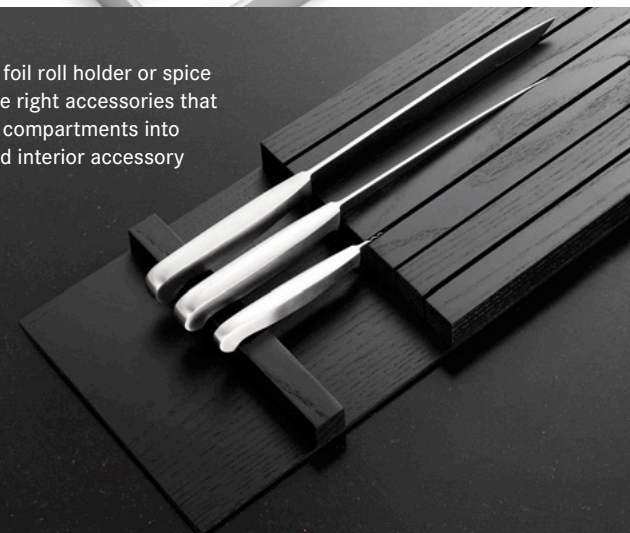


Systematic
simplicity.
Flexible.
Modular.


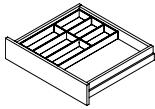
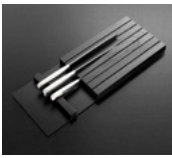
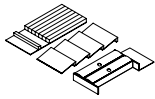
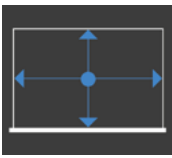

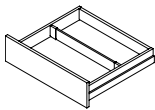


The dividing and organising systems are colour-coordinated with the Nova Pro drawers to form a unique whole. They dissolve the boundaries between drawer and divider and form a harmonious complete work of art with just one goal - organisation.

Knife block, foil roll holder or spice rack - it's the right accessories that turn drawer compartments into an integrated interior accessory system.



Dividing and Organising Systems for Nova Pro One

	Description		Page
	Tavinea Sorto Interior accessory system <ul style="list-style-type: none"> • Modular interior accessory system • Perfect organisation inside drawers for cutlery and small sundry items • High-quality frame and length dividers made of powder-coated steel 		188
	Tavinea Sorto Accessories <ul style="list-style-type: none"> • The perfect accessories for any application • Knives, spice jars, foil rolls, cutlery or even perfume - with Tavinea Sorto accessories, everything is perfectly sorted • High-quality materials: Aluminium and solid wood 		190
	Tavinea Sorto Planning dimensions		192
	Drawer divider Dividing system <ul style="list-style-type: none"> • Elegant organisation of storage space by dividing the drawer • Easy to install 		194

1

2

3

4

TAVINEA SORTO

Interior accessory system

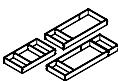


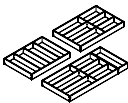
- Perfect organisation inside drawers for cutlery and small sundry items
- High-quality frame and length dividers made of powder-coated steel
- Colour coordinated
- Innovative anti-slip pads ensure that the frames stay in place


Notice:

- Tavinea Sorto B186 can be used for cabinet width 300 and above
- Tavinea Sorto B276 can be used for cabinet width 400 and above

ORDER INFORMATION

1	Tavinea Sorto B186			
	Piece			
				
NL	Ice	Silver	Stone	
350	F007132925	F007130075	F007130074	
400	F007132927	F007130079	F007130078	
450	F007132929	F007130083	F007130082	
500	F007132931	F007130087	F007130086	
550	F007132933	F007130091	F007130090	
600	F007132935	F007130095	F007130094	

2	Tavinea Sorto B276			
	Piece			
				
NL	Ice	Silver	Stone	
400	F007132913	F007130051	F007130050	
450	F007132915	F007130055	F007130054	
500	F007132917	F007130059	F007130058	
550	F007132919	F007130063	F007130062	
600	F007132921	F007130067	F007130066	

3	Tavinea Sorto length divider			
	Piece			
				
NL	Ice	Silver	Stone	
350	F007132939	F007130103	F007130102	
400	F007132941	F007130107	F007130106	
450	F007132943	F007130111	F007130110	
500	F007132945	F007130115	F007130114	
550	F007132947	F007130119	F007130118	
600	F007132949	F007130123	F007130122	

Tavinea Sorto Accessories			
page 190			
			

PAGE REFERENCES

Single Set	146	Inset panels	162	Assembly technology	197
Drawer sides	148	Accessories	190	Assembly aids	206
Slides	154	Installation information	192		

PLANNING INFORMATION

All dimensions in millimetres

Tavinea Sorto B186

1



NL 350



NL 400-500



NL 550-600

Tavinea Sorto B276

2



NL 400



NL 450-500



NL 550-600

Tavinea Sorto length divider

3



LEGEND

- B Width
- KB Cabinet width
- NL Nominal length

1

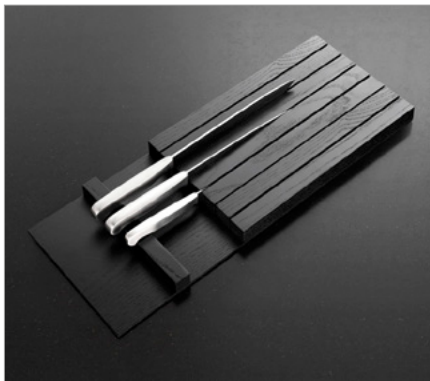
2

3

4

TAVINEA SORTO

Accessories

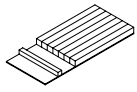
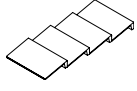
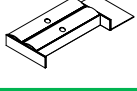



- The perfect accessories for any application
- Knives, spice jars, foil rolls, cutlery or even perfume - with Tavinea Sorto accessories, everything is perfectly sorted
- High-quality materials: Aluminium and solid wood

Notice:

- Accessories are hygiene-tested and food-safe

ORDER INFORMATION

1	Knife block Piece			
NL	Ash, bright	Ash, dark		
450	F007108657	F007108658		
500	F007101990	F007101995		
2	Spice rack Piece			
NL	Ash, bright	Ash, dark		
500	F007101992	F007101997		
3	Foil roll holder Piece			
NL	Ash, bright	Ash, dark		
500	F007101994	F007101999		
	Levelling element Piece			
	Ash, bright	Ash, dark		
	F007108659	F007108660		

PAGE REFERENCES

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PLANNING INFORMATION

All dimensions in millimetres

Knife block

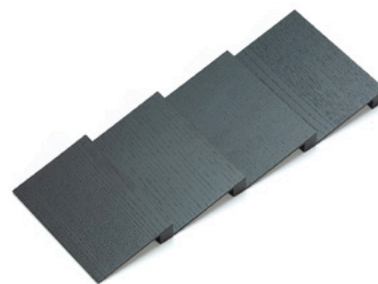
1



1

Spice rack

2



2

3

Foil roll holder

3



3

4

LEGEND

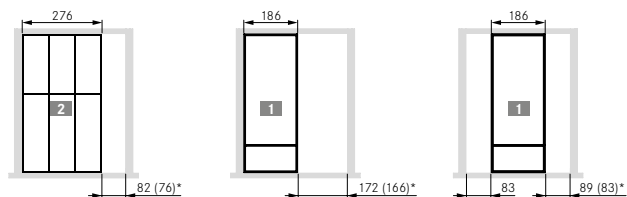
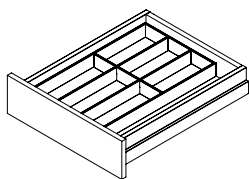
NL Nominal length

TAVINEA SORTO

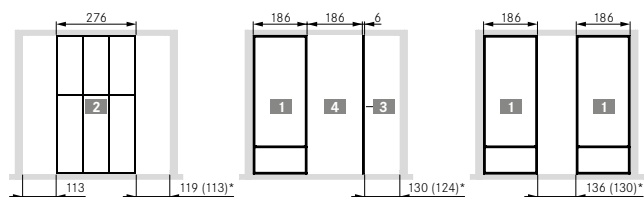
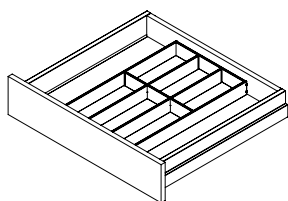
Planning dimensions

APPLICATION EXAMPLES

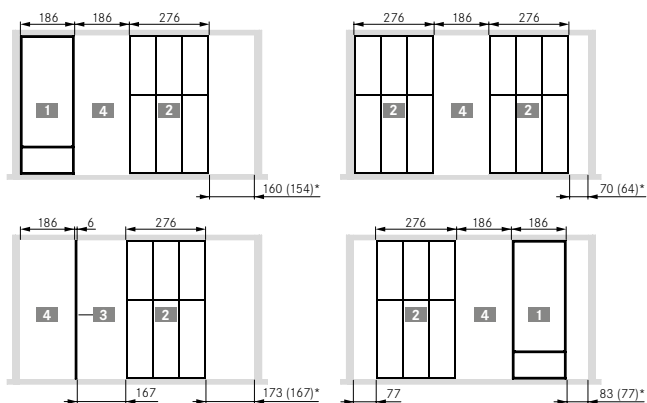
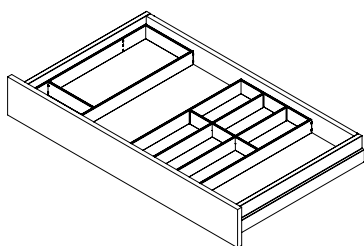
KB 450



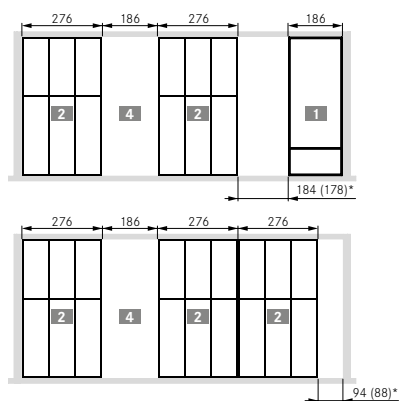
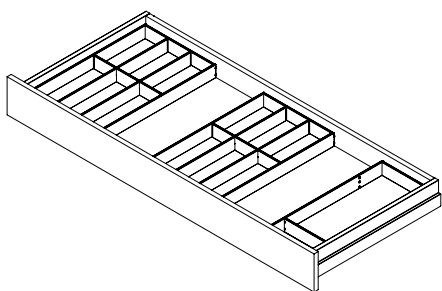
KB 600



KB 900



KB 1200



* S16 (S18/S19)

PAGE REFERENCES

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Slides	154	Accessories	190		

APPLICATION EXAMPLES

Description

1

2

3

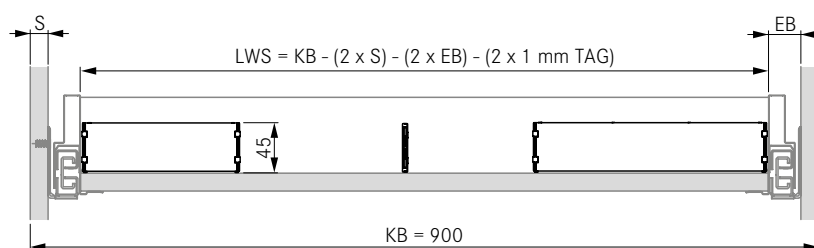
4

NL	X
350	329
400	379
450	429
500	479
550	530
600	580

1
2
3
4

PLANNING INFORMATION

Installation dimensions



S/EB	Cabinet width (KB)								
	300	400	450	500	600	800	900	1000	1200
16/29	208	308	358	408	508	708	808	908	1108
18/30	202	302	352	402	502	702	802	902	1102
19/29	202	302	352	402	502	702	802	902	1102
	Inside drawer width (LWS)								

LEGEND

EB	Installation width	S	Side wall thickness
KB	Cabinet width	TAG	Tolerance compensation
LWS	Inside drawer width		
NL	Nominal length		

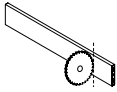
DRAWER DIVIDER


Dividing system

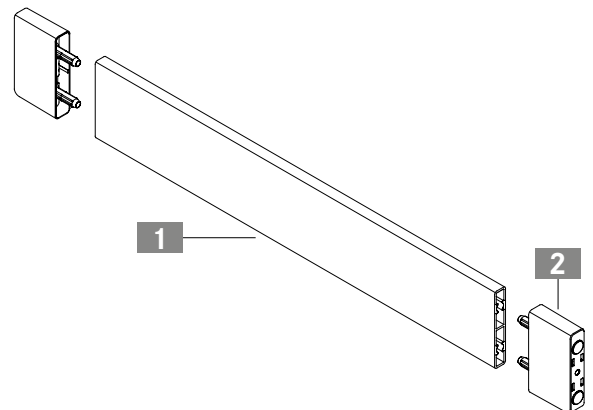


- Elegant organisation of storage space by dividing the drawer
- Compensation of cabinet side wall thickness through spring-loaded clamping elements
- Aluminium profiles for cutting to length
- Easy to install
- Tool-free adjustment
- Can be retrofitted at any time
- Colour coordinated

ORDER INFORMATION

1	Drawer divider for cutting to length			
	Piece			
				
L	Ice	Silver	Stone	
1185	F102102944	F102102945	F102102943	

2	Clamping unit			
	Piece: Left or right			
				
	Ice	Silver	Stone	
	F102102947	F102102948	F102102932	

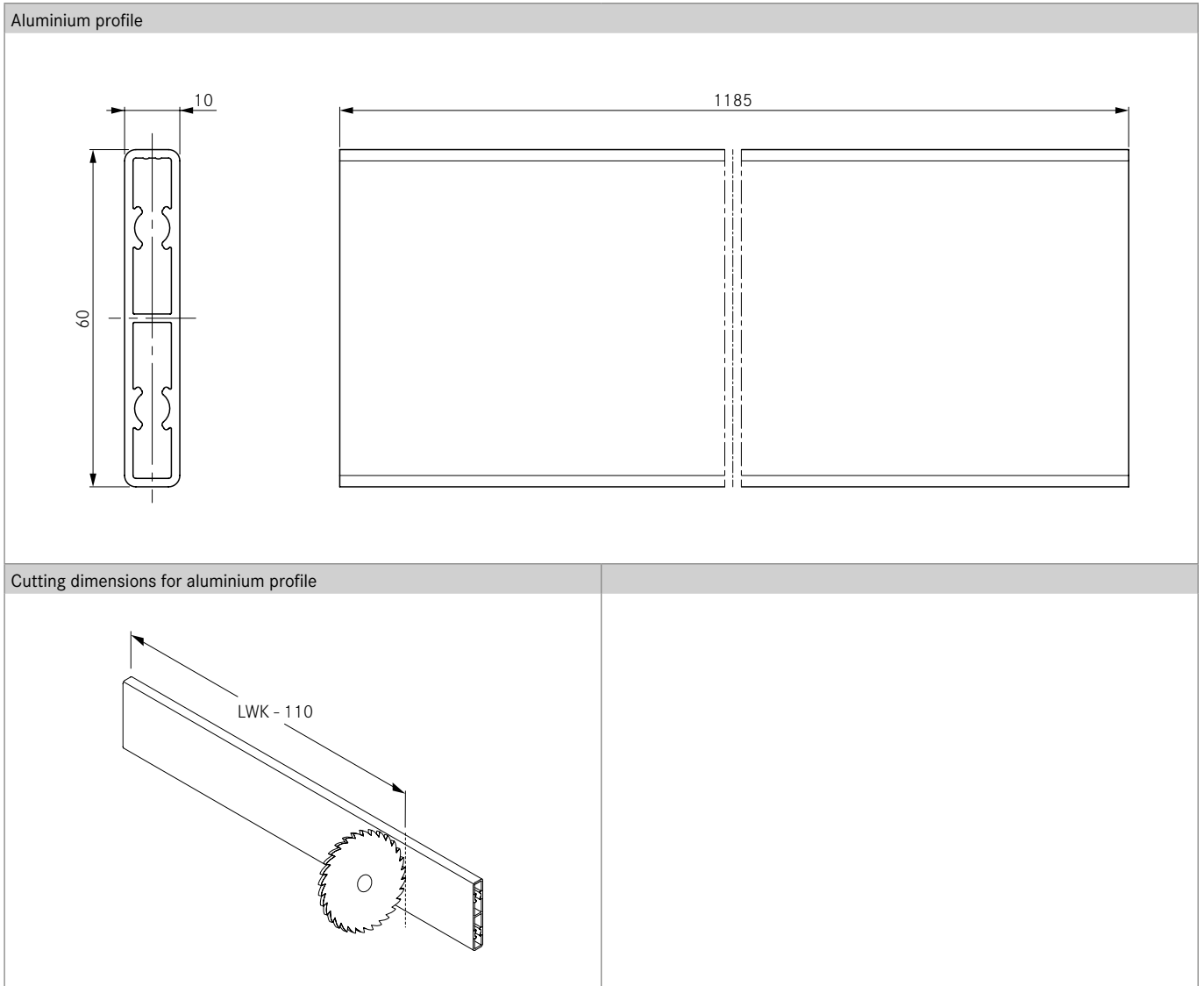


PAGE REFERENCES

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Slides	154	Assembly technology	197		

PLANNING INFORMATION

All dimensions in millimetres



1

2

3

4

LEGEND

L	Length
LWK	Inside cabinet width



SOPHISTICATED AND WELL-TESTED TECHNOLOGY FOR FAST, SAFE WORKING. THE VALUE OF A MOVEMENT SYSTEM IS MADE UP OF MANY INFLUENCING FACTORS. IN ADDITION TO VISUAL AND FUNCTIONAL PROPERTIES, THE FOCUS IS ON PERMANENTLY CONSISTENT QUALITY AND THE POSSIBILITIES FOR EFFICIENT PROCESSING. GRASS OFFERS PROFESSIONAL INSTALLATION AND ASSEMBLY AIDS FOR ALL PRODUCT FAMILIES, TAILORED TO THE MANUFACTURING TECHNOLOGY OF OUR SATISFIED CUSTOMERS.

Tecmator.
Strong. Fast.
Economical.



Along with the Tecmator drawer presses for the professional assembly of our drawer systems and the Tecmator drilling and insertion machines, GRASS offers a variety of useful accessories for trade and industry.



Tecmator Assembly Technology for Nova Pro One

Installation and assembly aids. Tried-and-tested technology for the professional and cost-effective assembly of GRASS movement systems.

Product description	Page
Tecmator ZP-N-E2 Industrial production of Nova Pro regular and pot drawers	198
Tecmator ZP-N-WOOD H186 Industrial production of Nova Pro regular and pot drawers	200
Tecmator ZMV-TP4 Semi-automatic assembly of regular and pot drawers	202
Tecmator ZMV-FIX H250 Mechanical assembly of regular and pot drawers	204
Assembly aids Nova Pro One	206

1

2

3

4

TECMATOR ZP-N-E2

Industrial production of Nova Pro regular and pot drawers




- Suitable for press fitting Nova Pro Scala/One drawers
- Suitable for press fitting wood or steel back panels - selectable via switch
- Press fitting wooden back panels with Nova Pro Scala H250 (3 dowels) possible
- Simple and straightforward handling of individual parts on the machine
- Sturdy frame construction
- Suitable for series production
- Drawer width can be adjusted up to KB 1,200 mm
- Flexible drawer width adjustment using wooden back panel as template
- Smooth width adjustment with pneumatic clamping
- Short process times

Standard equipment:

- Press fitting of bottom spikes for all nominal lengths
- Stop set for KB 250-1,200 (50 mm increments)
- Stops for five wooden back panel heights

ORDER INFORMATION

	Model variant	Type	Compressed air supply	Width	Depth	Height	Weight	Art. no.
	ZP-N-E2	1.2 m	6 bar	1.9 m	1 m	2.2 m	220 kg	F146131003

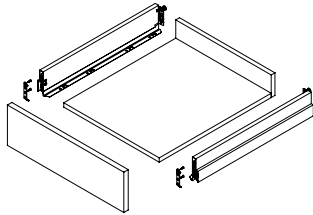
DECORATION PRESS FITTER

Description			Suitable for frame	Art. no.
<ul style="list-style-type: none"> • For press fitting Nova Pro One drawers 			Nova Pro One H90	F146131342

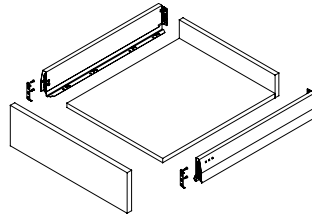
PAGE REFERENCES

Single Set	146	Inset panels	162	Assembly aids	206
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NOVA PRO SCALA



NOVA PRO ONE

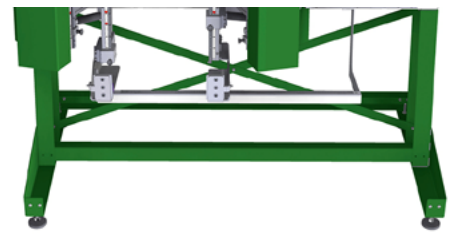
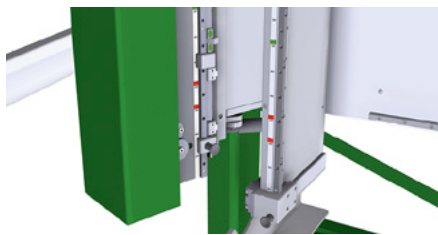
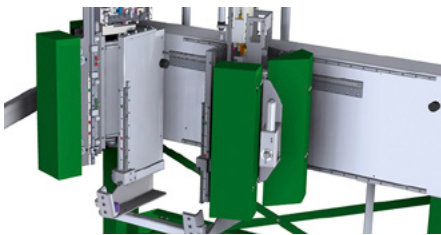


ADVANTAGES

Easy width adjustment thanks to pneumatic clamping

Straightforward handling of the individual parts on the machine

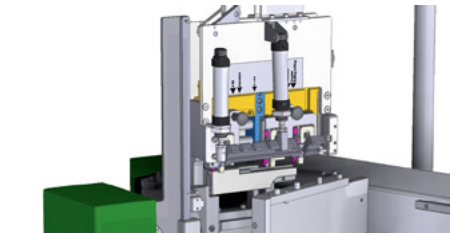
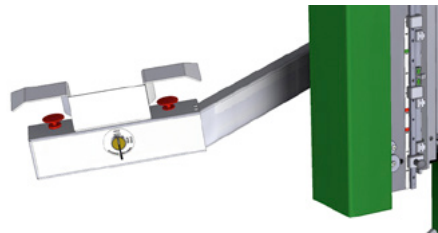
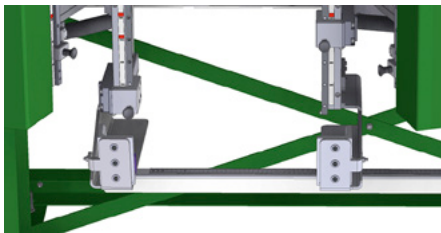
Very stable frame construction



Individual cabinet width adjustment via wooden back panel

Maximum safety thanks to two-hand control

Insertion unit for wooden back panels up to H250 with up to 3 dowels per side



1

2

3

4

TECMATOR ZP-N-WOOD H186

Industrial production of Nova Pro regular and pot drawers



- Suitable for press fitting Nova Pro Scala/One drawers
- Suitable for press fitting wooden back panels up to a side wall depth of H186
- Simple and straightforward handling of individual parts on the machine
- Sturdy frame construction
- Suitable for series production
- Drawer width can be adjusted up to KB 1,200 mm
- Flexible drawer width adjustment using wooden back panel as template
- Smooth width adjustment
- Short process times

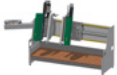
Standard equipment:

- Press fitting of bottom spikes for all nominal lengths
- Stop set for KB 250-1,200 (50 mm increments)
- Flexible drawer width adjustment using wooden back panel as template
- Flexible adjustment of the stops for wooden back panel heights

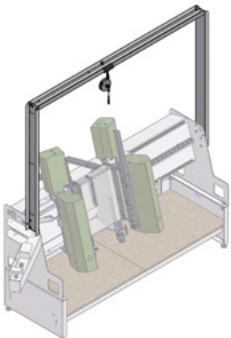
Notice:

- It is not possible to install side wall depth H250
- It is not possible to install steel back panels

ORDER INFORMATION

	Model variant	Compressed air supply	Width	Depth	Height	Weight		Art. no.
	ZP-N-Wood	6 bar	2.2 m	0.92 m	2.3 m	249 kg		F146132089

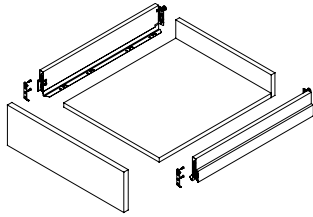
SUPERSTRUCTURE WITH PROVISION FOR PNEUMATIC SCREWDRIVERS

Description				Art. no.
<ul style="list-style-type: none"> • Superstructure with provision for pneumatic screwdrivers 				F146132370

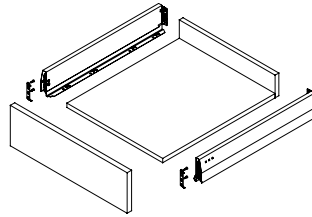
PAGE REFERENCES

Single Set	146	Inset panels	162	Assembly aids	206
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NOVA PRO SCALA

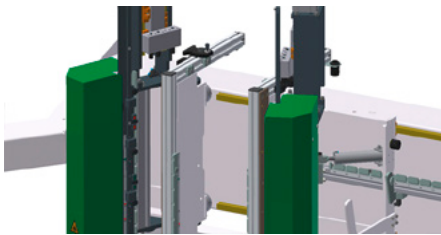


NOVA PRO ONE



ADVANTAGES

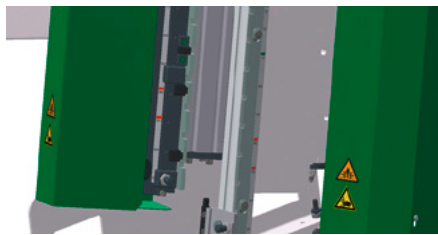
Easy width adjustment thanks to defined increments and flexible clamping lever



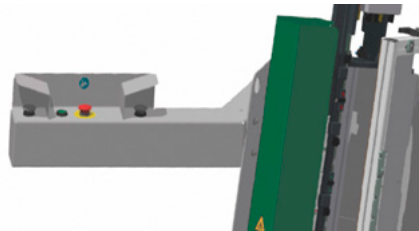
Flexible width adjustment via wooden back panel



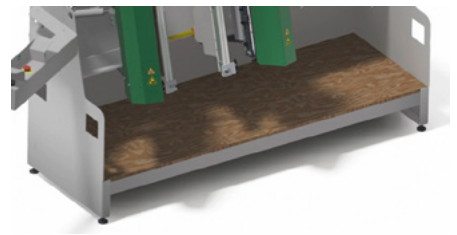
Machine stops can be adjusted manually with ease



Maximum safety thanks to two-hand control



Sturdy frame construction ensures excellent stability



Dowel press fitting for wooden back panels up to side wall depth H186



1

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TECMATOR ZMV-TP4

Semi-automatic assembly of regular and pot drawers



- Suitable for press-fitting Nova Pro Scala/One and Vionaro V13 drawers
- Pneumatic table top unit (drawer side height up to 250 mm)
- The ZMV-TP4 can be used to process drawers for outside cabinet widths of up to 1,200 mm
- Simple and straightforward handling
- Sturdy construction
- For small series production
- Pneumatic control
- High performance

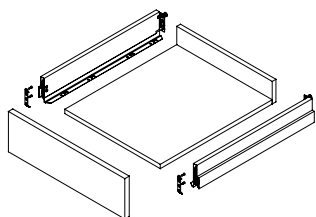
ORDER INFORMATION

	Model variant	Compressed air supply	Width	Depth	Height	Weight		Art. no.
	ZMV-TP4	6 bar	1.62 m	0.9 m	0.5 m	65 kg		F146108668

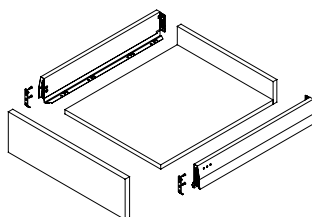
PAGE REFERENCES

Single Set	146	Inset panels	162	Assembly aids	206
Drawer sides	148	Accessories	178		
Slides	154	Organising systems	187		

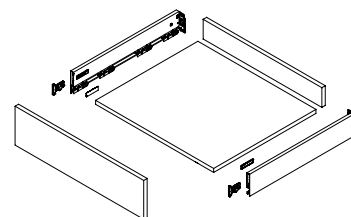
NOVA PRO SCALA



NOVA PRO ONE



VIONARO V13

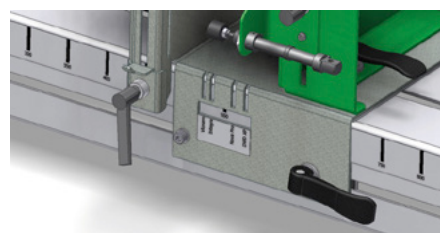
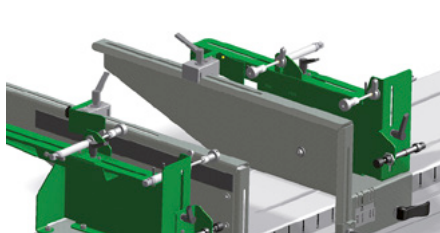
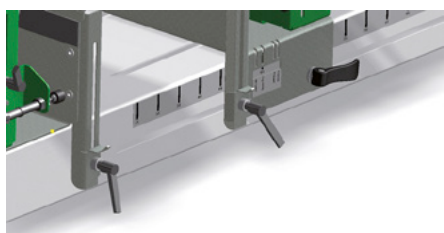


ADVANTAGES

Tool-free setting

Sturdy base frame with pneumatic closing mechanism

All GRASS drawer systems can be processed



- 1
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- 4

TECMATOR ZMV-FIX H250

Mechanical assembly of regular and pot drawers



- Suitable for installation of all GRASS drawers and extensions
- Suitable for installation of wooden and steel back panels
- Simple and straightforward handling of individual parts on the machine
- Lightweight frame construction (10 kg)
- Suitable for individual production
- Drawer side heights up to 250 mm can be installed
- Drawer width can be adjusted up to KB 1200 mm
- Flexible drawer width adjustment using wooden back panel as template (standard)
- Smooth width adjustment


Standard equipment:

- Flexible adjustment of the stops for drawer depth
- Flexible adjustment of the stops for wooden back panel heights
- Flexible drawer width adjustment using wooden back panel as template

Notice:

- Wooden back panels with 8 mm and 16 mm thickness can be installed, but must be screwed in
- Steel back panels can be installed, but must be screwed in

ORDER INFORMATION

	Model variant	Width	Depth	Height	Weight			Art. no.
	ZMV-FIX H250	1.52 m	0.72 m	0.36 m	10 kg			F146132388

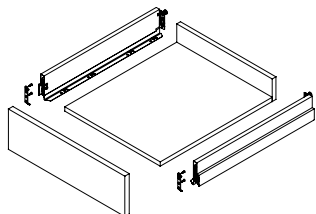
FIXED STOPS

Description			Functions	Art. no.
<ul style="list-style-type: none"> • For fixed adjustment of the back panel height 			Back panel height adjustment (fix)	F146132390

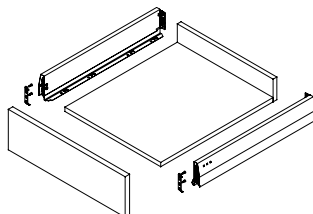
PAGE REFERENCES

Single Set	146	Inset panels	162	Assembly aids	206
Drawer sides	148	Accessories	178		
Slides	154	Organising systems	187		

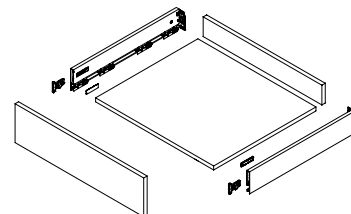
NOVA PRO SCALA



NOVA PRO ONE



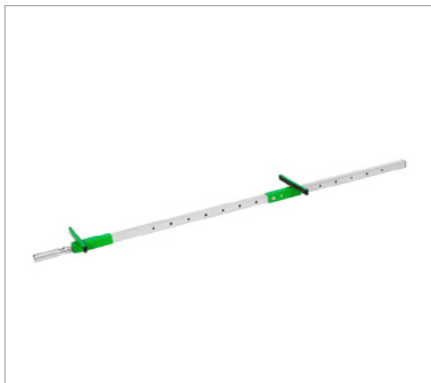
VIONARO V13



- 1
- 2
- 3
- 4

ASSEMBLY AIDS

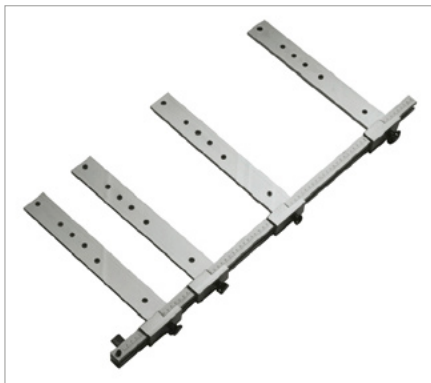
Nova Pro One



DRAWER CLAMP

- For easy assembly of regular and pot drawers up to a cabinet width of 1200 mm
- Can be used for all drawer side heights

Product type	Art. no.
Drawer clamp	F146108833



DRILLING JIG FOR CABINET RAIL

Guide rule (1 x), stop elements (4 x), stop plates (2 x)

Product type	Art. no.
Drilling jig	F146094730



STOP ELEMENT INDIVIDUAL

- For extension of the drilling jig, cabinet rail F146094730

Product type	Art. no.
Individual marking element	F146094721



DRILLING JIG FOR CABINET RAIL

- For use with pilot drill bit F146035692

	Art. no.
	F146134452

PAGE REFERENCES

Single Set	146	Inset panels	162	Assembly technology	197
Drawer sides	148	Accessories	178		
Slides	154	Organising systems	187		

1



WOOD DRILL BIT WITH STOP RING

- Used for pre-drilling holes for Euro screws
- Length 85 mm
- With stop ring

Diameter	Art. no.
5 mm	F146092594

2



DRILLING JIG SET

- Drilling jig for front-bottom panel connectors
- For drilling the bottom panel of extra-wide drawers when using the GRASS front-bottom panel connector.

Drilling jig (1x), marking jig (1x), drill bit dia. 8 mm (1x), drill bit dia. 15 mm (1x), bit for drill (1x), Allen key 3 mm (1x), Allen key 4 mm (1x)

Product type	Art. no.
Drilling jig	F146094770

3



REPLACEMENT DRILL BIT

- Replacement drill bit for drilling jig set

Diameter	Art. no.
8 mm	F146094755
15 mm	F146094757

4



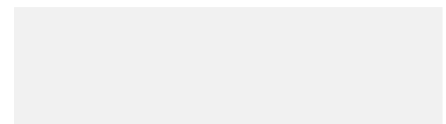
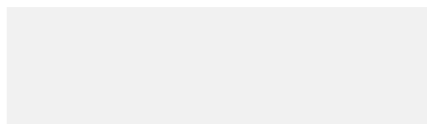
MARKING JIG SET

- For precise centre punching of holes for the Nova Pro installation hook

Suitable for frame	Art. no.
Nova Pro Scala H63	F146094036
Nova Pro Scala H90	F146092050
Nova Pro Scala H122	
Nova Pro One H90	F146101908
Nova Pro Scala H186	
Nova Pro Scala H250	
Nova Pro Scala Crystal Plus	

LEGEND

H	Height



ASSEMBLY AIDS

Nova Pro One



FRONT DRILLING JIG

- Front drilling jig for front holder, railing and add-on systems
- Can be used universally for front holes on drawer side heights
- Stable support due to high-quality aluminium construction

Product type	Art. no.
Drilling jig	F146130983



FRONT DRILLING JIG FOR F8 INSET PANEL

- For pre-drilling holes for the F8 inset panel

Product type	Art. no.
Drilling jig	F146102908



INSTALLATION HOOK PUNCHING TOOL

- Place, position and punch the installation hook for Nova Pro

Suitable for frame	Art. no.
Nova Pro One H90	F146091555
Nova Pro Scala H90	
Nova Pro Scala H122	
Nova Pro Scala H186	
Nova Pro Scala H250	
Nova Pro Scala Crystal Plus	F146094035
Nova Pro Scala H63	



FRONT CLIP PUNCHING TOOL

- Place, position and punch the front clip for Nova Pro Scala

Suitable for frame	Art. no.
Nova Pro Scala H186	F146102472
Nova Pro Scala H250	
Nova Pro Scala Crystal Plus	

PAGE REFERENCES

Single Set	146	Inset panels	162	Assembly technology	197
Drawer sides	148	Accessories	178		
Slides	154	Organising systems	187		



RAILING CLIP PUNCHING TOOL

- Place, position and punch the press-fit railing clip for Nova Pro

Suitable for frame	Art. no.
Nova Pro One Nova Pro Scala	F146102473



BOTTOM SPIKE PUNCHING TOOL

- Position the punching tool on the bottom spike and punch in
- Quick, easy installation: The bottom spikes integrated into the drawer side ensure secure attachment between the drawer side and the bottom panel

Suitable for frame	Art. no.
Nova Pro One Nova Pro Scala	F146130853



PUNCHING TOOL FRONT-BOTTOM PANEL CONNECTOR

- Place, position and punch the front-bottom panel connector

Suitable for	Art. no.
Front-ground connector	F146083271



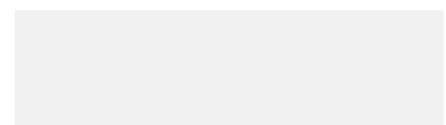
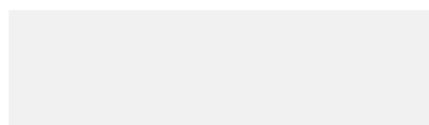
PILOT DRILL BIT

- The pilot drill bit is used for pre-drilling holes for countersunk chipboard screws

Diameter	Art. no.
3.5 mm	F146035692

LEGEND

H	Height
---	--------



Functional technology.
Perfect form.



FOLLOW US

vionaro V13

The perfection of the right angle.



TAVINEA Sorto interior accessories and Vionaro drawers are designed for each other. Two drawer side elements, one divider rail. Nothing more. Everything you need to get organised.







reddot award
winner 2014



Vionaro V13

Drawer System

Vionaro V13 - the cubist drawer system with a minimalist, elegant look.

	Vionaro V13	216	1
	Dividing and Organising Systems	261	2
	Opening Systems	273	3
	Assembly Technology	289	4

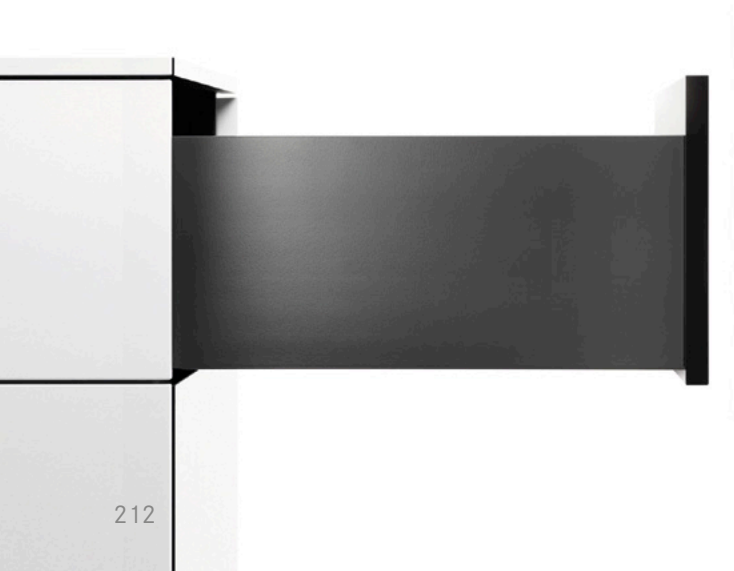


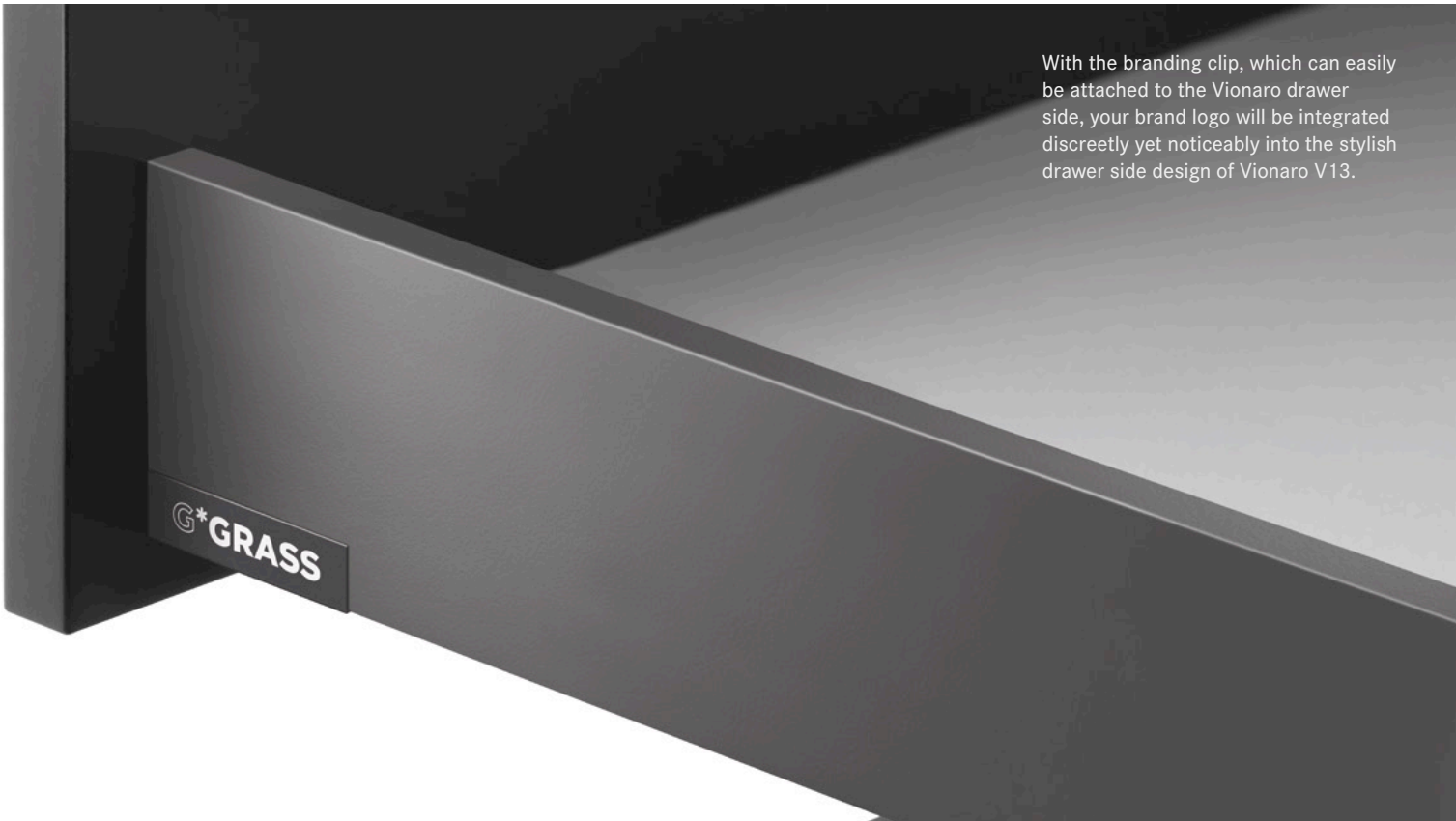
13 millimetres. Good design needs nothing added.

Maximum reduction means using the least possible to make the most possible. With its slim 13-millimetre drawer sides, the cubist Vionaro V13 drawer system ensures a sophisticated look of the storage space. When we designed Vionaro we didn't add anything - except right angles.


A clear shape, sleek design and high-quality materials - the elegance of Vionaro V13 makes furniture look equally good in the kitchen, bathroom, living room and bedroom. Designed with this in mind, Vionaro is the slim design classic that outlasts the trends.

Vionaro V13.
A statement
for exclusive
interior design.

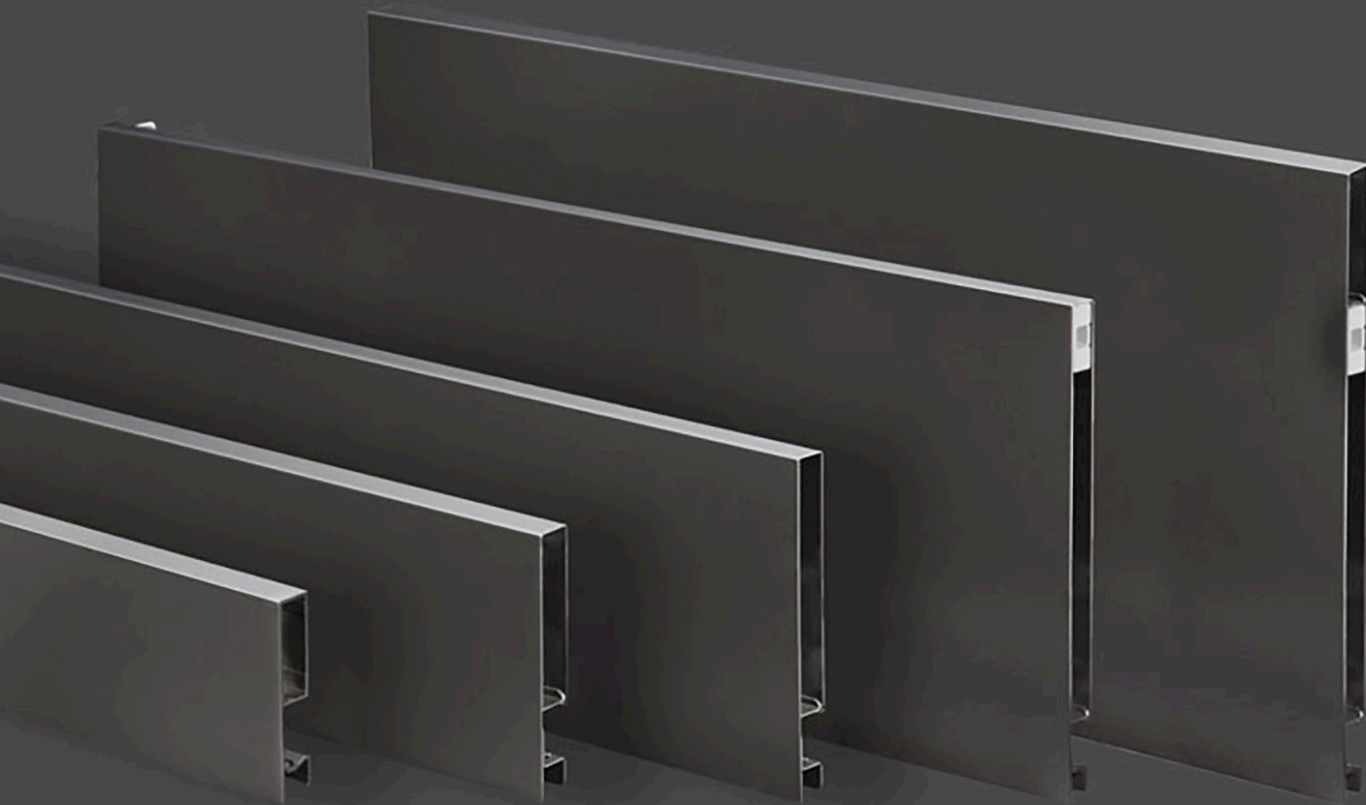




With the branding clip, which can easily be attached to the Vionaro drawer side, your brand logo will be integrated discreetly yet noticeably into the stylish drawer side design of Vionaro V13.

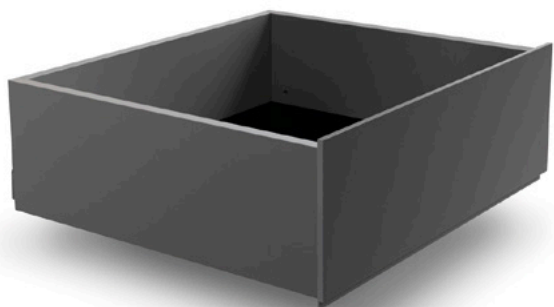


Beauty, attention to detail, precision in movement and perfect industrial production. Hardly any other drawer system combines balanced, emotive aspects as harmoniously as Vionaro V13.



Five drawer side heights for maximum flexibility.

The elegant steel drawer sides function as design highlights, meaning decorative accessories can be completely dispensed with. With heights of 63, 89, 121, 185 and 249 mm, furniture design can be reinvented day after day.



The ideal addition.
As compelling on the inside
as on the outside.

The exterior elegance of the Vionaro drawers is continued on the inside. With the colour-coordinated aluminium trim panels or the Crystal concealed panel with its large glass surface, the concealed drawers form an elegant finish.

The front stabiliser integrated into the Vionaro drawer side allows the installation of high fronts up to 780 mm without an obtrusive railing.

Highest possible fronts for a modern front appearance.

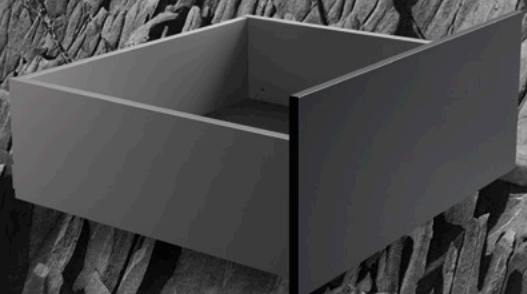
The architecture of modern furniture appeals with its expansive surfaces and clear lines. Vionaro provides maximum stability for such items of furniture characterised by visual effect and design.

Standard colour ICE




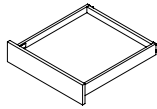

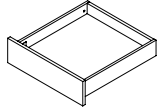

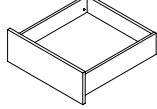

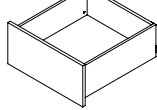

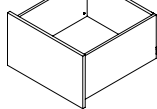
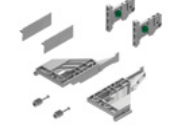
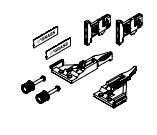

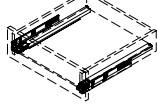

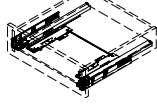

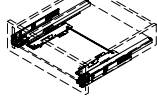
The powder-coated Vionaro drawer sides harmonise with contemporary interior designs. But the colours also boast ecological advantages. By using environmentally friendly powder coatings and energy-saving low-temperature technology, each drawer ensures greater sustainability. They also have a protective function. They are robust, scratch-resistant and resistant to common household chemicals.

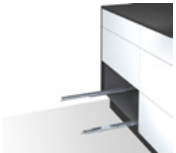
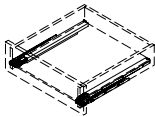

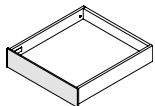

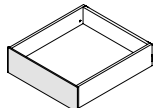

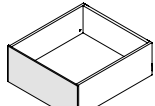

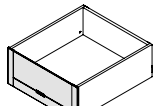

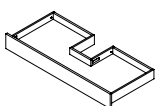

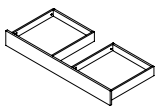
Standard colour GRAPHITE



Vionaro V13 Drawer System

The ideal shape is simple and clear:
Vionaro V13 - the slim design classic of tomorrow.

	Description		Page
	Vionaro V13 Drawer H63 <ul style="list-style-type: none"> Extremely shallow drawer to accommodate low available height 4-dimensional adjustment (side, height, tilt angle and depth adjustment) 90° straight inner and outer sides Slim 13 mm drawer side width 		218
	Vionaro V13 Drawer H89 <ul style="list-style-type: none"> The practical standard drawer for every application 4-dimensional adjustment (side, height, tilt angle and depth adjustment) 90° straight inner and outer sides Slim 13 mm drawer side width 		220
	Vionaro V13 Drawer H121 <ul style="list-style-type: none"> The elegant intermediate height for special applications 4-dimensional adjustment (side, height, tilt angle and depth adjustment) 90° straight inner and outer sides Slim 13 mm drawer side width 		222
	Vionaro V13 Pot drawer H185 <ul style="list-style-type: none"> High, closed drawer side 4-dimensional adjustment (side, height, tilt angle and depth adjustment) 90° straight inner and outer sides Slim 13 mm drawer side width 		224
	Vionaro V13 Pot drawer H249 <ul style="list-style-type: none"> Extremely high, closed drawer side for a special furniture design 4-dimensional adjustment (side, height, tilt angle and depth adjustment) 90° straight inner and outer sides Slim 13 mm drawer side width 		226
	Vionaro V13 Accessories – individual components <ul style="list-style-type: none"> Components of accessory set for repeat or individual orders 		228
	Dynapro Soft-close Full extension slide 40/70 kg <ul style="list-style-type: none"> Synchronised full extension slide Soft-close damping system Excellent running characteristics 		230
	Dynapro Tipmatic Soft-close Full extension slide 40/70 kg <ul style="list-style-type: none"> Synchronised full extension slide Combines Tipmatic function with Soft-close damper Excellent running characteristics 		232
	Dynapro Tipmatic Soft-close 30 kg full extension slide for short and light drawers <ul style="list-style-type: none"> Mechanical opening system with low closing force for light and narrow drawers with handle-free fronts Combines Tipmatic function with Soft-close damper Excellent running characteristics 		234

	Description		Page
	<p>Dynapro Bottom panel frame set mounting</p> <ul style="list-style-type: none"> • Assembly on the cabinet base or shelf • Synchronised full extension slide • Soft-close damping system 		236
	<p>Vionaro V13 Inset panel for inset drawer H89</p> <ul style="list-style-type: none"> • Colour-coordinated front panel profile made of aluminium • Smooth inner and outer sides provide a high-quality look 		238
	<p>Vionaro V13 Inset panel for inset drawer H121</p> <ul style="list-style-type: none"> • Colour-coordinated front panel profile made of aluminium • Smooth inner and outer sides provide a high-quality look 		240
	<p>Vionaro V13 Inset panel for inset drawer H185</p> <ul style="list-style-type: none"> • Colour-coordinated front panel profile made of aluminium • Smooth inner and outer sides provide a high-quality look 		242
	<p>Vionaro V13 Crystal inset panel for H185 inset drawer</p> <ul style="list-style-type: none"> • Colour-coordinated with Vionaro • Elegant design • Low complexity of parts • Easy to install 		244
	<p>Application examples Sink drawer with cut-out</p> <ul style="list-style-type: none"> • Maximum storage space utilisation in the sink area through individual combination with shorter drawer sides • Easy to install with Vionaro standard products • Variable width, variable cut-out 		248
	<p>Application examples Sink drawer with cut-out</p> <ul style="list-style-type: none"> • Simple construction for extra storage space in the sink area • Easy to install with Vionaro standard products • Variable width, variable cut-out 		250
	<p>Vionaro V13 Technical information</p>		252

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VIONARO V13

Drawer H63

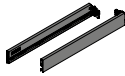


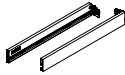
- Extremely shallow drawer to accommodate low available height
- 4-dimensional adjustment
- Integrated side, height and tilt angle adjustment
- Depth adjustment optional
- 90° straight inner and outer sides
- Slim 13 mm drawer side width
- Tool-free fitting of front
- No need to machine the bottom panel

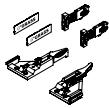
Notice:

- Front-bottom panel connector recommended for KB 600 mm and above

ORDER INFORMATION

1 Vionaro V13 Drawer H63 Graphite				
				
NL	Graphite Left, Right	Graphite Left	Graphite Right	
400		F135106019	F135106020	
450	F135106024	F135106025	F135106026	
500	F135106030	F135106031	F135106032	
550	F135106036			

1 Vionaro V13 Drawer H63 Ice				
				
NL	Ice Left, Right	Ice Left	Ice Right	
400		F135106219	F135106220	
450	F135106224	F135106225	F135106226	
500	F135106230	F135106231	F135106232	
550	F135106236			

2 Vionaro V13 Accessories for H63			
Set: Cover cap, Front locking device, Front holder			
			
Mounting material	Graphite	Ice	
Screw (excl.)	F136101004	F136101005	

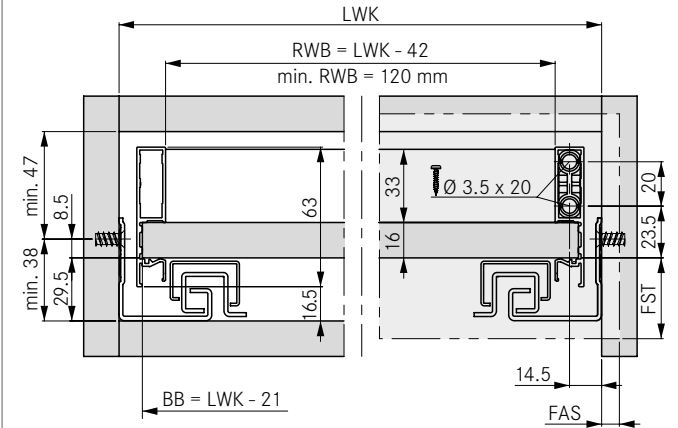
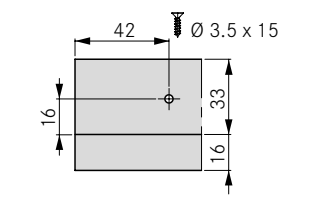
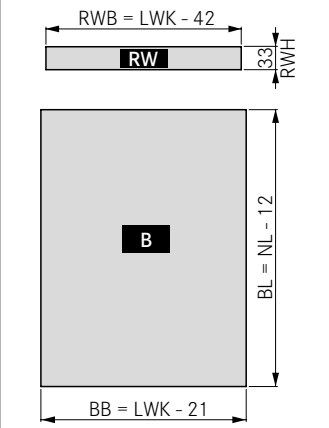
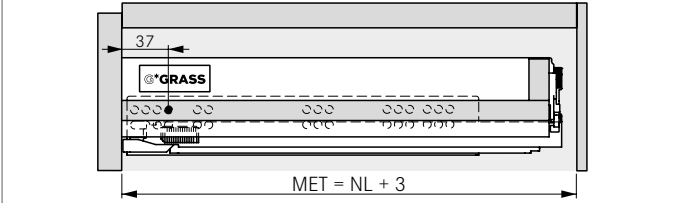
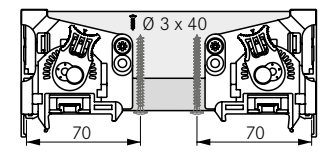
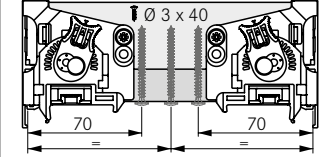
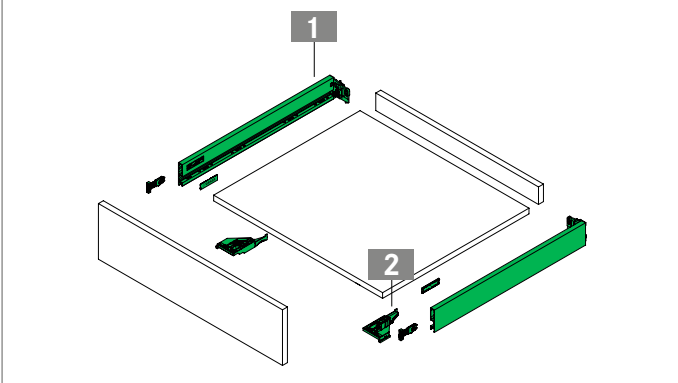
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PLANNING INFORMATION

All dimensions in millimetres

Front panel installation dimensions	Installation dimensions for back panel	Cutting dimensions for 16 mm chipboard
		
<p>Minimum installation depth</p> 	<p>Back panel screw fitting (KB ≥ 275)</p> 	<p>Back panel screw fitting (KB ≥ 600)</p> 
<p>Exploded Drawing</p> 		

LEGEND

B	Bottom panel	FST	Front overlay	MET	Minimum installation depth
BB	Bottom panel width	KB	Cabinet width	NL	Nominal length
BL	Bottom panel length	KV	Front edge of cabinet	RWB	Back panel width
FAS	Front overlay, side	LWK	Inside cabinet width	RWH	Back panel height



VIONARO V13

Drawer H89



- The practical standard drawer for every application
- 4-dimensional adjustment
- Integrated side, height and tilt angle adjustment
- Depth adjustment optional
- 90° straight inner and outer sides
- Slim 13 mm drawer side width
- Tool-free fitting of front
- No need to machine the bottom panel

Notice:

- Front-bottom panel connector recommended for KB 600 mm and above

ORDER INFORMATION

1 Vionaro V13 Drawer H89 Graphite				
NL	Graphite Left, Right	Graphite Left	Graphite Right	
270	F135119303	F135119304	F135119305	
300	F135119306	F135119307	F135119308	
350	F135119312	F135119313	F135119314	
400	F135119318	F135119319	F135119320	
450	F135119324	F135119325	F135119326	
500	F135119333	F135119334	F135119335	
550	F135119342	F135119343	F135119344	
600	F135119351	F135119352	F135119353	
650	F135119400	F135119401	F135119402	

1 Vionaro V13 Drawer H89 Ice				
NL	Ice Left, Right	Ice Left	Ice Right	
270	F135120603	F135120604	F135120605	
300	F135120606	F135120607	F135120608	
350	F135120612	F135120613	F135120614	
400	F135120618	F135120619	F135120620	
450	F135120624	F135120625	F135120626	
500	F135120633	F135120634	F135120635	
550	F135120642	F135120643	F135120644	
600	F135120651	F135120652	F135120653	
650	F135120654	F135120655	F135120656	

2 Vionaro V13 Accessories for H89/H121 Set: Cover cap, Front locking device, Front holder			
Mounting material	Graphite	Ice	
Expansion dowel (pre-mounted)	F136100124	F136100126	
Screw (excl.)	F136100123	F136100125	

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PLANNING INFORMATION

All dimensions in millimetres

Front panel installation dimensions	Installation dimensions for back panel	Cutting dimensions for 16 mm chipboard
<p>Minimum installation depth</p>	<p>Back panel screw fitting (KB ≥ 275)</p>	<p>Back panel screw fitting (KB ≥ 600)</p>
<p>Exploded Drawing</p>		

LEGEND

B Bottom panel	FST Front overlay	MET Minimum installation depth
BB Bottom panel width	KB Cabinet width	NL Nominal length
BL Bottom panel length	KV Front edge of cabinet	RWB Back panel width
FAS Front overlay, side	LWK Inside cabinet width	RWH Back panel height



VIONARO V13

Drawer H121



- The elegant intermediate height for special applications
- 4-dimensional adjustment
- Integrated side, height and tilt angle adjustment
- Depth adjustment optional
- 90° straight inner and outer sides
- Slim 13 mm drawer side width
- Tool-free fitting of front
- No need to machine the bottom panel

Notice:

- Front-bottom panel connector recommended for KB 600 mm and above

ORDER INFORMATION

1 Vionaro V13 Drawer H121 Graphite				
	Graphite	Graphite	Graphite	
NL	Left, Right	Left	Right	
350	F135124212	F135124213	F135124214	
400	F135124218	F135124219	F135124220	
450	F135124224	F135124225	F135124226	
500	F135124230	F135124231	F135124232	
550	F135124236	F135124237	F135124238	

1 Vionaro V13 Drawer H121 Ice				
	Ice	Ice	Ice	
NL	Left, Right	Left	Right	
350	F135124312	F135124313	F135124314	
400	F135124318	F135124319	F135124320	
450	F135124324	F135124325	F135124326	
500	F135124330	F135124331	F135124332	
550	F135124336	F135124337	F135124338	

2 Vionaro V13 Accessories for H89/H121			
Set: Cover cap, Front locking device, Front holder			
Mounting material	Graphite	Ice	
Expansion dowel (pre-mounted)	F136100124	F136100126	
Screw (excl.)	F136100123	F136100125	

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PLANNING INFORMATION

All dimensions in millimetres

Front panel installation dimensions	Installation dimensions for back panel	Cutting dimensions for 16 mm chipboard
<p>Minimum installation depth</p>	<p>Back panel screw fitting (KB ≥ 275)</p>	<p>Back panel screw fitting (KB ≥ 600)</p>
<p>Exploded Drawing</p>		

LEGEND

B	Bottom panel	FST	Front overlay	MET	Minimum installation depth
BB	Bottom panel width	KB	Cabinet width	NL	Nominal length
BL	Bottom panel length	KV	Front edge of cabinet	RWB	Back panel width
FAS	Front overlay, side	LWK	Inside cabinet width	RWH	Back panel height



VIONARO V13

Pot drawer H185



- High, closed drawer side
- 4-dimensional adjustment
- Integrated side, height and tilt angle adjustment
- Depth adjustment optional
- 90° straight inner and outer sides
- Slim 13 mm drawer side width
- Tool-free fitting of front
- No need to machine the bottom panel
- Integrated front stabiliser for high fronts

Notice:

- Front-bottom panel connector recommended for KB 600 mm and above

ORDER INFORMATION

1 Vionaro V13 Pot drawer H185 Graphite				
	Graphite	Graphite	Graphite	
NL	Left, Right	Left	Right	
270	F135119412	F135119413	F135119414	
300	F135119415	F135119416	F135119417	
350	F135119421	F135119422	F135119423	
400	F135119427	F135119428	F135119429	
450	F135119433	F135119434	F135119435	
500	F135119442	F135119443	F135119444	
550	F135119451	F135119452	F135119453	
600	F135119460	F135119461	F135119462	
650	F135119463	F135119464	F135119465	

1 Vionaro V13 Pot drawer H185 Ice				
	Ice	Ice	Ice	
NL	Left, Right	Left	Right	
270	F135120803	F135120804	F135120805	
300	F135120806	F135120807	F135120808	
350	F135120812	F135120813	F135120814	
400	F135120818	F135120819	F135120820	
450	F135120824	F135120825	F135120826	
500	F135120833	F135120834	F135120835	
550	F135120842	F135120843	F135120844	
600	F135120851	F135120852	F135120853	
650	F135120854	F135120855	F135120856	

2 Vionaro V13 Accessories for H185/H249			
Set: Cover cap, Front locking device, Front holder, Front stabiliser			
Mounting material	Graphite	Ice	
Expansion dowel (pre-mounted)	F136136824	F136136825	
Screw (excl.)	F136136790	F136136791	

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PLANNING INFORMATION

All dimensions in millimetres

Front panel installation dimensions	Installation dimensions for back panel	Cutting dimensions for 16 mm chipboard
<p> LWK $RWB = LWK - 42$ $min. RWB = 120\text{ mm}$ $min. 169$ 185 155 96 32 31 FST 16.5 16 14.5 FAS $min. 38$ 29.5 8.5 $Ø 8 \times 8.5$ $Ø 3.5 \times 20$ $Ø 8 \times 13$ $BB = LWK - 21$ </p>	<p> 10 $Ø 3.5 \times 15$ 64 63 155 16 </p>	<p> $RWB = LWK - 42$ $RWH = 155$ $BB = LWK - 21$ $BL = NL - 12$ </p>
<p>Minimum installation depth</p> <p> 37 $MET = NL + 3$ </p>	<p>Back panel screw fitting ($KB \geq 275$)</p> <p> $Ø 3 \times 40$ 47 47 </p>	<p>Back panel screw fitting ($KB \geq 600$)</p> <p> $Ø 3 \times 40$ 47 47 </p>
<p>Exploded Drawing</p> <p> 1 2 </p>		

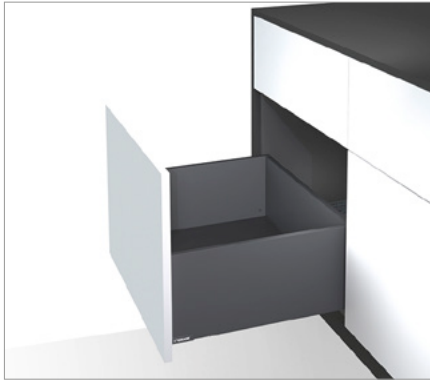
LEGEND

B Bottom panel	FST Front overlay	MET Minimum installation depth
BB Bottom panel width	KB Cabinet width	NL Nominal length
BL Bottom panel length	KV Front edge of cabinet	RWB Back panel width
FAS Front overlay, side	LWK Inside cabinet width	RWH Back panel height



VIONARO V13

Pot drawer H249



- Extremely high, closed drawer side for a special furniture design
- 4-dimensional adjustment
- Integrated side, height and tilt angle adjustment
- Depth adjustment optional
- 90° straight inner and outer sides
- Slim 13 mm drawer side width
- Tool-free fitting of front
- No need to machine the bottom panel
- Integrated front stabiliser for high fronts

Notice:

- Front-bottom panel connector recommended for KB 600 mm and above

ORDER INFORMATION

1 Vionaro V13 Pot drawer H249 Graphite				
NL	Graphite Left, Right	Graphite Left	Graphite Right	
450	F135106874	F135106875	F135106876	
500	F135106880	F135106881	F135106882	
550	F135106886	F135106887	F135106888	
600	F135106892	F135106893	F135106894	

1 Vionaro V13 Pot drawer H249 Ice				
NL	Ice Left, Right	Ice Left	Ice Right	
450	F135106974	F135106975	F135106976	
500	F135106980	F135106981	F135106982	
550	F135106986	F135106987	F135106988	
600	F135106992	F135106993	F135106994	

2 Vionaro V13 Accessories for H185/H249 Set: Cover cap, Front locking device, Front holder, Front stabiliser			
Mounting material	Graphite	Ice	
Expansion dowel (pre-mounted)	F136136824	F136136825	
Screw (excl.)	F136136790	F136136791	

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PLANNING INFORMATION

All dimensions in millimetres

Front panel installation dimensions	Installation dimensions for back panel	Cutting dimensions for 16 mm chipboard
<p>Minimum installation depth</p>	<p>Back panel screw fitting (KB ≥ 275)</p>	<p>Back panel screw fitting (KB ≥ 600)</p>
<p>Exploded Drawing</p>		

LEGEND


B Bottom panel	FST Front overlay	MET Minimum installation depth
BB Bottom panel width	KB Cabinet width	NL Nominal length
BL Bottom panel length	KV Front edge of cabinet	RWB Back panel width
FAS Front overlay, side	LWK Inside cabinet width	RWH Back panel height




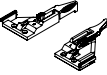
VIONARO V13


Accessories – individual components


ORDER INFORMATION


1	Vionaro V13 Front holder H63 Piece: Left or right		
Ø	Mounting material	Art. no.	
	Screw (excl.)	F136118050	
8	Dowel (pre-mounted)	F136118051	


2	Vionaro V13 Front holder H89/H121/H185/H249 Piece: Left or right		
Ø	Mounting material	Art. no.	
	Screw (excl.)	F136116276	
8	Expansion dowel (pre-mounted)	F136118019	
10	Dowel (pre-mounted)	F136116271	

3	Vionaro V13 Front locking device Piece		
Adjustable	Left	Right	
No	F136107622	F136107623	

4	Vionaro V13 Front stabiliser Piece: Left or right		
Ø	Type of assembly	Art. no.	
	To screw	F136135000	
8	Press-in	F136118030	
10	Press-in	F136118012	

5	Vionaro V13 Cover cap for drawer side Piece: Left or right		
Design	Graphite	Ice	
With GRASS Logo	F136118068	F136118070	
Without Logo	F136118067	F136118069	

6	Vionaro V13 Branding clip Piece: Left or right		
Design	Graphite	Ice	
With GRASS Logo	F136118059	F136118060	

7	Front-bottom panel connector for wood fronts Piece		
	Suitable for cabinet width	Art. no.	
	From 600 mm: 1 piece (Vionaro V8), From 600 mm: 1 piece (Vionaro V13), From 800 mm: 1 piece (Nova Pro)	F148026744	

PAGE REFERENCES

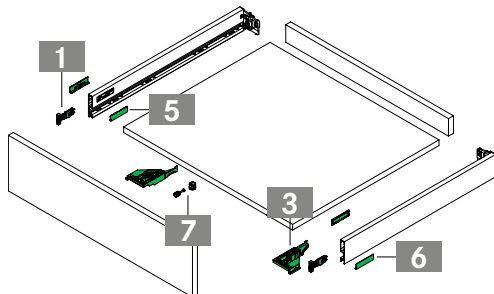
Drawer sides	218	Technical information	252	Assembly technology	289
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PLANNING INFORMATION

All dimensions in millimetres

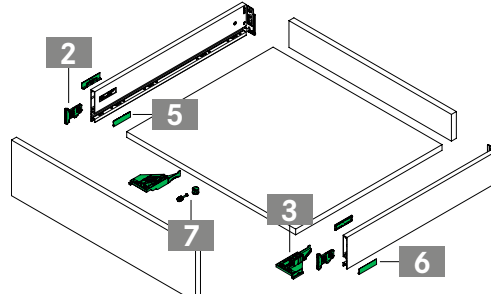
Drawer H63

Requires: 1 (2x), 3 (1x), 5 (2x)
Optional: 6 (2x), 7 (1x)



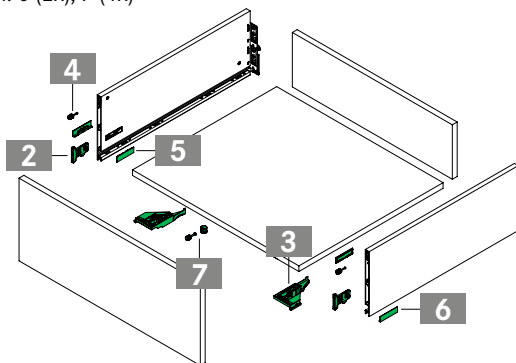
Drawer H89/H121

Requires: 2 (2x), 3 (1x), 5 (2x)
Optional: 6 (2x), 7 (1x)

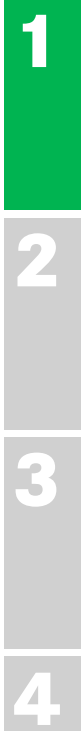
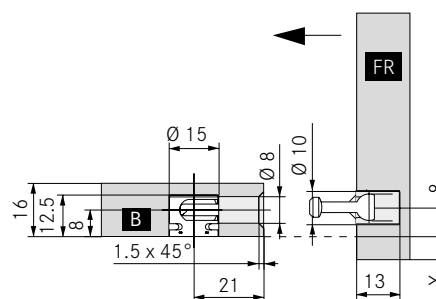


Pot drawer H185/H249

Requires: 2 (2x), 3 (1x), 4 (2x), 5 (2x)
Optional: 6 (2x), 7 (1x)



Front-bottom connector (optional)



LEGEND

- B** Bottom panel
- FR** Front
- KB** Cabinet width

DYNAPRO SOFT-CLOSE

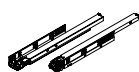
Full extension slide 40/70 kg



- Excellent running characteristics
- Fully synchronised slide technology
- Soft-close damping system
- Maximum side stability
- Minimum drawer deflection
- Stepless self-locking of the drawer when pushed onto the slide
- Can also be used for wooden drawers

ORDER INFORMATION

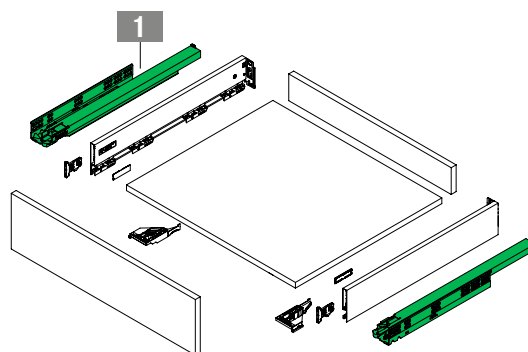
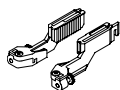
1 Dynapro Full extension slide 40 kg Soft-close				
	40 kg		40 kg	
NL	Left, Right	Left	Right	
270	F130107793	F130107794	F130107795	
300	F130107796	F130107797	F130107798	
350	F130107802	F130107803	F130107804	
400	F130107808	F130107809	F130107810	
450	F130107814	F130107815	F130107816	
500	F130107820	F130107821	F130107822	
550	F130107826	F130107827	F130107828	
600	F130107829	F130107830	F130107831	



1 Dynapro Full extension slide 70 kg Soft-close				
	70 kg		70 kg	
NL	Left, Right	Left	Right	
450	F130107832	F130107833	F130107834	
500	F130107838	F130107839	F130107840	
550	F130107844	F130107845	F130107846	
600	F130107850	F130107851	F130107852	
650	F130107853	F130107854	F130107855	



Depth adjustment				
Set: Left, Right				
Type of assembly	Left, Right			
To clip on	F134101313			

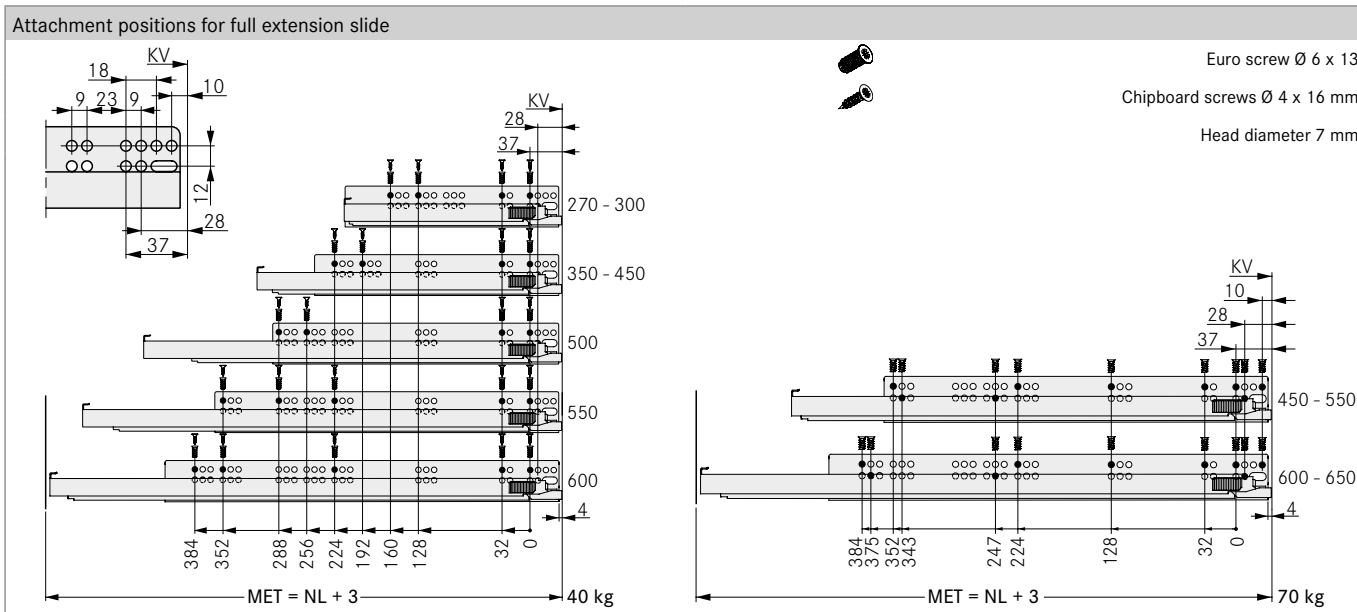
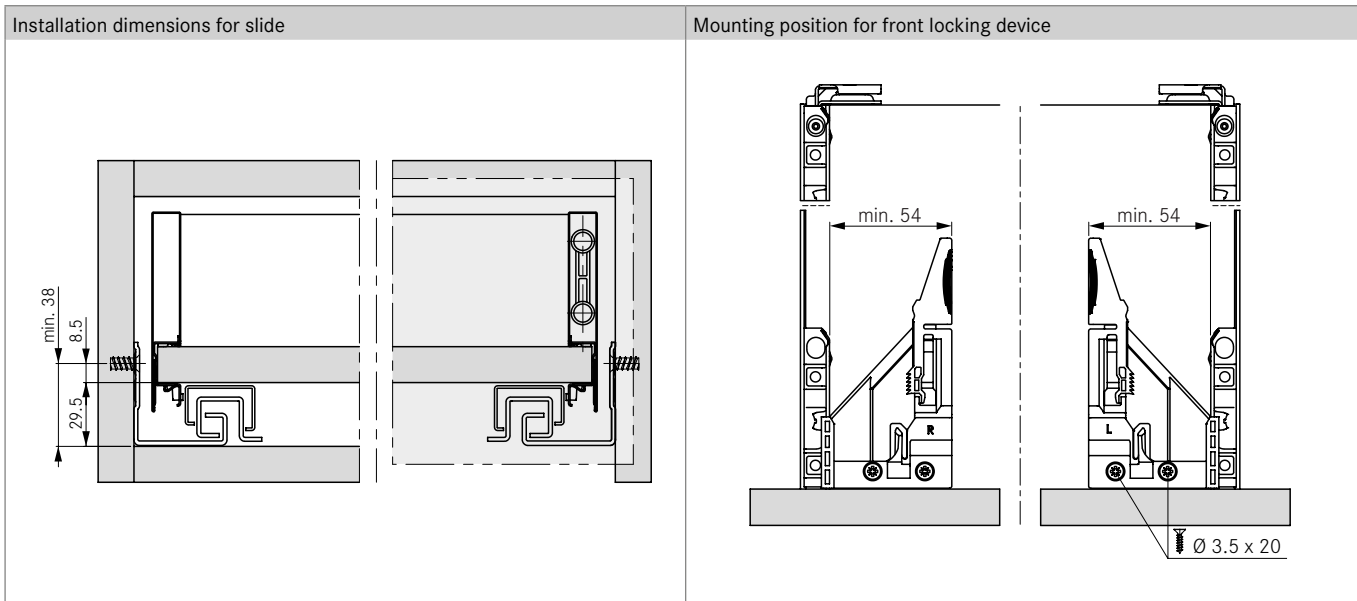


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PLANNING INFORMATION

All dimensions in millimetres



LEGEND

- KV** Front edge of cabinet
- MET** Minimum installation depth
- NL** Nominal length



DYNAPRO TIPMATIC SOFT-CLOSE

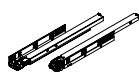
Full extension slide 40/70 kg



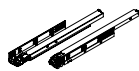
- Mechanical opening system for handle-free fronts
- Combines Tipmatic function with Soft-close damper
- Tool-free installation of the Tipmatic Soft-close unit
- Can be used with Dynapro full extension slide 40/70 kg Soft-close
- 3-stage adjustment of the opening force
- Large activation zone due to synchronisation rod
- Can also be used for wooden drawers

ORDER INFORMATION

1 Dynapro Full extension slide 40 kg Soft-close				
NL	40 kg	40 kg	40 kg	
	Left, Right	Left	Right	
270	F130107793	F130107794	F130107795	
300	F130107796	F130107797	F130107798	
350	F130107802	F130107803	F130107804	
400	F130107808	F130107809	F130107810	
450	F130107814	F130107815	F130107816	
500	F130107820	F130107821	F130107822	
550	F130107826	F130107827	F130107828	
600	F130107829	F130107830	F130107831	



1 Dynapro Full extension slide 70 kg Soft-close				
NL	70 kg	70 kg	70 kg	
	Left, Right	Left	Right	
450	F130107832	F130107833	F130107834	
500	F130107838	F130107839	F130107840	
550	F130107844	F130107845	F130107846	
600	F130107850	F130107851	F130107852	
650	F130107853	F130107854	F130107855	



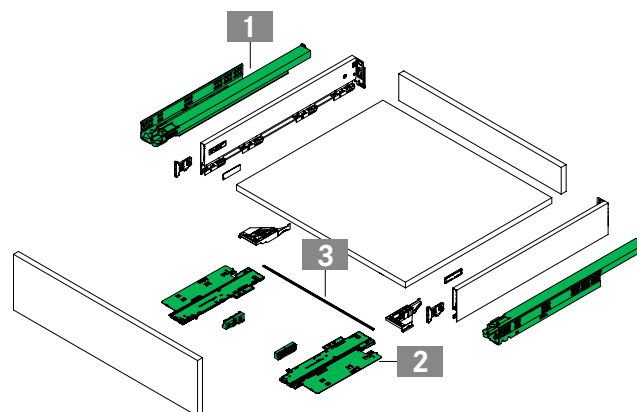
2 Dynapro Tipmatic Soft-close Set: Activator, Unit		
Type of assembly	Art. no.	
To clip-on	F134134420	



3 Synchronisation rod for cutting to length Piece		
KB	Length of synchronisation rod	Art. no.
1200	952	F134109410
1800	1562	F102109394
2200	1952	F134131408



Dynapro Tipmatic Soft-close Individual components Set: Left, Right		
Product type	Art. no.	
Activator	F134109325	
Unit	F134141738	



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PLANNING INFORMATION

All dimensions in millimetres

<p>Installation dimensions for slide</p>	<p>Mounting position for front locking device</p>										
<p>Position for the synchronisation rod</p> <table border="1"> <thead> <tr> <th>NL</th> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>270 - 300</td> <td>248</td> <td>265</td> </tr> <tr> <td>350 - 650</td> <td>283</td> <td>300</td> </tr> </tbody> </table>	NL	A	B	270 - 300	248	265	350 - 650	283	300	<p>Cutting dimensions for synchronisation rod</p>	<p>Minimum front gap</p>
NL	A	B									
270 - 300	248	265									
350 - 650	283	300									

Attachment positions for full extension slide

Euro screw Ø 6 x 13
 Chipboard screws Ø 4 x 16 mm
 Head diameter 7 mm

40 kg
 MET = NL + 3

70 kg
 MET = NL + 3

LEGEND

FR	Front	LWK	Inside cabinet width
KB	Cabinet width	MET	Minimum installation depth
KV	Front edge of cabinet	NL	Nominal length
L	Length		



DYNAPRO TIPMATIC SOFT-CLOSE

30 kg full extension slide for short and light drawers



- Mechanical opening system with low closing force for light and narrow drawers with handle-free fronts
- Combines Tipmatic function with Soft-close damper
- Tool-free installation of the Tipmatic Soft-close unit
- Can be used with Dynapro full extension slide 30 kg Soft-close
- 3-stage adjustment of the opening force
- Large activation zone due to synchronisation rod
- Can also be used for wooden drawers

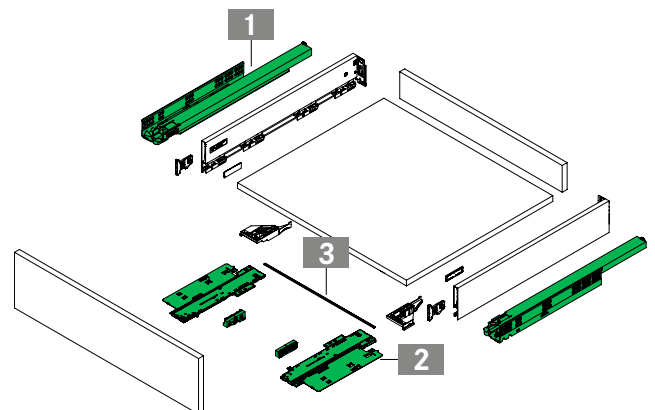
ORDER INFORMATION

1	Dynapro Full extension slide 30 kg Soft-close EB 21 for short and light drawers			
	Piece			
	30 kg	30 kg		
NL	Left	Right		
270	F130136512	F130136513		
300	F130136515	F130136516		
350	F130136518	F130136519		
400	F130136521	F130136522		

2	Dynapro Tipmatic Soft-close for short and light drawers	
	Set: Activator, Unit	
	Type of assembly	Art. no.
	To clip-on	F134134422

3	Synchronisation rod for cutting to length	
	Piece	
KB	Length of synchronisation rod	Art. no.
1200	952	F134109410
1800	1562	F102109394
2200	1952	F134131408

Dynapro Tipmatic Soft-close Individual components		
Set: Left, Right		
	Product type	Art. no.
	Activator	F134109325
	Unit	F134134423



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PLANNING INFORMATION

All dimensions in millimetres

<p>Installation dimensions for slide</p>	<p>Mounting position for front locking device</p>										
<p>Position for the synchronisation rod</p> <table border="1"> <thead> <tr> <th>NL</th> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>270 - 300</td> <td>248</td> <td>265</td> </tr> <tr> <td>350 - 650</td> <td>283</td> <td>300</td> </tr> </tbody> </table>	NL	A	B	270 - 300	248	265	350 - 650	283	300	<p>Cutting dimensions for synchronisation rod</p>	<p>Minimum front gap</p>
NL	A	B									
270 - 300	248	265									
350 - 650	283	300									

Attachment positions for full extension slide

Euro screw $\text{Ø} 6 \times 13$
 Chipboard screws $\text{Ø} 4 \times 16 \text{ mm}$
 Head diameter 7 mm

LEGEND

<p>FR Front</p> <p>KB Cabinet width</p> <p>KV Front edge of cabinet</p> <p>L Length</p>	<p>LWK Inside cabinet width</p> <p>MET Minimum installation depth</p> <p>NL Nominal length</p>
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DYNAPRO

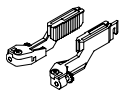
Bottom panel frame set mounting

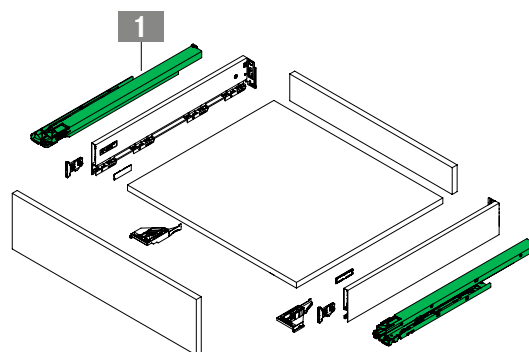


- Synchronised full extension slide, 40 kg load capacity
- Soft-close damping system
- Assembly on the cabinet base or shelf
- No lateral screw-on bracket

ORDER INFORMATION

1	Dynapro Full extension slide 40 kg Soft-close			
	EB 21 for base panel mounting			
	40 kg	40 kg	40 kg	
NL	Left, Right	Left	Right	
400	F130107878	F130107879	F130107880	
450	F130107884	F130107885	F130107886	
500	F130107890	F130107891	F130107892	
550	F130107893			

Depth adjustment			
Set: Left, Right			
			
Type of assembly	Left, Right		
To clip on	F134101313		

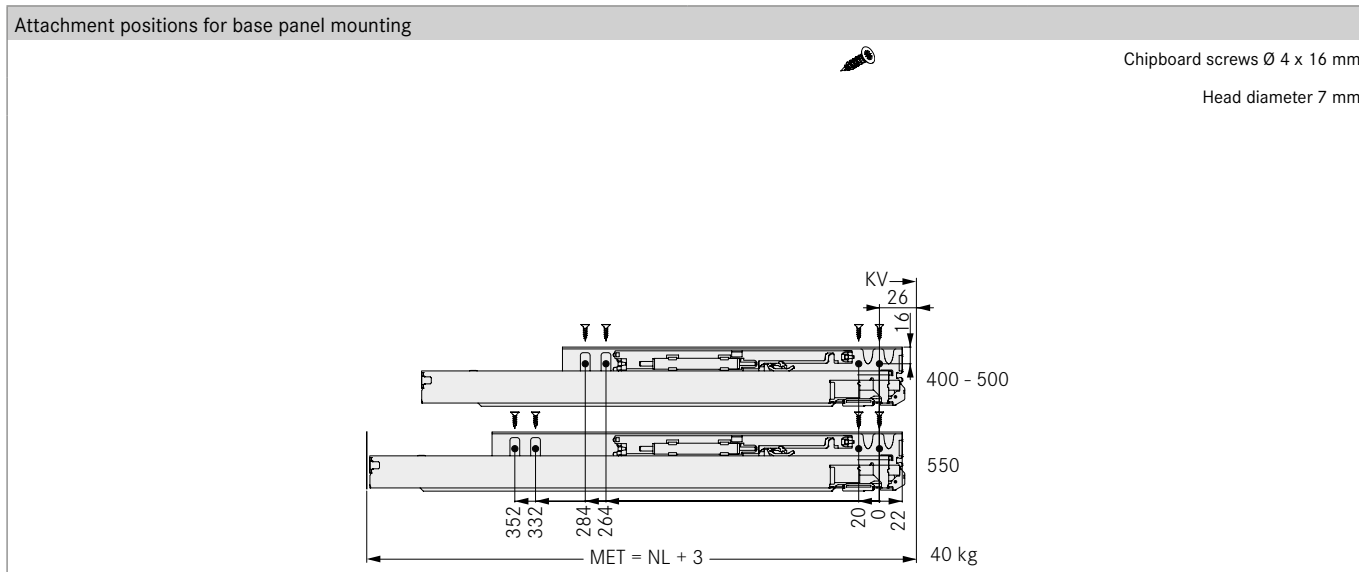
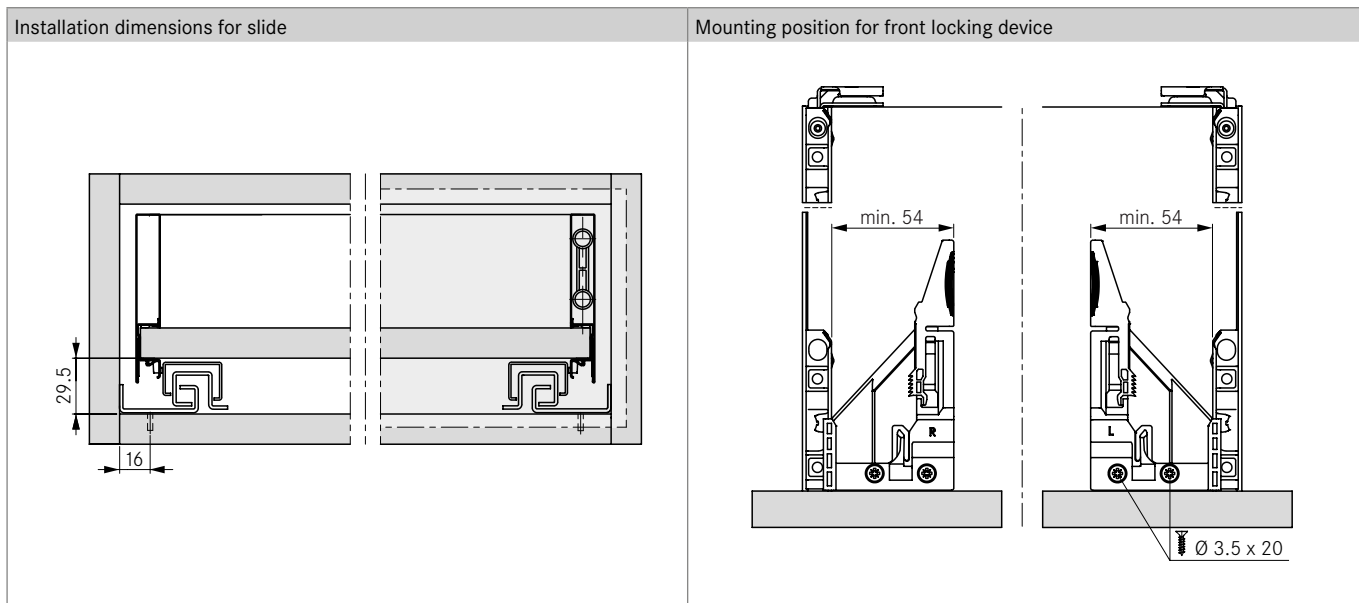


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PLANNING INFORMATION

All dimensions in millimetres



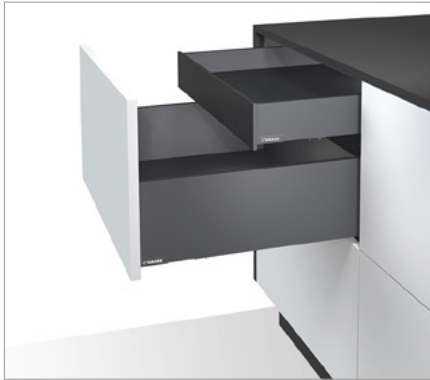
LEGEND

KV	Front edge of cabinet
MET	Minimum installation depth
NL	Nominal length



VIONARO V13

Inset panel for inset drawer H89



- Colour-coordinated front panel profile made of aluminium
- Smooth inner and outer sides provide a high-quality look

Notice:

- Front-bottom panel connector recommended for KB 600 mm and above

ORDER INFORMATION

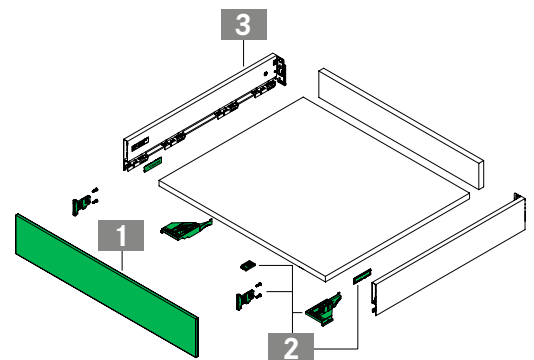
1	Vionaro V13 Inset panel for inset drawer H89 for cutting to length Piece			
	L	Graphite	Ice	
	1160	F136120538	F136120569	

Inset drawer catch Piece: Inset drawer catch and pan head screws dia. 3.5 x 15 mm (2x)				
	Ice	Stone, Graphite		
	F102132043	F102109714		

2	Vionaro V13 Accessories for inset drawer H89 Set: Cover cap, Front-bottom connector, Front holder, Front locking device, Special screws			
	Mounting material	Graphite	Ice	
	Screw (excl.)	F136100278	F136100279	

Dynapro Slides page 230		
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3	Vionaro V13 Drawer sides H89 page 220			

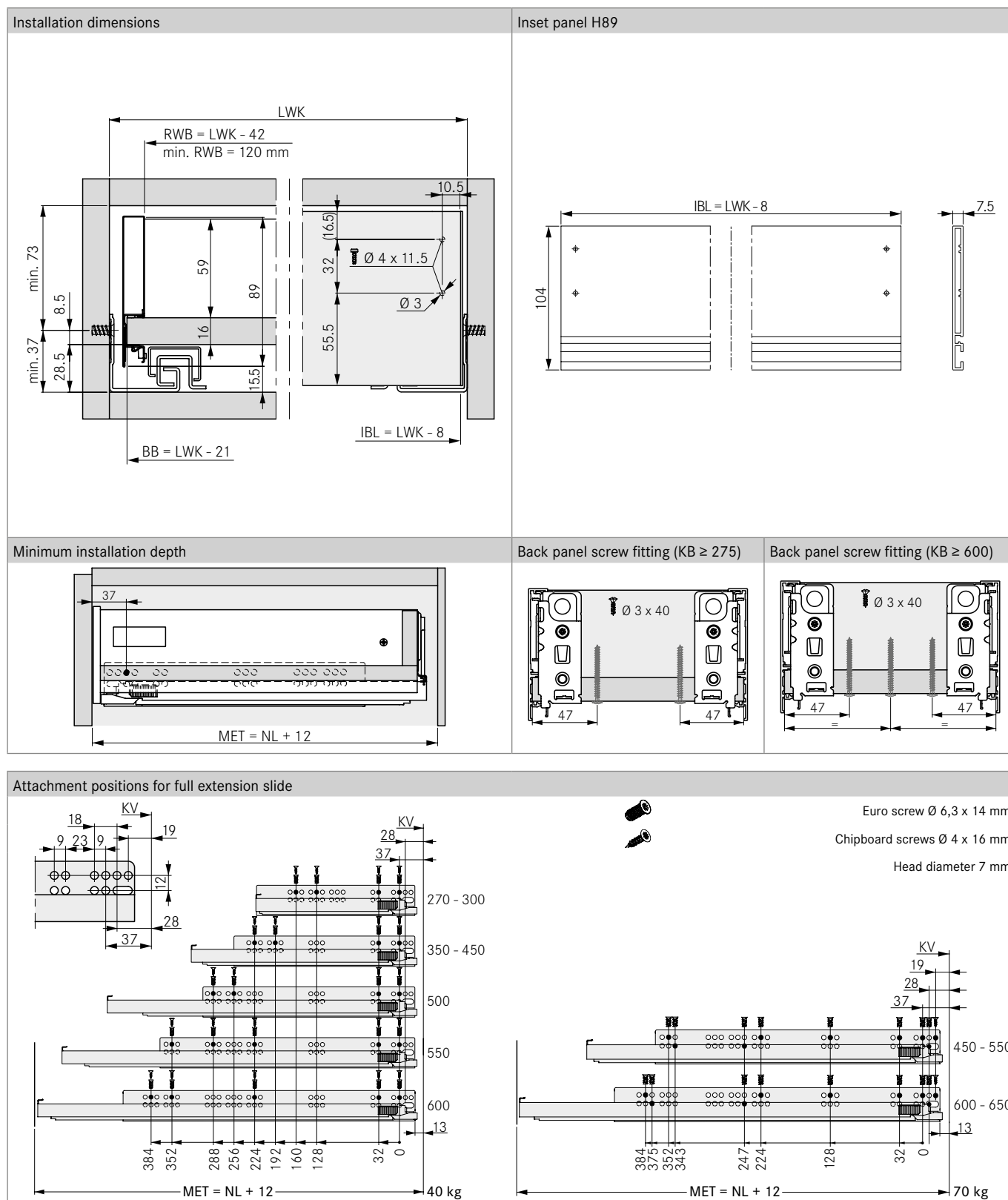


PAGE REFERENCES

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PLANNING INFORMATION

All dimensions in millimetres



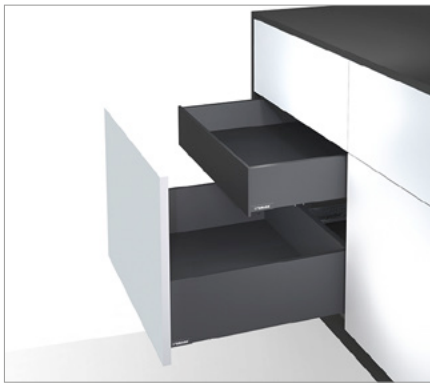
LEGEND

BB	Bottom panel width	LWK	Inside cabinet width
IBL	Length of concealed drawer front	MET	Minimum installation depth
KB	Cabinet width	NL	Nominal length
KV	Front edge of cabinet	RWB	Back panel width



VIONARO V13

Inset panel for inset drawer H121



- Colour-coordinated front panel profile made of aluminium
- Smooth inner and outer sides provide a high-quality look

Notice:

- Front-bottom panel connector recommended for KB 600 mm and above

ORDER INFORMATION

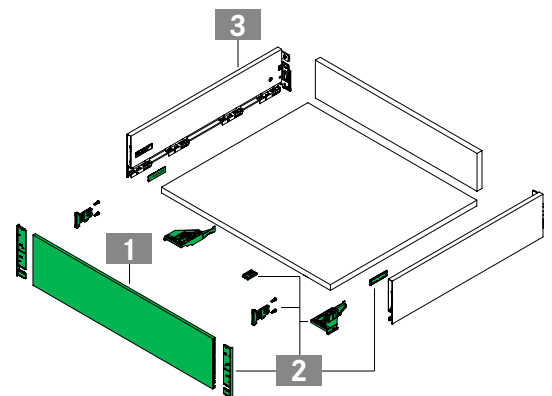
1	Vionaro V13 Inset panel for inset drawer H121 for cutting to length			
	Piece			
L	Graphite	Ice		
1160	F136107485	F136107486		

2	Vionaro V13 Accessories for inset drawer H121			
	Set: Cover cap, Front-bottom connector, Front holder, Front locking device, Special screws			
Mounting material	Graphite	Ice		
Screw (excl.)	F136107489	F136107490		

3	Vionaro V13 Drawer H121			
	page 222			

Inset drawer catch	Piece: Inset drawer catch and pan head screws dia. 3.5 x 15 mm (2x)			
	Ice	Stone, Graphite		
	F102132043	F102109714		

Dynapro Slides	
page 230	

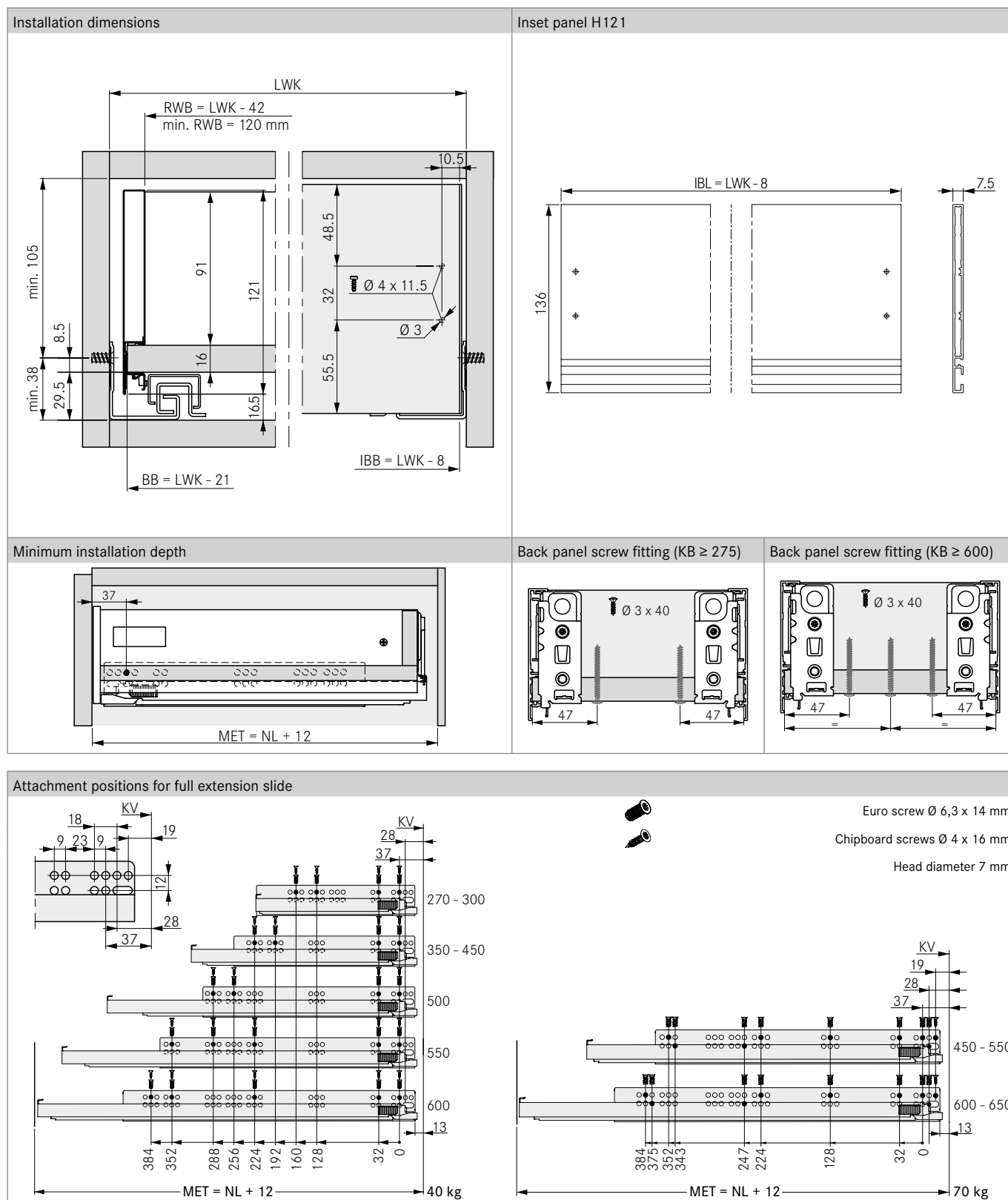


PAGE REFERENCES

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PLANNING INFORMATION

All dimensions in millimetres



LEGEND

BB	Bottom panel width	LWK	Inside cabinet width
IBL	Length of concealed drawer front	MET	Minimum installation depth
KB	Cabinet width	NL	Nominal length
KV	Front edge of cabinet	RWB	Back panel width

1

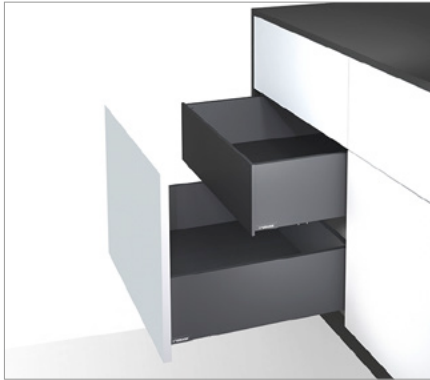
2

3

4

VIONARO V13

Inset panel for inset drawer H185



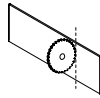
- Colour-coordinated front panel profile made of aluminium
- Smooth inner and outer sides provide a high-quality look

Notice:

- Front-bottom panel connector recommended for KB 600 mm and above

ORDER INFORMATION

1 Vionaro V13 Concealed panel for concealed drawer H185 for cutting to length
Piece



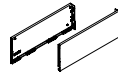
L	Graphite	Ice		
1160	F136120539	F136120589		

2 Vionaro V13 Accessories for inset drawer H185
Set: Cover cap, Front-bottom connector, Front holder, Front stabiliser, Front locking device, Special screws

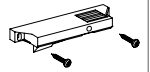


Mounting material	Graphite	Ice		
Screw (excl.)	F136100319	F136100320		

3 Vionaro V13 Pot drawer H185
page 224

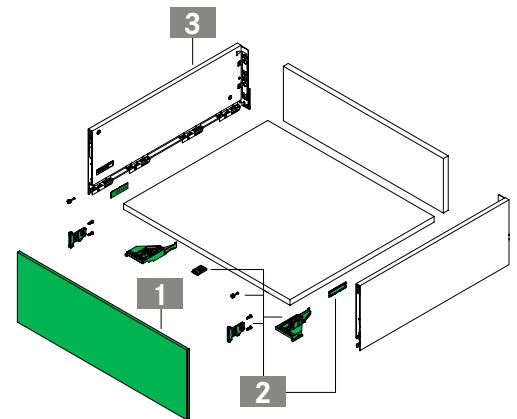
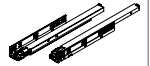


Inset drawer catch
Piece: Inset drawer catch and pan head screws
dia. 3.5 x 15 mm (2x)



	Ice	Stone, Graphite		
	F102132043	F102109714		

Dynapro Slides
page 230

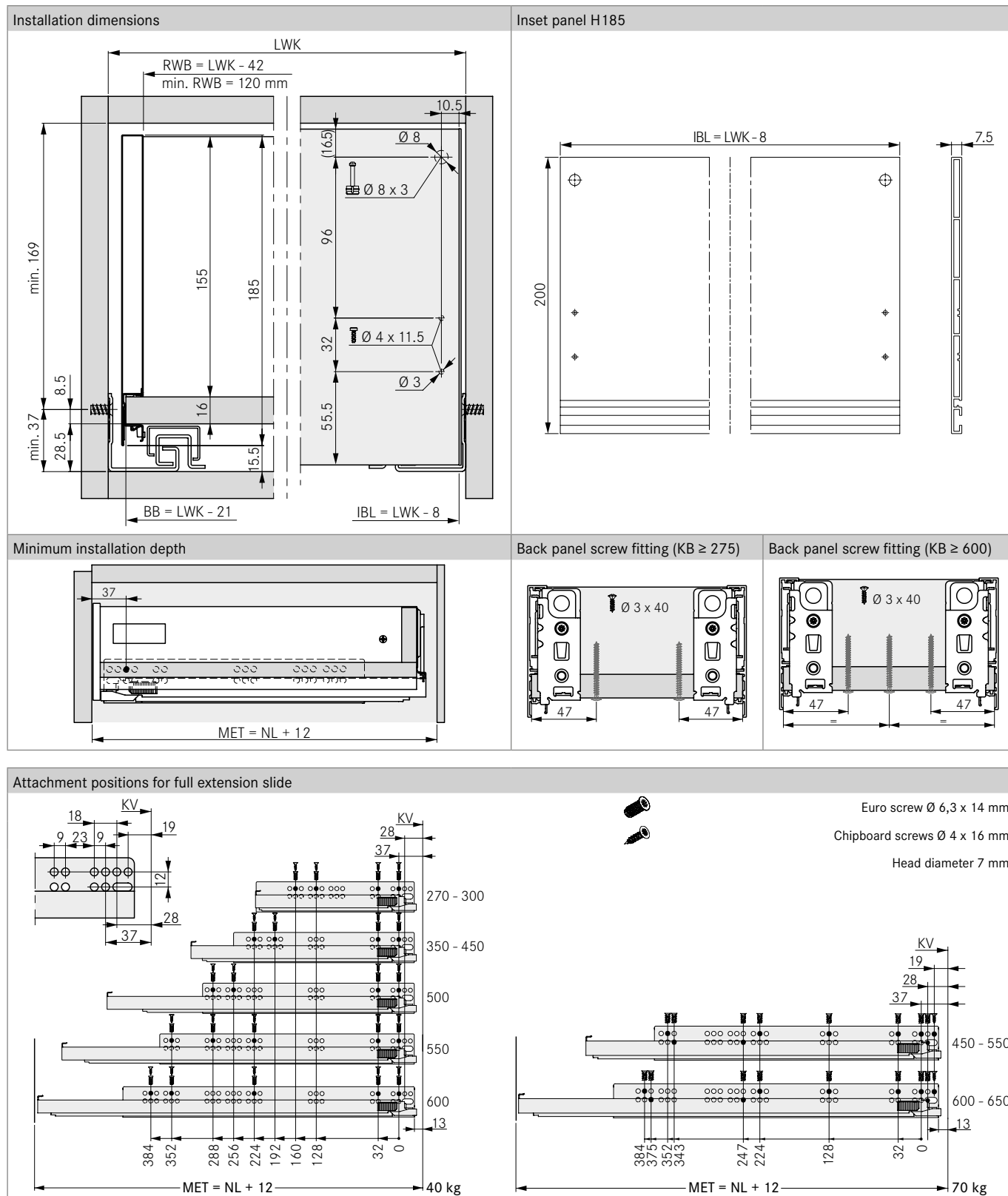


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PLANNING INFORMATION

All dimensions in millimetres



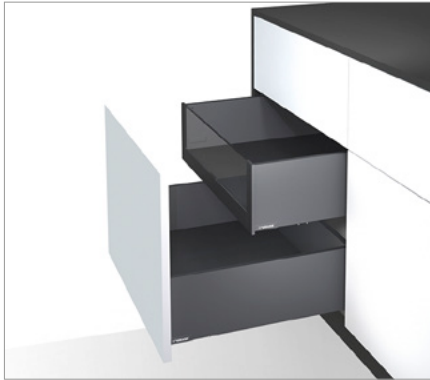
LEGEND

BB	Bottom panel width	LWK	Inside cabinet width
IBL	Length of concealed drawer front	MET	Minimum installation depth
KB	Cabinet width	NL	Nominal length
KV	Front edge of cabinet	RWB	Back panel width



VIONARO V13

Crystal inset panel for H185 inset drawer

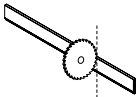



- Colour-coordinated with Vionaro V13
- Elegant design
- Low complexity of parts
- Easy to install
- Slide-in element 6 mm
- No need to machine the slide-in elements
- Same dimensions as standard drawers (inside depth)
- Can be used with H185

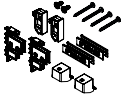
Notice:

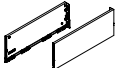
- Front-bottom panel connector recommended for KB 600 mm and above
- Stabiliser recommended for KB 600 mm and above

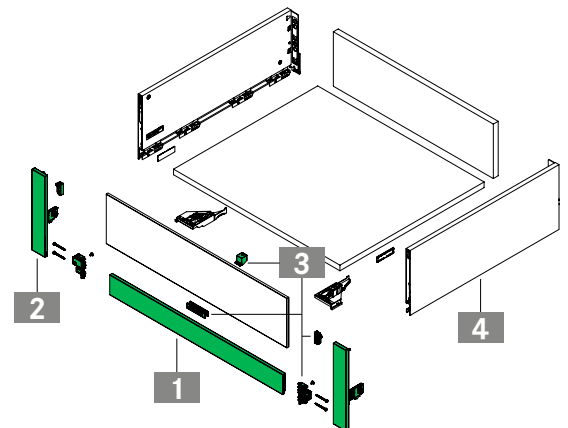
ORDER INFORMATION

1	Cross profile for inset panel Crystal for cutting to length			
	Piece			
L	Graphite	Ice		
1087	F136132588	F136132611		

2	Bracket for inset panel Crystal H185			
	Set: Bracket with pre-assembled front holder, front stabiliser and cover cap			
	Graphite	Ice		
	F136132545	F136132546		

3	Accessories for Crystal inset panel for inset panel H185			
	Set: Profile adapter, profile screws, special screws, stabiliser, spacer, front-bottom panel connector			
	Graphite	Ice		
	F136132549	F136132550		

4	Vionaro V13 Pot drawer H185			
	page 224			

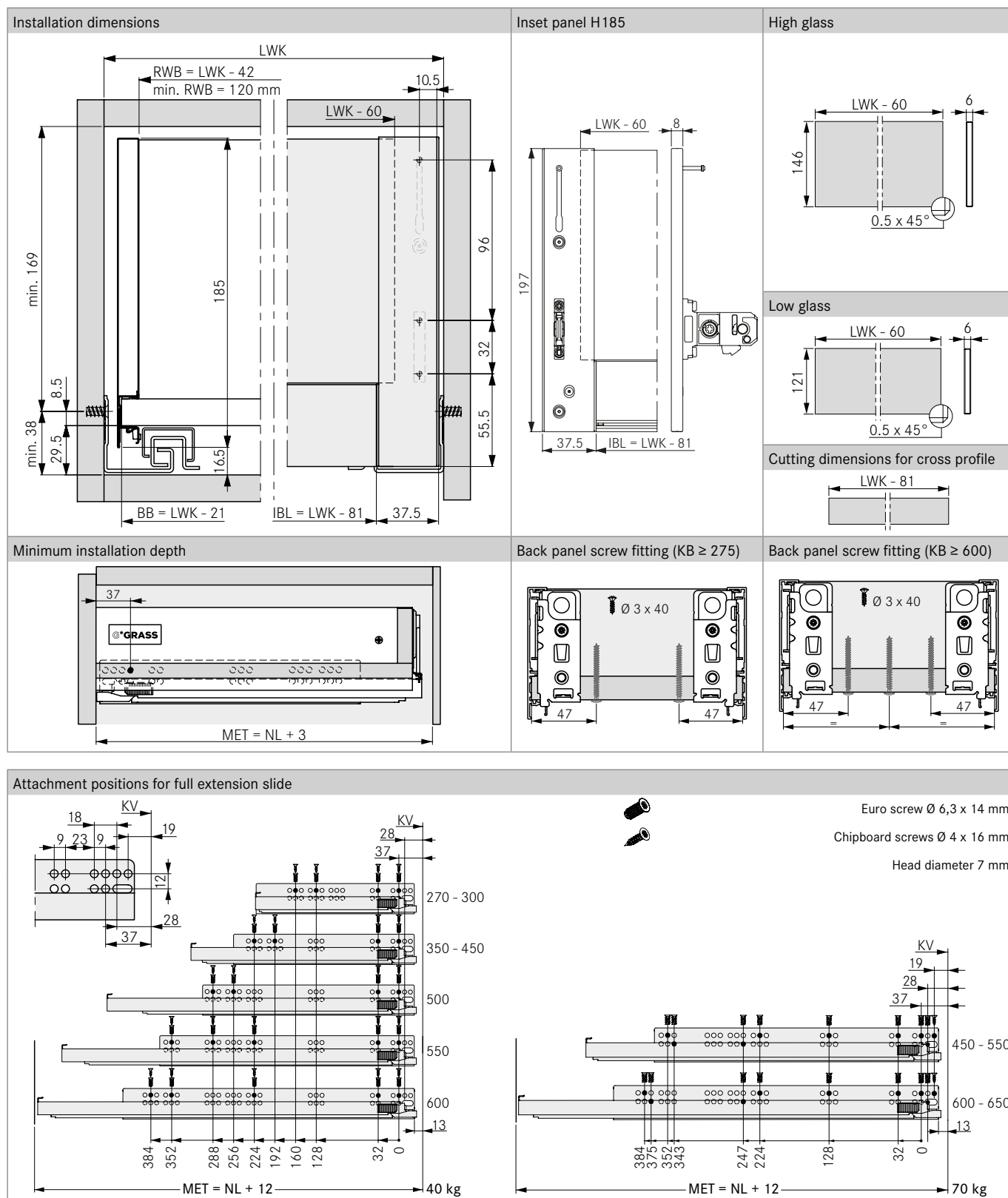


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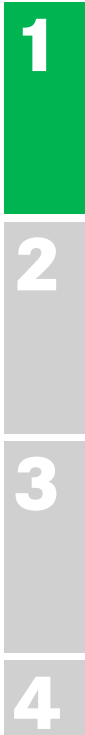
PLANNING INFORMATION

All dimensions in millimetres



LEGEND

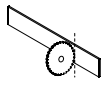
BB Bottom panel width	LWK Inside cabinet width
IBL Length of concealed drawer front	MET Minimum installation depth
KB Cabinet width	NL Nominal length
KV Front edge of cabinet	RWB Back panel width

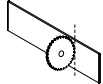


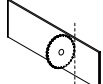
VIONARO V13


Inset panel for cutting to length - individual components


ORDER INFORMATION


1	Vionaro V13 Inset panel for inset drawer H89 for cutting to length Piece			
	L	Graphite	Ice	
	1160	F136120538	F136120569	


2	Vionaro V13 Inset panel for inset drawer H121 for cutting to length Piece			
	L	Graphite	Ice	
	1160	F136107485	F136107486	

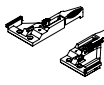
3	Vionaro V13 Concealed panel for concealed drawer H185 for cutting to length Piece			
	L	Graphite	Ice	
	1160	F136120539	F136120589	


4	Vionaro V13 Cover cap for inset panel H89 Piece: Left or right			
	Assembly position	Graphite	Ice	
	Left or right	F136107654	F136107662	


5	Vionaro V13 Cover cap for inset panel H121 Piece: Left or right			
	Assembly position	Graphite	Ice	
	Left or right	F136107493	F136107494	


6	Vionaro V13 Cover cap for inset panel H185 Piece: Left or right			
	Assembly position	Graphite	Ice	
	Left or right	F136107655	F136107663	


7	Vionaro V13 Cover cap for drawer side Piece: Left or right			
	Design	Graphite	Ice	
	With GRASS Logo	F136118068	F136118070	
	Without Logo	F136118067	F136118069	

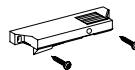
8	Vionaro V13 Front locking device Piece			
	Adjustable	Left	Right	
	No	F136107622	F136107623	

9	Vionaro V13 Front stabiliser Piece: Left or right			
	Ø	Type of assembly	Art. no.	
	8	Press-in	F136118024	

10	Vionaro V13 Front holder Piece: Left or right			
	Mounting material	Art. no.		
	Screw (excl.)	F136116276		

11	Special screw Piece			
	Nominal diameter x screw length	Art. no.		
	4 x 11.5	F136118028		

12	Front-bottom panel connector for inset panel Piece			
	Suitable for cabinet width	Art. no.		
	From 600 mm: 1 piece (Vionaro V13), From 600 - 800 mm: 1 piece (Vionaro V8), From 800 - 1200 mm: 2 pieces (Vionaro V8)	F136118025		

Inset drawer catch Piece: Inset drawer catch and pan head screws dia. 3.5 x 15 mm (2x)				
Ice	Stone, Graphite			
	F102132043	F102109714		

PAGE REFERENCES

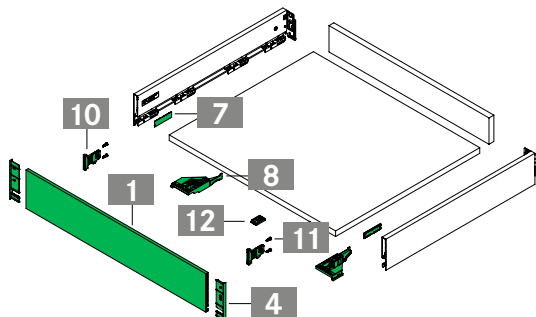
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PLANNING INFORMATION

All dimensions in millimetres

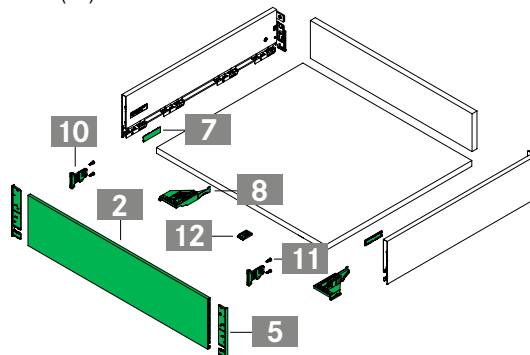
Inset panel for inset drawer H89

Requires 1 (1x), 4 (2x), 7 (2x), 8 (1x), 10 (2x), 11 (4x)
Optional: 12 (1x)



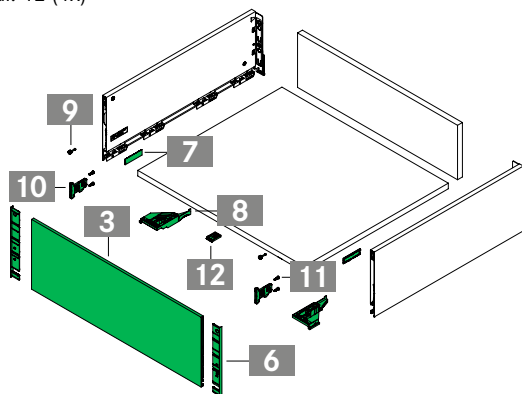
Inset panel for inset drawer H121

Requires 2 (1x), 5 (2x), 7 (2x), 8 (1x), 10 (2x), 11 (4x)
Optional: 12 (1x)

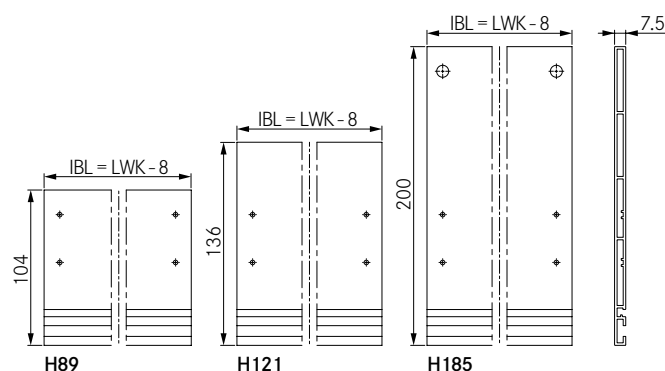


Inset panel for inset drawer H185

Requires 3 (1x), 6 (2x), 7 (2x), 8 (1x), 10 (2x), 11 (4x)
Optional: 12 (1x)



Inset panel H89/H121/H185



LEGEND

H	Height
IBL	Length of concealed drawer front
KB	Cabinet width
L	Length

LWK	Inside cabinet width
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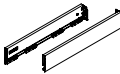
APPLICATION EXAMPLES

Sink drawer with cut-out




- Maximum storage space utilisation in the sink area through individual combination with shorter drawer sides
- Easy to install with Vionaro V13 standard products
- Variable width, variable cut-out
- As a regular or pot drawer
- 4-dimensional adjustment
- 90° straight inner and outer sides
- Slim 13 mm drawer side width
- Tool-free fitting of front

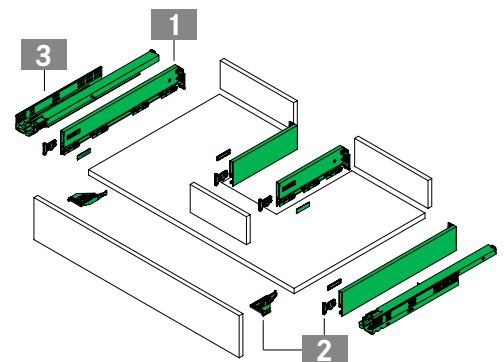
ORDER INFORMATION

1	Vionaro V13 Drawer sides page 218	
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2	Vionaro V13 Accessories page 218	
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3	Dynapro Slides page 230	
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Front-bottom panel connector for wood fronts		
Piece		
	Suitable for cabinet width	Art. no.
	From 600 mm: 1 piece (Vionaro V8), From 600 mm: 1 piece (Vionaro V13), From 800 mm: 1 piece (Nova Pro)	F148026744

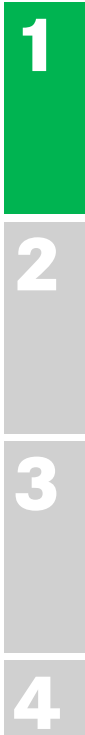
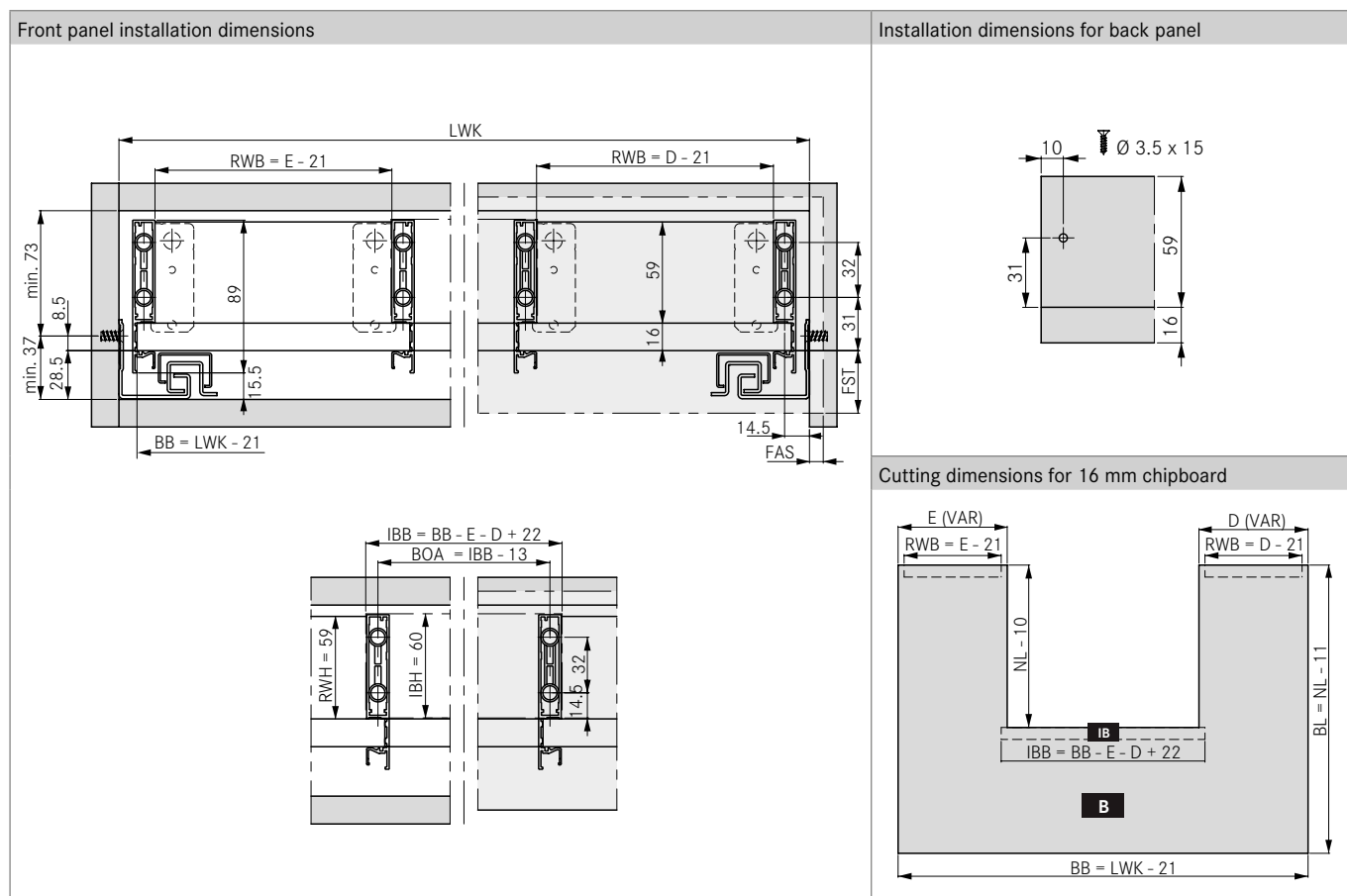


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PLANNING INFORMATION

All dimensions in millimetres



LEGEND

B Bottom panel	FAS Front overlay, side	LWK Inside cabinet width
BB Bottom panel width	FST Front overlay	NL Nominal length
BL Bottom panel length	IBB Width of concealed drawer front	RWB Back panel width
BOA Drill hole distance	IBH Height of concealed drawer front	RWH Back panel height

APPLICATION EXAMPLES

Sink drawer with cut-out



- Simple construction for extra storage space in the sink area
- Easy to install with Vionaro V13 standard products
- Variable width, variable cut-out
- As a regular or pot drawer
- 4-dimensional adjustment
- 90° straight inner and outer sides
- Slim 13 mm drawer side width
- Tool-free fitting of front

ORDER INFORMATION

1 Vionaro V13 Drawer sides
page 218




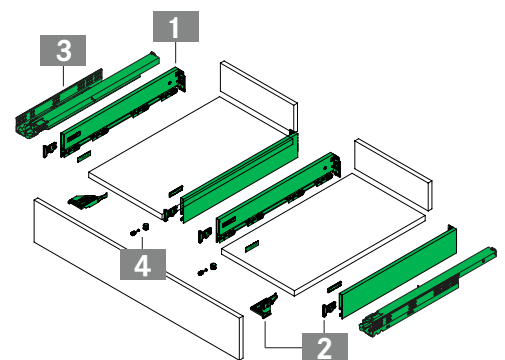
2 Vionaro V13 Accessories
page 218



3 Dynapro Slides
page 230



4	Front-bottom panel connector for wood fronts		
	Piece		
	Suitable for cabinet width		
	From 600 mm: 1 piece (Vionaro V8),		F148026744
	From 600 mm: 1 piece (Vionaro V13),		
	From 800 mm: 1 piece (Nova Pro)		

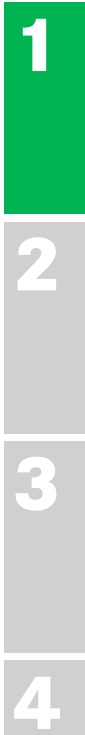
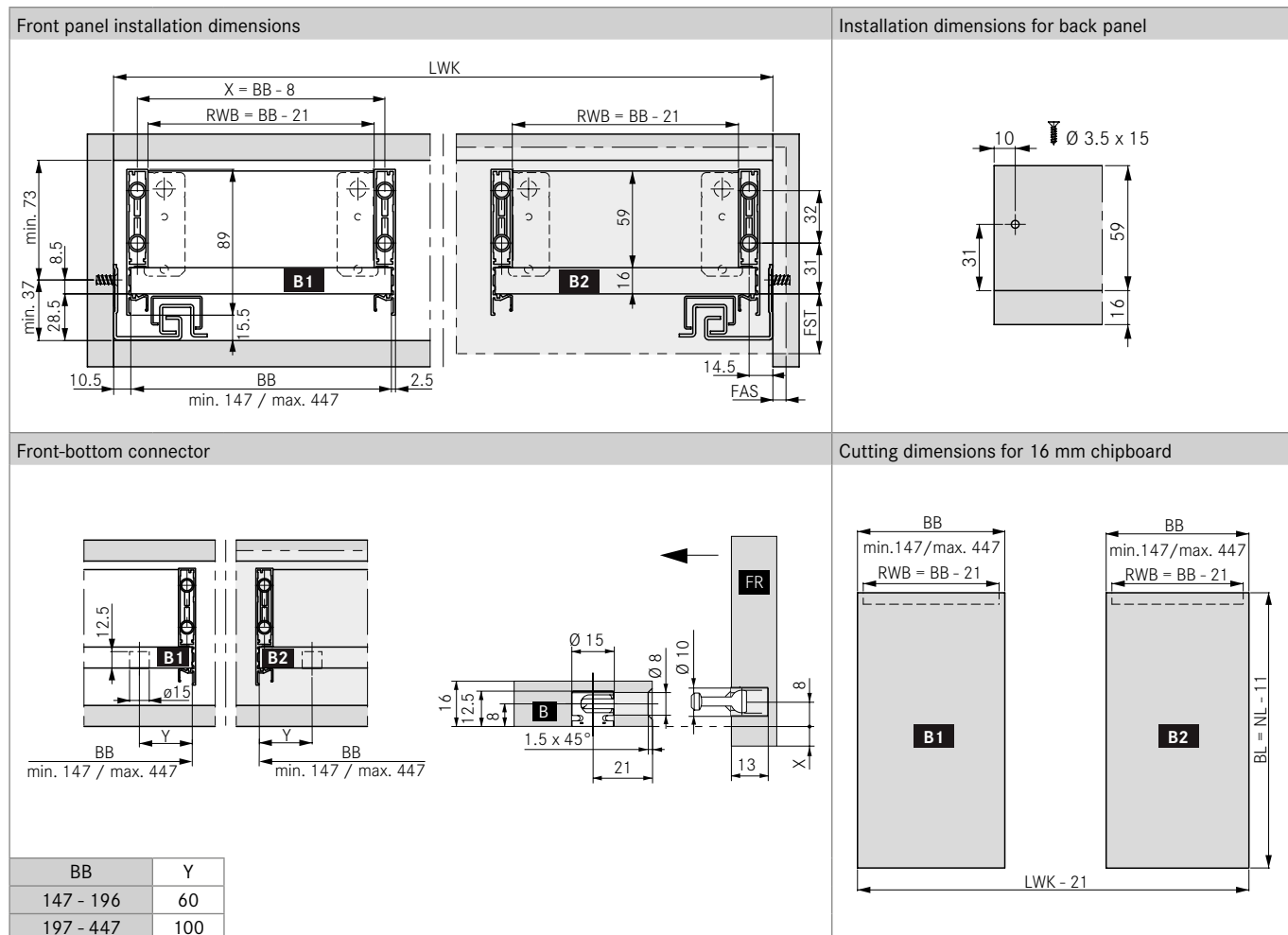


PAGE REFERENCES

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PLANNING INFORMATION

All dimensions in millimetres



LEGEND

B	Bottom panel	FR	Front	RWB	Back panel width
BB	Bottom panel width	FST	Front overlay		
BL	Bottom panel length	LWK	Inside cabinet width		
FAS	Front overlay, side	NL	Nominal length		

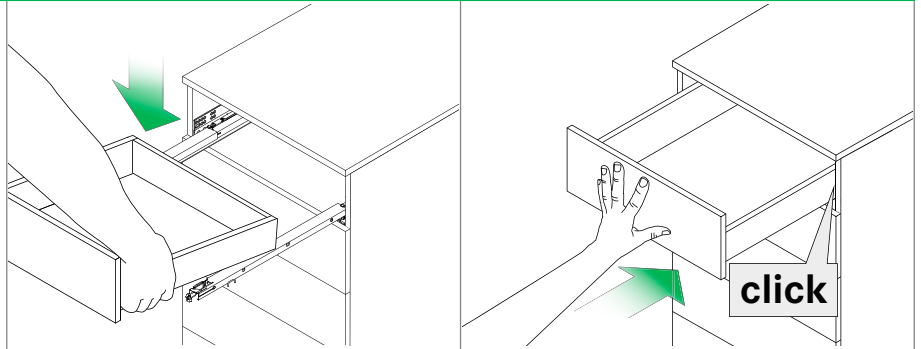
VIONARO V13

Technical information H63

INSTALLATION INSTRUCTIONS/REMOVAL INSTRUCTIONS

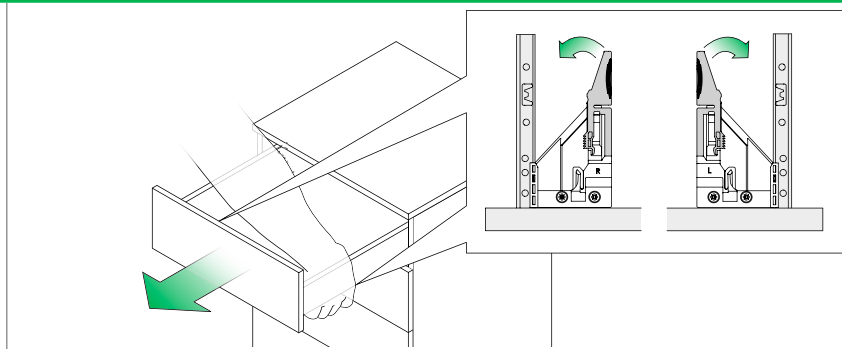
Inserting the drawer

Place the drawer on the extended slides. Slide the drawer in fully. The drawer will lock automatically!



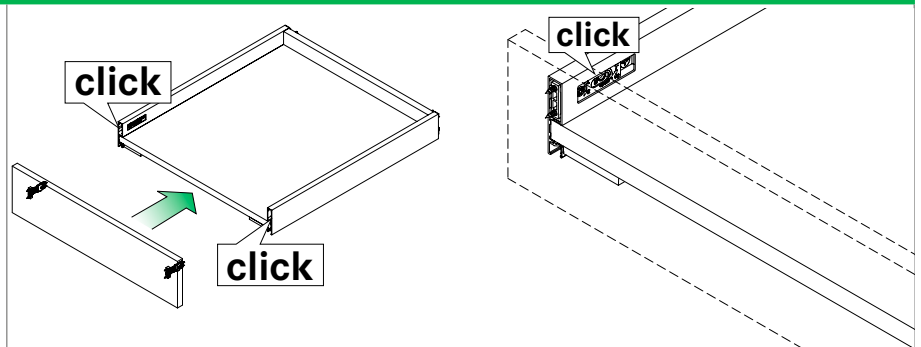
Removing the drawer

Pull out the drawer, actuate the lever of the front locking device on both sides and pull the drawer forwards, away from the slide.



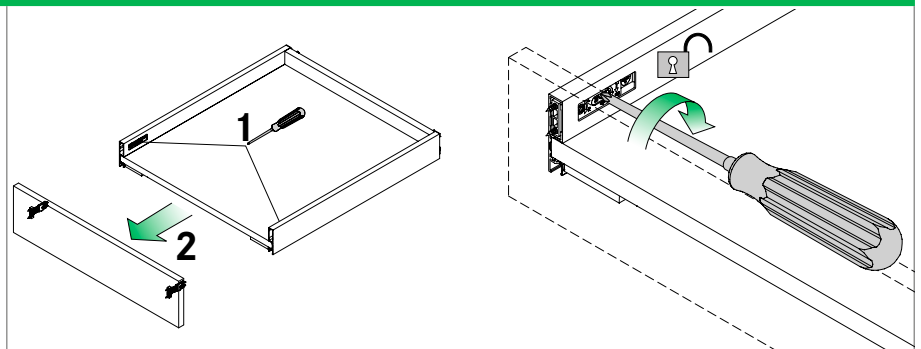
Front panel assembly

Slide the front holder into the drawer sides. The front panel engages automatically into place and is fixed.



Front panel removal

Release using a Pozidriv No. 2 screwdriver.

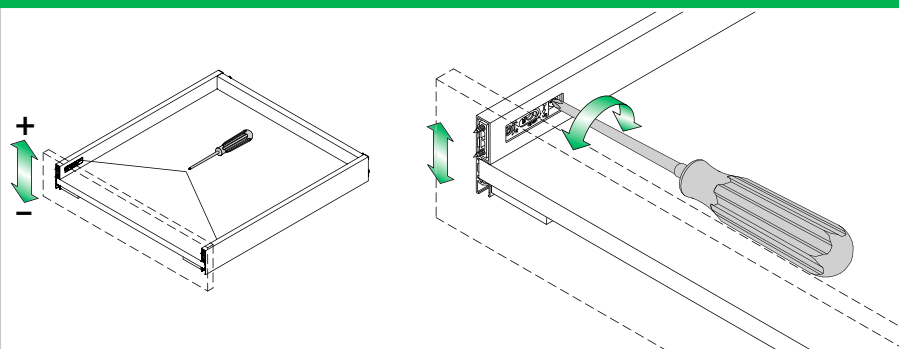


PAGE REFERENCES

Drawer sides	218	Application examples	248	Assembly technology	289
Slides	230	Organising systems	261	Assembly aids	296
Inset panels	238	Sensomatic	273		

ADJUSTMENT

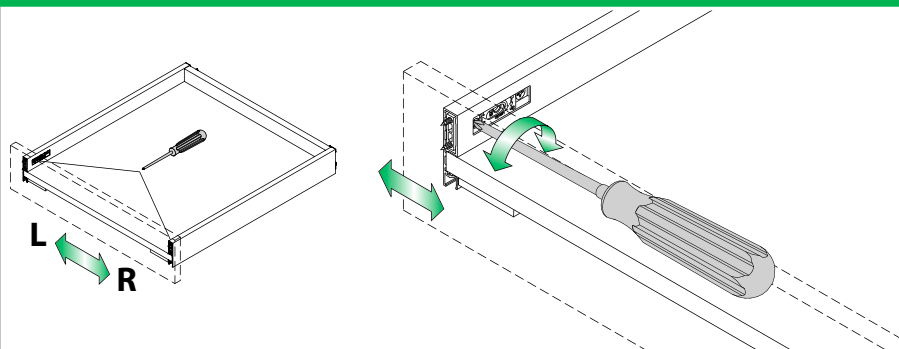
Cam height adjustment (+2/-1 mm)



1

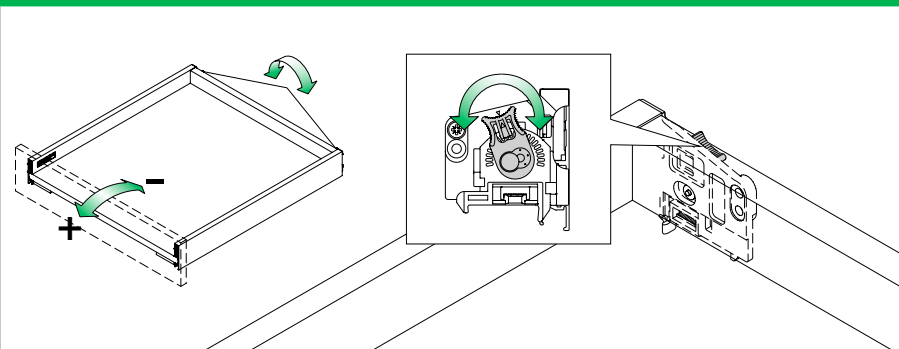
Side adjustment (± 1.5 mm)

Perform on both sides.



2

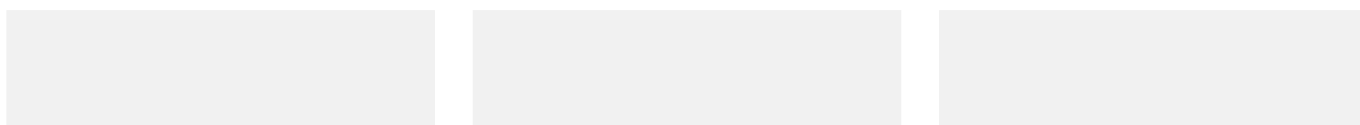
Front tilt angle adjustment (+2.5/-1.5 mm)



3

4

LEGEND



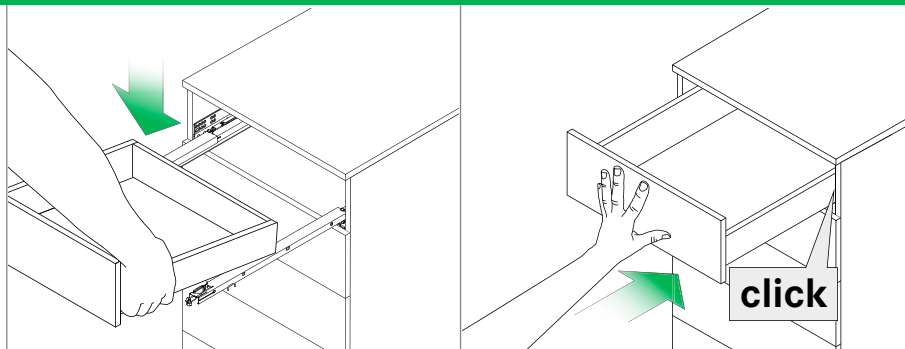
VIONARO V13

Technical information H89/H121

INSTALLATION INSTRUCTIONS/REMOVAL INSTRUCTIONS

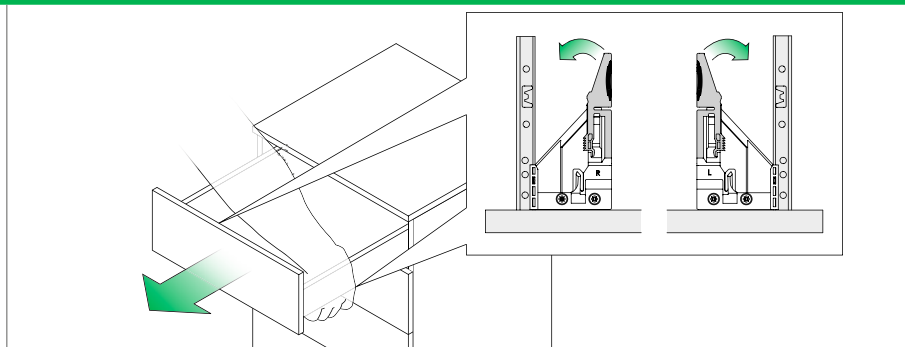
Inserting the drawer

Place the drawer on the extended slides. Slide the drawer in fully. The drawer will lock automatically!

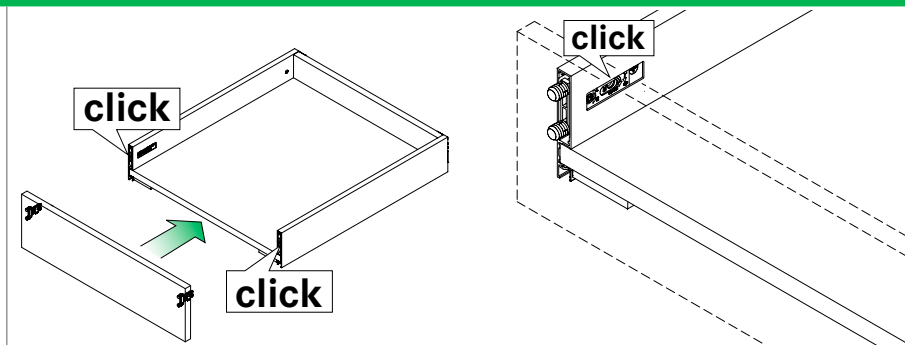


Removing the drawer

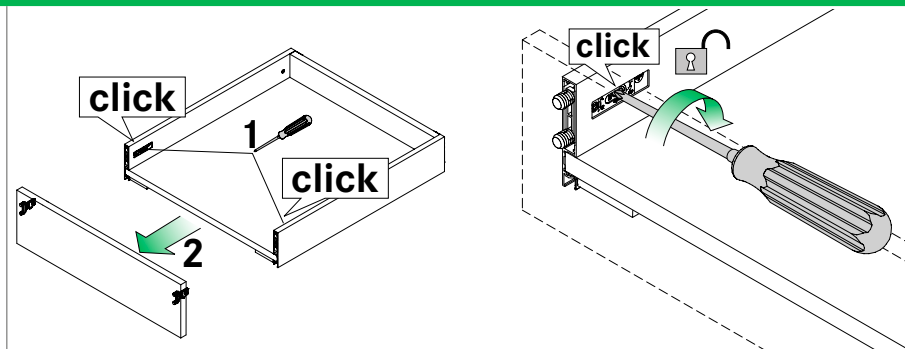
Pull out the drawer, actuate the lever of the front locking device on both sides and pull the drawer forwards, away from the slide.



Front panel assembly



Front panel removal

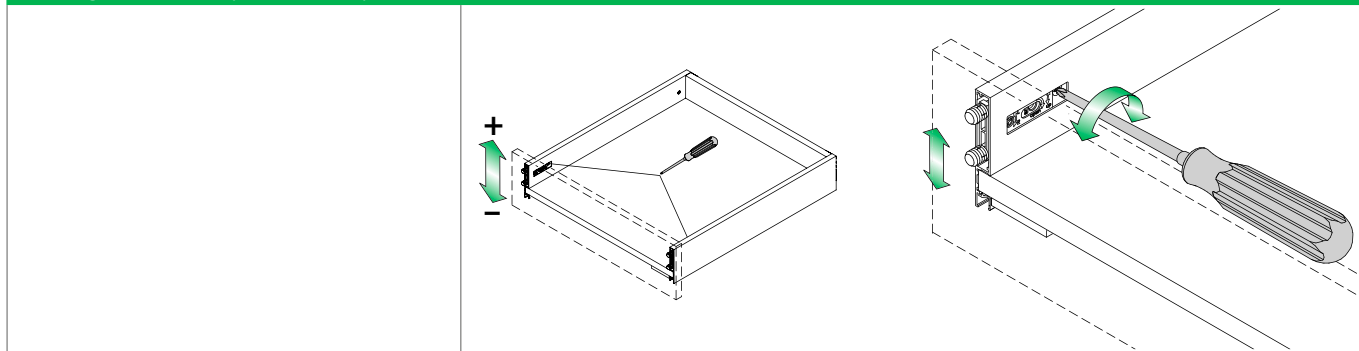


PAGE REFERENCES

Drawer sides	220	Application examples	248	Assembly technology	289
Slides	230	Organising systems	261	Assembly aids	296
Inset panels	238	Sensomatic	273		

ADJUSTMENT

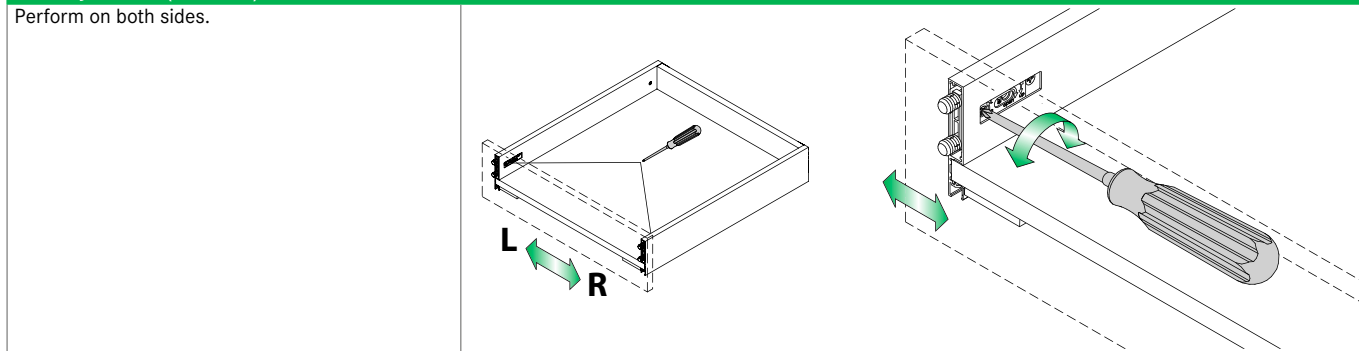
Cam height adjustment (+2.5/-1.5 mm)



1

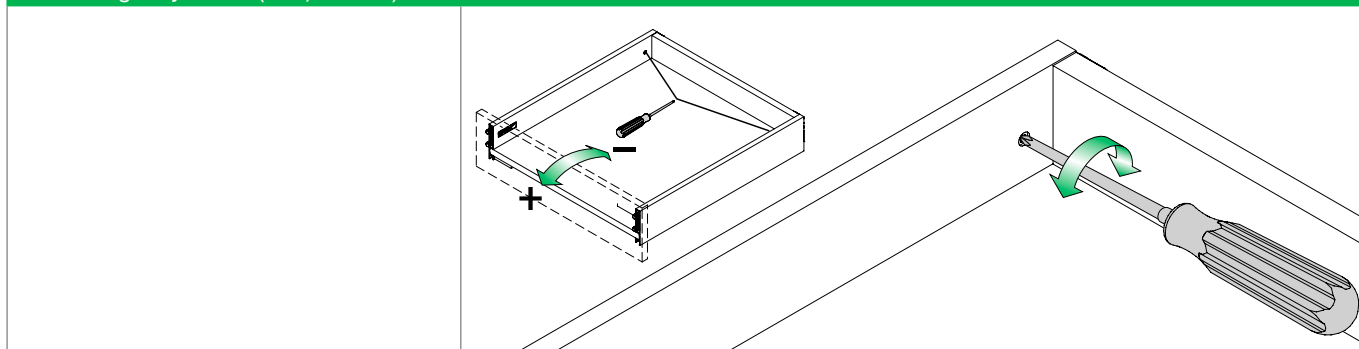
Side adjustment (± 1.5 mm)

Perform on both sides.



2

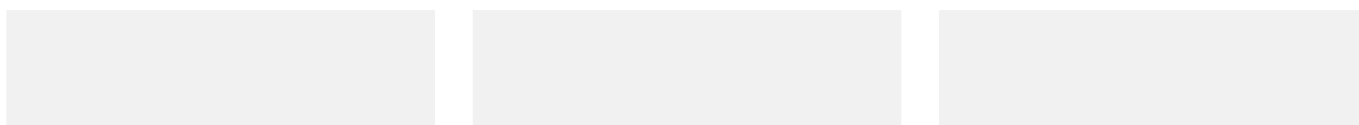
Front tilt angle adjustment (+2.5/-1.5 mm)



3

4

LEGEND



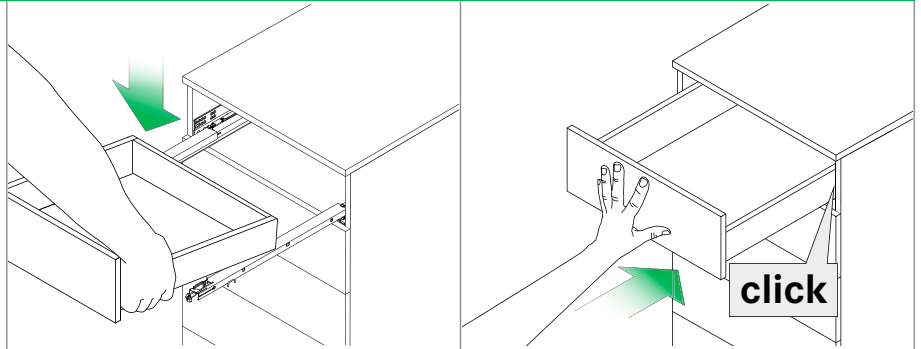
VIONARO V13

Technical information H185/H249

INSTALLATION INSTRUCTIONS/REMOVAL INSTRUCTIONS

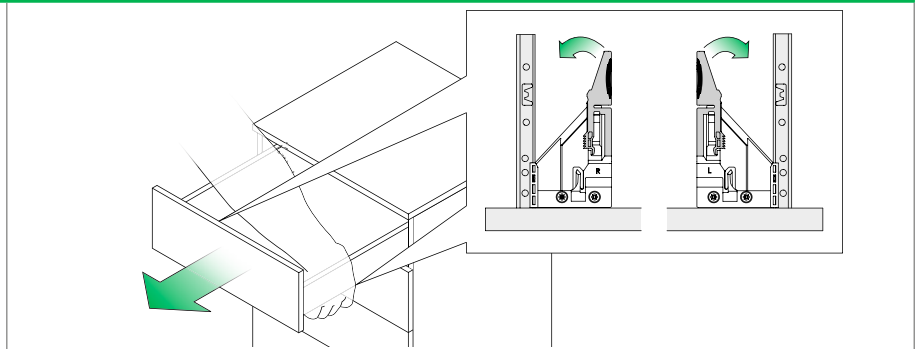
Inserting the drawer

Place the drawer on the extended slides. Slide the drawer in fully. The drawer will lock automatically!



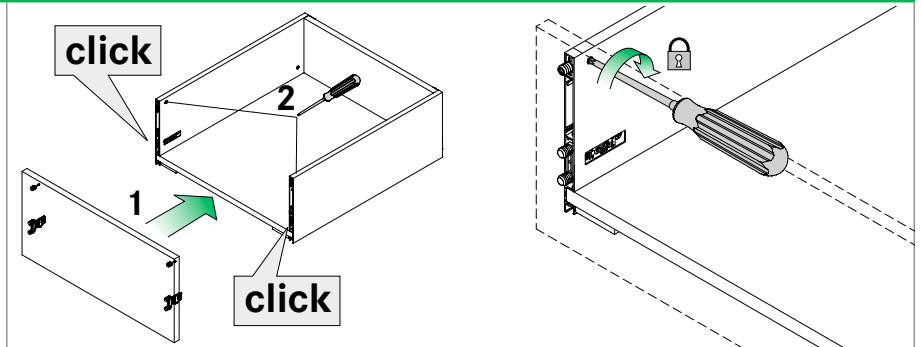
Removing the drawer

Pull out the drawer, actuate the lever of the front locking device on both sides and pull the drawer forwards, away from the slide.



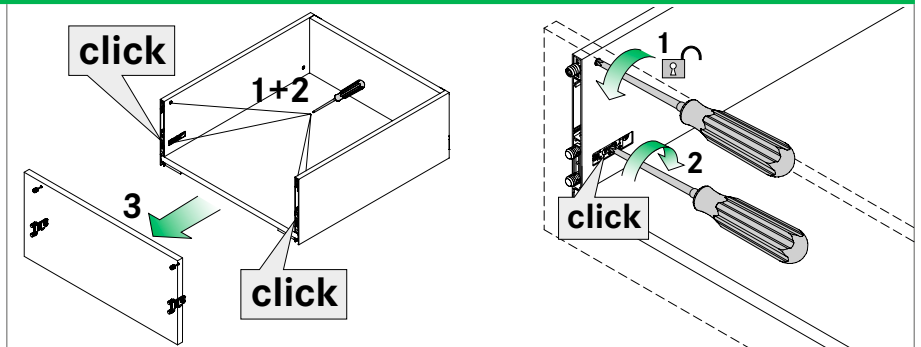
Front panel assembly

Slide the front holder into the drawer sides. The front panel automatically snaps in, fix the front stabiliser.



Front panel removal

Release using a Pozidriv No. 2 screwdriver.

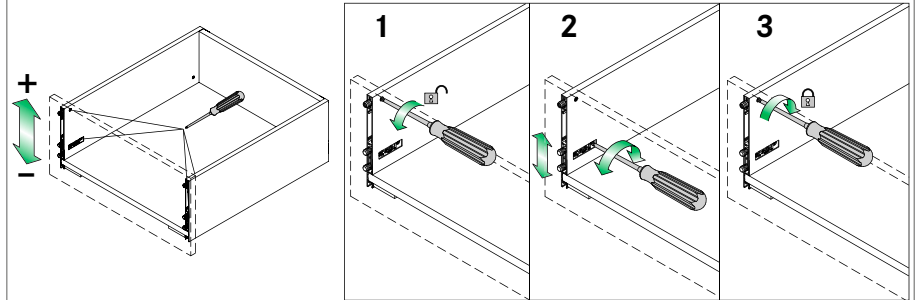


PAGE REFERENCES

Drawer sides	224	Application examples	248	Assembly technology	289
Slides	230	Organising systems	261	Assembly aids	296
Inset panels	238	Sensomatic	273		

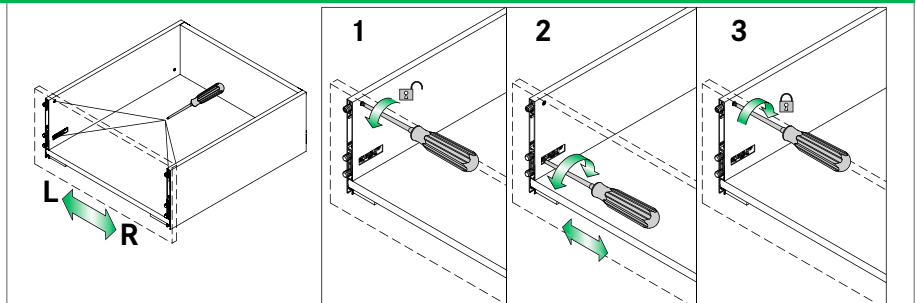
ADJUSTMENT

Cam height adjustment (+2.5/-1.5 mm)

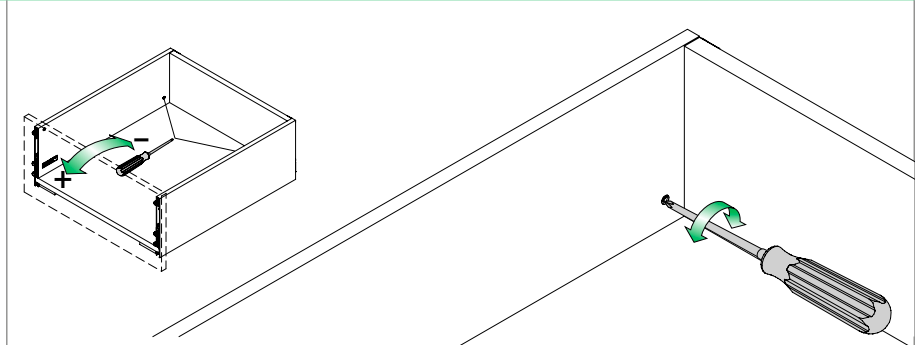


Side adjustment (± 1.5 mm)

Perform on both sides.



Front tilt angle adjustment (+2.5/-1.5 mm)



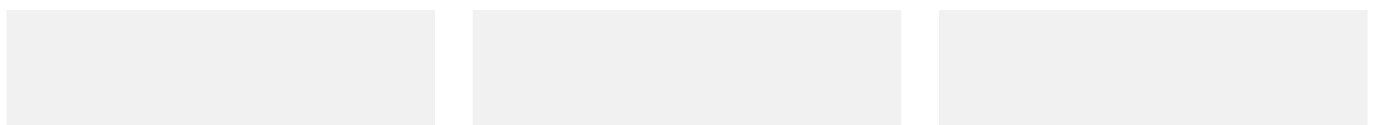
1

2

3

4

LEGEND

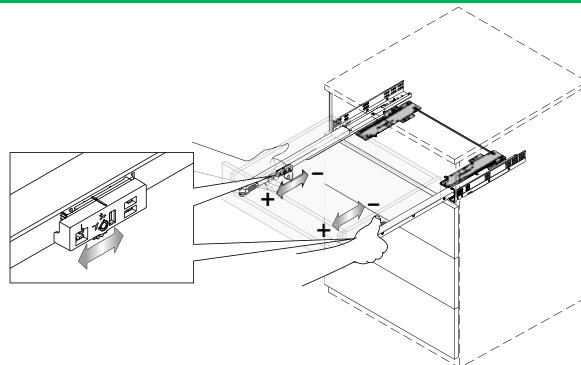
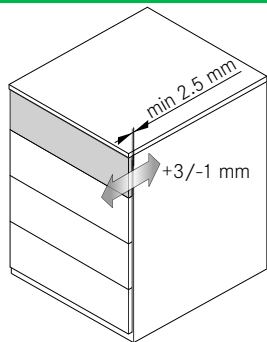


VIONARO V13

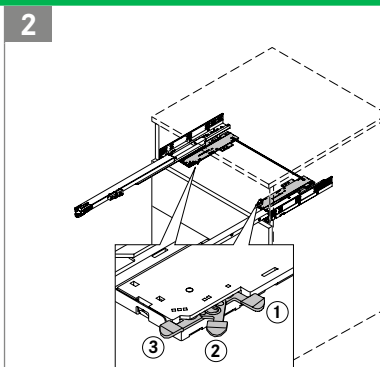
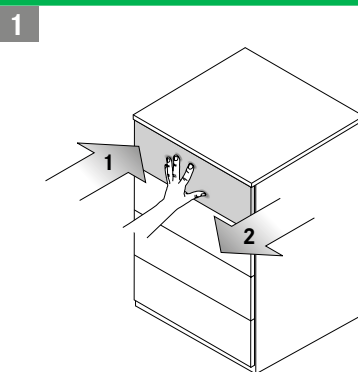
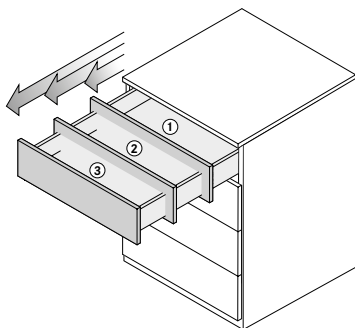
Technical information

DYNAPRO TIPMATIC SOFT-CLOSE

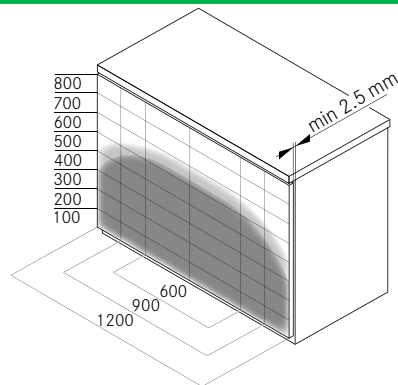
Front gap adjustment (+3 mm/-1 mm)



Opening force



Activation zone



PAGE REFERENCES

Drawer sides	218	Application examples	248	Assembly technology	289
Slides	230	Organising systems	261	Assembly aids	296
Inset panels	238	Sensomatic	273		

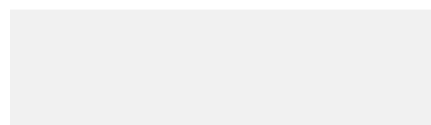
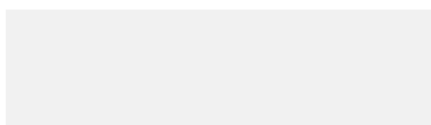
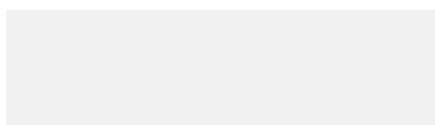
1

2

3

4

LEGEND






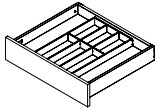
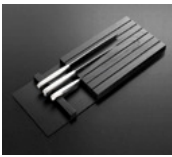
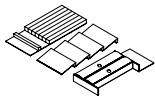
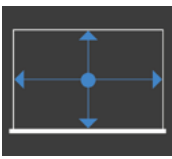

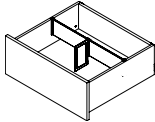
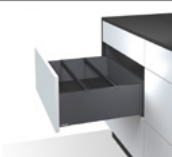
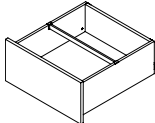
Tavinea Optima.
Division for pot drawers.



TAVINEA SORTO FOR VIONARO DRAWERS. PURIST, SLEEK DESIGN, MATT SURFACES, TIMELESS COLOURS - THE UNDERSTATED ELEGANCE OF THE FRAME SYSTEM ENSURES THAT DRAWERS LOOK JUST AS ATTRACTIVE IN THE KITCHEN, BATHROOM, LIVING ROOM OR BEDROOM. THE INTERIOR ACCESSORY SYSTEM DOES AWAY WITH UNNECESSARY ELEMENTS AND FOCUSES ON ITS ACTUAL PURPOSE: TO ORGANISE THE CONTENTS OF VIONARO DRAWERS.

Simple.
Attractive.
Tidy.

Dividing and Organising Systems for Vionaro V13

	Description		Page
	<p>Tavinea Sorto Interior accessory system</p> <ul style="list-style-type: none"> • Modular interior accessory system • Perfect organisation inside drawers for cutlery and small sundry items • High-quality frame and length dividers made of powder-coated steel 		262
	<p>Tavinea Sorto Accessories</p> <ul style="list-style-type: none"> • The perfect accessories for any application • Knives, spice jars, foil rolls, cutlery or even perfume - with Tavinea Sorto accessories, everything is perfectly sorted • High-quality materials: Aluminium and solid wood 		264
	<p>Tavinea Sorto Planning dimensions</p>		266
	<p>Tavinea Optima Dividing system</p> <ul style="list-style-type: none"> • Dividing system for pot drawers • Organisation of storage space makes everything visible at a glance • Simple, tool-free assembly 		268
	<p>Vionaro V13 Divider railing</p> <ul style="list-style-type: none"> • Divider railing for all Vionaro V13 regular and pot drawers • Easy assembly by mounting on the drawer side • Can be retrofitted at any time • Tool-free adjustment 		270

1
2
3
4

TAVINEA SORTO

Interior accessory system

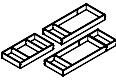


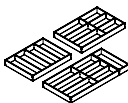
- Perfect organisation inside drawers for cutlery and small sundry items
- High-quality frame and length dividers made of powder-coated steel
- Colour-coordinated
- Innovative anti-slip pads ensure that the frames stay in place


Notice:

- Tavinea Sorto B186 can be used for cabinet width 300 and above
- Tavinea Sorto B276 can be used for cabinet width 400 and above

ORDER INFORMATION

1	Tavinea Sorto B186			
	Piece			
				
NL	Graphite			
350	F007130149			
400	F007130152			
450	F007130155			
500	F007130158			
550	F007130161			
600	F007130164			
650	F007130167			

2	Tavinea Sorto B276			
	Piece			
				
NL	Graphite			
400	F007130131			
450	F007130134			
500	F007130137			
550	F007130140			
600	F007130143			
650	F007130146			

3	Tavinea Sorto Length divider			
	Piece			
				
NL	Graphite			
350	F007130170			
400	F007130173			
450	F007130176			
500	F007130179			
550	F007130182			
600	F007130185			
650	F007130188			

Tavinea Sorto Accessories				
page 264				
				

PAGE REFERENCES

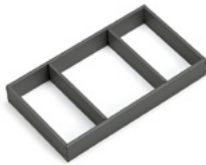
Drawer sides	220	Accessories	264	Assembly technology	289
Slides	230	Installation information	266	Assembly aids	296
Inset panels	238	Sensomatic	273		

PLANNING INFORMATION

All dimensions in millimetres

Tavinea Sorto B186

1



NL 350



NL 400-500



NL 550-650

Tavinea Sorto B276

2



NL 400



NL 450-500



NL 550-650

Tavinea Sorto length divider

3



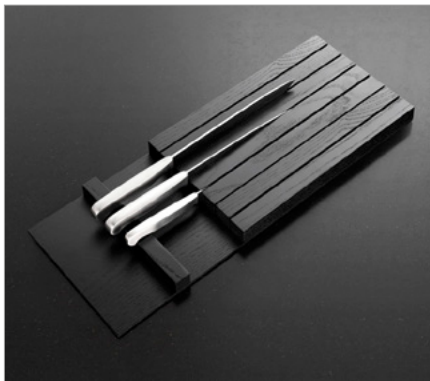
LEGEND

B Width
KB Cabinet width
NL Nominal length



TAVINEA SORTO

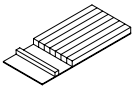
Accessories

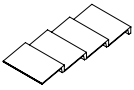


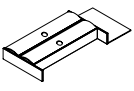
- The perfect accessories for any application
- Knives, spice jars, foil rolls, cutlery or even perfume - with Tavinea Sorto accessories, everything is perfectly sorted
- High-quality materials: Aluminium and solid wood
- Accessories are hygiene-tested and food-safe


Notice:

ORDER INFORMATION

1	Knife block			
	Piece			
				
NL	Ash, bright	Ash, dark		
500	F007102418	F007102424		

2	Spice rack			
	Piece			
				
NL	Ash, bright	Ash, dark		
500	F007102420	F007102426		

3	Foil roll holder			
	Piece			
				
NL	Ash, bright	Ash, dark		
500	F007102422	F007102428		

4	Levelling element			
	Piece			
				
	Ash, bright	Ash, dark		
	F007108659	F007108660		

PAGE REFERENCES

Drawer sides	220	Tavinea Sorto	262	Assembly technology	289
Slides	230	Installation information	266	Assembly aids	296
Inset panels	238	Sensomatic	273		

PLANNING INFORMATION

All dimensions in millimetres

Knife block

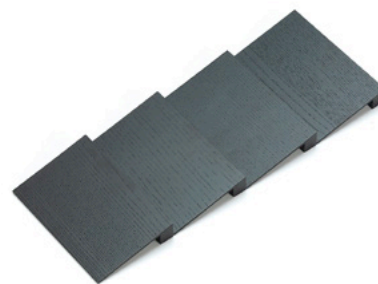
1



1

Spice rack

2



2

3

Foil roll holder

3



4

LEGEND

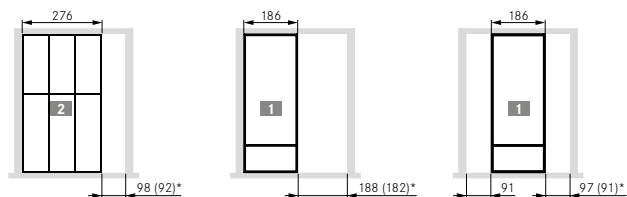
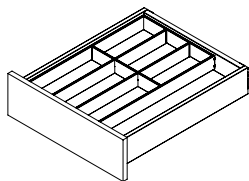
NL Nominal length

TAVINEA SORTO

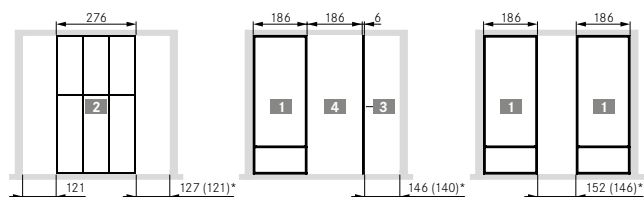
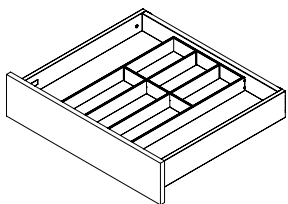
Planning dimensions

APPLICATION EXAMPLES

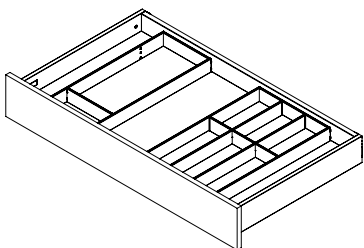
KB 450



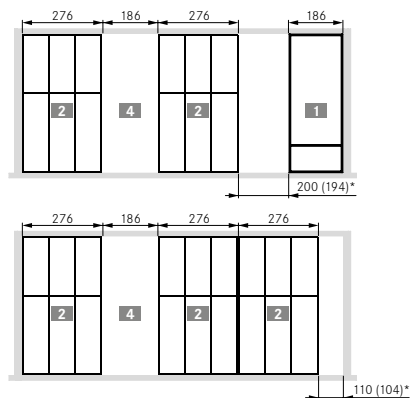
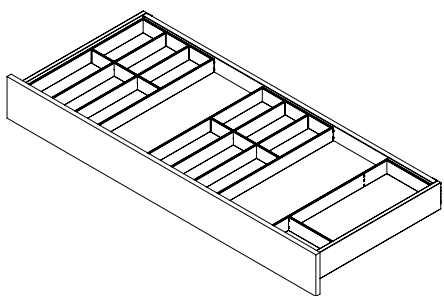
KB 600



KB 900



KB 1200



* S16 (S19)

PAGE REFERENCES

Drawer sides	220	Tavinea Sorto	262	Assembly technology	289
Slides	230	Accessories	264	Assembly aids	296
Inset panels	238	Sensomatic	273		

APPLICATION EXAMPLES

Description

1

2

3

4

NL	X
350	322
400	372
450	422
500	472
550	523
600	573
650	623

PLANNING INFORMATION

Installation dimensions

S	Cabinet width (KB)								
	300	400	450	500	600	800	900	1000	1200
16	224	324	374	424	524	724	824	924	1124
18	220	320	370	420	520	720	820	920	1120
19	218	318	368	418	518	718	818	918	1118

Inside drawer width (LWS)

LEGEND

KB Cabinet width	TAG Tolerance compensation	
LWS Inside drawer width		
NL Nominal length		
S Side wall thickness		





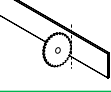
TAVINEA OPTIMA

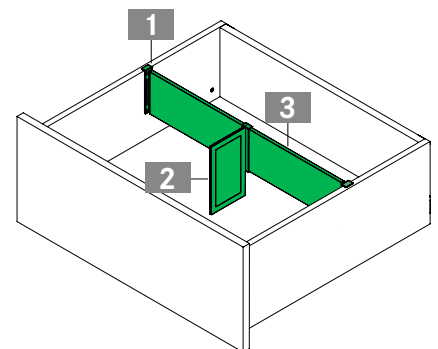
Dividing system



- Dividing system for pot drawers
- Organisation of storage space makes everything visible at a glance
- Simple, tool-free assembly
- Tool-free adjustment for variable use of storage space
- Can be retrofitted at any time
- Colour-coordinated with drawer sides

ORDER INFORMATION

1	Tavinea Optima Profile holder			
	Piece: Left or right			
	Graphite, Stone	Ice		
	F007130228	F007130229		
2	Tavinea Optima Smartboard			
	Piece			
	Graphite, Stone	Ice		
	F007130245	F007130246		
3	Tavinea Optima Divider profile for cutting to length			
	Piece			
L	Graphite	Ice		
1108	F007130242	F007130243		



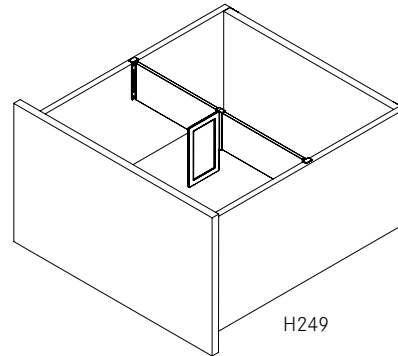
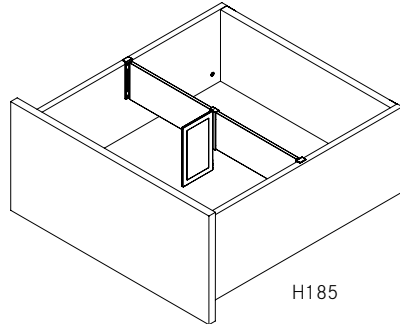
PAGE REFERENCES

Drawer sides	224	Sensomatic	273		
Slides	230	Assembly technology	289		
Inset panels	238	Assembly aids	296		

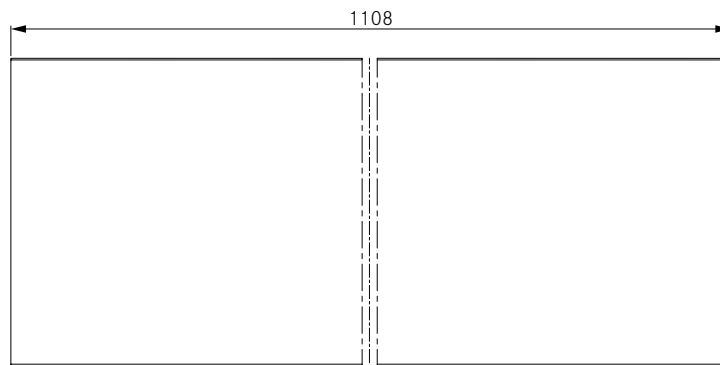
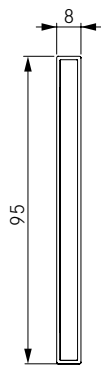
PLANNING INFORMATION

All dimensions in millimetres

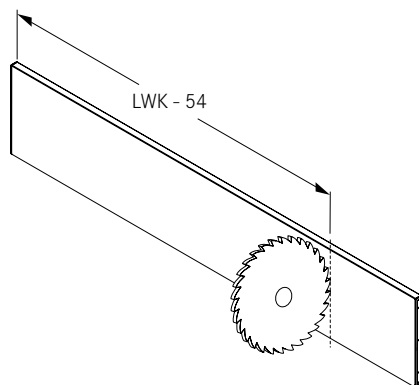
Applications



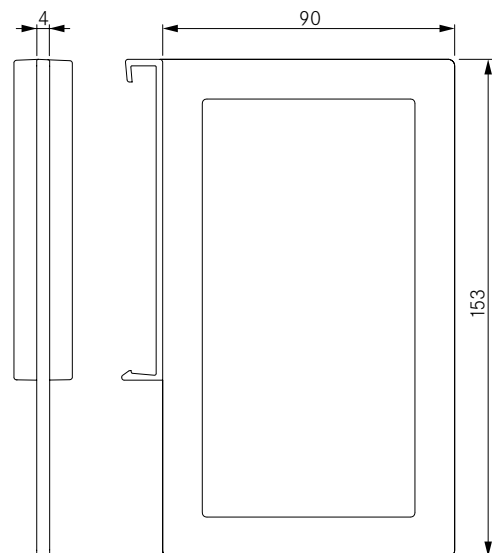
Divider profile



Cutting dimensions for divider profile



Smartboard



LEGEND

L Length
LWK Inside cabinet width

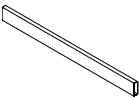
VIONARO V13


Divider railing

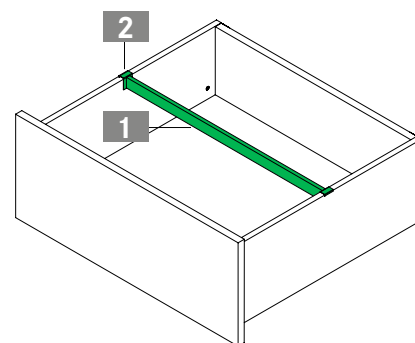


- Divider railing for all Vionaro V13 regular and pot drawers
- Easy assembly by mounting on the drawer side
- Can be retrofitted at any time
- Tool-free adjustment

ORDER INFORMATION

1	Divider railing for cutting to length			
	Piece			
L	Graphite	Ice		
1124	F136107416	F136107417		

2	Clip for divider railing			
	Piece: Left or right			
	Graphite	Ice		
	F136107480	F136107481		

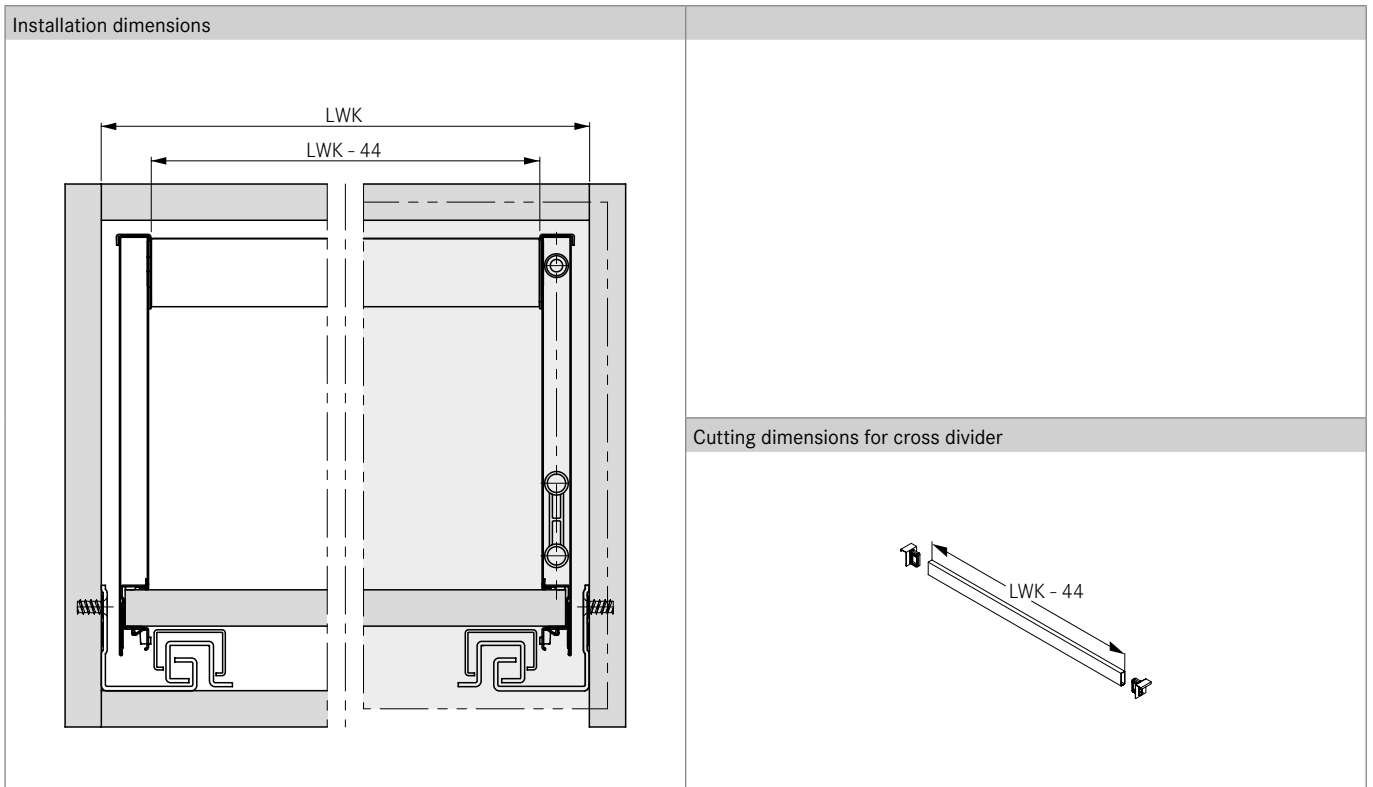


PAGE REFERENCES

Drawer sides	218	Sensomatic	273		
Slides	230	Assembly technology	289		
Inset panels	238	Assembly aids	296		

PLANNING INFORMATION

All dimensions in millimetres



1

2

3

4

LEGEND

L	Length
LWK	Inside cabinet width



**Sensomatic.
There's no more
elegant way to open
handle-free drawers.**



To enable you to test the special properties of Sensomatic yourself, we also supply the electromechanical **opening system as a practical single set.**


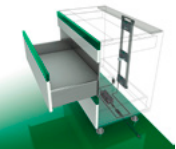
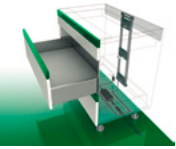
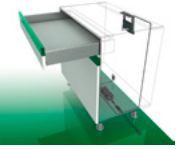
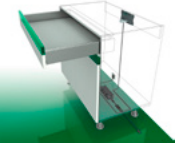
WITH THE SENSOMATIC TOUCH-ACTIVATED AUTOMATIC SYSTEM, A GENTLE TAP IS ALL THAT IS NEEDED TO SET REGULAR AND POT DRAWERS IN MOTION. MECHANICAL TAPPING OR PULLING IS CONVERTED INTO AN ELECTRICAL SIGNAL, WHICH STARTS THE MOVEMENT WITHIN A FEW FRACTIONS OF A SECOND. SMOOTH, PRECISE AND ELEGANT AT THE SAME TIME. **SENSOMATIC IS AN INTERACTIVE MOVEMENT SYSTEM FOR MAXIMUM OPERATING COMFORT AND FREEDOM OF MOVEMENT.**

**Action.
Reaction.
Interaction.**



Sensomatic Opening System for Vionaro V13

Electro-mechanical opening of regular and pot drawers.
For a balance between stylish design and functional comfort.

	Description		Page
	Sensomatic Single set <ul style="list-style-type: none"> • Complete set for one drawer • For cabinet widths up to 1200 mm • Easy to assemble • Extremely simple wiring (plug and play) 		274
	Sensomatic Standard cabinet, horizontal wooden stretcher <ul style="list-style-type: none"> • Smallest additional space requirement between drawer back panel and cabinet • Extremely simple wiring (plug and play) • Only one drive unit for cabinet widths up to 1,200 mm • Large activation zone 		276
	Sensomatic Standard cabinet, vertical wooden stretcher <ul style="list-style-type: none"> • Smallest additional space requirement between drawer back panel and cabinet • Extremely simple wiring (plug and play) • Only one drive unit for cabinet widths up to 1,200 mm • Large activation zone 		278
	Sensomatic Single drawer, overhead frame set mounting <ul style="list-style-type: none"> • Smallest additional space requirement between drawer back panel and cabinet • Extremely simple wiring (plug and play) • Only one drive unit for cabinet widths up to 1200 mm • Large activation zone 		280
	Sensomatic Single drawer back panel frame set mounting <ul style="list-style-type: none"> • Smallest additional space requirement between drawer back panel and cabinet • Extremely simple wiring (plug and play) • Only one drive unit for cabinet widths up to 1,200 mm • Large activation zone 		282



Tipmatic Soft-close

Complete comfort without electronics.

Tipmatic Soft-close keeps mechanical opening without electronic support perfectly under control. This makes Tipmatic Soft-close one of the world's most successful opening systems for handle-free drawers. Tipmatic Soft-close can be found under slides.

SENSOMATIC

Single set



- Electro-mechanical opening system
- Combines handle-free opening with the Soft-close damping system
- 1 drive unit for all weight classes
- Easy to install
- Plug and play wiring
- Low additional installation depth
- Single set contains all components required for assembly
- Ideal for heavy pot drawers and waste separating systems

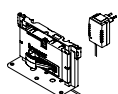
Notice:

- Power supply unit with plug (Central Europe, DE, FR, IT, CH, ES, RU, PT, NL), other country-specific sets on request

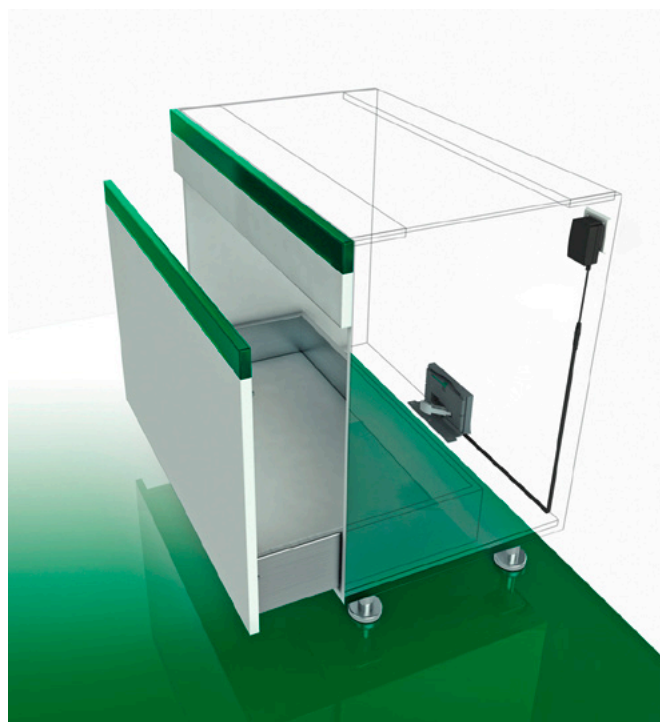
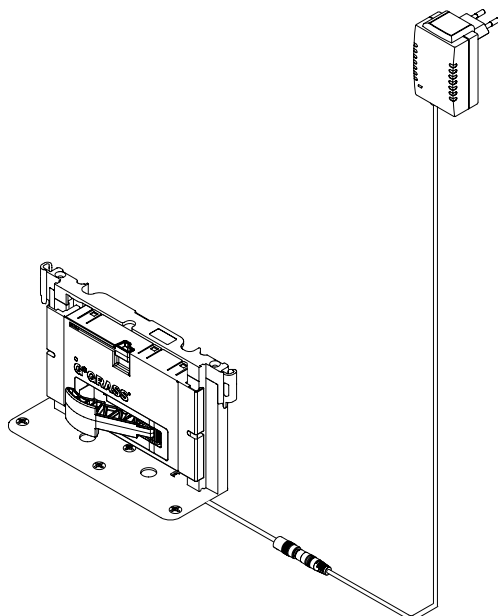
ORDER INFORMATION

Sensomatic Single Set

Set: Drive unit, Installation set, Power supply unit with plug, Front buffer



Plug type	Art. no.
C: Used in: Europe, with the exception of the UK, Ireland, Cyprus and Malta	F121100983



PAGE REFERENCES

Drawer sides	218	Organising systems	261	Assembly aids	296
Slides	230	Installation instructions	284		
Inset panels	238	Assembly technology	289		

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions

RW	min. LWK	MET	LBT
Wooden back panel	273	NL + 15	NL
Steel back panel			

Installation set

Position of drive unit

Position of front buffer

Notice: When using Dynapro slides 70 kg, 4 front buffers must be inserted into the front.

LEGEND


FA	Front overlay	LWK	Inside cabinet width	RW	Back panel
FH	Front height	MET	Minimum installation depth		
KF	Cable routing	NL	Nominal length		
LBT	Depth of hole pattern	P	Positioning aid		




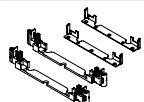
SENSOMATIC


Standard cabinet, horizontal wooden stretcher


ORDER INFORMATION

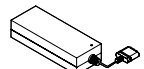
1	Drive unit Piece	
	Suitable for slide Dynapro, Nova Pro	Art. no. F121131975

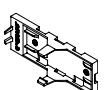
2	Length divider Pair	
	Traverse length 750	Art. no. F121100285


3	Fastening set Set: Frame connector, Fixing brackets	
	Opening/closing system Sensomatic	Art. no. F121100610


3a	Frame connector Piece	
	Opening/closing system Sensomatic	Art. no. F121100282


3b	Fixing bracket Piece: Top or bottom	
	Opening/closing system Sensomatic	Art. no. F121100270

4	Power supply unit Piece	
	Opening/closing system Sensomatic	Art. no. F121109970

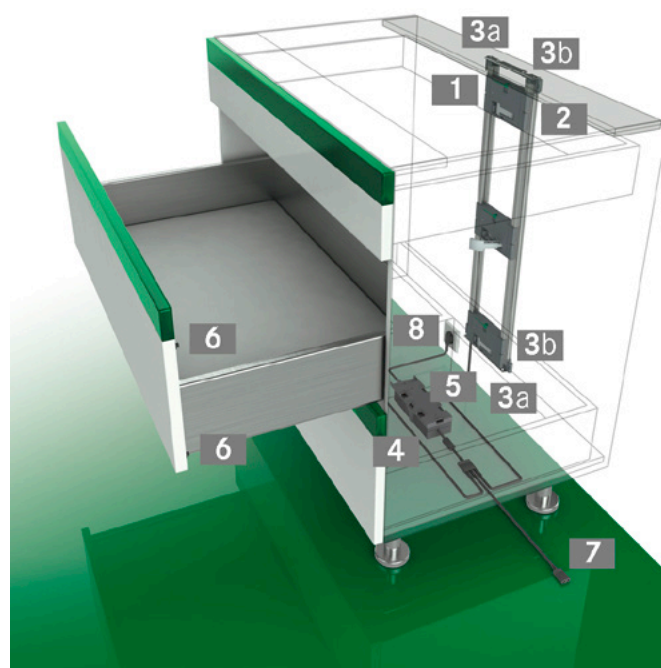
5	Power supply bracket Piece	
	Opening/closing system Sensomatic	Art. no. F121100604

6	Front buffer, spring loaded Piece		
	Ø	Front gap	Art. no.
	5	2.2	F121100294
5	3	F121100295	

7	Connection cable with 2-way adapter Piece	
	L	Art. no.
	1000	F121100289
2000	F121100291	

8	Power supply cable Piece	
	Plug type	Art. no.
	E: Used in: France, Belgium, Slovakia and Tunisia, F: Used in: Germany, Austria, the Netherlands and Spain	F120069761
J: Used in: Switzerland and Lichtenstein	F120069765	

Other country-specific plug types on request.



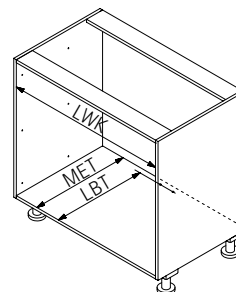
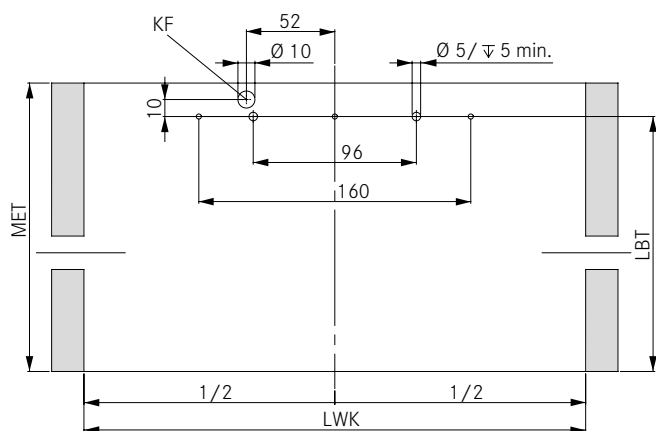
PAGE REFERENCES

Drawer sides	218	Organising systems	261	Assembly aids	296
Slides	230	Installation instructions	284		
Inset panels	238	Assembly technology	289		

PLANNING INFORMATION

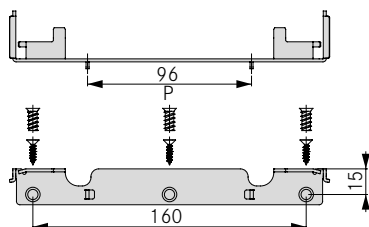
All dimensions in millimetres

Installation dimensions

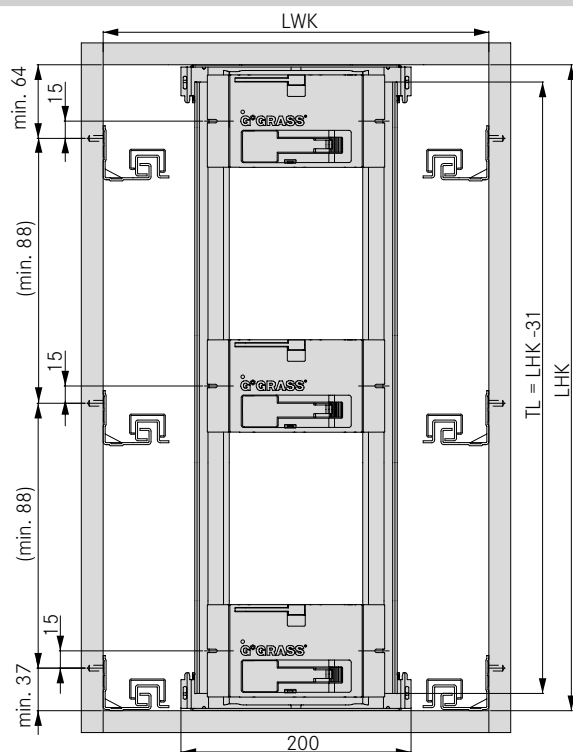


RW	min. LWK	MET	LBT
Wooden back panel		NL + 15	NL
Steel back panel	273	NL + 15	NL

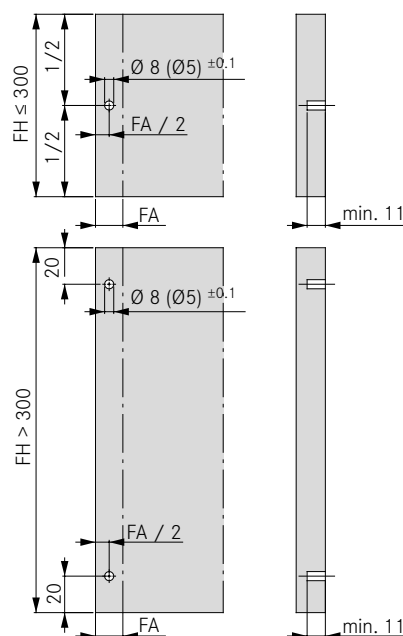
Upper/lower fixing bracket



Position of drive unit



Position of front buffer



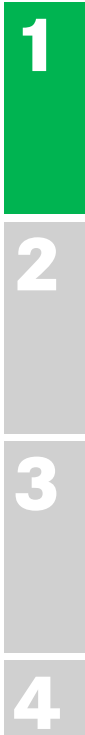
Notice: When using Dynapro slides 70 kg, 4 front buffers must be inserted into the front.

LEGEND

FA Front overlay
FH Front height
KF Cable routing
LBT Depth of hole pattern

LHK Inside cabinet height
LWK Inside cabinet width
MET Minimum installation depth
NL Nominal length


P Positioning aid
RW Back panel
TL Torsion bar length





SENSOMATIC


Standard cabinet, vertical wooden stretcher


ORDER INFORMATION

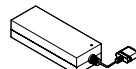
1	Drive unit Piece	
	Suitable for slide Dynapro, Nova Pro	Art. no. F121131975


2	Length divider Pair	
	Traverse length 750	Art. no. F121100285


3	Frame connector Piece	
	Opening/closing system Sensomatic	Art. no. F121100282


4	Fixing bracket Piece: Top or bottom	
	Opening/closing system Sensomatic	Art. no. F121100270


5	Fixing bracket Piece: Back	
	Opening/closing system Sensomatic	Art. no. F121100275

6	Power supply unit Piece	
	Opening/closing system Sensomatic	Art. no. F121109970

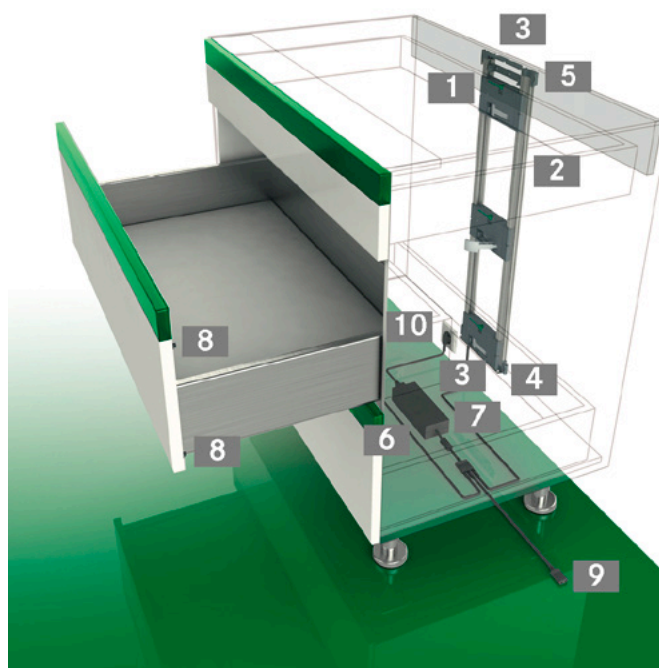
7	Power supply bracket Piece	
	Opening/closing system Sensomatic	Art. no. F121100604

8	Front buffer, spring loaded Piece		
	Ø	Front gap	Art. no.
	5	2.2	F121100294
5	3	F121100295	

9	Connection cable with 2-way adapter Piece	
	L	Art. no.
	1000	F121100289
2000	F121100291	

10	Power supply cable Piece	
	Plug type	Art. no.
	E: Used in: France, Belgium, Slovakia and Tunisia, F: Used in: Germany, Austria, the Netherlands and Spain	F120069761
J: Used in: Switzerland and Lichtenstein	F120069765	

Other country-specific plug types on request.



PAGE REFERENCES

Drawer sides	218	Organising systems	261	Assembly aids	296
Slides	230	Installation instructions	284		
Inset panels	238	Assembly technology	289		

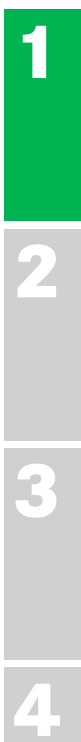
PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions													
	<table border="1"> <thead> <tr> <th>RW</th> <th>min. LWK</th> <th>MET</th> <th>LBT</th> </tr> </thead> <tbody> <tr> <td>Wooden back panel</td> <td></td> <td>NL + 20*</td> <td>NL + 5*</td> </tr> <tr> <td>Steel back panel</td> <td>273</td> <td></td> <td></td> </tr> </tbody> </table>	RW	min. LWK	MET	LBT	Wooden back panel		NL + 20*	NL + 5*	Steel back panel	273		
RW	min. LWK	MET	LBT										
Wooden back panel		NL + 20*	NL + 5*										
Steel back panel	273												
Upper/lower fixing bracket	Fixing bracket on the inner rear side												
Position of drive unit	Position of front buffer												
	<p>Notice: When using Dynapro slides 70 kg, 4 front buffers must be inserted into the front.</p>												

LEGEND

FA	Front overlay	LHK	Inside cabinet height	P	Positioning aid
FH	Front height	LWK	Inside cabinet width	RW	Back panel
KF	Cable routing	MET	Minimum installation depth	TL	Torsion bar length
LBT	Depth of hole pattern	NL	Nominal length		



SENSOMATIC

Single drawer, overhead frame set mounting

ORDER INFORMATION

1	Drive unit	
	Piece	

	Suitable for slide	Art. no.
	Dynapro, Nova Pro	F121131975

2	Installation set	
	Set	


	Opening/closing system	Art. no.
	Sensomatic	F121100273

3	Power supply unit	
	Piece	


	Opening/closing system	Art. no.
	Sensomatic	F121109970

4	Power supply bracket	
	Piece	

	Opening/closing system	Art. no.
	Sensomatic	F121100604

5	Front buffer, spring loaded	
	Piece	

\emptyset	Front gap	Art. no.
5	2.2	F121100294
5	3	F121100295

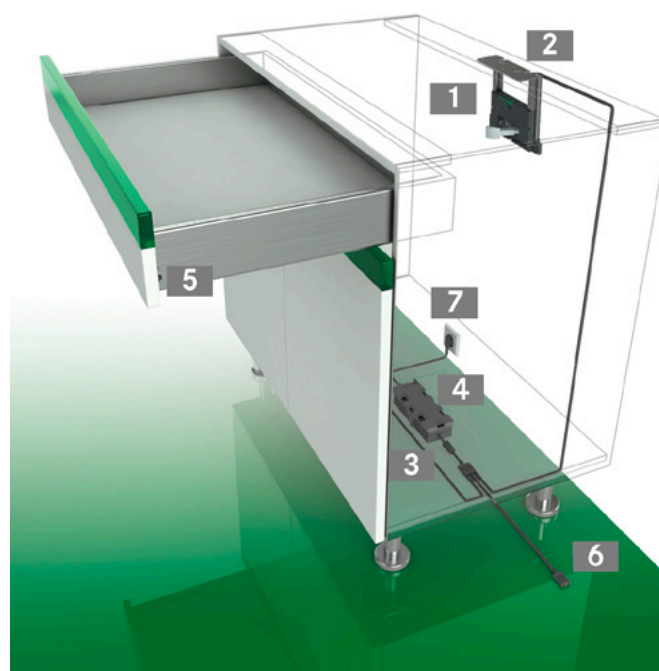
6	Connection cable with 2-way adapter	
	Piece	

	L	Art. no.
	1000	F121100289
	2000	F121100291

7	Power supply cable	
	Piece	

	Plug type	Art. no.
	E: Used in: France, Belgium, Slovakia and Tunisia, F: Used in: Germany, Austria, the Netherlands and Spain	F120069761
	J: Used in: Switzerland and Lichtenstein	F120069765

Other country-specific plug types on request.



PAGE REFERENCES

Drawer sides	218	Organising systems	261	Assembly aids	296
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Inset panels	238	Assembly technology	289		

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions

RW	min. LWK	MET	LBT
Wooden back panel		NL + 15	NL
Steel back panel	273		

Installation set

Position of drive unit

Position of front buffer

Notice: When using Dynapro slides 70 kg, 4 front buffers must be inserted into the front.

LEGEND


FA	Front overlay	LBT	Depth of hole pattern	P	Positioning aid
FH	Front height	LWK	Inside cabinet width	RW	Back panel
KF	Cable routing	MET	Minimum installation depth		
KUB	Cabinet base	NL	Nominal length		





SENSOMATIC

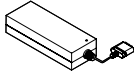
Single drawer back panel frame set mounting


ORDER INFORMATION


1	Drive unit	
	Piece	
	Suitable for slide	Art. no.
	Dynapro, Nova Pro	F121131975


2	Length divider	
	Pair	
	Traverse length	Art. no.
	64	F121100283

3	Frame connector	
	Piece	
	Opening/closing system	Art. no.
	Sensomatic	F121100282

4	Power supply unit	
	Piece	
	Opening/closing system	Art. no.
	Sensomatic	F121109970

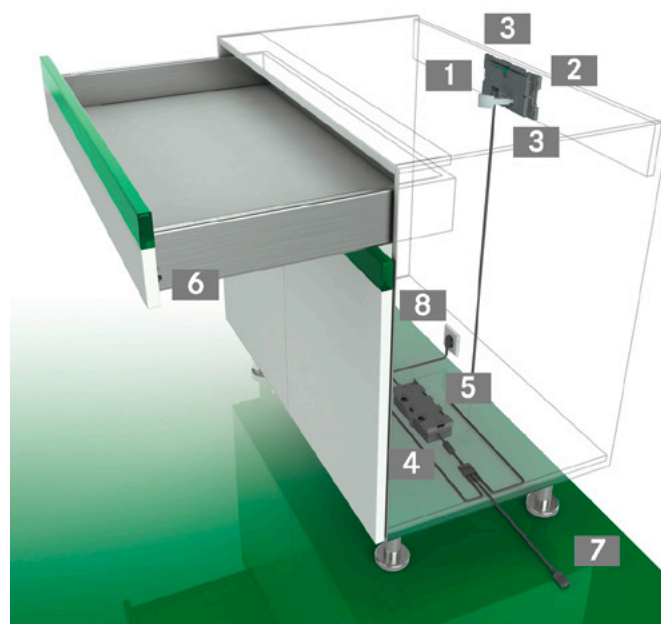
5	Power supply bracket	
	Piece	
	Opening/closing system	Art. no.
	Sensomatic	F121100604

6	Front buffer, spring loaded	
	Piece	
Ø	Front gap	Art. no.
5	2.2	F121100294
5	3	F121100295

7	Connection cable with 2-way adapter	
	Piece	
	L	Art. no.
	1000	F121100289
	2000	F121100291

8	Power supply cable	
	Piece	
	Plug type	Art. no.
	E: Used in: France, Belgium, Slovakia and Tunisia, F: Used in: Germany, Austria, the Netherlands and Spain	F120069761
	J: Used in: Switzerland and Lichtenstein	F120069765

Other country-specific plug types on request.



PAGE REFERENCES

Drawer sides	218	Organising systems	261	Assembly aids	296
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PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions										
	<table border="1"> <thead> <tr> <th>RW</th> <th>min. LWK</th> <th>MET</th> </tr> </thead> <tbody> <tr> <td>Wooden back panel</td> <td>273</td> <td>NL + 20*</td> </tr> <tr> <td>Steel back panel</td> <td></td> <td></td> </tr> </tbody> </table>	RW	min. LWK	MET	Wooden back panel	273	NL + 20*	Steel back panel		
RW	min. LWK	MET								
Wooden back panel	273	NL + 20*								
Steel back panel										
Frame sides										
Position of drive unit	Position of front buffer									
	<p>Notice: When using Dynapro slides 70 kg, 4 front buffers must be inserted into the front.</p>									

LEGEND

FA Front overlay
FH Front height
KF Cable routing
LWK Inside cabinet width

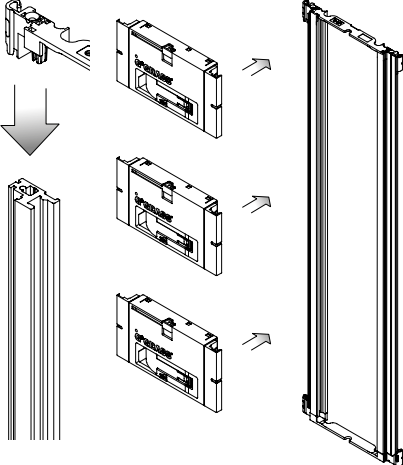
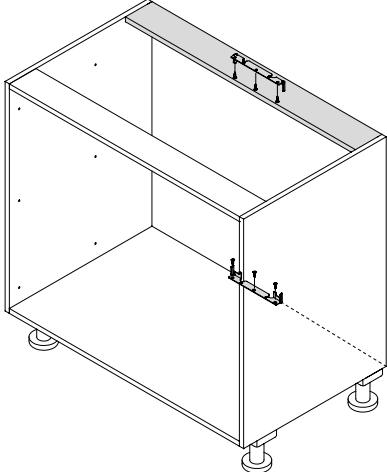
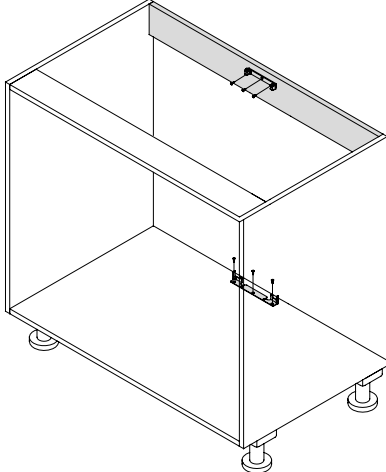
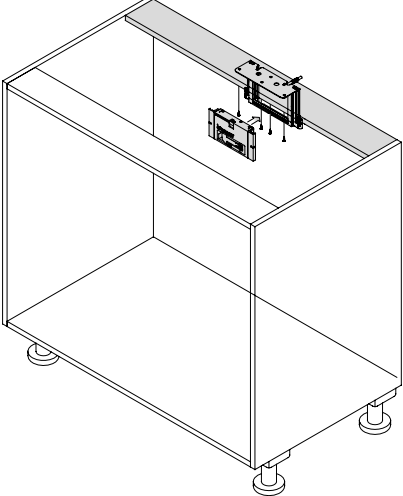
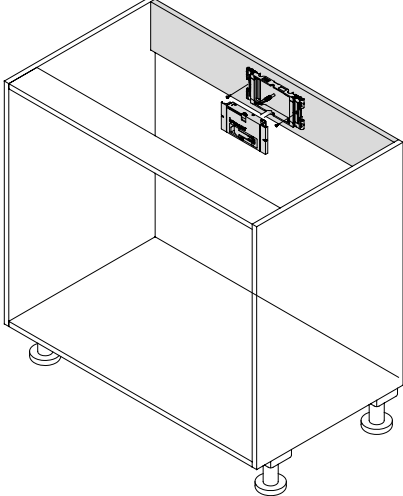
MET Minimum installation depth
NL Nominal length
RW Back panel
SPS Chipboard screw



SENSOMATIC

Installation instructions

INSTALLATION INSTRUCTIONS

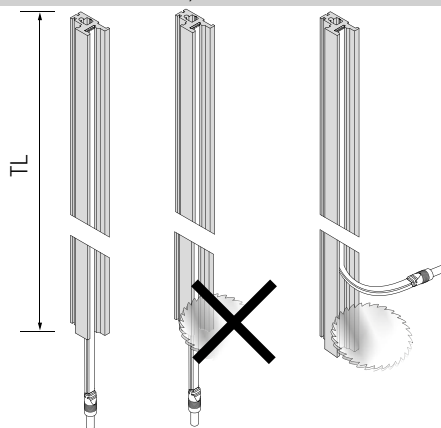
<p>Length divider installation</p> 	<p>Installation of standard cabinet horizontal wooden stretcher</p> 	<p>Installation of standard cabinet vertical wooden stretcher</p> 
<p>Overhead mounting of the single drawer</p> 	<p>Back panel mounting of the single drawer</p> 	

PAGE REFERENCES

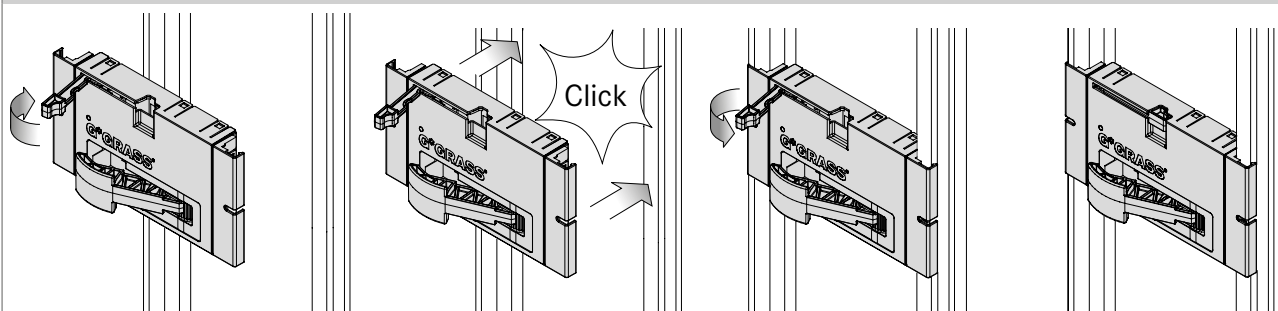
Horizontal wooden stretcher	276	Back panel mounting	282	Organising systems	261
Vertical wooden stretcher	278	Drawer sides	218	Assembly technology	289
Overhead mounting	280	Slides	230	Assembly aids	296

INSTALLATION INSTRUCTIONS

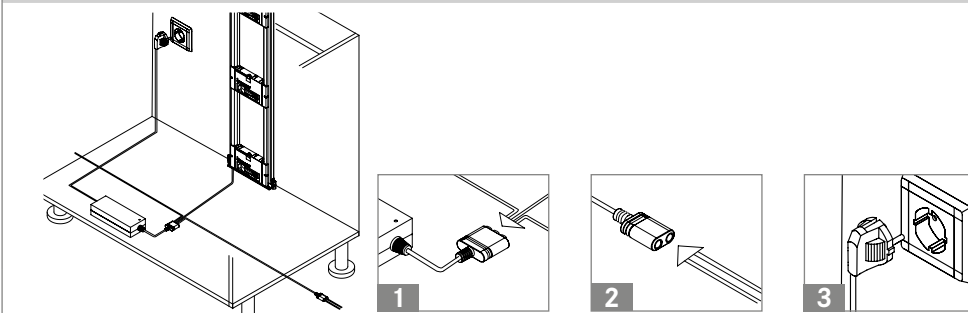
Cutting frame side to length (for horizontal and vertical wooden stretchers)



Installation of the drive unit



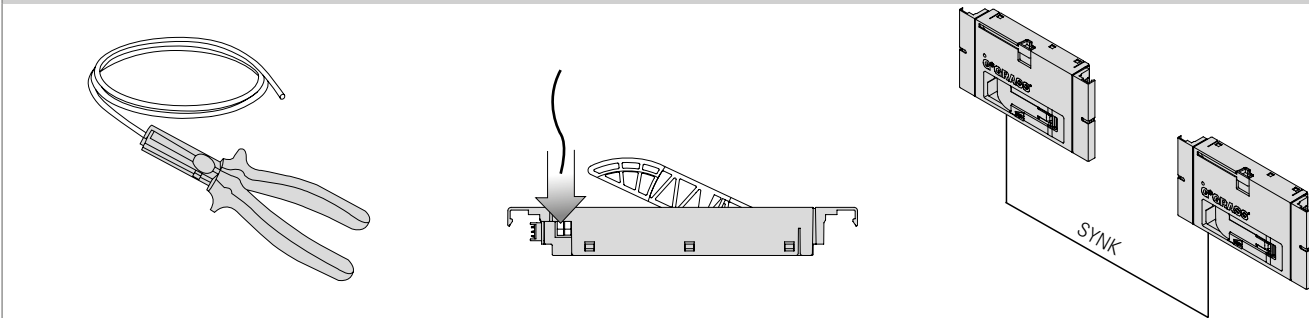
Wiring (connection sequence)



Front buffer installation



Installation of the synchronisation cable



LEGEND

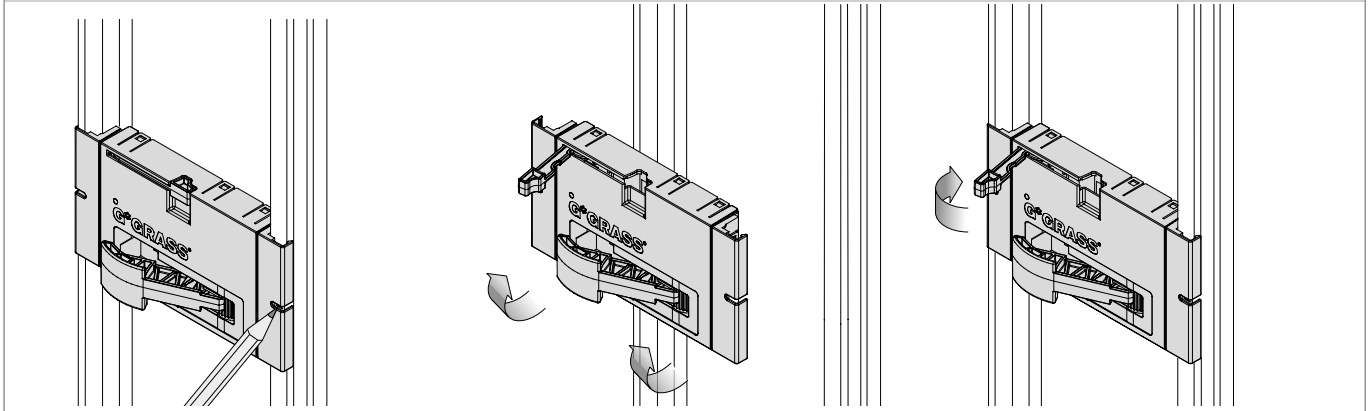
SYNK Synchronisation cable
TL Torsion bar length

SENSOMATIC

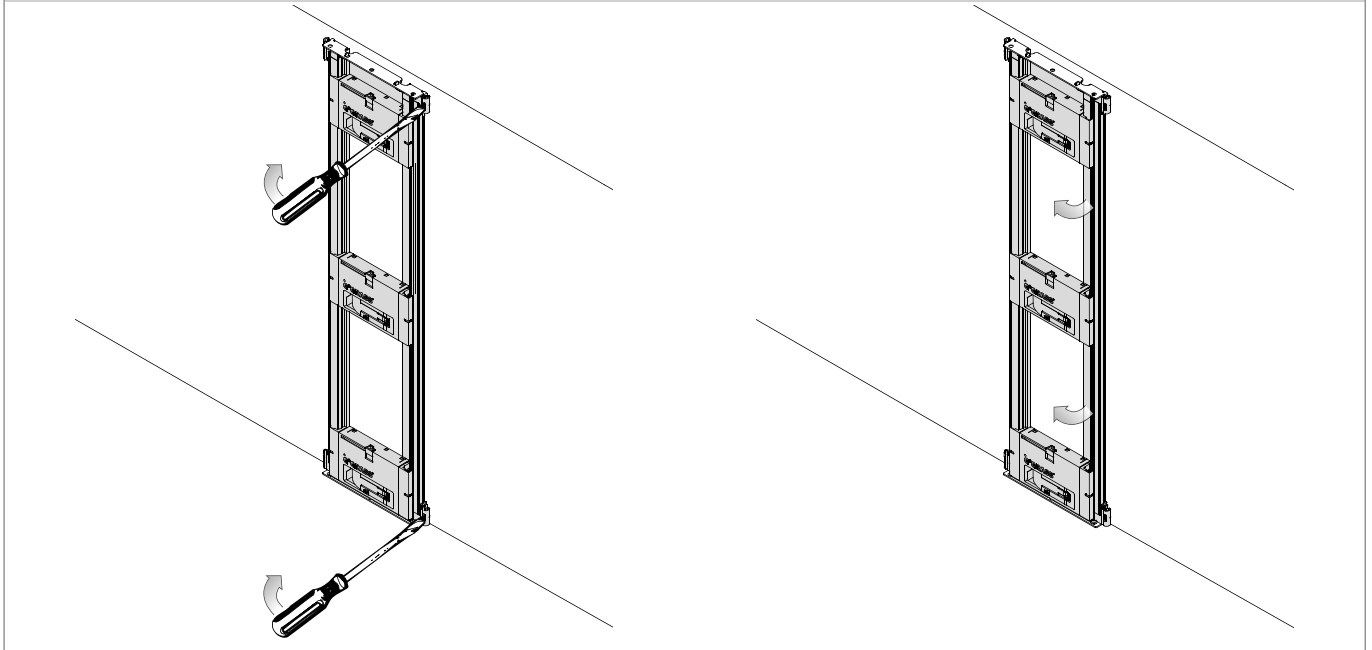
Removal instructions

DISMANTLING INSTRUCTIONS

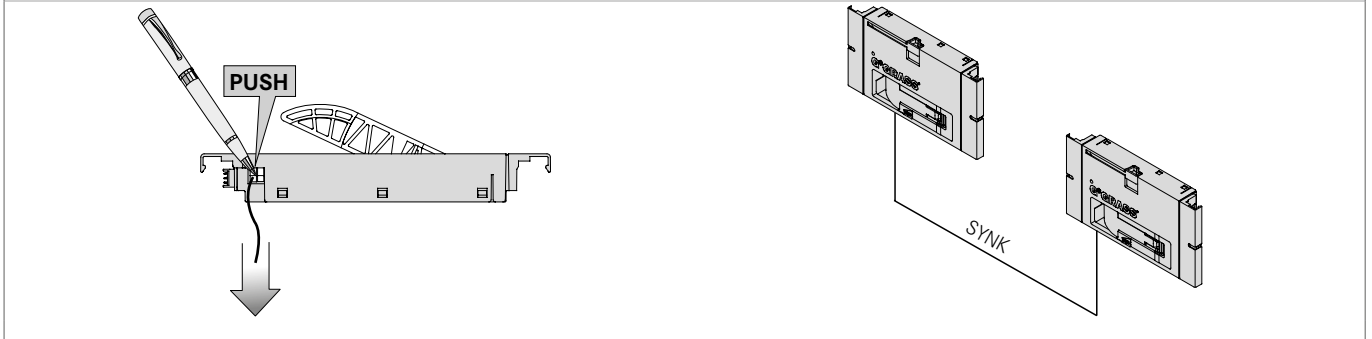
Removal of the drive unit



Removal of the frame sides



Removal of the synchronisation cable

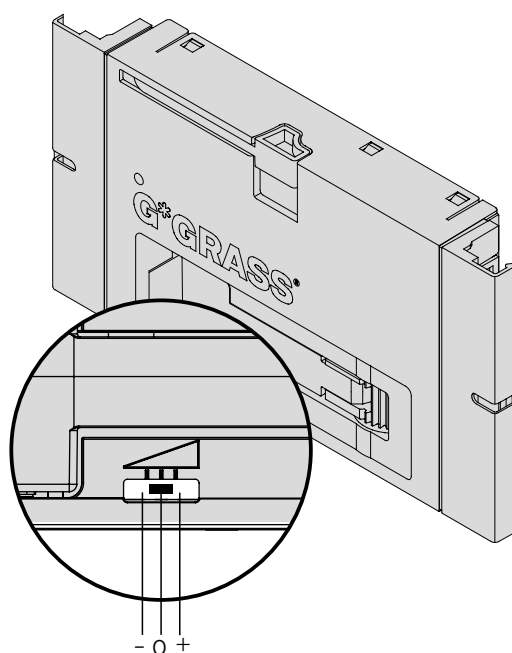


PAGE REFERENCES

Horizontal wooden stretcher	276	Back panel mounting	282	Organising systems	261
Vertical wooden stretcher	278	Drawer sides	218	Assembly technology	289
Overhead mounting	280	Slides	230	Assembly aids	296

ADJUSTMENT

Variable drive force



NOTICE

- The cabinet must be level
- System must be disconnected from the power supply for installation and removal!
- Provide switched sockets
- For a cabinet width of 1200 mm and above, we recommend using 2 drive units. The synchronisation cable ensures that these units are activated simultaneously
- **Important:**
No screws may be inserted in the drawer back panel near the drive lever
- Up to 30 drive units can be operated per power supply unit

PROOF OF PERFORMANCE

- **Application area**
Only in dry, closed spaces
- **Power supply unit**
Power supply:
100 to 240 V
Mains frequency: 50 to 60 Hz
Max. power output: 230 W
- **Drive unit**
Power supply: 24 V
- **Operating conditions**
Temperature: 0 to 50°C
Air humidity: 15 to 90%
Non-condensing

LEGEND

SYNK Synchronisation cable



SOPHISTICATED AND WELL-TESTED TECHNOLOGY FOR FAST, SAFE WORKING. THE VALUE OF A MOVEMENT SYSTEM IS MADE UP OF MANY INFLUENCING FACTORS. IN ADDITION TO VISUAL AND FUNCTIONAL PROPERTIES, THE FOCUS IS ON PERMANENTLY CONSISTENT QUALITY AND THE POSSIBILITIES FOR EFFICIENT PROCESSING. GRASS OFFERS PROFESSIONAL INSTALLATION AND ASSEMBLY AIDS FOR ALL PRODUCT FAMILIES, TAILORED TO THE MANUFACTURING TECHNOLOGY OF OUR SATISFIED CUSTOMERS.

Tecmator.
Strong. Fast.
Economical.



Along with the Tecmator drawer presses for the professional assembly of our drawer systems and the Tecmator drilling and insertion machines, GRASS offers a variety of useful accessories for trade and industry.



Tecmator Assembly Technology for Vionaro V13

Installation and assembly aids. Tried-and-tested technology for the professional and cost-effective assembly of GRASS movement systems.

Product description	Page
Tecmator ZP-V-E2 Industrial production of Vionaro V13 regular and pot drawers	290
Tecmator ZMV-TP4 Semi-automatic assembly of regular and pot drawers	292
Tecmator ZMV-FIX H250 Mechanical assembly of regular and pot drawers	294
Assembly aids Vionaro V13	296
Assembly aids Dynapro	298

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TECMATOR ZP-V-E2

Industrial production of Vionaro V13 regular and pot drawers



- Suitable for press fitting Vionaro V13 steel drawers (H89/H121/H185) with wooden or steel back panels
- Simple handling of individual parts on the machine
- For series production
- Automatic press fitting of the bottom spikes
- Stepless width adjustment
- Standard widths with locking position
- Sturdy frame construction
- Flexible drawer width adjustment using wooden back panel as template
- Smooth width adjustment with pneumatic clamping
- Short process times


Standard equipment:

- Press fitting of bottom spikes for all nominal lengths
- Stop set for cabinet widths of 250-1,200 (50 mm increments)
- Stops for three wooden back panel heights

Notice:

- Wooden back panels can only be used if pushers for press-in dowel insertion are removed or back panels are pre-drilled

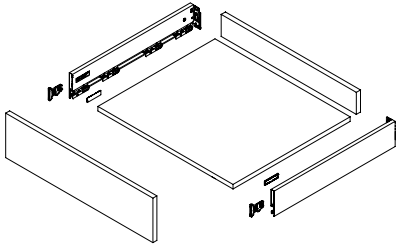
ORDER INFORMATION

	Model variant	Compressed air supply	Width	Depth	Height	Weight		Art. no.
	ZP-V-E2	6 bar	1.8 m	1 m	1.9 m	120 kg		F146131551

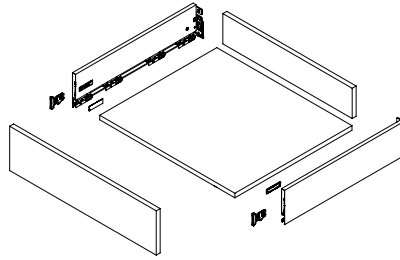
PAGE REFERENCES

Drawer sides	218	Organising systems	261		
Slides	230	Sensomatic	273		
Inset panels	238	Assembly aids	296		

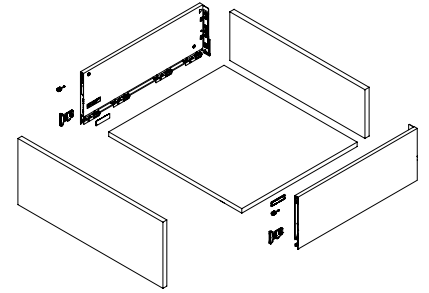
VIONARO V13 H89



VIONARO V13 H121



VIONARO V13 H185

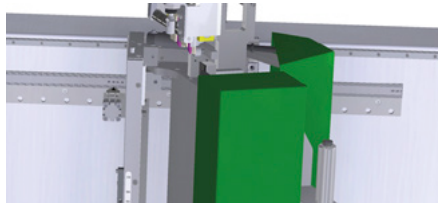


ADVANTAGES

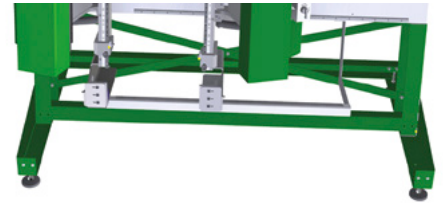
Easy width adjustment thanks to pneumatic clamping



Straightforward handling of the individual parts on the machine



Very stable frame construction



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TECMATOR ZMV-TP4

Semi-automatic assembly of regular and pot drawers



- Suitable for press-fitting Nova Pro Scala/One and Vionaro V13 drawers
- Pneumatic table top unit (drawer side height up to 250 mm)
- The ZMV-TP4 can be used to process drawers for outside cabinet widths of up to 1,200 mm
- Simple and straightforward handling
- Sturdy construction
- For small series production
- Pneumatic control
- High performance

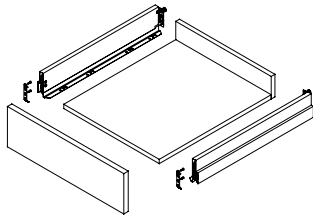
ORDER INFORMATION

	Model variant	Compressed air supply	Width	Depth	Height	Weight		Art. no.
	ZMV-TP4	6 bar	1.62 m	0.9 m	0.5 m	65 kg		F146108668

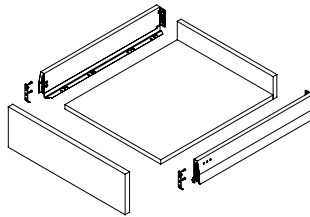
PAGE REFERENCES

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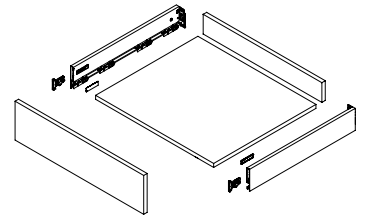
NOVA PRO SCALA



NOVA PRO ONE

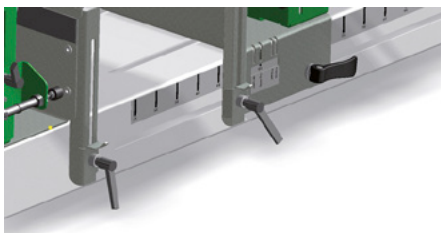


VIONARO V13

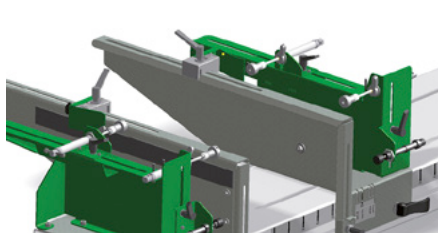


ADVANTAGES

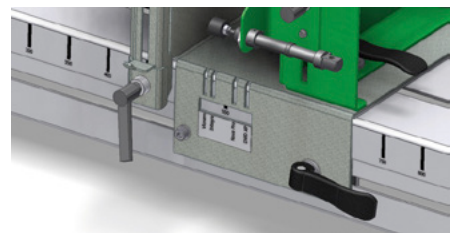
Tool-free setting



Sturdy base frame with pneumatic closing mechanism



All GRASS drawer systems can be processed



1

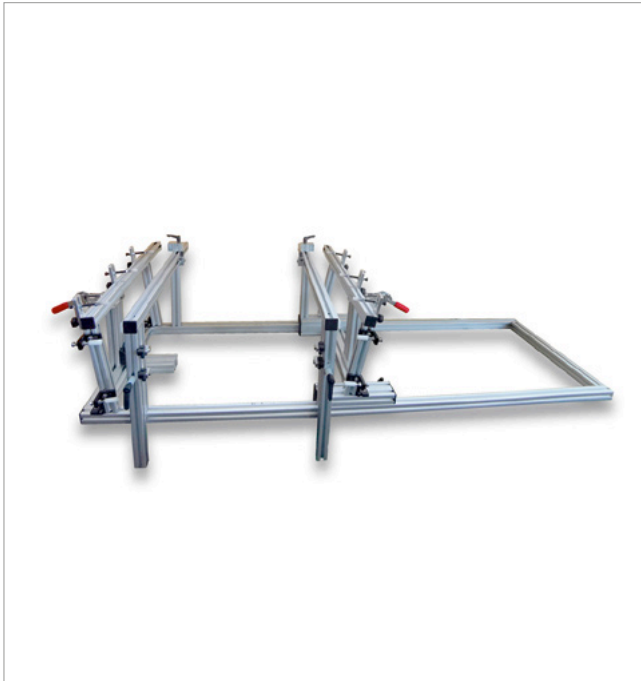
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TECMATOR ZMV-FIX H250

Mechanical assembly of regular and pot drawers



- Suitable for installation of all GRASS drawers and extensions
- Suitable for installation of wooden and steel back panels
- Simple and straightforward handling of individual parts on the machine
- Lightweight frame construction (10 kg)
- Suitable for individual production
- Drawer side heights up to 250 mm can be installed
- Drawer width can be adjusted up to KB 1200 mm
- Flexible drawer width adjustment using wooden back panel as template (standard)
- Smooth width adjustment

Standard equipment:

- Flexible adjustment of the stops for drawer depth
- Flexible adjustment of the stops for wooden back panel heights
- Flexible drawer width adjustment using wooden back panel as template

Notice:

- Wooden back panels with 8 mm and 16 mm thickness can be installed, but must be screwed in
- Steel back panels can be installed, but must be screwed in

ORDER INFORMATION

	Model variant	Width	Depth	Height	Weight			Art. no.
	ZMV-FIX H250	1.52 m	0.72 m	0.36 m	10 kg			F146132388

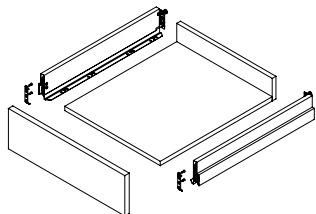
FIXED STOPS

Description			Functions	Art. no.
<ul style="list-style-type: none"> • For fixed adjustment of the nominal length and the back panel height 			Nominal length adjustment (fix), Back panel height adjustment (fix)	F146132390

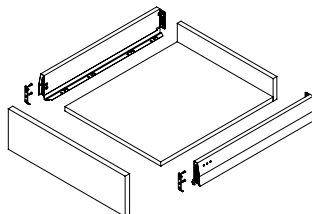
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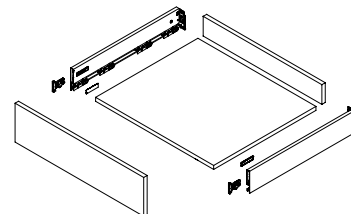
NOVA PRO SCALA



NOVA PRO ONE



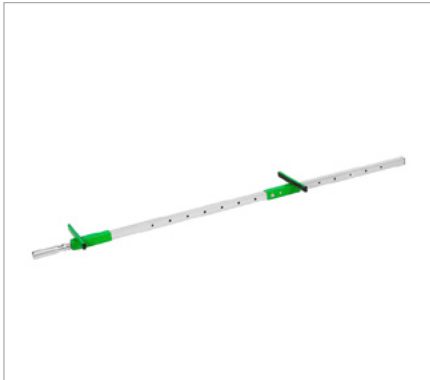
VIONARO V13



- 1
- 2
- 3
- 4

ASSEMBLY AIDS

Vionaro V13



DRAWER CLAMP

- For easy assembly of regular and pot drawers up to a cabinet width of 1200 mm
- Can be used for all drawer side heights

Product type	Art. no.
Drawer clamp	F146108833



FRONT DRILLING JIG

- Front drilling jig for Vionaro V8/V13 front holder and front stabiliser
- Also suitable for Vionaro V13 concealed panels
- Not suitable for Vionaro concealed panels

Product type	Art. no.
Drilling jig	F146100562



MARKING JIG H63

- For the precise centre punching of holes for the Vionaro V13 front holder and front stabiliser

Marking jig for front holder (2 x)

Suitable for frame	Art. no.
Vionaro V13	F146101010



MARKING JIG H89/H121/H185/H249

- For the precise centre punching of holes for the Vionaro V13 front holder and front stabiliser

Marking jig for front holder (2 x), marking jig for front stabiliser (2 x)

Suitable for frame	Art. no.
Vionaro V13	F146100545

PAGE REFERENCES

Drawer sides	218	Organising systems	261		
Slides	230	Sensomatic	273		
Inset panels	238	Assembly technology	289		

1



PUNCHING TOOL

- Punching tool for Vionaro V13 front stabiliser

Suitable for frame	Art. no.
Vionaro V13	F146116216

2



PUNCHING TOOL

- Punching tool for Vionaro V8/V13 bottom spike

Suitable for frame	Art. no.
Vionaro V13 Vionaro V8	F146116217

3



PUNCHING TOOL H89/H121/H185/H249

- Punching tool for Vionaro V13 front holder with press-fit dowel

Suitable for frame	Art. no.
Vionaro V13 H89 Vionaro V13 H121 Vionaro V13 H185 Vionaro V13 H249	F146116213

4

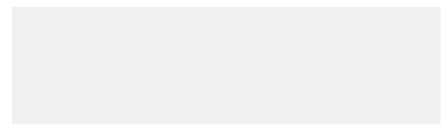
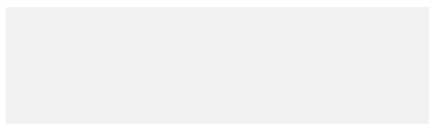
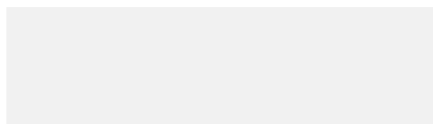


PUNCHING TOOL H63

- Punching tool for Vionaro V13 front holder with press-fit dowel

Suitable for frame	Art. no.
Vionaro V13 H63	F146117976

LEGEND



ASSEMBLY AIDS

Dynapro



DRILLING JIG FOR CABINET RAIL

Guide rule (1 x), stop elements (4 x),
stop plates (2 x)

Product type	Art. no.
Drilling jig	F146094730



STOP ELEMENT INDIVIDUAL

- For extension of the drilling jig, cabinet rail F146094730

Product type	Art. no.
Individual marking element	F146094721



DRILLING JIG FOR CABINET RAIL

- For use with pilot drill bit F146035692

	Art. no.
	F146134452



PILOT DRILL BIT

- The pilot drill bit is used for pre-drilling holes for countersunk chipboard screws

Diameter	Art. no.
3.5 mm	F146035692

PAGE REFERENCES

Drawer sides	218	Organising systems	261		
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Inset panels	238	Assembly technology	289		



WOOD DRILL BIT WITH STOP RING

- Used for pre-drilling holes for Euro screws
- Length 85 mm
- With stop ring

Diameter	Art. no.
5 mm	F146092594



SPECIAL EURO SCREWS

- Steel, nickel-plated, for screwing into a pre-drilled hole system dia. 5 mm (Pozidriv recessed head no. 2)

Nominal diameter x screw length	Art. no.
6.3 x 14 mm	F148115049



SCREWDRIVER

- GRASS cross-head screwdriver (Pozidriv no. 2)

Product type	Art. no.
Screwdriver	F147010256

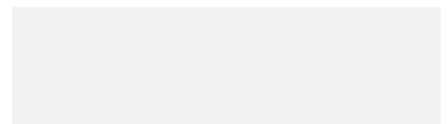
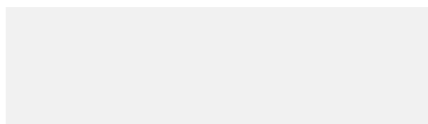
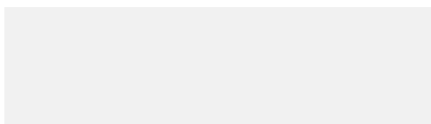
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LEGEND



Unique platform concept. Both wooden drawers and drawers from the Vionaro series can be placed on the same slide system.

Concealed slide systems from GRASS are the embodiment of exceptionally easy opening, excellent running characteristics, minimum drawer deflection and outstanding reliability. These characteristics have made our slides one of the world's most successful concealed systems for wooden drawers.



FOLLOW US



Invisible functionality for sophisticated kitchen, living room and bathroom areas.

Two movement systems with distinctive
features: **Dynapro** and **Dynaneo**.

Features	Dynapro	Dynaneo
30 kg load capacity	-	■
40 kg load capacity	■	-
70 kg load capacity	■	-
Full extension slide for optimal access	■	■
Single extension slide	-	■
Synchronisation	■	-
Height adjustment	■	■
Side adjustment	■	■
Tilt angle adjustment	■	-
Depth adjustment	■	-
Soft-close damping system	■	■
Tipmatic opening system	■	■
Tipmatic Soft-close opening system	■	-
Sensomatic opening system	■	-

High load capacity. Synchronised movement. 4D adjustment. The variety of special qualities makes Dynapro a unique movement system, awarded the prestigious Red Dot Design Award.

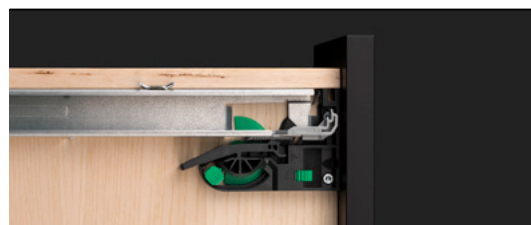
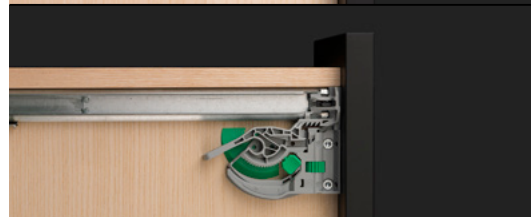


reddot design award
winner 2010



Slide Systems for Wooden Drawers

Concealed slide systems for all applications.
Elegant, comfortable, invisible and extremely effective.

	<p>Dynapro 303</p> <p>Synchronised full-extension slide with 4D adjustment facility for 40 kg and 70 kg load capacity with slide-on assembly. Optionally available as a pull-out shelf.</p>	1
	<p>Dynaneo 365</p> <p>Full and single extension slide for 30 kg load capacity with integrated height and side adjustment. Slide-on assembly.</p>	2
		3
		4

Powerful. Precise. Excellent running characteristics.

dyna pro.

DP Over the years, Dynapro has become synonymous with perfect movement. Quality, reliability, stability and smoothness are among the special characteristics of the concealed slide.

The elegant and smooth movement makes opening and closing of your drawers a special experience every time. For as long as the furniture lasts.



FOLLOW US



The multitude of special features makes Dynapro a highly efficient movement system. Because the powerful precision slides meet virtually every design requirement.

Modern drawer systems need to be able to effortlessly meet the high demands of furniture designers and innovative craftsmen. Working with unusual woods or heavy materials? No problem - the Dynapro slide system with a load capacity of up to 70 kg can easily accommodate your ideas.







reddot design award
winner 2010

Dynapro

Slide System

Synchronised full-extension slide with 4-dimensional adjustment facility with 40 kg and 70 kg load capacity. Slide-on assembly.

	<p>Dynapro 310</p> <p>Synchronised full-extension slide with 4D adjustment facility for 40 kg and 70 kg load capacity with slide-on assembly. Optionally available as a pull-out shelf.</p>	1
	<p>Tipmatic Soft-close for Dynapro 320</p> <p>Mechanical opening system. Combines handle-free opening with the Soft-close damping system.</p>	2
	<p>Assembly aids for Dynapro 342</p> <p>Application tools for fast and safe working.</p>	3
	<p>Sensomatic for Dynapro 345</p> <p>Electromechanical opening system to meet the highest demands.</p>	4



Wood or steel. It doesn't matter.

In line with the platform concept, GRASS offers a smart, multi-purpose system solution for all applications thanks to the Dynapro Soft-close concealed slide, proven millions of times over, combined with the Tipmatic Soft-close opening system for handle-free fronts and the elegant Vionaro V8 and Vionaro V13 drawer systems. This means that drawers made of wood or steel can be produced as cost-effectively as possible with minimal use of parts, and can be used with the same slide system. Choose between fronts with or without handles.



Dynapro is a concealed slide system beneath the drawer that ensures easy opening and closing. The concealed slides are invisible, but they are crucial for ease of movement and positively influence the perception of quality of the drawer.

It's all about
what's under
your drawer.

One system for all living areas.

Dynapro is the perfect solution for fitting kitchen, bathroom and living room furniture with the same slide system. Whether under wooden drawers or in combination with the pure, elegant design of the Vionaro V8 - Dynapro neatly ties areas of the home together.



Dynapro bottom panel mounting is suitable for a wide range of applications.

In addition to the classic pull-out shelf, bottom panel mounting can be used for additional stability with extra-wide drawers. But transparency is also still on the rise, and with that, clever furniture concepts that showcase accessories in open drawers. Ideal for bottom panel mounting.

Powerful. Precise. Excellent running characteristics. Proven millions of times.



High load capacity. Synchronised movement. 4D adjustment. The large variety of special qualities makes Dynapro a movement system for those with individual style.

For those who prefer eye-catching design and expect a concealed slide system to offer excellent running characteristics, high stability and exceptional operating comfort, Dynapro is exactly the right choice.

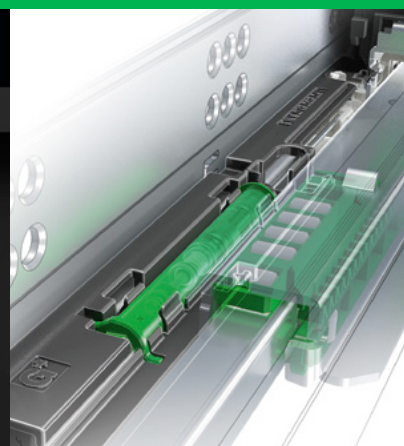
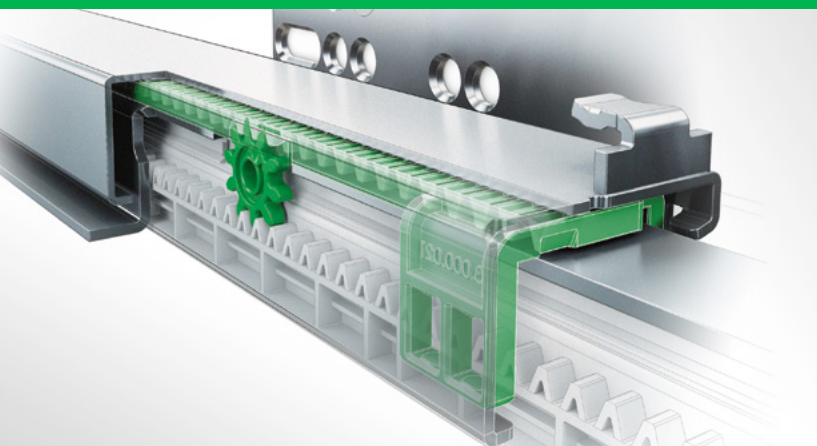
**Silent.
Weightless.
Invisible.**



Drawers opened and closed up to 25 times a day without having to think about it - that is reliable performance moved by GRASS.

Dynapro Slide System.

Whether wood, aluminium, glass or natural stone, let Dynapro provide the inspiration for new ideas. Thanks to the tried-and-tested concealed technology, the integrated adjustment technology and the high load capacity, you can let your creativity run wild.



reddot design award
winner 2010

Synchronised full-extension slide for excellent running characteristics.

Thanks to the mechanically synchronised Dynapro slide rails, drawers move without intrusive noise or resistance. Even under high load, the excellent running characteristics of Dynapro remain unchanged. Due to the low opening forces, a small pull is enough to set drawers in motion. Load capacities of up to 70 kg are no problem for the system. Abrasion-resistant plastic rollers ensure a smooth, even glide every time.

Four dimensions for perfect front panel alignment.

Dynapro offers integrated height, side, tilt angle and depth adjustment. All adjustments can be made without tools, and are easy to access and handle. Thanks to the integrated 4D adjustment technology of Dynapro, drawer fronts can be aligned with millimetre precision. In short, you can achieve optimal front panel alignment with just a few tweaks.

Maximum operating comfort for all requirements.

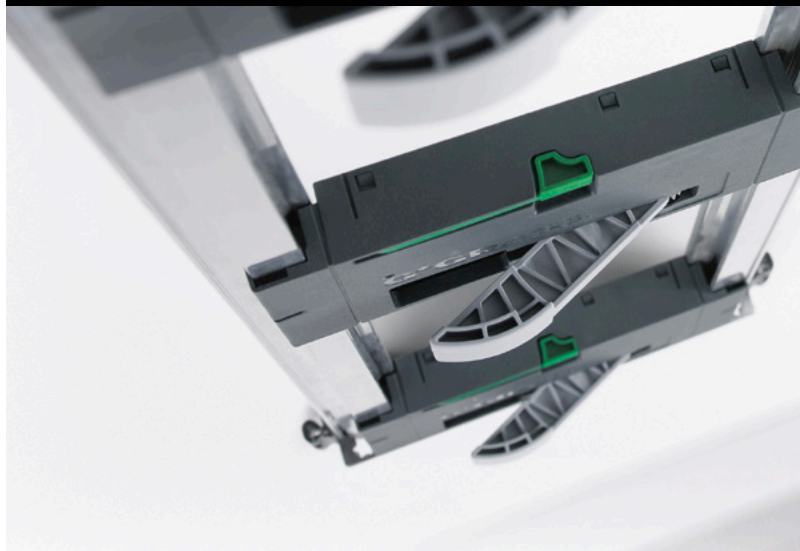
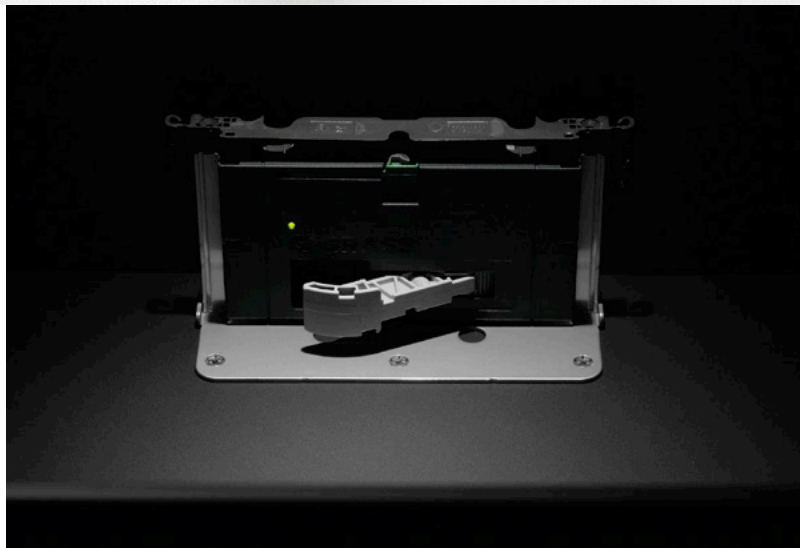
The successful Soft-close damping system closes Dynapro drawers gently and quietly. The Tipmatic mechanical opening system allows handle-free fronts that can be opened with a gentle tap. Tipmatic Soft-close combines all the advantages of mechanical opening with the comfort of the proven Soft-close damping. In addition, GRASS is rounding off its range with Sensomatic - the electronically assisted opening system.

The GRASS comfort systems and Dynapro complement each other to create a harmonious multi-purpose principle. Our aim is to combine the advantages of handle-free opening with the elegance of a damped closing mechanism. The combination of these exceptional functions ensures operating comfort at the highest level.



**Sensomatic.
Electromechanical
opening system.**

Action. Reaction. Interaction. Thanks to the large activation zone and the touch-activated automatic system, a gentle tap is enough to set handle-free fronts in motion. Regardless of the drawer side height, the electronic opening system always ensures the same, aesthetic movements - opening furniture has never been more beautiful.



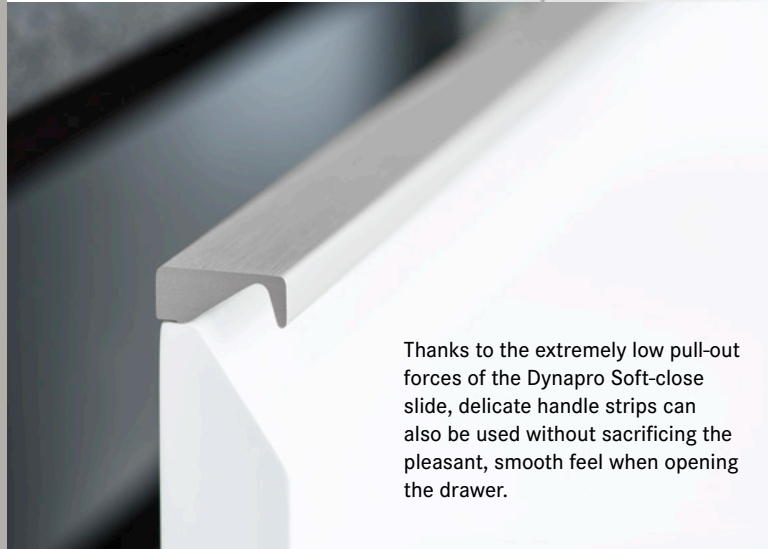
Sensomatic's discreet opening unit is mounted invisibly behind the drawer and ensures maximum functional comfort. In a practical single set or as an assembly unit with a high frame side for multiple drawers.

Opening systems for handle-free fronts. It's great when movement is not only functional, but also offers maximum comfort.



**Soft-close
Damping system.**

With Soft-close, the overall damping concept from GRASS, each movement becomes an experience. Closing drawers with Soft-close is something special. Soft-close brakes the front softly and gently pulls it in.

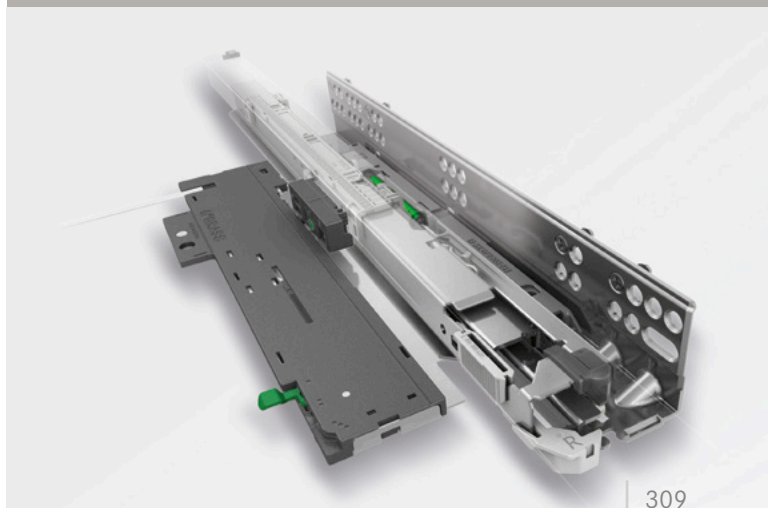
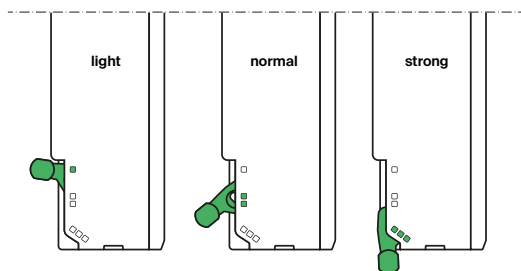
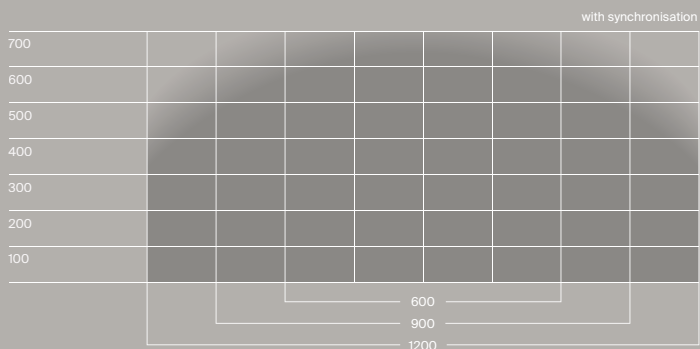


Thanks to the extremely low pull-out forces of the Dynapro Soft-close slide, delicate handle strips can also be used without sacrificing the pleasant, smooth feel when opening the drawer.

**Tipmatic Soft-close.
Total comfort without electronics.**


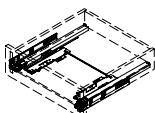
The Tipmatic Soft-close mechanical opening system combines all the advantages of mechanical opening with the comfort of the proven Soft-close damping system. In contrast to other systems, Tipmatic Soft-close can make do with only one opening unit for all handle-free applications - regardless of the weight and size of the furniture front. This is made possible by the three-stage adjustable opening force, which perfectly adapts the movement to the respective application.

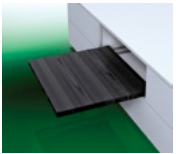
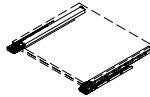
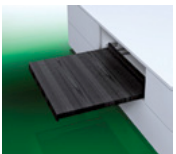
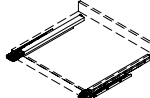

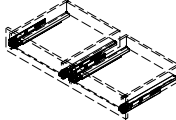

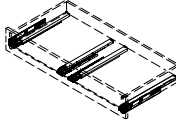
The large activation zone of Tipmatic Soft-close ensures maximum operating comfort. Part of our series as standard, the synchronisation rod is simply clicked into the Tipmatic units directly on the left and right.



Dynapro Slide System

Leading technology for wooden drawers that has been proven millions of times.
Invisible functionality for kitchen, living room and bathroom areas.

	Description		Page
	<p>Dynapro Soft-close EB 21 Full-extension slide 40 kg with Zamak front locking device</p> <ul style="list-style-type: none"> • Soft-close damping system • 4-dimensional adjustment (side, height, tilt angle and depth adjustment) 		312
	<p>Dynapro Soft-close EB 21 Full-extension slide 70 kg with Zamak front locking device</p> <ul style="list-style-type: none"> • Soft-close damping system • 4-dimensional adjustment (side, height, tilt angle and depth adjustment) 		314
	<p>Dynapro Soft-close EB 21 Full extension slide 40 kg</p> <ul style="list-style-type: none"> • Soft-close damping system • 4-dimensional adjustment (side, height, tilt angle and depth adjustment) 		316
	<p>Dynapro Soft-close EB 21 Full extension slide 70 kg</p> <ul style="list-style-type: none"> • Soft-close damping system • 4-dimensional adjustment (side, height, tilt angle and depth adjustment) 		318
	<p>Dynapro Tipmatic Soft-close EB 21 Full extension slide 40 kg</p> <ul style="list-style-type: none"> • Tipmatic Soft-close opening system • 4-dimensional adjustment (side, height, tilt angle and depth adjustment) 		320
	<p>Dynapro Tipmatic Soft-close EB 21 Full extension slide 70 kg</p> <ul style="list-style-type: none"> • Tipmatic Soft-close opening system • 4-dimensional adjustment (side, height, tilt angle and depth adjustment) 		322
	<p>Dynapro Tipmatic Soft-close EB 21 Full extension slide 30 kg for short and light drawers</p> <ul style="list-style-type: none"> • Tipmatic Soft-close opening system for light and narrow drawers • 4-dimensional adjustment (side, height, tilt angle and depth adjustment) 		324
	<p>Dynapro Tipmatic EB 21 Full extension slide 40 kg</p> <ul style="list-style-type: none"> • Tipmatic opening system • 4-dimensional adjustment (side, height, tilt angle and depth adjustment) 		326
	<p>Dynapro Tipmatic EB 21 Full extension slide 60 kg</p> <ul style="list-style-type: none"> • Tipmatic opening system • 4-dimensional adjustment (side, height, tilt angle and depth adjustment) 		328

	Description		Page
	<p>Dynapro Soft-close EB 21 Base panel mounting and pull-out shelf</p> <ul style="list-style-type: none"> • Assembly on the cabinet base or shelf • Shelf clip set 		330
	<p>Dynapro Soft-close EB 21 Bottom panel mounting and pull-out shelf with locking mechanism</p> <ul style="list-style-type: none"> • Assembly on the cabinet base or shelf • Shelf clip set 		332
	<p>Application example Dynapro Tipmatic Soft-close in double cabinet</p> <ul style="list-style-type: none"> • Two drawers with one continuous front panel can be opened using Dynapro Tipmatic Soft-close • Allows implementation of wide, handle-free fronts with a mechanical opening system 		334
	<p>Application example Extra-wide drawer</p> <ul style="list-style-type: none"> • Extra-wide drawer for cabinet without additional centre wall • Modern furniture design with large fronts and no lost storage space 		336
	<p>Dynapro Technical information</p>		338
	<p>Dynapro Assembly aids</p>		342

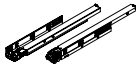
DYNAPRO SOFT-CLOSE EB 21

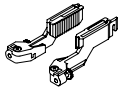
Full-extension slide 40 kg with Zamak front locking device

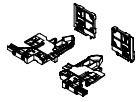


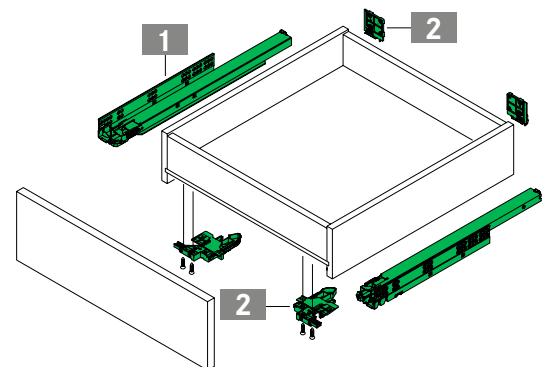
- Excellent running characteristics
- Fully synchronised slide technology
- Soft-close damping system
- Maximum side stability
- Minimum drawer deflection
- Stepless self-locking of the drawer when pushed onto the slide
- Tool-free 4D adjustment facility with zamak front locking device:
 - Height adjustment: + 3.5 mm
 - Side adjustment ± 1.5 mm
 - Tilt angle adjustment + 4 mm
 - Depth adjustment + 3.5 mm (optional)

ORDER INFORMATION

1	Dynapro Full extension slide 40 kg Soft-close EB 21			
	NL	40 kg Left, Right	40 kg Left	
250	F130107790	F130107791	F130107792	
270	F130107793	F130107794	F130107795	
300	F130107796	F130107797	F130107798	
320	F130107799	F130107800	F130107801	
350	F130107802	F130107803	F130107804	
380	F130107805	F130107806	F130107807	
400	F130107808	F130107809	F130107810	
420	F130107811	F130107812	F130107813	
450	F130107814	F130107815	F130107816	
480	F130107817	F130107818	F130107819	
500	F130107820	F130107821	F130107822	
520	F130107823	F130107824	F130107825	
550	F130107826	F130107827	F130107828	
600	F130107829	F130107830	F130107831	

Depth adjustment (1D) Set: Left, Right				
Type of assembly	Left, Right			
To clip on	F134101313			

2	Dynapro Accessories		
	Set: Front locking device, Adjustment adapter		
	Mounting material	Art. no.	
3D	Chipboard screw (excl.)	F134125074	



PAGE REFERENCES

Dynapro Tipmatic Soft-close	320	Application examples	334	Sensomatic	345
Dynapro Tipmatic	326	Technical information	338		
Base panel mounting	330	Assembly aids	342		

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions

Drawer

Inset drawer

NL	SKL	MET
250	240	253
270	260	273
300	290	303
320	310	323
350	340	353
380	370	383
400	390	403
420	410	423
450	440	453
480	470	483
500	490	503
520	510	523
550	540	553
580	570	583
600	590	603
650	640	653
700	690	703
750	740	753

Mounting position for front locking device

Mounting position for adjustment adapter

Attachment positions for full extension slide

Euro screw Ø 6,3 x 14 mm
Chipboard screws Ø 4 x 16 mm
Head diameter 7 mm

LEGEND

HV	Height adjustment	MET	Minimum installation depth	SV	Lateral adjustment
KV	Front edge of cabinet	NL	Nominal length	TV	Depth adjustment
LWK	Inside cabinet width	NV	Tilt adjustment		
LWS	Inside drawer width	SKL	Drawer length		

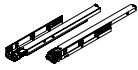
DYNAPRO SOFT-CLOSE EB 21

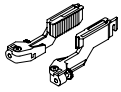
Full-extension slide 70 kg with Zamak front locking device

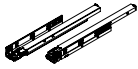


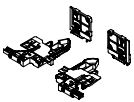
- Excellent running characteristics
- Fully synchronised slide technology
- Soft-close damping system
- Maximum side stability
- Minimum drawer deflection
- Stepless self-locking of the drawer when pushed onto the slide
- Tool-free 4D adjustment facility with zamak front locking device:
 - Height adjustment: + 3.5 mm
 - Side adjustment ± 1.5 mm
 - Tilt angle adjustment + 4 mm
 - Depth adjustment + 3.5 mm (optional)

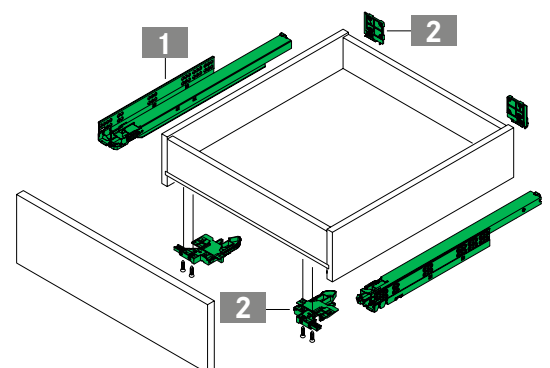
ORDER INFORMATION

1 Dynapro Full extension slide 70 kg Soft-close EB 21				
				
NL	70 kg	70 kg	70 kg	
	Left, Right	Left	Right	
450	F130107832	F130107833	F130107834	
500	F130107838	F130107839	F130107840	
520	F130107841			
550	F130107844	F130107845	F130107846	
580	F130107847			
600	F130107850	F130107851	F130107852	
650	F130107853	F130107854	F130107855	

Depth adjustment (1D) Set: Left, Right			
			
Type of assembly	Left, Right		
To clip on	F134101313		

1 Dynapro Full extension slide 50 kg Soft-close EB 21				
				
NL	50 kg	50 kg	50 kg	
	Left, Right	Left	Right	
700	F130107856	F130107857	F130107858	
750	F130107859	F130107860	F130107861	

2 Dynapro Accessories Set: Front locking device, Adjustment adapter		
		
	Mounting material	Art. no.
3D	Chipboard screw (excl.)	F134125074



PAGE REFERENCES

Dynapro Tipmatic Soft-close	320	Application examples	334	Sensomatic	345
Dynapro Tipmatic	326	Technical information	338		
Base panel mounting	330	Assembly aids	342		

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions

Drawer

Inset drawer

NL	SKL	MET
250	240	253
270	260	273
300	290	303
320	310	323
350	340	353
380	370	383
400	390	403
420	410	423
450	440	453
480	470	483
500	490	503
520	510	523
550	540	553
580	570	583
600	590	603
650	640	653
700	690	703
750	740	753

Mounting position for front locking device

Mounting position for adjustment adapter

Attachment positions for full extension slide

Euro screw Ø 6,3 x 14 mm
Chipboard screws Ø 4 x 16 mm
Head diameter 7 mm

LEGEND

HV	Height adjustment	MET	Minimum installation depth
KV	Front edge of cabinet	NL	Nominal length
LWK	Inside cabinet width	NV	Tilt adjustment
LWS	Inside drawer width	SKL	Drawer length
		SV	Lateral adjustment
		TV	Depth adjustment

DYNAPRO SOFT-CLOSE EB 21

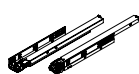
Full extension slide 40 kg



- Excellent running characteristics
- Fully synchronised slide technology
- Soft-close damping system
- Maximum lateral stability
- Minimum drawer deflection
- Stepless drawer self-locking when pushed onto the slide
- Tool-free 2D/3D/4D adjustment option with plastic front locking device:
 - Height adjustment: + 3.5 mm
 - Side adjustment: ± 1.5 mm (3D/4D set only)
 - Tilt angle adjustment: + 4 mm
 - Depth adjustment: + 3.5 mm (4D set only)

ORDER INFORMATION

1 Dynapro Full extension slide 40 kg Soft-close EB 21				
NL	40 kg	40 kg	40 kg	
	Left, Right	Left	Right	
250	F130107790	F130107791	F130107792	
270	F130107793	F130107794	F130107795	
300	F130107796	F130107797	F130107798	
320	F130107799	F130107800	F130107801	
350	F130107802	F130107803	F130107804	
380	F130107805	F130107806	F130107807	
400	F130107808	F130107809	F130107810	
420	F130107811	F130107812	F130107813	
450	F130107814	F130107815	F130107816	
480	F130107817	F130107818	F130107819	
500	F130107820	F130107821	F130107822	
520	F130107823	F130107824	F130107825	
550	F130107826	F130107827	F130107828	
600	F130107829	F130107830	F130107831	



Front locking device			
Piece			
Adjustable	Left	Right	
2D	F134141741	F134141742	
3D	F134141743	F134141744	



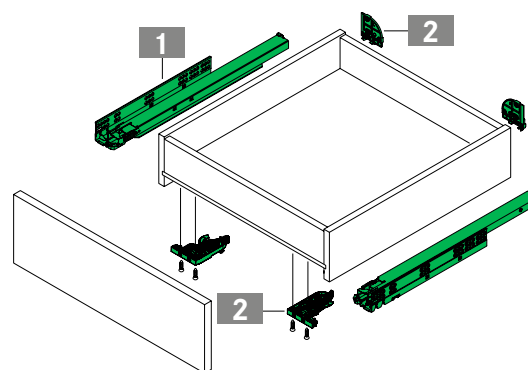
Adjustment adapter			
Piece			
Adjustable	Left	Right	
1D	F134108953	F134108954	



1D depth adjustment for 2D front locking device			
Set: Left, Right			
Type of assembly	Left, Right		
To clip-on	F134108957		



2 Dynapro Accessories		
Set: Front locking device, Adjustment adapter		
	Mounting material	Art. no.
2D	Chipboard screw (excl.)	F134117193
3D	Chipboard screw (excl.)	F134141745
4D	Chipboard screw (excl.)	F134141746



PAGE REFERENCES

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Dynapro Tipmatic	326	Technical information	338		
Base panel mounting	330	Assembly aids	342		

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions

$LWS = (LWK - 42) \begin{matrix} +0 \\ -1.5 \end{matrix}$
min. LWS = 138 mm (2D/3D/4D)

Drawer

$SKL = NL - 10 \pm 0.5$
min. 12
 $MET = NL + 3$

Inset drawer

$SKL = NL - 10 \pm 0.5$
max. 16
 $MET = NL + 21$

NL	SKL	MET
250	240	253
270	260	273
300	290	303
320	310	323
350	340	353
380	370	383
400	390	403
420	410	423
450	440	453
480	470	483
500	490	503
520	510	523
550	540	553
580	570	583
600	590	603
650	640	653
700	690	703
750	740	753

Mounting position for front locking device

HV +3.5 mm
TV +3.5 mm
SV ±1.5 mm
min. 69

Mounting position for adjustment adapter

NV +4 mm
min. 35

Attachment positions for full extension slide

KV
18
9 23 9
10
12
28
37
250 - 320
350 - 450
480 - 520
550
600
384
352
288
256
224
192
160
128
32
0
4
 $MET = NL + 3$
40 kg

Euro screw $\varnothing 6,3 \times 14$ mm
Chipboard screws $\varnothing 4 \times 16$ mm
Head diameter 7 mm

LEGEND

HV	Height adjustment	MET	Minimum installation depth	SV	Lateral adjustment
KV	Front edge of cabinet	NL	Nominal length	TV	Depth adjustment
LWK	Inside cabinet width	NV	Tilt adjustment		
LWS	Inside drawer width	SKL	Drawer length		

DYNAPRO SOFT-CLOSE EB 21

Full extension slide 70 kg



- Excellent running characteristics
- Fully synchronised slide technology
- Soft-close damping system
- Maximum lateral stability
- Minimum drawer deflection
- Stepless drawer self-locking when pushed onto the slide
- Tool-free 2D/3D/4D adjustment option with plastic front locking device:
 - Height adjustment: + 3.5 mm
 - Side adjustment: ± 1.5 mm (3D/4D set only)
 - Tilt angle adjustment: + 4 mm
 - Depth adjustment: + 3.5 mm (4D set only)

ORDER INFORMATION

1 Dynapro Full extension slide 70 kg Soft-close EB 21				
NL	70 kg	70 kg	70 kg	
	Left, Right	Left	Right	
450	F130107832	F130107833	F130107834	
500	F130107838	F130107839	F130107840	
520	F130107841			
550	F130107844	F130107845	F130107846	
580	F130107847			
600	F130107850	F130107851	F130107852	
650	F130107853	F130107854	F130107855	

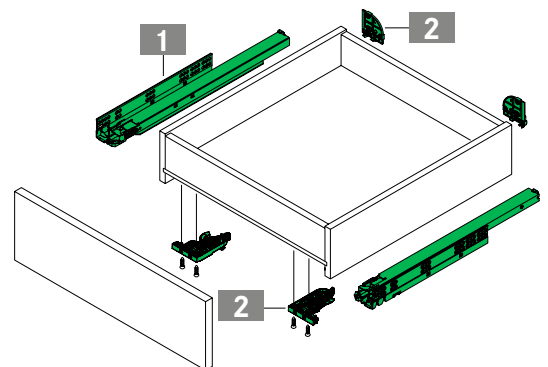
1 Dynapro Full extension slide 50 kg Soft-close EB 21				
NL	50 kg	50 kg	50 kg	
	Left, Right	Left	Right	
700	F130107856	F130107857	F130107858	
750	F130107859	F130107860	F130107861	

2 Dynapro Accessories Set: Front locking device, Adjustment adapter		
	Mounting material	Art. no.
2D	Chipboard screw (excl.)	F134117193
3D	Chipboard screw (excl.)	F134141745
4D	Chipboard screw (excl.)	F134141746

Front locking device Piece			
Adjustable	Left	Right	
2D	F134141741	F134141742	
3D	F134141743	F134141744	

Adjustment adapter Piece			
Adjustable	Left	Right	
1D	F134108953	F134108954	

1D depth adjustment for 2D front locking device Set: Left, Right			
Type of assembly	Left, Right		
To clip-on	F134108957		



PAGE REFERENCES

Dynapro Tipmatic Soft-close	320	Application examples	334	Sensomatic	345
Dynapro Tipmatic	326	Technical information	338		
Base panel mounting	330	Assembly aids	342		

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions

Drawer

Inset drawer

NL	SKL	MET
250	240	253
270	260	273
300	290	303
320	310	323
350	340	353
380	370	383
400	390	403
420	410	423
450	440	453
480	470	483
500	490	503
520	510	523
550	540	553
580	570	583
600	590	603
650	640	653
700	690	703
750	740	753

Mounting position for front locking device

Mounting position for adjustment adapter

Attachment positions for full extension slide

Euro screw \varnothing 6,3 x 14 mm
Chipboard screws \varnothing 4 x 16 mm
Head diameter 7 mm

LEGEND

HV Height adjustment	MET Minimum installation depth	SV Lateral adjustment
KV Front edge of cabinet	NL Nominal length	TV Depth adjustment
LWK Inside cabinet width	NV Tilt adjustment	
LWS Inside drawer width	SKL Drawer length	

DYNAPRO TIPMATIC SOFT-CLOSE EB 21

Full extension slide 40 kg



- Mechanical opening system for handle-free fronts
- Combined Tipmatic function and Soft-close damping system
- Tool-free installation of the Tipmatic Soft-close unit
- Can be used with Dynapro full-extension slide 40/70 kg Soft-close
- Three-stage adjustment of ejection force
- Large trigger range due to synchronisation rod
- Tool-free 4D adjustment option with plastic front locking device:
 - Height adjustment: + 3.5 mm
 - Side adjustment: ± 1.5 mm (3D/4D set only)
 - Tilt angle adjustment: + 4 mm
 - Front gap adjustment: +3/-1 (via Tipmatic Soft-close unit)

Notice:

- Dynapro Tipmatic Soft-close can be used from nominal length (NL) 270

ORDER INFORMATION

1 Dynapro Full extension slide 40 kg Soft-close EB 21

NL	40 kg	40 kg	40 kg
	Left, Right	Left	Right
270	F130107793	F130107794	F130107795
300	F130107796	F130107797	F130107798
320	F130107799	F130107800	F130107801
350	F130107802	F130107803	F130107804
380	F130107805	F130107806	F130107807
400	F130107808	F130107809	F130107810
420	F130107811	F130107812	F130107813
450	F130107814	F130107815	F130107816
480	F130107817	F130107818	F130107819
500	F130107820	F130107821	F130107822
520	F130107823	F130107824	F130107825
550	F130107826	F130107827	F130107828
600	F130107829	F130107830	F130107831

2 Dynapro Accessories
Set: Front locking device, Adjustment adapter

	Mounting material	Art. no.
2D	Chipboard screw (excl.)	F134117193
3D	Chipboard screw (excl.)	F134141745

3 Dynapro Tipmatic Soft-close
Set: Activator, Unit

	Type of assembly	Art. no.
	To clip-on	F134134420

4 Synchronisation rod for cutting to length
Piece

KB	Length of synchronisation rod	Art. no.
1200	952	F134109410
1800	1562	F102109394
2200	1952	F134131408

Tipmatic Soft-close individual components
Set: Left, Right

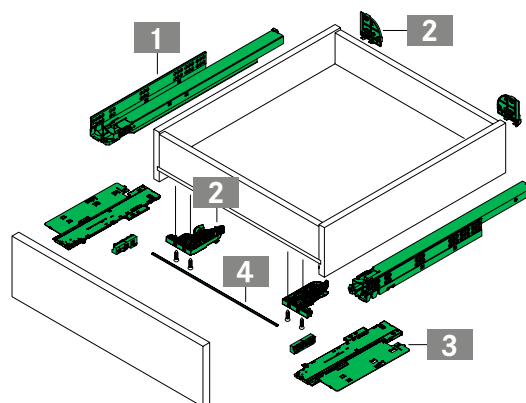
	Product type	Art. no.
	Activator	F134109325
	Unit	F134141738

Front locking device
Piece

Adjustable	Left	Right
2D	F134141741	F134141742

Adjustment adapter
Piece

Adjustable	Left	Right
1D	F134108953	F134108954



PAGE REFERENCES

Dynapro Soft-close	316	Application examples	334	Sensomatic	345
Dynapro Tipmatic	326	Technical information	338		
Base panel mounting	330	Assembly aids	342		

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions

Drawer

Inset drawer

NL	SKL	MET
270	260	273
300	290	303
350	340	353
400	390	403
450	440	453
500	490	503
550	540	553
600	590	603
650	640	653
700	690	703
750	740	753

Cutting dimensions for synchronisation rod

Mounting position for front locking device

Mounting position for adjustment adapter

Position of synchronisation rod

NL	A	B
270 - 320	248	265
350 - 750	283	300

Attachment positions for full extension slide

Euro screw Ø 6,3 x 14 mm
Chipboard screws Ø 4 x 16 mm
Head diameter 7 mm

LEGEND

<p>HV Height adjustment</p> <p>KB Cabinet width</p> <p>KV Front edge of cabinet</p> <p>L Length</p>	<p>LWK Inside cabinet width</p> <p>LWS Inside drawer width</p> <p>MET Minimum installation depth</p> <p>NL Nominal length</p>	<p>NV Tilt adjustment</p> <p>SKL Drawer length</p> <p>SV Lateral adjustment</p>
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DYNAPRO TIPMATIC SOFT-CLOSE EB 21

Full extension slide 70 kg



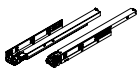
- Mechanical opening system for handle-free fronts
- Combined Tipmatic function and Soft-close damping system
- Tool-free installation of the Tipmatic Soft-close unit
- Can be used with Dynapro full-extension slide 40/70 kg Soft-close
- Three-stage adjustment of ejection force
- Large trigger range due to synchronisation rod
- Tool-free 4D adjustment option with plastic front locking device:
 - Height adjustment: + 3.5 mm
 - Side adjustment: ± 1.5 mm (3D/4D set only)
 - Tilt angle adjustment: + 4 mm
 - Front gap adjustment: +3/-1 (via Tipmatic Soft-close unit)

Notice:

- Dynapro Tipmatic Soft-close can be used from nominal length (NL) 270

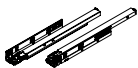
ORDER INFORMATION

1 Dynapro Full extension slide 70 kg Soft-close EB 21




NL	70 kg	70 kg	70 kg
	Left, Right	Left	Right
450	F130107832	F130107833	F130107834
500	F130107838	F130107839	F130107840
520	F130107841		
550	F130107844	F130107845	F130107846
580	F130107847		
600	F130107850	F130107851	F130107852
650	F130107853	F130107854	F130107855

1 Dynapro Full extension slide 50 kg Soft-close EB 21




NL	50 kg	50 kg	50 kg
	Left, Right	Left	Right
700	F130107856	F130107857	F130107858
750	F130107859	F130107860	F130107861

2 Dynapro Accessories
Set: Front locking device, Adjustment adapter




	Mounting material	Art. no.
2D	Chipboard screw (excl.)	F134117193
3D	Chipboard screw (excl.)	F134141745

3 Dynapro Tipmatic Soft-close
Set: Activator, Unit




	Type of assembly	Art. no.
	To clip-on	F134134420

4 Synchronisation rod for cutting to length
Piece




KB	Length of synchronisation rod	Art. no.
1200	952	F134109410
1800	1562	F102109394
2200	1952	F134131408

Tipmatic Soft-close individual components
Set: Left, Right




	Product type	Art. no.
	Activator	F134109325
	Unit	F134141738

Front locking device
Piece

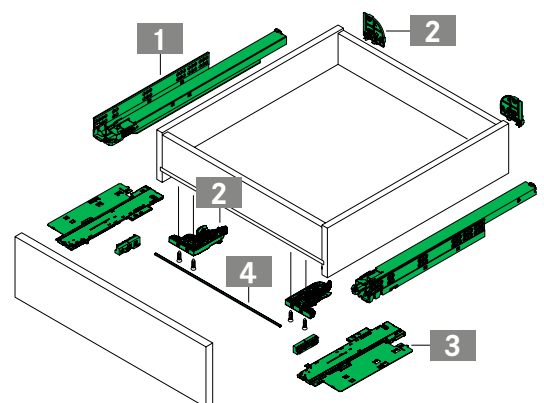


Adjustable	Left	Right
2D	F134141741	F134141742

Adjustment adapter
Piece



Adjustable	Left	Right
1D	F134108953	F134108954



PAGE REFERENCES

Dynapro Soft-close	316	Application examples	334	Sensomatic	345
Dynapro Tipmatic	326	Technical information	338		
Base panel mounting	330	Assembly aids	342		

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions

Drawer

Inset drawer

NL	SKL	MET
270	260	273
300	290	303
350	340	353
400	390	403
450	440	453
500	490	503
550	540	553
600	590	603
650	640	653
700	690	703
750	740	753

Cutting dimensions for synchronisation rod

Mounting position for front locking device

Mounting position for adjustment adapter

Position of synchronisation rod

NL	A	B
270 - 320	248	265
350 - 750	283	300

Attachment positions for full extension slide

Euro screw Ø 6,3 x 14 mm
Chipboard screws Ø 4 x 16 mm
Head diameter 7 mm

LEGEND

HV	Height adjustment	LWK	Inside cabinet width
KB	Cabinet width	LWS	Inside drawer width
KV	Front edge of cabinet	MET	Minimum installation depth
L	Length	NL	Nominal length
		NV	Tilt adjustment
		SKL	Drawer length
		SV	Lateral adjustment

DYNAPRO TIPMATIC SOFT-CLOSE EB 21

Full extension slide 30 kg for short and light drawers



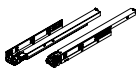
- Mechanical opening system with low closing force for light and narrow drawers with handle-free fronts
- Combined Tipmatic function and Soft-close damping system
- Tool-free installation of the Tipmatic Soft-close unit
- Can be used with Dynapro full-extension slide 30 kg Soft-close
- Three-stage adjustment of ejection force
- Large trigger range due to synchronisation rod
- Tool-free 4D adjustment option with plastic front locking device:
 - Height adjustment: + 3.5 mm
 - Side adjustment: ± 1.5 mm (3D/4D set only)
 - Tilt angle adjustment: + 4 mm
 - Front gap adjustment: +3/-1 (via Tipmatic Soft-close unit)

Notice:

- Dynapro Tipmatic Soft-close can be used from nominal length (NL) 270


ORDER INFORMATION

1 Dynapro Full extension slide 30 kg Soft-close EB 21 for short and light drawers
Piece




NL	30 kg	30 kg		
	Left	Right		
270	F130136512	F130136513		
300	F130136515	F130136516		
350	F130136518	F130136519		
400	F130136521	F130136522		

Dynapro Tipmatic Soft-close Individual components
Set: Left, Right




	Product type	Art. no.
	Activator	F134109325
	Unit	F134134423

2 Dynapro Accessories
Set: Front locking device, Adjustment adapter




	Mounting material	Art. no.
2D	Chipboard screw (excl.)	F134117193
3D	Chipboard screw (excl.)	F134141745

Front locking device
Piece




Adjustable	Left	Right	
2D	F134141741	F134141742	

3 Dynapro Tipmatic Soft-close for short and light drawers
Set: Activator, Unit




	Type of assembly	Art. no.
	To clip-on	F134134422

Adjustment adapter
Piece

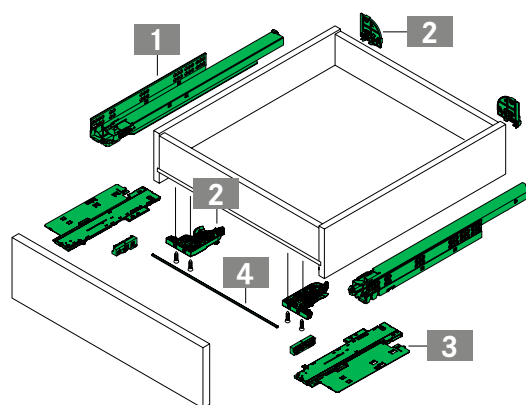


Adjustable	Left	Right	
1D	F134108953	F134108954	

4 Synchronisation rod for cutting to length
Piece



KB	Length of synchronisation rod	Art. no.
1200	952	F134109410
1800	1562	F102109394
2200	1952	F134131408



PAGE REFERENCES

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Base panel mounting	330	Assembly aids	342		

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions	Drawer	NL	SKL	MET
		270	260	273
		300	290	303
		350	340	353
		400	390	403

Inset drawer		Cutting dimensions for synchronisation rod	

Mounting position for front locking device	Mounting position for adjustment adapter	Position of synchronisation rod									
		<table border="1"> <thead> <tr> <th>NL</th> <th>A</th> <th>B</th> </tr> </thead> <tbody> <tr> <td>270 - 320</td> <td>248</td> <td>265</td> </tr> <tr> <td>350 - 750</td> <td>283</td> <td>300</td> </tr> </tbody> </table>	NL	A	B	270 - 320	248	265	350 - 750	283	300
NL	A	B									
270 - 320	248	265									
350 - 750	283	300									

Attachment positions for full extension slide

Euro screw \varnothing 6,3 x 14 mm
 Chipboard screws \varnothing 4 x 16 mm
 Head diameter 7 mm

LEGEND

HV	Height adjustment	LWK	Inside cabinet width	NV	Tilt adjustment
KB	Cabinet width	LWS	Inside drawer width	SKL	Drawer length
KV	Front edge of cabinet	MET	Minimum installation depth	SV	Lateral adjustment
L	Length	NL	Nominal length		

DYNAPRO TIPMATIC EB 21

Full extension slide 40 kg

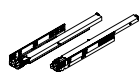


- Tipmatic full-extension slide for handle-free fronts
- Tipmatic opening unit integrated into the slide
- Excellent running characteristics
- Fully synchronised slide technology
- Maximum lateral stability
- Minimum drawer deflection
- 4D adjustment option with plastic front locking device:
 - Height adjustment: + 3.5 mm
 - Side adjustment: ± 1.5 mm (3D set only)
 - Tilt angle adjustment: + 4 mm

- Front gap adjustment: + 1.5 mm (via Tipmatic slide)

ORDER INFORMATION

1	Dynapro Full extension slide 40 kg Tipmatic EB 21			
	Set: Left, Right			
	40 kg			
NL	Left, Right			
250	F130117458			
270	F130117459			
300	F130117460			
320	F130117461			
350	F130117462			
380	F130116955			
400	F130117463			
420	F130117464			
450	F130117465			
480	F130117466			
500	F130117467			
520	F130116956			
550	F130117468			



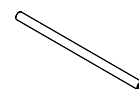
2	Dynapro Accessories	
	Set: Front locking device, Adjustment adapter	
	Mounting material	Art. no.
2D	Chipboard screw (excl.)	F134117193
3D	Chipboard screw (excl.)	F134141745



3	Synchronisation unit	
	Set: Synchronisation lever, Synchronisation module	
	40 kg	
	F134117475	



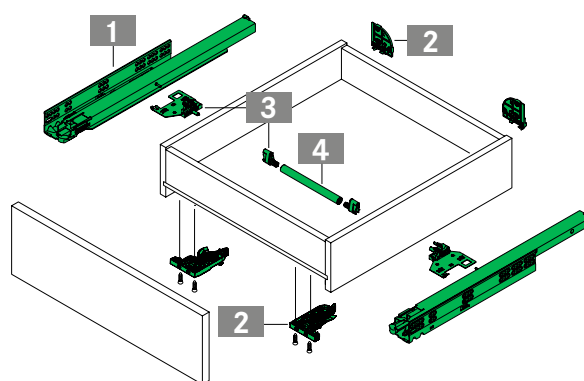
4	Synchronisation rod for cutting to length	
	Piece	
KB	Length of synchronisation rod	Art. no.
1200	981	F134116947



Front locking device			
Piece			
Adjustable	Left	Right	
2D	F134141741	F134141742	



Adjustment adapter			
Piece			
Adjustable	Left	Right	
1D	F134108953	F134108954	



PAGE REFERENCES

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Base panel mounting	330	Assembly aids	342		

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions

Drawer

Inset drawer

NL	SKL	MET
250	240	253
270	260	273
300	290	303
350	340	353
400	390	403
450	440	453
500	490	503
550	540	553
600	590	603
650	640	653
700	690	703
750	740	753

Cutting dimensions for synchronisation rod

Mounting position for front locking device

Mounting position for adjustment adapter

Position of synchronisation rod

NL	A
250 - 320	205
350 - 750	241

Attachment positions for full extension slide

Euro screw Ø 6,3 x 14 mm

Chipboard screws Ø 4 x 16 mm

Head diameter 7 mm

LEGEND

<p>HV Height adjustment</p> <p>KB Cabinet width</p> <p>KV Front edge of cabinet</p> <p>L Length</p>	<p>LWK Inside cabinet width</p> <p>LWS Inside drawer width</p> <p>MET Minimum installation depth</p> <p>NL Nominal length</p>	<p>NV Tilt adjustment</p> <p>SKL Drawer length</p> <p>SV Lateral adjustment</p>
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DYNAPRO TIPMATIC EB 21

Full extension slide 60 kg



- Tipmatic full-extension slide for handle-free fronts
- Tipmatic opening unit integrated into the slide
- Excellent running characteristics
- Fully synchronised slide technology
- Maximum lateral stability
- Minimum drawer deflection
- 4D adjustment option with plastic front locking device:
 - Height adjustment: + 3.5 mm
 - Side adjustment: ± 1.5 mm (3D set only)
 - Tilt angle adjustment: + 4 mm

- Front gap adjustment: + 1.5 mm (via Tipmatic slide)

ORDER INFORMATION

1	Dynapro Full extension slide 60 kg Tipmatic EB 21			
	Set: Left, Right			
	60 kg			
NL	Left, Right			
450	F130117470			
500	F130117471			
520	F130116957			
550	F130117472			
580	F130117473			
600	F130116941			
650	F130117474			

1	Dynapro Full extension slide 50 kg Tipmatic EB 21			
	Set: Left, Right			
	50 kg			
NL	Left, Right			
700	F130117534			
750	F130117535			

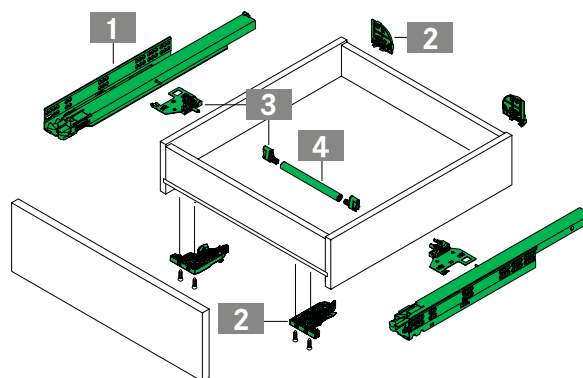
2	Dynapro Accessories			
	Set: Front locking device, Adjustment adapter			
	Mounting material	Art. no.		
2D	Chipboard screw (excl.)	F134117193		
3D	Chipboard screw (excl.)	F134141745		

3	Synchronisation unit			
	Set: Synchronisation lever, Synchronisation module			
	60 kg			
	F134117476			

4	Synchronisation rod for cutting to length		
	Piece		
KB	Length of synchronisation rod	Art. no.	
1200	981	F134116947	

Front locking device			
Piece			
Adjustable	Left	Right	
2D	F134141741	F134141742	

Adjustment adapter			
Piece			
Adjustable	Left	Right	
1D	F134108953	F134108954	



PAGE REFERENCES

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PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions

Drawer

Inset drawer

NL	SKL	MET
250	240	253
270	260	273
300	290	303
350	340	353
400	390	403
450	440	453
500	490	503
550	540	553
600	590	603
650	640	653
700	690	703
750	740	753

Cutting dimensions for synchronisation rod

Mounting position for front locking device

Mounting position for adjustment adapter

Position of synchronisation rod

NL	A
250 - 320	205
350 - 750	241

Attachment positions for full extension slide

Euro screw Ø 6,3 x 14 mm

Chipboard screws Ø 4 x 16 mm

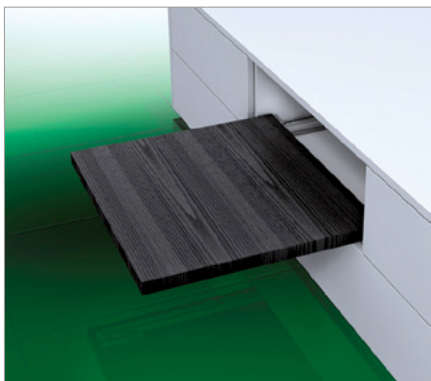
Head diameter 7 mm

LEGEND

<p>HV Height adjustment</p> <p>KB Cabinet width</p> <p>KV Front edge of cabinet</p> <p>L Length</p>	<p>LWK Inside cabinet width</p> <p>LWS Inside drawer width</p> <p>MET Minimum installation depth</p> <p>NL Nominal length</p>	<p>NV Tilt adjustment</p> <p>SKL Drawer length</p> <p>SV Lateral adjustment</p>
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DYNAPRO SOFT-CLOSE EB 21

Base panel mounting and pull-out shelf




Dynapro for base panel mounting:


- Synchronised full extension slide, 40 kg load capacity
- Soft-close damping system
- Assembly on the cabinet base or shelf
- Particularly suitable for pull-out shelves (no lateral screw-on brackets)


Shelf clip set:

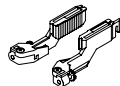
- Height adjustment + 3.5 mm
- Optional depth adjustment + 3.5 mm
- Stepless self-locking of shelf on slide
- Compatible with all Dynapro slides

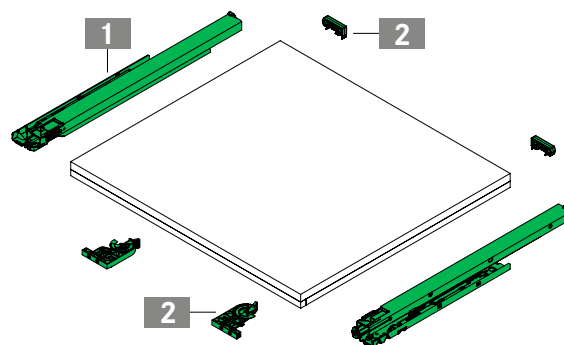
ORDER INFORMATION

1	Dynapro Full extension slide 40 kg Soft-close EB 21 for base panel mounting			
				
	40 kg	40 kg	40 kg	
NL	Left, Right	Left	Right	
400	F130107878	F130107879	F130107880	
450	F130107884	F130107885	F130107886	
500	F130107890	F130107891	F130107892	
550	F130107893			

2	Dynapro Accessories	
	Set: Front locking device, Shelf holder	
		
	Mounting material	Art. no.
1D	Chipboard screw (excl.)	F134107411

Shelf clip		
Piece: Left or right back		
		
	Mounting material	Art. no.
	Chipboard screw (excl.)	F134101305

Depth adjustment (1D)			
Set: Left, Right			
			
Type of assembly	Left, Right		
To clip on	F134101313		

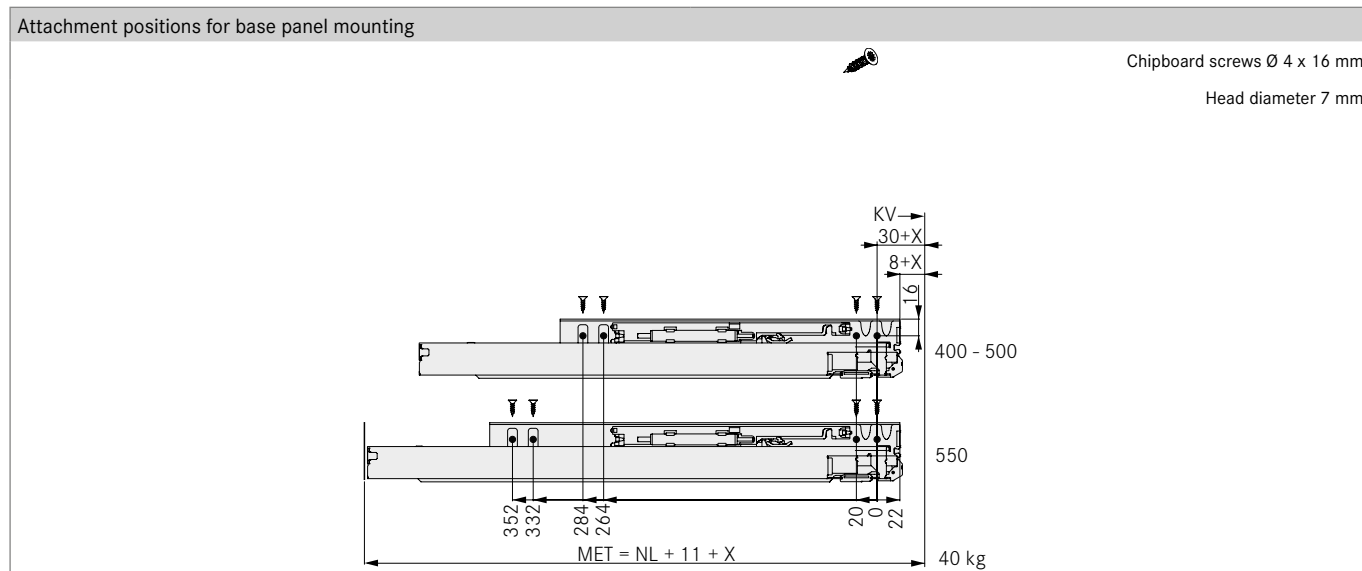
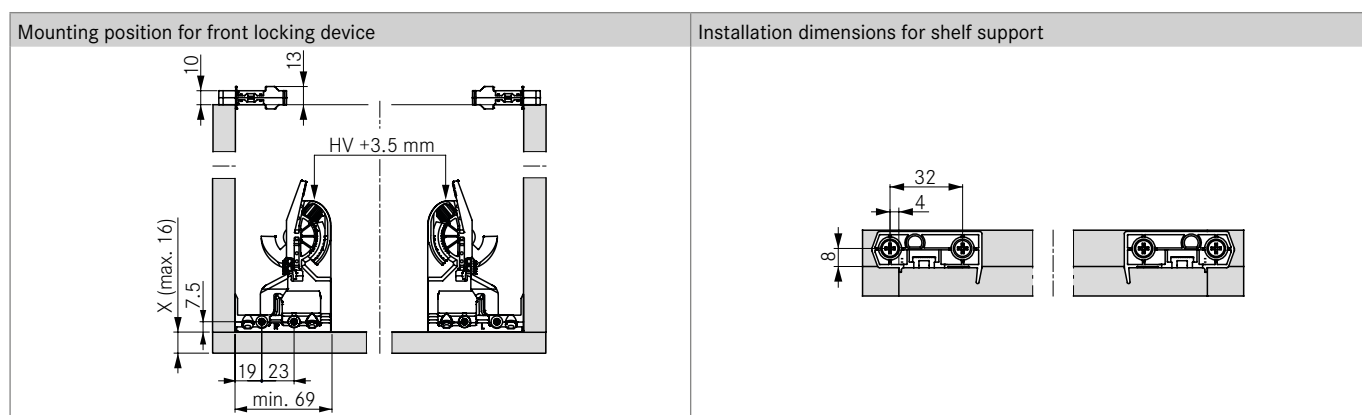
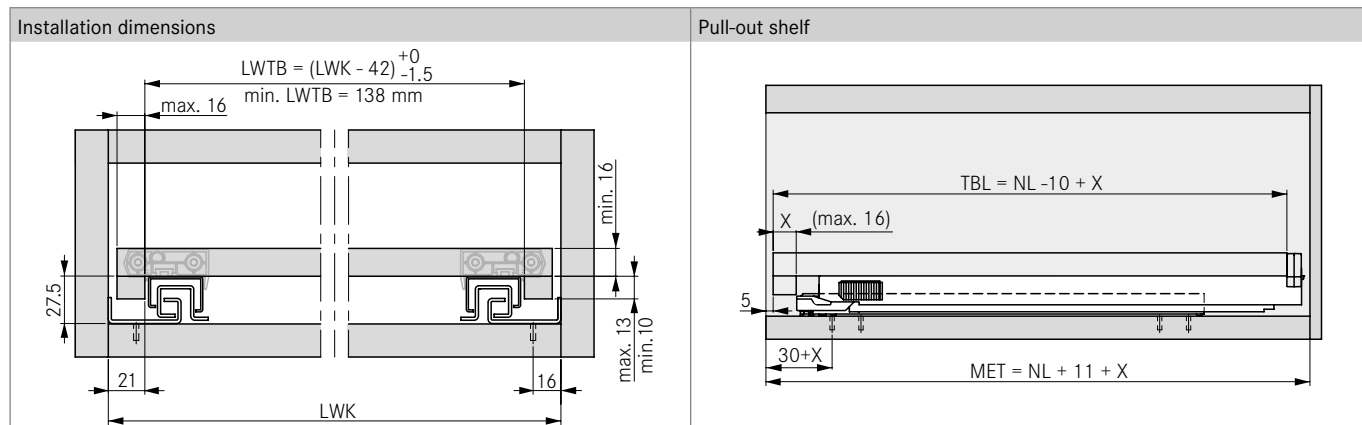


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Dynapro Tipmatic	326	Assembly aids	342		

PLANNING INFORMATION

All dimensions in millimetres



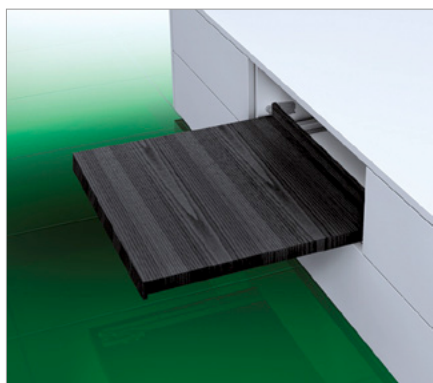
LEGEND

HV	Height adjustment	MET	Minimum installation depth
KV	Front edge of cabinet	NL	Nominal length
LWK	Inside cabinet width	SV	Lateral adjustment
LWTB	Clear shelf width	TBL	Shelf length



DYNAPRO SOFT-CLOSE EB 21

Bottom panel mounting and pull-out shelf with locking mechanism



- The pull-out locking mechanism temporarily converts a pull-out shelf into a fixed storage area (up to 40 kg)
- Ideal for temporary storage in kitchens, bathrooms, living areas, bedrooms or home office settings and for electrical appliances used temporarily
- Locks in place automatically when extended
- Unlock automatically by pulling the shelf forwards again
- Slide invisible when retracted
- The shelf can be mounted and unmounted at any time

Notice:

- When using the Dynapro 3D set, adjustment adapters are not required
- One-sided mounting of the locking mechanism possible up to shelf width ≤ 500 mm
- We recommend testing the application (trial fitting) for each individual case

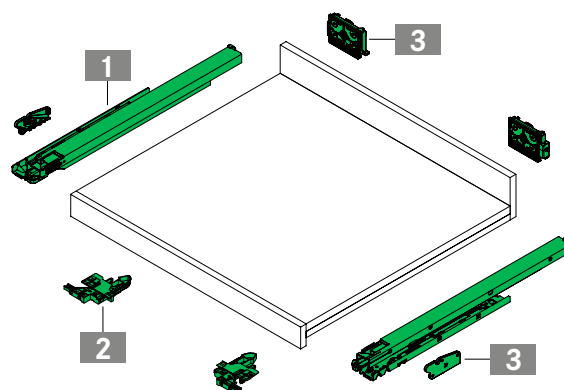
ORDER INFORMATION

1	Dynapro Full extension slide 40 kg Soft-close EB 21 for base panel mounting			
	NL	40 kg Left, Right	40 kg Left	
400	F130107878	F130107879	F130107880	
450	F130107884	F130107885	F130107886	
500	F130107890	F130107891	F130107892	
550	F130107893			

2	Dynapro Accessories		
	Set: Front locking device, Adjustment adapter		
	Mounting material	Art. no.	
3D	Chipboard screw (excl.)	F134125074	

3	Locking mechanism		
	Set: Locking unit, Control cam		
	Mounting material	Art. no.	
	Chipboard screw (excl.)	F134140428	

Depth adjustment (1D)			
Set: Left, Right			
Type of assembly	Left, Right		
To clip on	F134101313		

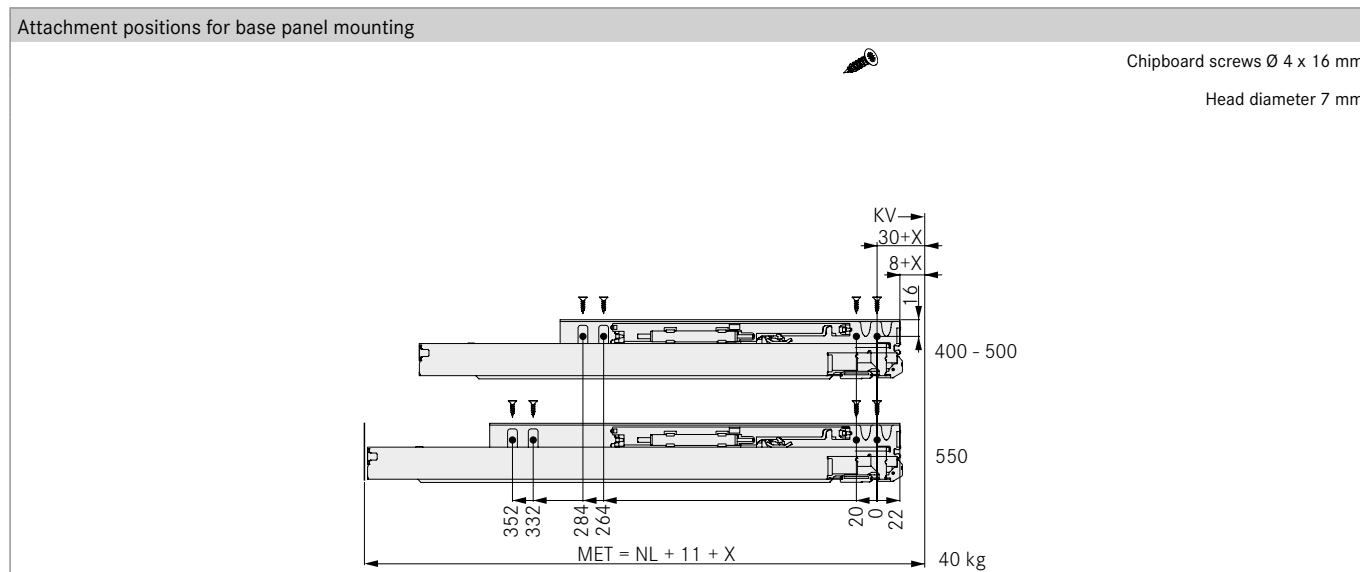
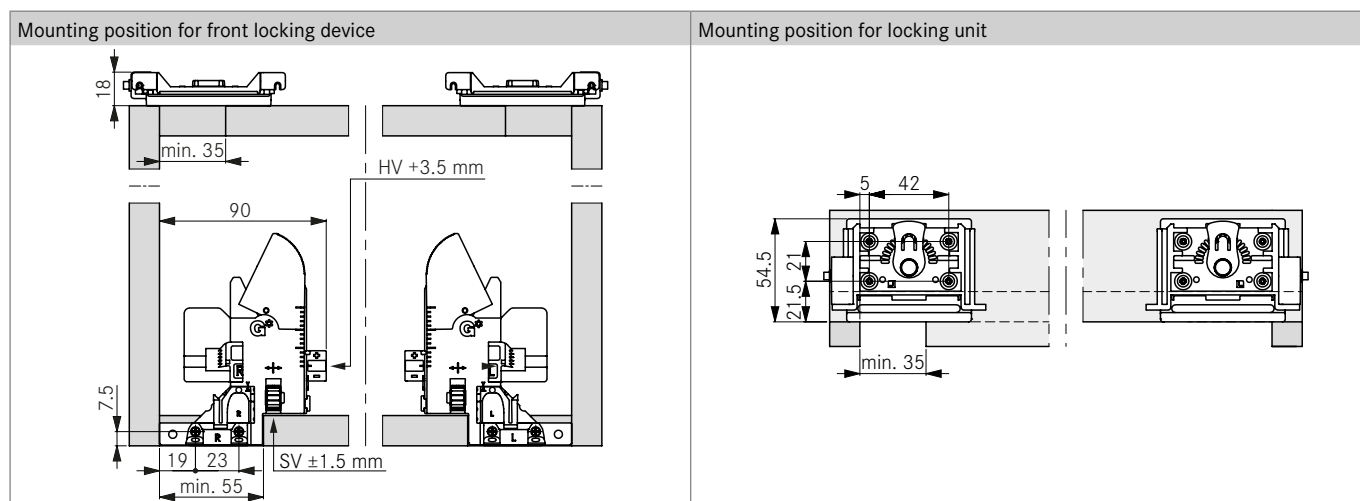
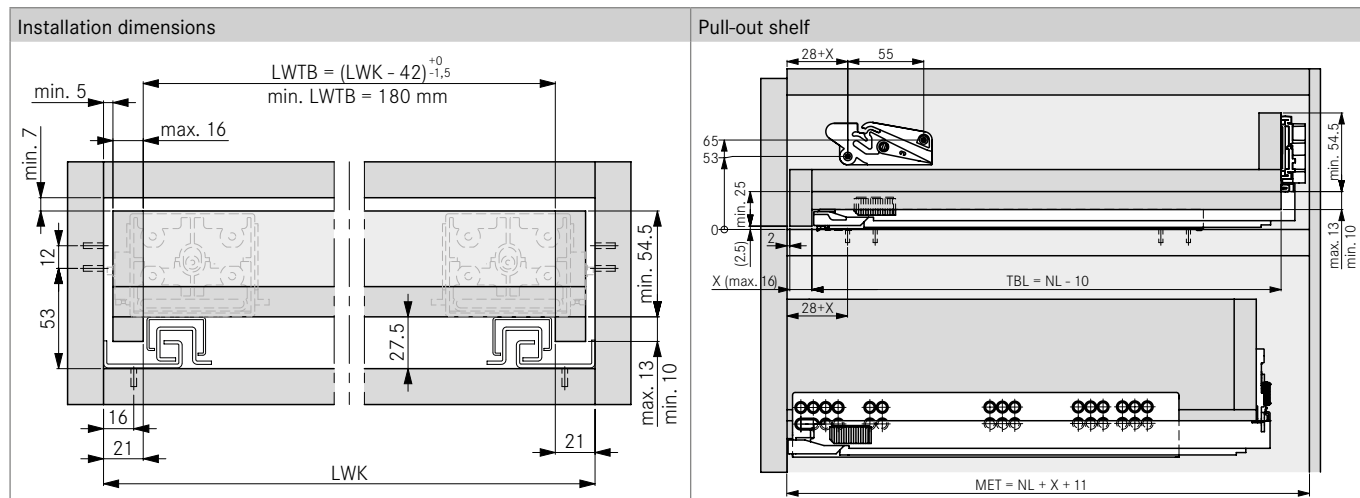


PAGE REFERENCES

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Dynapro Tipmatic Soft-close	320	Technical information	338		
Dynapro Tipmatic	326	Assembly aids	342		

PLANNING INFORMATION

All dimensions in millimetres



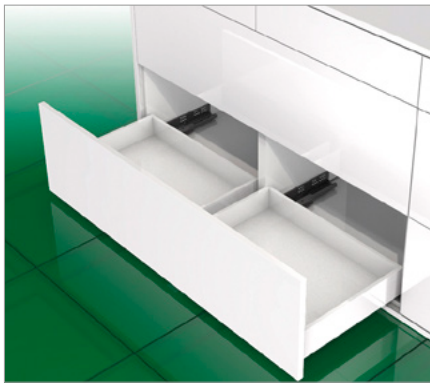
LEGEND

HV	Height adjustment	MET	Minimum installation depth
KV	Front edge of cabinet	NL	Nominal length
LWK	Inside cabinet width	SV	Lateral adjustment
LWTB	Clear shelf width	TBL	Shelf length



APPLICATION EXAMPLE

Dynapro Tipmatic Soft-close in double cabinet



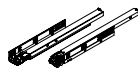
- Two drawers with one continuous front panel can be opened using Dynapro Tipmatic Soft-close
- Allows implementation of wide, handle-free fronts with a mechanical opening system
- Enables puristic and solid furniture design in new dimensions
- Large activation zone due to synchronisation rod
- Tool-free 5D adjustment facility

Notice:

- Minimum outside width: 1000 mm
- Maximum outside width: 2200 mm
- Maximum total weight: 40 kg
- Only the Dynapro slides on the outer walls of the double cabinet are fitted with a Tipmatic Soft-close unit and an activator
- The Soft-close unit must be removed for Dynapro slides on the inner walls of the double cabinet

ORDER INFORMATION

1 Dynapro Full extension slide 40 kg Soft-close EB 21				
NL	40 kg	40 kg	40 kg	
	Left, Right	Left	Right	
270	F130107793	F130107794	F130107795	
300	F130107796	F130107797	F130107798	
320	F130107799	F130107800	F130107801	
350	F130107802	F130107803	F130107804	
380	F130107805	F130107806	F130107807	
400	F130107808	F130107809	F130107810	
420	F130107811	F130107812	F130107813	
450	F130107814	F130107815	F130107816	
480	F130107817	F130107818	F130107819	
500	F130107820	F130107821	F130107822	
520	F130107823	F130107824	F130107825	
550	F130107826	F130107827	F130107828	
600	F130107829	F130107830	F130107831	



2 Dynapro Accessories for double cabinet Set: Adjustment adapter, Front locking device		
Adjustable	Art. no.	
4D	F134136776	



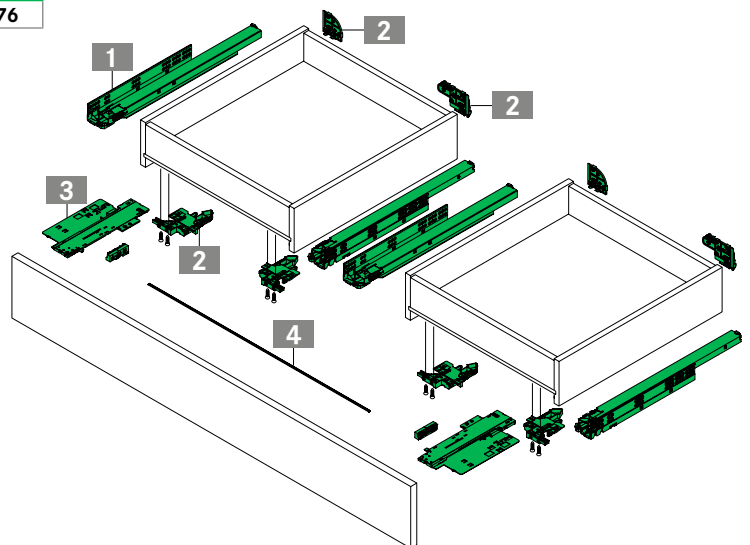
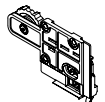
3 Dynapro Tipmatic Soft-close Set: Activator, Unit		
Type of assembly	Art. no.	
To clip-on	F134134420	



4 Synchronisation rod for cutting to length Piece		
KB	Length of synchronisation rod	Art. no.
1200	952	F134109410
1800	1562	F102109394
2200	1952	F134131408



Adjustment adapter with tilt angle and side adjustment Piece: Right		
Adjustable	Right	Art. no.
2D	F134100635	

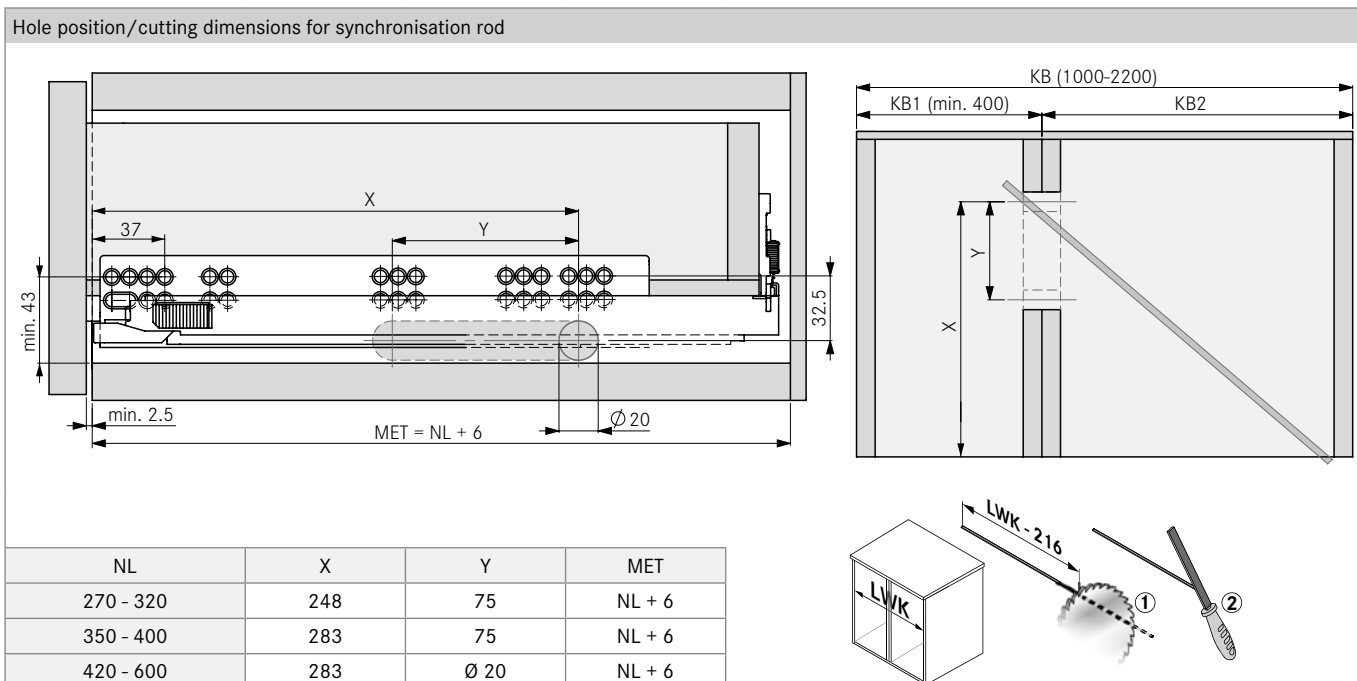
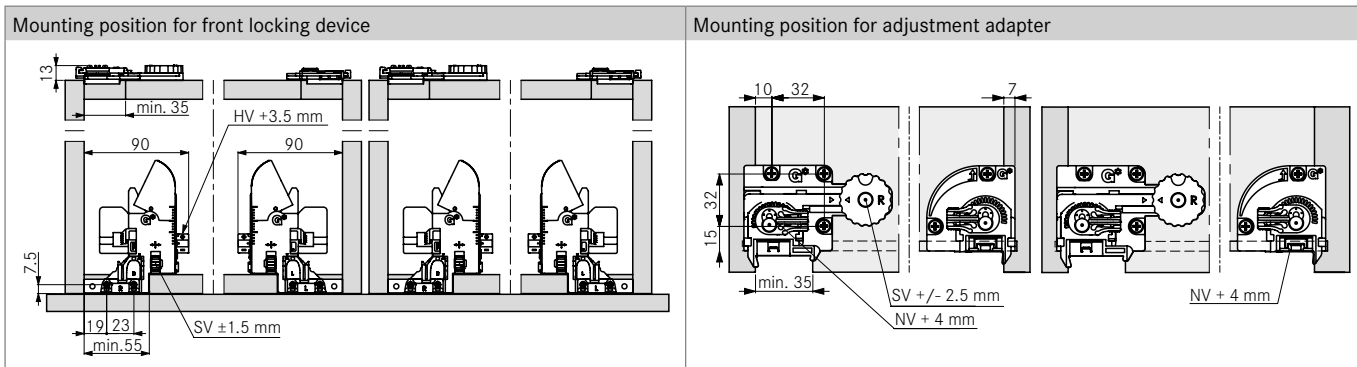
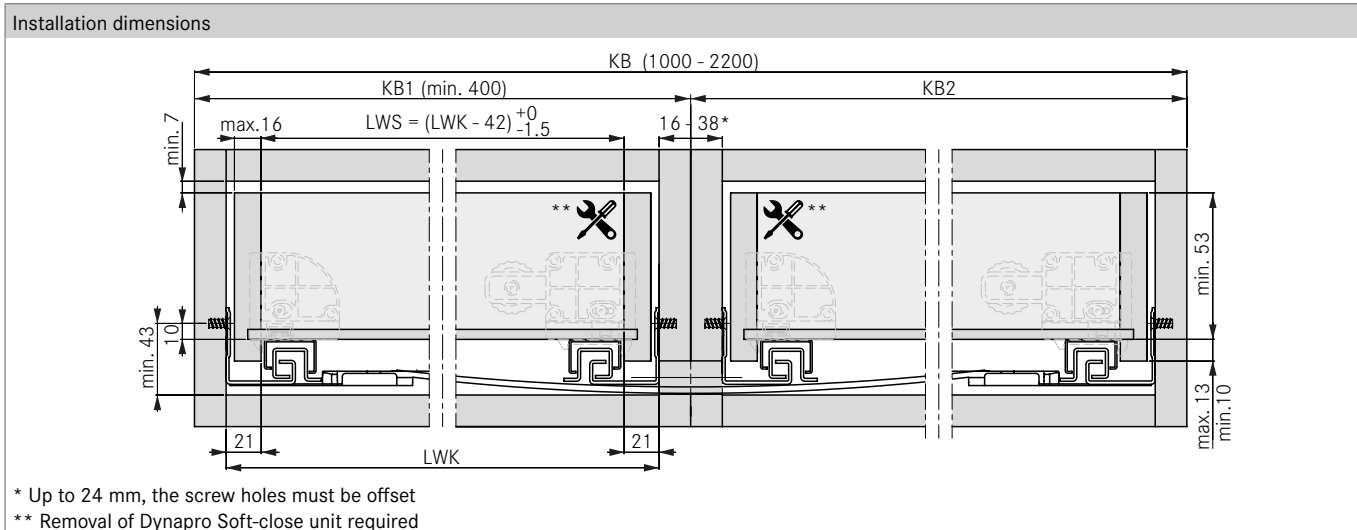


PAGE REFERENCES

Dynapro Soft-close	316	Base panel mounting	330	Sensomatic	345
Dynapro Tipmatic Soft-close	320	Technical information	338		
Dynapro Tipmatic	326	Assembly aids	342		

PLANNING INFORMATION

All dimensions in millimetres



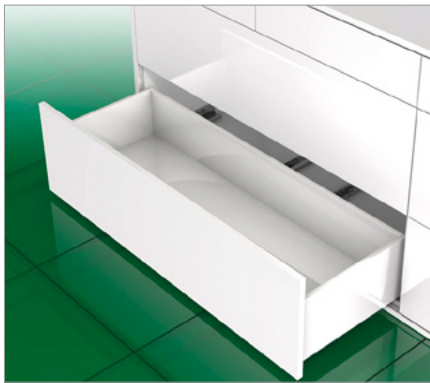
LEGEND

HV	Height adjustment	LWS	Inside drawer width	SV	Lateral adjustment
KB	Cabinet width	MET	Minimum installation depth		
L	Length	NL	Nominal length		
LWK	Inside cabinet width	NV	Tilt adjustment		



APPLICATION EXAMPLE

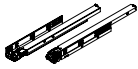
Extra-wide drawer



- Extra-wide drawer for cabinet without additional centre wall
- Modern furniture design with large fronts and no lost storage space
- Ideal for living room storage systems or bed drawers
- Made possible thanks to the combination of standard Dynapro slides with Dynapro for base panel mounting

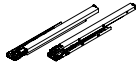
ORDER INFORMATION

1 Dynapro Full extension slide 40 kg Soft-close EB 21




NL	40 kg	40 kg	40 kg	
	Left, Right	Left	Right	
400	F130107808	F130107809	F130107810	
450	F130107814	F130107815	F130107816	
500	F130107820	F130107821	F130107822	
550	F130107826	F130107827	F130107828	

2 Dynapro Full extension slide 40 kg Soft-close EB 21 for base panel mounting

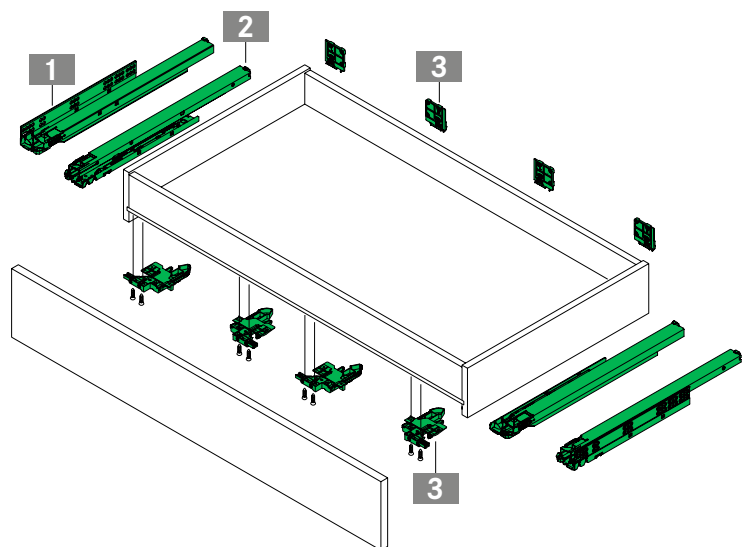


NL	40 kg	40 kg	40 kg	
	Left, Right	Left	Right	
400	F130107878	F130107879	F130107880	
450	F130107884	F130107885	F130107886	
500	F130107890	F130107891	F130107892	
550	F130107893			

3 Dynapro Accessories
Set: Front locking device, Adjustment adapter



	Mounting material	Art. no.
3D	Chipboard screw (excl.)	F134125074

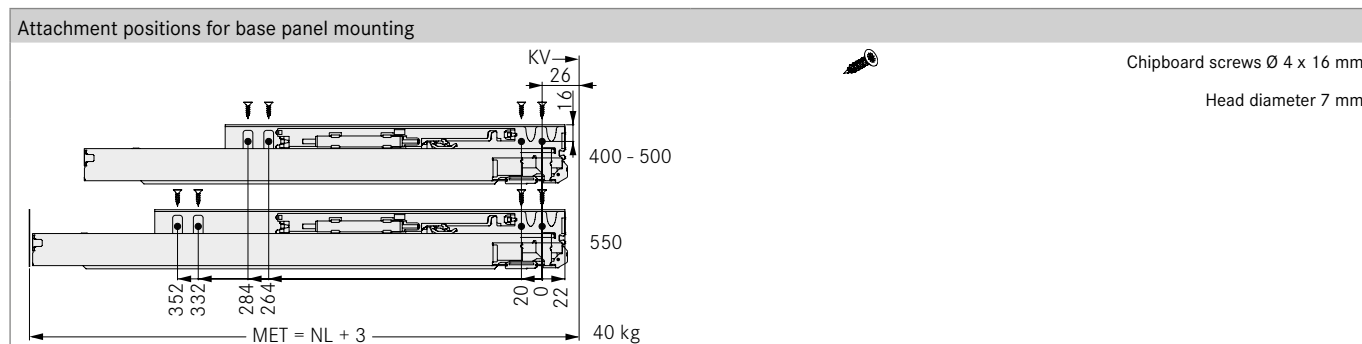
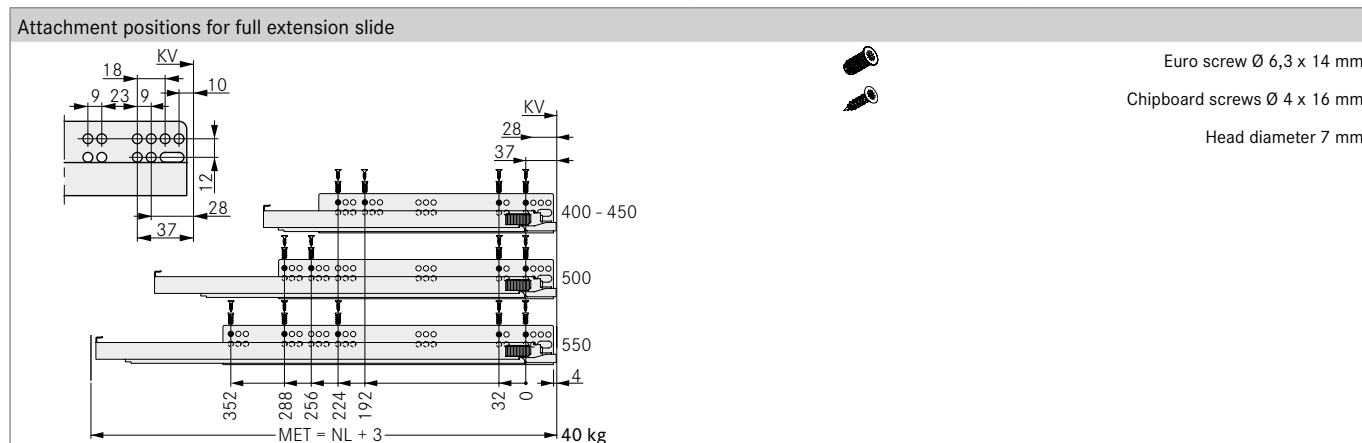
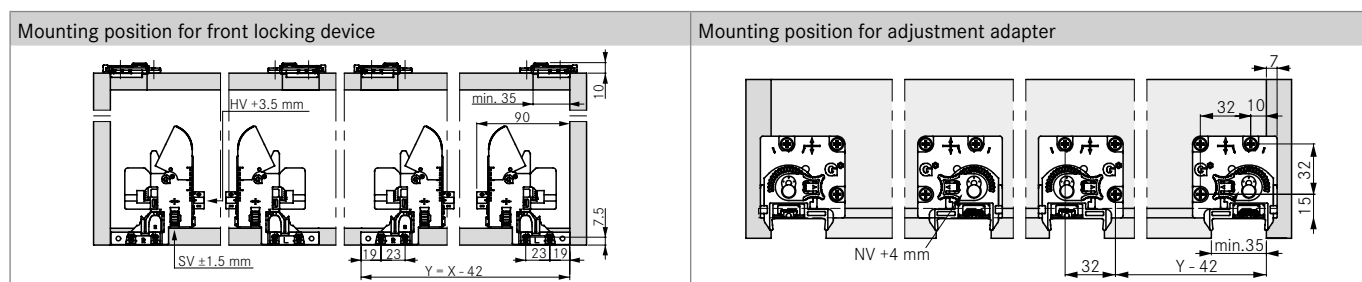
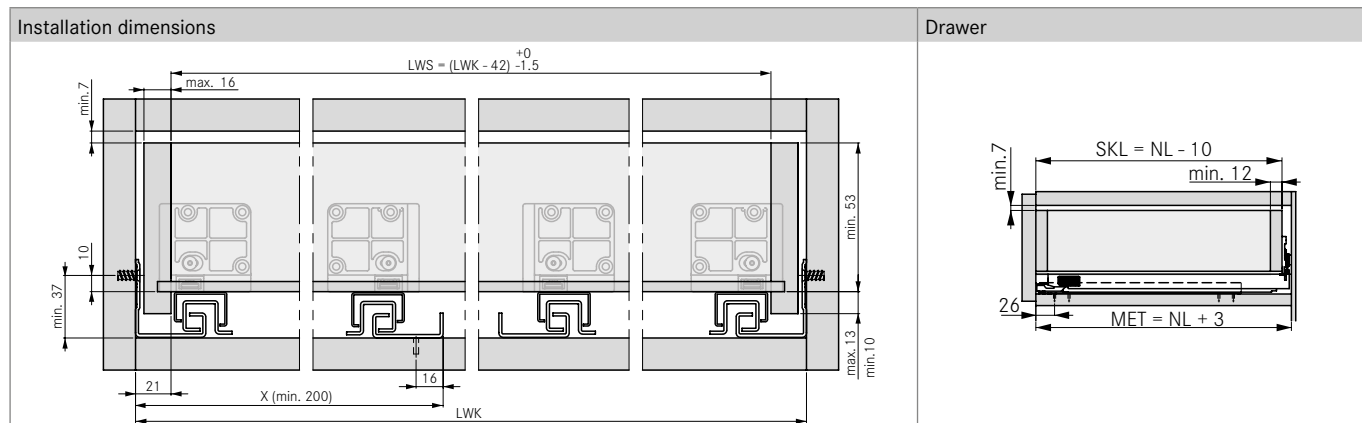


PAGE REFERENCES

Dynapro Soft-close	316	Base panel mounting	330	Sensomatic	345
Dynapro Tipmatic Soft-close	320	Technical information	338		
Dynapro Tipmatic	326	Assembly aids	342		

PLANNING INFORMATION

All dimensions in millimetres



LEGEND

HV	Height adjustment	LWK	Inside cabinet width	NV	Tilt adjustment
KB	Cabinet width	LWS	Inside drawer width	SKL	Drawer length
KV	Front edge of cabinet	MET	Minimum installation depth	SV	Lateral adjustment
L	Length	NL	Nominal length		



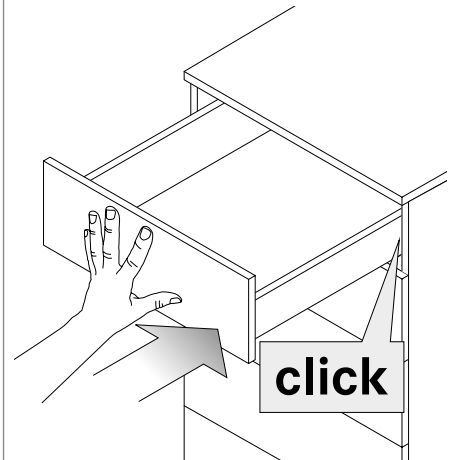
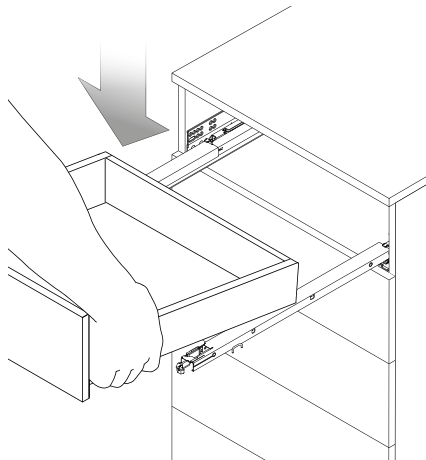
DYNAPRO

Technical information

PLANNING INFORMATION

Inserting the drawer

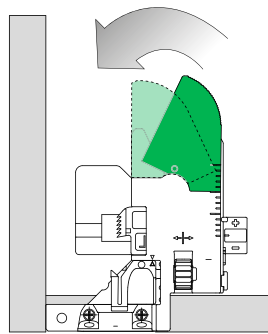
Place the drawer on the extended slides and slide in until it audibly engages.



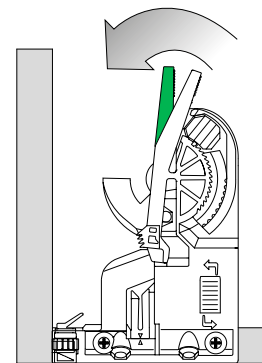
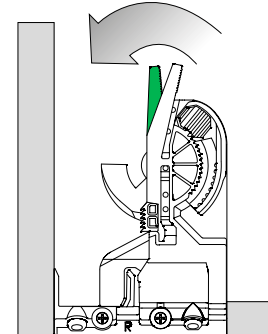
Removing the drawer

Pull out the drawer, actuate the lever of the front locking device on both sides and pull the drawer forwards, away from the slide.

Dynapro 3D/4D



Dynapro 2D



NOTICE

Mounting of cabinet rails:

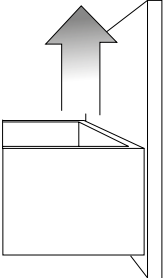
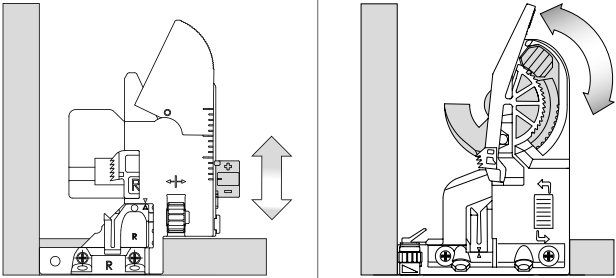
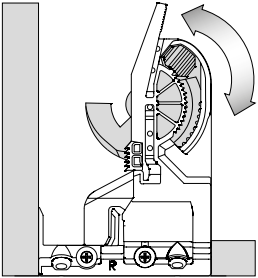
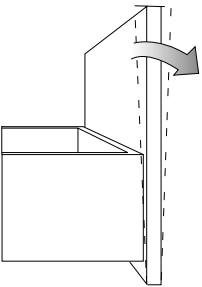
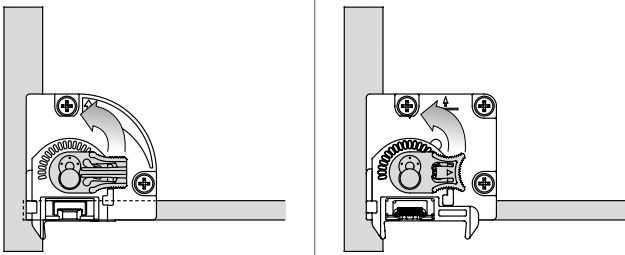
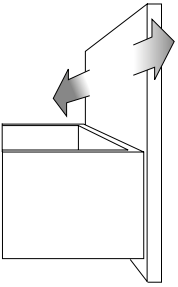
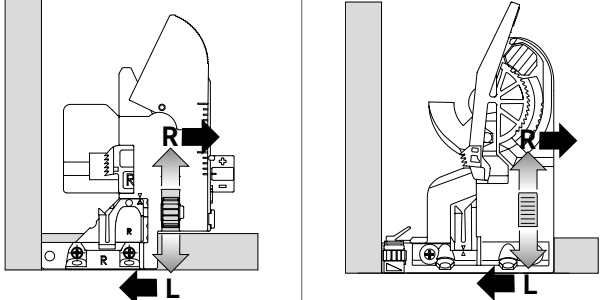
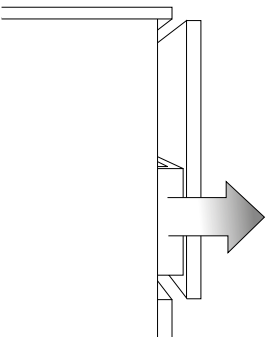
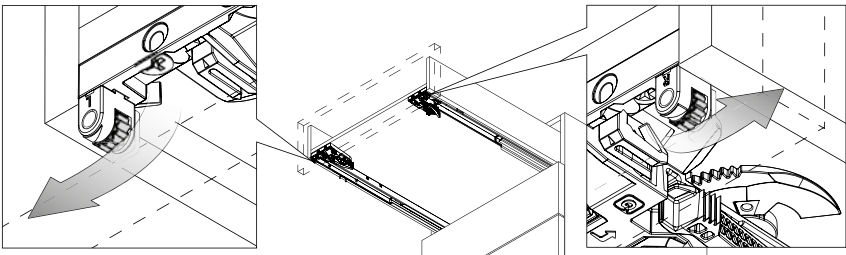
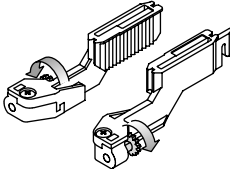
The screw recommendations are intended for reference.
Screw head dia. 7 mm.

Assemblers must ensure that the substrate material is thick enough.

PAGE REFERENCES

Dynapro Soft-close	316	Base panel mounting	330	Sensomatic	345
Dynapro Tipmatic Soft-close	320	Application examples	334		
Dynapro Tipmatic	326	Assembly aids	342		

ADJUSTMENT

<p>Height adjustment (max. +3.5 mm)</p> 	<p>Dynapro 3D/4D</p> 		<p>Dynapro 2D</p> 
<p>Front tilt angle adjustment (max. +4.0 mm)</p> 	<p>Dynapro 2D/3D/4D</p> 		
<p>Side adjustment (max. ±1.5 mm)</p> 	<p>Dynapro 3D/4D</p> 		
<p>Depth adjustment (max. +3.5 mm)</p> 	<p>Dynapro 4D</p>  <p>Dynapro 2D</p> 		

1

2

3

4

LEGEND

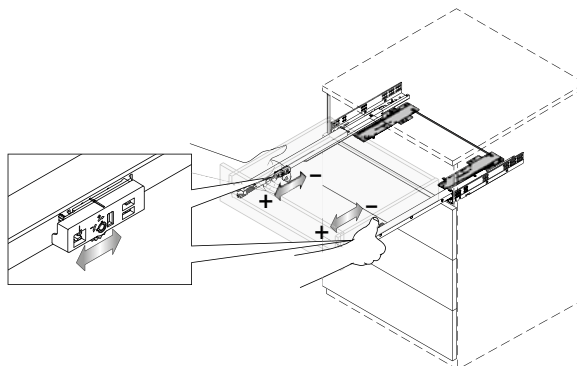
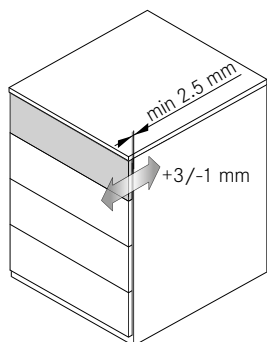
- NV Tilt adjustment
- SV Lateral adjustment

DYNAPRO

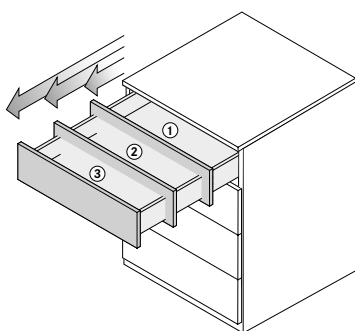
Technical information

DYNAPRO TIPMATIC SOFT-CLOSE

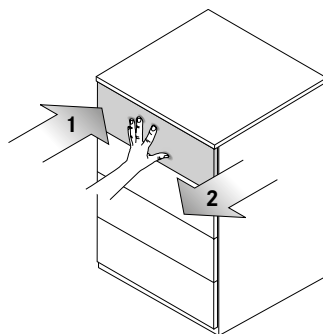
Front gap adjustment (+3 mm/-1 mm)



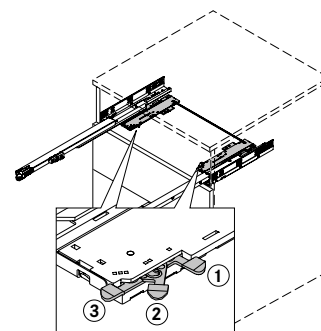
Opening force



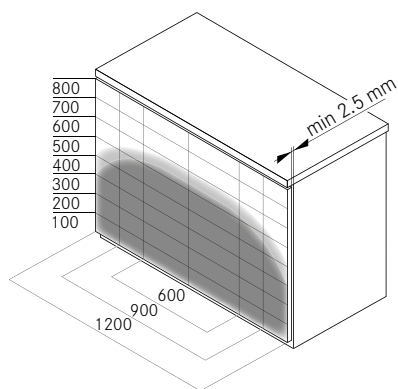
1



2



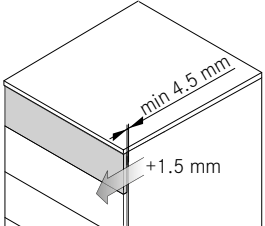
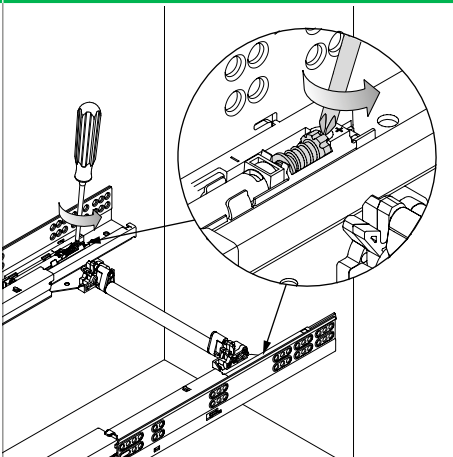
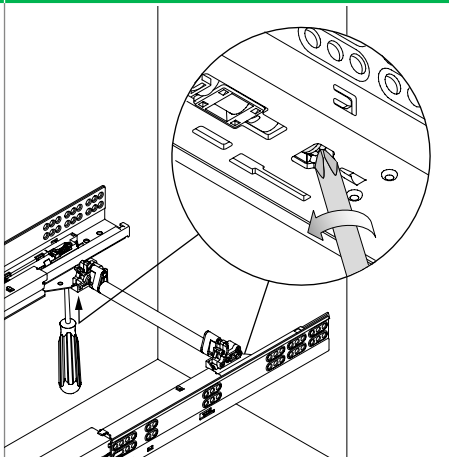
Activation zone



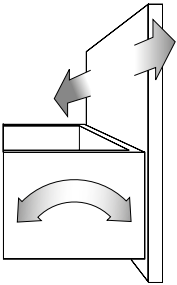
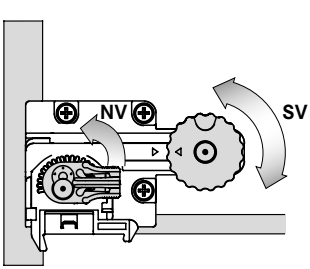
PAGE REFERENCES

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Dynapro Tipmatic Soft-close	320	Application examples	334		
Dynapro Tipmatic	326	Assembly aids	342		

DYNAPRO TIPMATIC

Front gap adjustment (max. +1.5 mm)	Front gap adjustment from above	Front gap adjustment from below
<p>The reliable opening and closing of the drawer depends on the front gap adjustment (min. 4.5 mm = factory setting). If the front height is greater than 300 mm, the front gap must be increased to the maximum of 6 mm.</p> 		

ADJUSTMENT

Tilt angle adjustment (max. +4 mm)/ side adjustment (max. ±2.5 mm)	Adjustment adapter 2D		
			

LEGEND

NV	Tilt adjustment		
SV	Lateral adjustment		

ASSEMBLY AIDS

Dynapro



DRILLING JIG FOR CABINET RAIL

Guide rule (1 x), stop elements (4 x),
stop plates (2 x)

Product type	Art. no.
Drilling jig	F146094730



STOP ELEMENT INDIVIDUAL

- For extension of the drilling jig, cabinet rail F146094730

Product type	Art. no.
Individual marking element	F146094721



DRILLING JIG FOR CABINET RAIL

- For use with pilot drill bit F146035692

	Art. no.
	F146134452



DRILLING JIG, DRAWER

- Pre-drilling of holes for:
Dynapro/Dynaneo front locking device
Hook-in device
- For use with pilot drill bit F146035692

Compatible with	Art. no.
Dynaneo front locking device 1D/2D	F146133145
Dynapro front locking device 1D	
Dynapro front locking device 2D/3D	
Vionaro V8 front locking device	
Dynaneo hook placement Dynapro adjustment adapter	

PAGE REFERENCES

Dynapro Soft-close	316	Base panel mounting	330	Sensomatic	345
Dynapro Tipmatic Soft-close	320	Application examples	334		
Dynapro Tipmatic	326	Technical information	338		



PILOT DRILL BIT

- The pilot drill bit is used for pre-drilling holes for countersunk chipboard screws

Diameter	Art. no.
3.5 mm	F146035692



WOOD DRILL BIT WITH STOP RING

- Used for pre-drilling holes for Euro screws
- Length 85 mm
- With stop ring

Diameter	Art. no.
5 mm	F146092594



SPECIAL EURO SCREWS

- Steel, nickel-plated, for screwing into a pre-drilled hole system dia. 5 mm (Pozidriv recessed head no. 2)

Nominal diameter x screw length	Art. no.
6.3 x 14 mm	F148115049

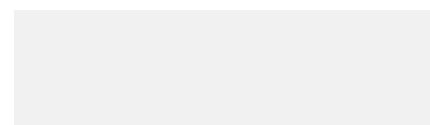
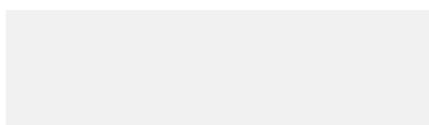
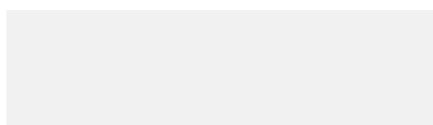


SCREWDRIVER

- GRASS cross-head screwdriver (Pozidriv no. 2)

Product type	Art. no.
Screwdriver	F147010256

LEGEND





**Sensomatic.
There's no more
elegant way to open
handle-free drawers.**



WITH THE SENSOMATIC TOUCH-ACTIVATED AUTOMATIC SYSTEM, A GENTLE TAP IS ALL THAT IS NEEDED TO SET REGULAR AND POT DRAWERS IN MOTION. MECHANICAL TAPPING OR PULLING IS CONVERTED INTO AN ELECTRICAL SIGNAL, WHICH STARTS THE MOVEMENT WITHIN A FEW FRACTIONS OF A SECOND. SMOOTH, PRECISE AND ELEGANT AT THE SAME TIME. **SENSOMATIC IS AN INTERACTIVE MOVEMENT SYSTEM FOR MAXIMUM OPERATING COMFORT AND FREEDOM OF MOVEMENT.**


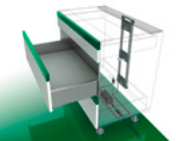
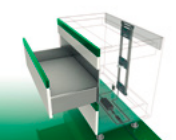
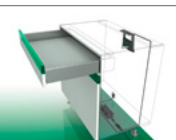


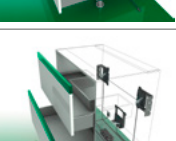
To enable you to test the special properties of Sensomatic yourself, we also supply the electromechanical **opening system as a practical single set.**

**Action.
Reaction.
Interaction.**



Sensomatic Opening System for Dynapro

Electro-mechanical opening of regular and pot drawers.
For a balance between stylish design and functional comfort.

	Description		Page
	Sensomatic Single Set <ul style="list-style-type: none"> • Complete set for one drawer • For cabinet widths up to 1200 mm • Easy to assemble • Extremely simple wiring (plug and play) 		346
	Sensomatic Standard cabinet, horizontal wooden stretcher <ul style="list-style-type: none"> • Smallest additional space requirement between drawer back panel and cabinet • Extremely simple wiring (plug and play) • Only one drive unit for cabinet widths up to 1200 mm • Large activation zone 		348
	Sensomatic Standard cabinet, vertical wooden stretcher <ul style="list-style-type: none"> • Smallest additional space requirement between drawer back panel and cabinet • Extremely simple wiring (plug and play) • Only one drive unit for cabinet widths up to 1200 mm • Large activation zone 		350
	Sensomatic Single drawer, overhead frame set mounting <ul style="list-style-type: none"> • Smallest additional space requirement between drawer back panel and cabinet • Extremely simple wiring (plug and play) • Only one drive unit for cabinet widths up to 1200 mm • Large activation zone 		352
	Sensomatic Single drawer, back panel frame set mounting <ul style="list-style-type: none"> • Smallest additional space requirement between drawer back panel and cabinet • Extremely simple wiring (plug and play) • Only one drive unit for cabinet widths up to 1200 mm • Large activation zone 		354
	Sensomatic Sink cabinet, bottom panel frame set mounting <ul style="list-style-type: none"> • Smallest additional space requirement between drawer back panel and cabinet • Extremely simple wiring (plug and play) • Only one drive unit for cabinet widths up to 1200 mm • Large activation zone 		356
	Sensomatic Sink cabinet, side panel frame set mounting <ul style="list-style-type: none"> • Smallest additional space requirement between drawer back panel and cabinet • Extremely simple wiring (plug and play) • Only one drive unit for cabinet widths up to 1200 mm • Large activation zone 		358



Tipmatic Soft-close

Complete comfort without electronics.

Tipmatic Soft-close keeps mechanical opening without electronic support perfectly under control. This makes Tipmatic Soft-close one of the world's most successful opening systems for handle-free drawers. Tipmatic Soft-close can be found under slides.

SENSOMATIC

Single Set



- Electro-mechanical opening system
- Combines handle-free opening with the Soft-close damping system
- 1 drive unit for all weight classes
- Easy to install
- Plug and play wiring
- Low additional installation depth
- Single Set contains all components required for assembly
- Ideal for heavy pot drawers and waste separating systems

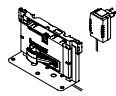
Notice:

- Other country-specific sets on request

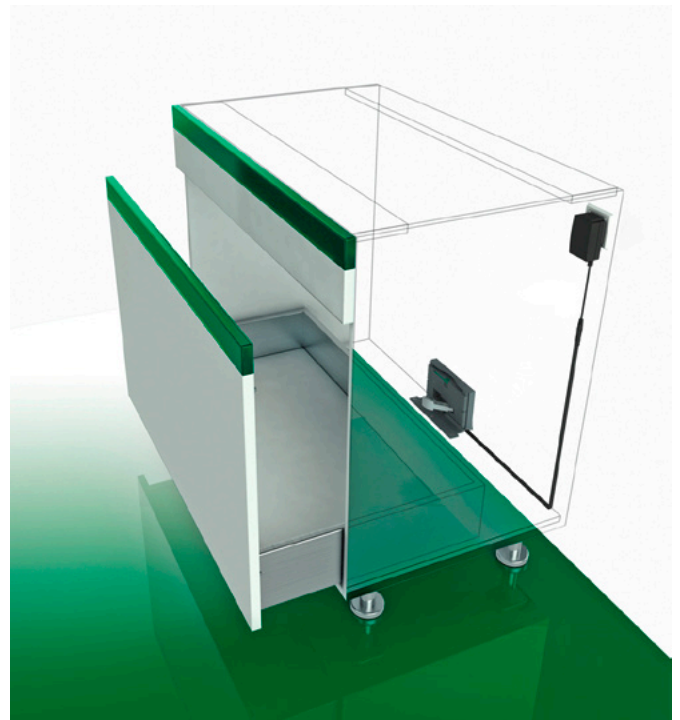
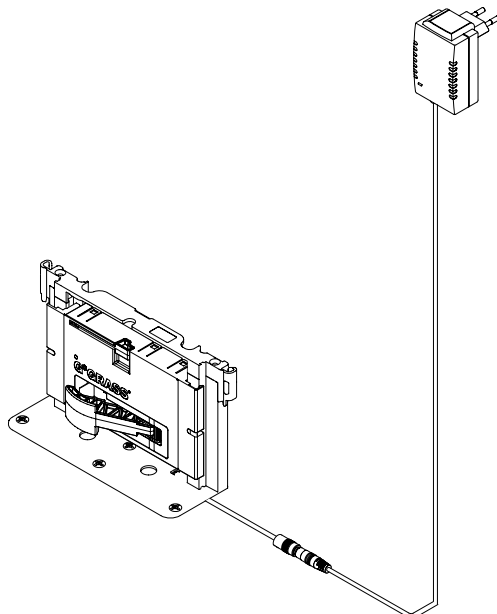
ORDER INFORMATION

Sensomatic Single Set

Set: Drive unit, Installation set, Power supply unit with plug, Front buffer



Plug type	Art. no.
C: Used in: Europe, with the exception of the UK, Ireland, Cyprus and Malta	F121100983



PAGE REFERENCES

Dynapro Soft-close	316	Base panel mounting	330		
Dynapro Tipmatic Soft-close	320	Assembly aids	342		
Dynapro Tipmatic	326	Installation instructions	360		

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions

RW	min. LWK	MET	LBT
Wooden back panel	312	NL + 15	NL
Steel back panel			

Installation set

Position of drive unit

Position of front buffer

Notice: When using Dynapro slides 70 kg, 4 front buffers must be inserted into the front.

1
2
3
4


LEGEND


FA	Front overlay	LWK	Inside cabinet width	RW	Back panel
FH	Front height	MET	Minimum installation depth		
KF	Cable routing	NL	Nominal length		
LBT	Depth of hole pattern	P	Positioning aid		

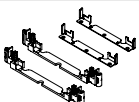
SENSOMATIC


Standard cabinet, horizontal wooden stretcher


ORDER INFORMATION

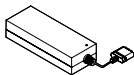
1	Drive unit Piece	
	Suitable for slide Dynapro, Nova Pro	Art. no. F121131975


2	Length divider Pair	
	Traverse length 750	Art. no. F121100285


3	Fastening set Set: Frame connector, Fixing brackets	
	Opening/closing system Sensomatic	Art. no. F121100610


3a	Frame connector Piece	
	Opening/closing system Sensomatic	Art. no. F121100282

3b	Fixing bracket Piece: Top or bottom	
	Opening/closing system Sensomatic	Art. no. F121100270

4	Power supply unit Piece	
	Opening/closing system Sensomatic	Art. no. F121109970

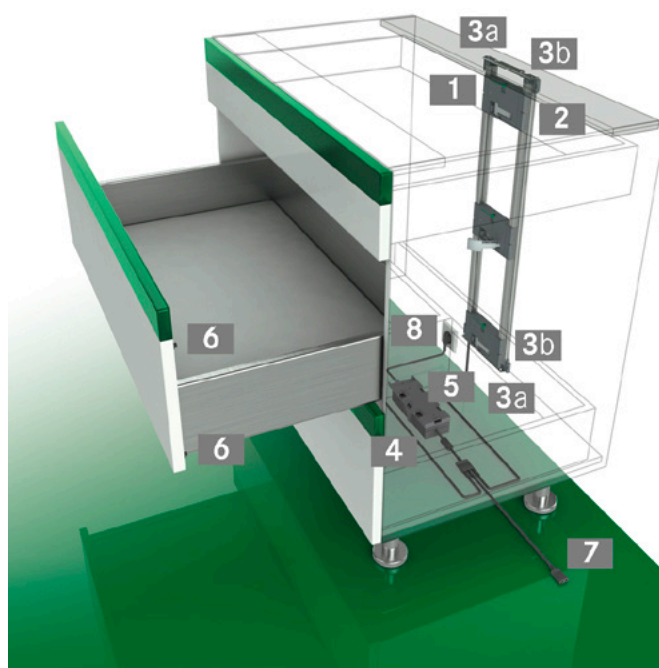
5	Power supply bracket Piece	
	Opening/closing system Sensomatic	Art. no. F121100604

6	Front buffer, spring loaded Piece		
	Ø	Front gap	Art. no.
	5	2.2	F121100294
5	3	F121100295	

7	Connection cable with 2-way adapter Piece	
	L	Art. no.
	1000	F121100289
2000	F121100291	

8	Power supply cable Piece	
	Plug type	Art. no.
	E: Used in: France, Belgium, Slovakia and Tunisia, F: Used in: Germany, Austria, the Netherlands and Spain	F120069761
J: Used in: Switzerland and Lichtenstein	F120069765	

Other country-specific plug types on request.



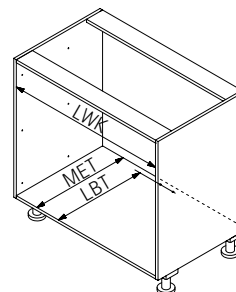
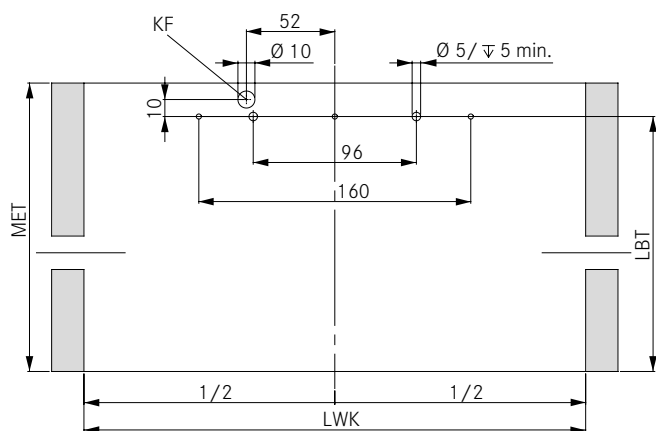
PAGE REFERENCES

Dynapro Soft-close	316	Base panel mounting	330		
Dynapro Tipmatic Soft-close	320	Assembly aids	342		
Dynapro Tipmatic	326	Installation instructions	360		

PLANNING INFORMATION

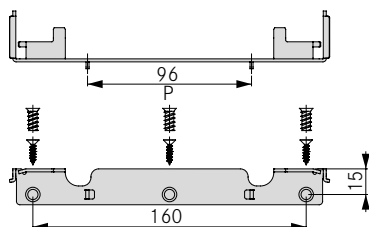
All dimensions in millimetres

Installation dimensions

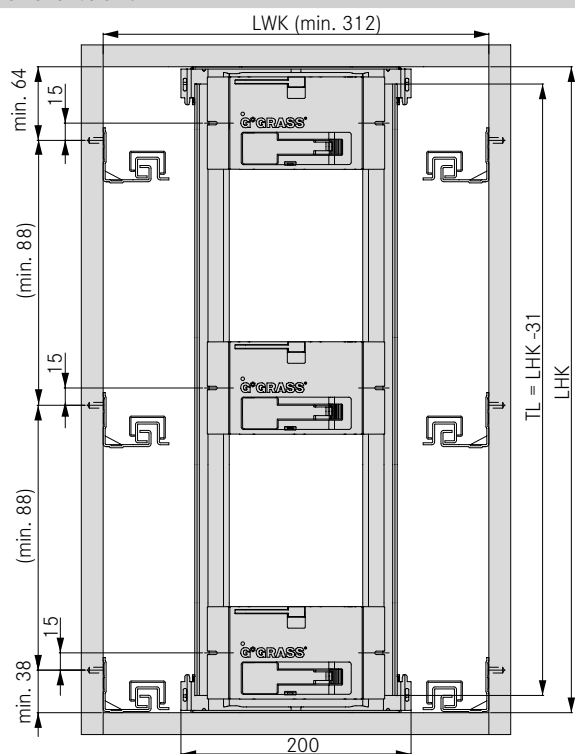


RW	min. LWK	MET	LBT
Wooden back panel			
Steel back panel	312	NL + 15	NL

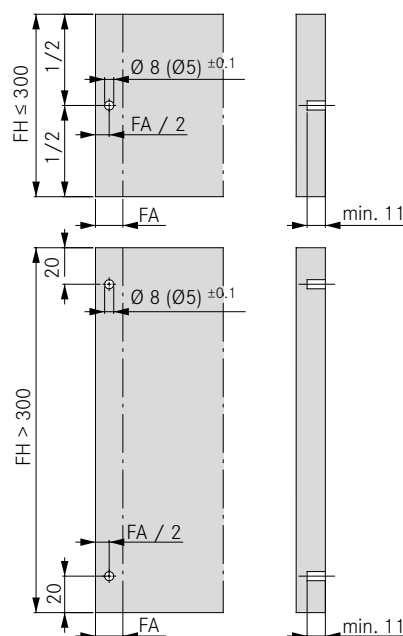
Upper/lower fixing bracket



Position of drive unit



Position of front buffer



Notice: When using Dynapro slides 70 kg, 4 front buffers must be inserted into the front.

LEGEND

FA Front overlay
FH Front height
KF Cable routing
LBT Depth of hole pattern

LHK Inside cabinet height
LWK Inside cabinet width
MET Minimum installation depth
NL Nominal length


P Positioning aid
RW Back panel
TL Traverse length





SENSOMATIC


Standard cabinet, vertical wooden stretcher


ORDER INFORMATION

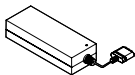
1	Drive unit Piece	
	Suitable for slide Dynapro, Nova Pro	Art. no. F121131975

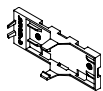
2	Length divider Pair	
	Traverse length 750	Art. no. F121100285


3	Frame connector Piece	
	Opening/closing system Sensomatic	Art. no. F121100282


4	Fixing bracket Piece: Top or bottom	
	Opening/closing system Sensomatic	Art. no. F121100270


5	Fixing bracket Piece: Back	
	Opening/closing system Sensomatic	Art. no. F121100275

6	Power supply unit Piece	
	Opening/closing system Sensomatic	Art. no. F121109970

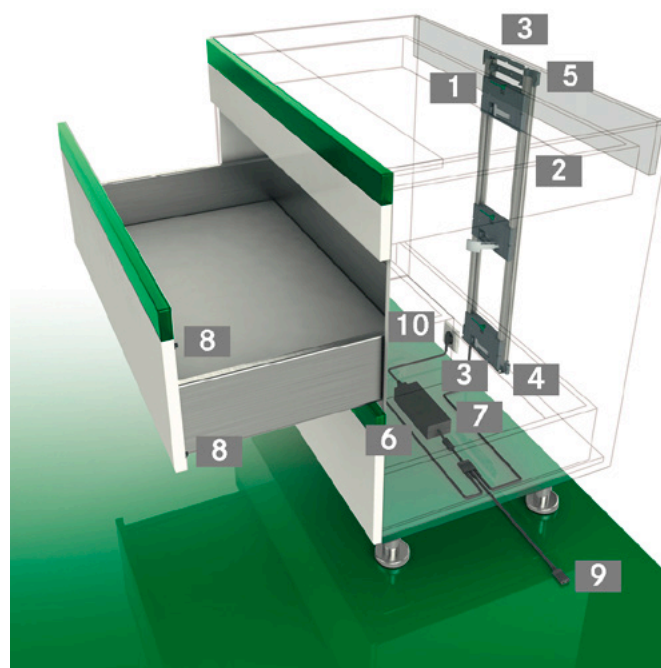
7	Power supply bracket Piece	
	Opening/closing system Sensomatic	Art. no. F121100604

8	Front buffer, spring loaded Piece		
	Ø	Front gap	Art. no.
	5	2.2	F121100294
5	3	F121100295	

9	Connection cable with 2-way adapter Piece	
	L	Art. no.
	1000	F121100289
2000	F121100291	

10	Power supply cable Piece	
	Plug type	Art. no.
	E: Used in: France, Belgium, Slovakia and Tunisia, F: Used in: Germany, Austria, the Netherlands and Spain	F120069761
J: Used in: Switzerland and Lichtenstein	F120069765	

Other country-specific plug types on request.



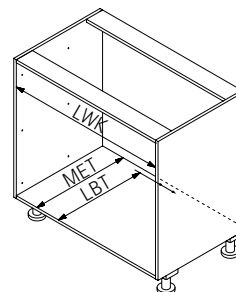
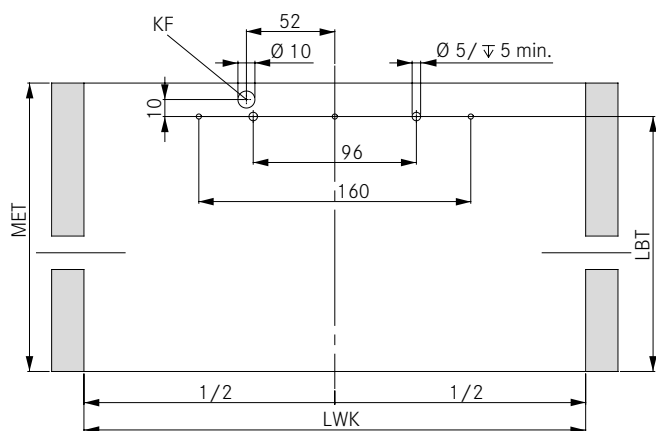
PAGE REFERENCES

Dynapro Soft-close	316	Base panel mounting	330		
Dynapro Tipmatic Soft-close	320	Assembly aids	342		
Dynapro Tipmatic	326	Installation instructions	360		

PLANNING INFORMATION

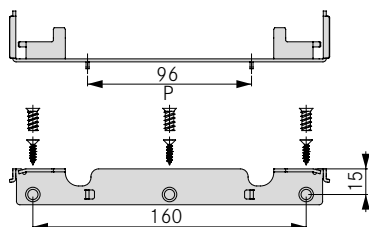
All dimensions in millimetres

Installation dimensions

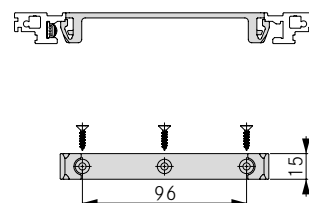


RW	min. LWK	MET	LBT
Wooden back panel	312	NL + 15	NL
Steel back panel			

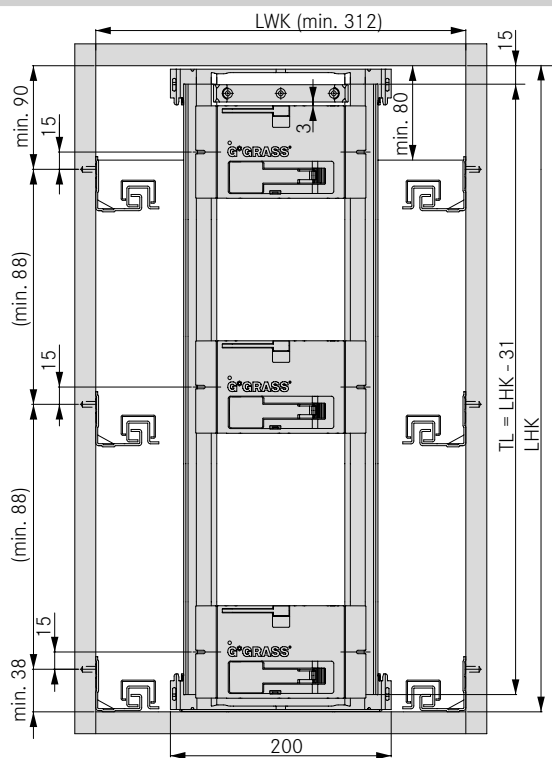
Upper/lower fixing bracket



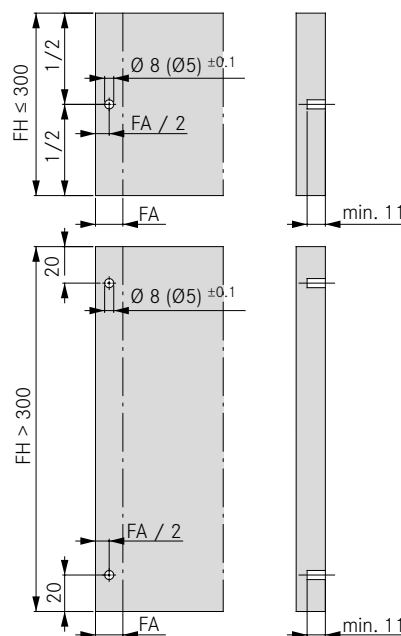
Fixing bracket on the inner rear side



Position of drive unit



Position of front buffer



Notice: When using Dynapro slides 70 kg, 4 front buffers must be inserted into the front.

LEGEND

FA	Front overlay
FH	Front height
KF	Cable routing
LBT	Depth of hole pattern

LHK	Inside cabinet height
LWK	Inside cabinet width
MET	Minimum installation depth
NL	Nominal length

P	Positioning aid
RW	Back panel
TL	Traverse length

SENSOMATIC

Single drawer, overhead frame set mounting

ORDER INFORMATION

1	Drive unit	
	Piece	


	Suitable for slide	Art. no.
	Dynapro, Nova Pro	F121131975

2	Installation set	
	Set	


	Opening/closing system	Art. no.
	Sensomatic	F121100273

3	Power supply unit	
	Piece	


	Opening/closing system	Art. no.
	Sensomatic	F121109970

4	Power supply bracket	
	Piece	

	Opening/closing system	Art. no.
	Sensomatic	F121100604

5	Front buffer, spring loaded	
	Piece	

Ø	Front gap	Art. no.
5	2.2	F121100294
5	3	F121100295

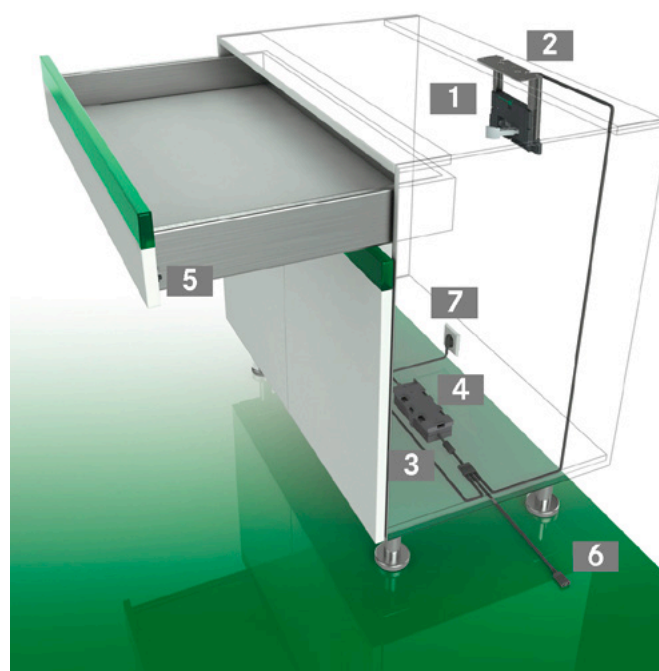
6	Connection cable with 2-way adapter	
	Piece	

	L	Art. no.
	1000	F121100289
	2000	F121100291

7	Power supply cable	
	Piece	

	Plug type	Art. no.
	E: Used in: France, Belgium, Slovakia and Tunisia, F: Used in: Germany, Austria, the Netherlands and Spain	F120069761
	J: Used in: Switzerland and Lichtenstein	F120069765

Other country-specific plug types on request.



PAGE REFERENCES

Dynapro Soft-close	316	Base panel mounting	330		
Dynapro Tipmatic Soft-close	320	Assembly aids	342		
Dynapro Tipmatic	326	Installation instructions	360		

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions

RW	min. LWK	MET	LBT
Wooden back panel		NL + 15	LBT
Steel back panel	312	NL + 15	NL

Installation set

Position of drive unit

Position of front buffer

Notice: When using Dynapro slides 70 kg, 4 front buffers must be inserted into the front.

LEGEND


FA	Front overlay	LBT	Depth of hole pattern	P	Positioning aid
FH	Front height	LWK	Inside cabinet width	RW	Back panel
KF	Cable routing	MET	Minimum installation depth		
KUB	Cabinet base	NL	Nominal length		





SENSOMATIC

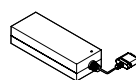
Single drawer, back panel frame set mounting


ORDER INFORMATION


1	Drive unit	
	Piece	
	Suitable for slide	Art. no.
	Dynapro, Nova Pro	F121131975


2	Length divider	
	Pair	
	Traverse length	Art. no.
	64	F121100283

3	Frame connector	
	Piece	
	Opening/closing system	Art. no.
	Sensomatic	F121100282

4	Power supply unit	
	Piece	
	Opening/closing system	Art. no.
	Sensomatic	F121109970

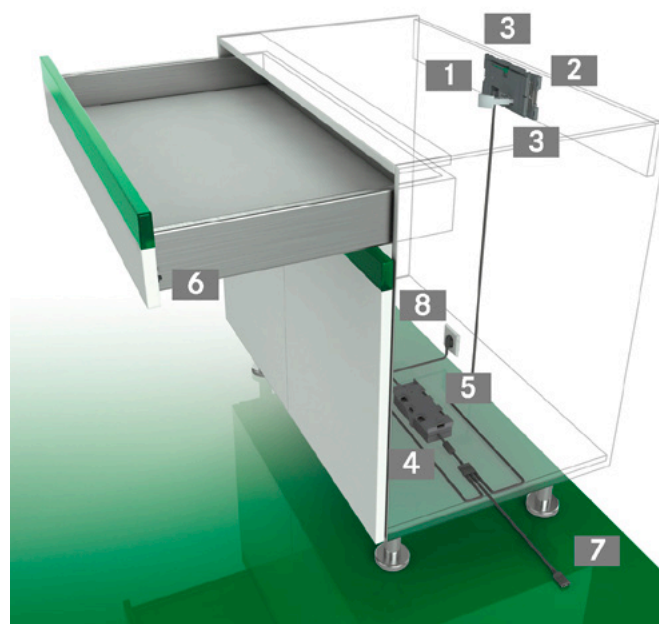
5	Power supply bracket	
	Piece	
	Opening/closing system	Art. no.
	Sensomatic	F121100604

6	Front buffer, spring loaded	
	Piece	
∅	Front gap	Art. no.
5	2.2	F121100294
5	3	F121100295

7	Connection cable with 2-way adapter	
	Piece	
	L	Art. no.
	1000	F121100289
	2000	F121100291

8	Power supply cable	
	Piece	
	Plug type	Art. no.
	E: Used in: France, Belgium, Slovakia and Tunisia, F: Used in: Germany, Austria, the Netherlands and Spain	F120069761
	J: Used in: Switzerland and Lichtenstein	F120069765

Other country-specific plug types on request.



PAGE REFERENCES

Dynapro Soft-close	316	Base panel mounting	330		
Dynapro Tipmatic Soft-close	320	Assembly aids	342		
Dynapro Tipmatic	326	Installation instructions	360		

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions								
	<table border="1"> <thead> <tr> <th>RW</th> <th>min. LWK</th> <th>MET</th> </tr> </thead> <tbody> <tr> <td>Wooden back panel</td> <td rowspan="2">312</td> <td rowspan="2">NL + 20*</td> </tr> <tr> <td>Steel back panel</td> </tr> </tbody> </table>	RW	min. LWK	MET	Wooden back panel	312	NL + 20*	Steel back panel
RW	min. LWK	MET						
Wooden back panel	312	NL + 20*						
Steel back panel								
Frame sides								
Position of drive unit	Position of front buffer							
	<p>Notice: When using Dynapro slides 70 kg, 4 front buffers must be inserted into the front.</p>							

LEGEND

FA Front overlay
FH Front height
KF Cable routing
LWK Inside cabinet width


MET Minimum installation depth
NL Nominal length
RW Back panel
SPS Chipboard screw




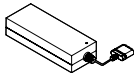
SENSOMATIC


Sink cabinet, bottom panel frame set mounting


ORDER INFORMATION


1	Drive unit	
	Piece	
	Suitable for slide	Art. no.
	Dynapro, Nova Pro	F121131975


2	Installation set	
	Set	
	Opening/closing system	Art. no.
	Sensomatic	F121100273

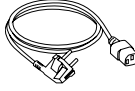
3	Power supply unit	
	Piece	
	Opening/closing system	Art. no.
	Sensomatic	F121109970

4	Power supply bracket	
	Piece	
	Opening/closing system	Art. no.
	Sensomatic	F121100604

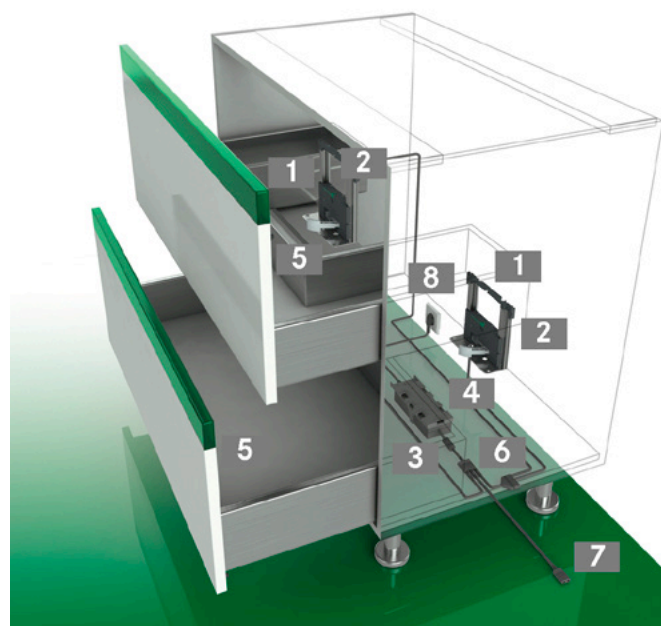
5	Front buffer, spring loaded	
	Piece	
Ø	Front gap	Art. no.
5	2.2	F121100294
5	3	F121100295

6	4-way distributor	
	Piece	
	Opening/closing system	Art. no.
	Sensomatic	F121100293

7	Connection cable with 2-way adapter	
	Piece	
	L	Art. no.
	1000	F121100289
	2000	F121100291

8	Power supply cable	
	Piece	
	Plug type	Art. no.
	E: Used in: France, Belgium, Slovakia and Tunisia, F: Used in: Germany, Austria, the Netherlands and Spain	F120069761
	J: Used in: Switzerland and Lichtenstein	F120069765

Other country-specific plug types on request.



PAGE REFERENCES

Dynapro Soft-close	316	Base panel mounting	330		
Dynapro Tipmatic Soft-close	320	Assembly aids	342		
Dynapro Tipmatic	326	Installation instructions	360		

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions

RW	MET	LBT	LBTS
Wooden back panel	NL + 15	NL	NL(A)-NL(B)+9
Steel back panel	NL + 15	NL	NL(A)-NL(B)+9

Installation set

Sink installation

Position of drive unit

Position of front buffer

Notice: When using Dynapro slides 70 kg, 4 front buffers must be inserted into the front.

1

2

3

4

LEGEND

FA	Front overlay
FH	Front height
KF	Cable routing
LBT	Depth of hole pattern


LBTS	Depth of hole pattern in sink pull-out
LWK	Inside cabinet width
MET	Minimum installation depth
NL	Nominal length


P	Positioning aid
RW	Back panel

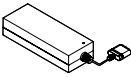
SENSOMATIC


Sink cabinet, side panel frame set mounting


ORDER INFORMATION


1	Drive unit	
	Piece	
	Suitable for slide	Art. no.
	Dynapro, Nova Pro	F121131975


2	Installation set	
	Set	
	Opening/closing system	Art. no.
	Sensomatic	F121100273


3	Power supply unit	
	Piece	
	Opening/closing system	Art. no.
	Sensomatic	F121109970

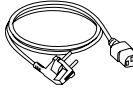
4	Power supply bracket	
	Piece	
	Opening/closing system	Art. no.
	Sensomatic	F121100604

5	Front buffer, spring loaded	
	Piece	
\emptyset	Front gap	Art. no.
5	2.2	F121100294
5	3	F121100295

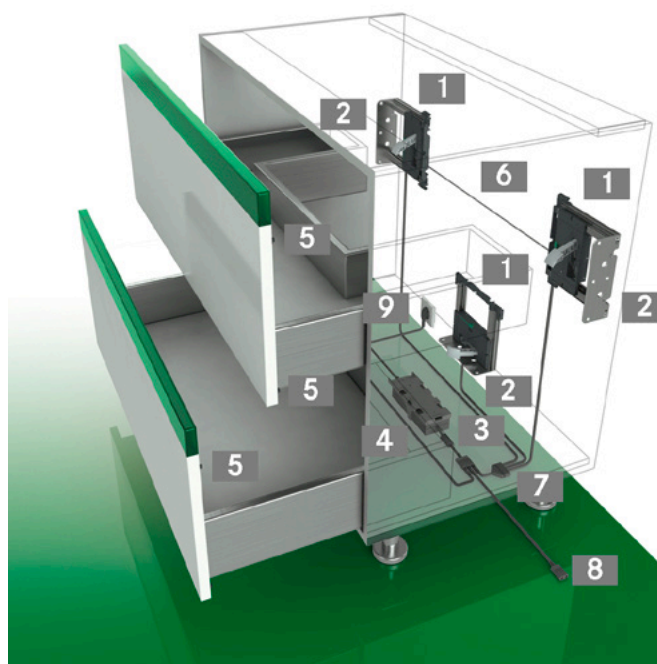
6	Synchronisation cable	
	Piece	
	L	Art. no.
	10000	F121100287

7	4-way distributor	
	Piece	
	Opening/closing system	Art. no.
	Sensomatic	F121100293

8	Connection cable with 2-way adapter	
	Piece	
	L	Art. no.
	1000	F121100289
	2000	F121100291

9	Power supply cable	
	Piece	
	Plug type	Art. no.
	E: Used in: France, Belgium, Slovakia and Tunisia, F: Used in: Germany, Austria, the Netherlands and Spain	F120069761
	J: Used in: Switzerland and Lichtenstein	F120069765

Other country-specific plug types on request.



PAGE REFERENCES

Dynapro Soft-close	316	Base panel mounting	330		
Dynapro Tipmatic Soft-close	320	Assembly aids	342		
Dynapro Tipmatic	326	Installation instructions	360		

PLANNING INFORMATION

All dimensions in millimetres

<p>Installation dimensions</p>	<p>Side panel mounting installation dimensions</p> <table border="1"> <thead> <tr> <th>RW</th> <th>MET</th> <th>LBT</th> </tr> </thead> <tbody> <tr> <td>Wooden back panel</td> <td>NL + 15</td> <td>NL</td> </tr> <tr> <td>Steel back panel</td> <td>NL + 15</td> <td>NL</td> </tr> </tbody> </table>	RW	MET	LBT	Wooden back panel	NL + 15	NL	Steel back panel	NL + 15	NL
RW	MET	LBT								
Wooden back panel	NL + 15	NL								
Steel back panel	NL + 15	NL								
<p>Installation set</p>										
<p>Position of drive unit</p>	<p>Position of front buffer</p>									
<p>Position of the drive unit for side panel mounting</p>	<p>Notice: When using Dynapro slides 70 kg, 4 front buffers must be inserted into the front.</p>									

LEGEND

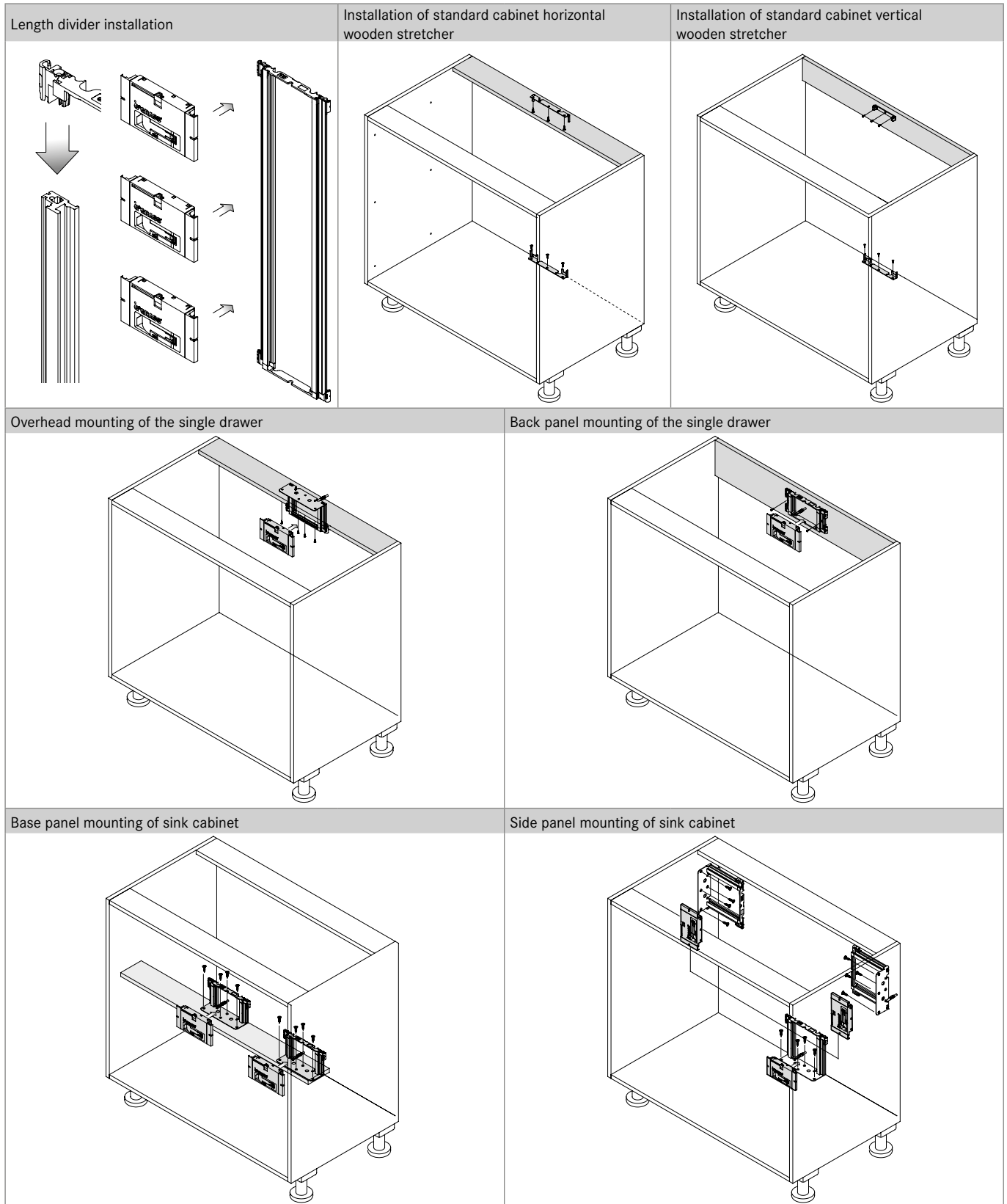
FA	Front overlay	LBT	Depth of hole pattern	P	Positioning aid
FH	Front height	LWK	Inside cabinet width	RW	Back panel
KF	Cable routing	MET	Minimum installation depth		
LBH	Height of hole pattern	NL	Nominal length		



SENSOMATIC

Installation instructions

INSTALLATION INSTRUCTIONS

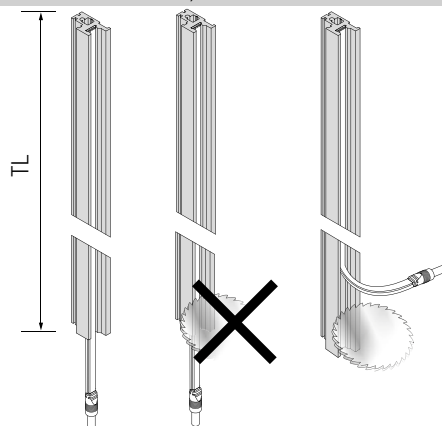


PAGE REFERENCES

Horizontal wooden stretcher	348	Back panel mounting	354	Slides	310
Vertical wooden stretcher	350	Base panel mounting	356	Assembly aids	342
Overhead mounting	352	Side panel mounting	358		

INSTALLATION INSTRUCTIONS

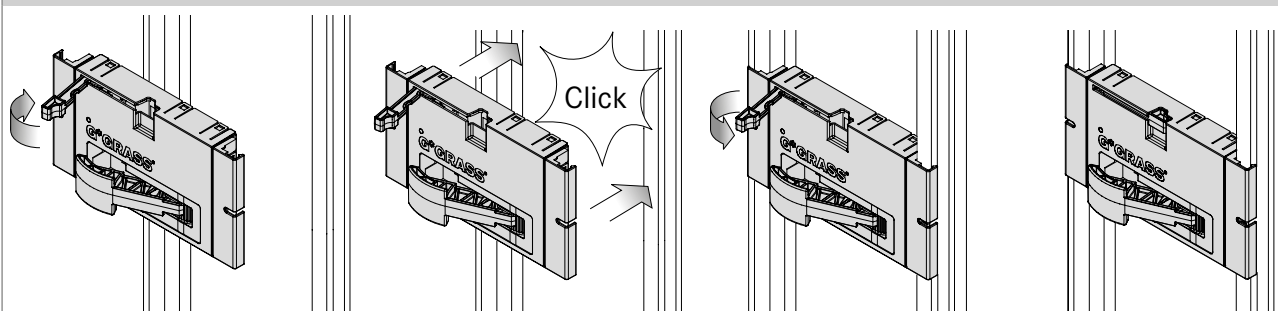
Cutting frame side to length (for horizontal and vertical wooden stretchers)



1

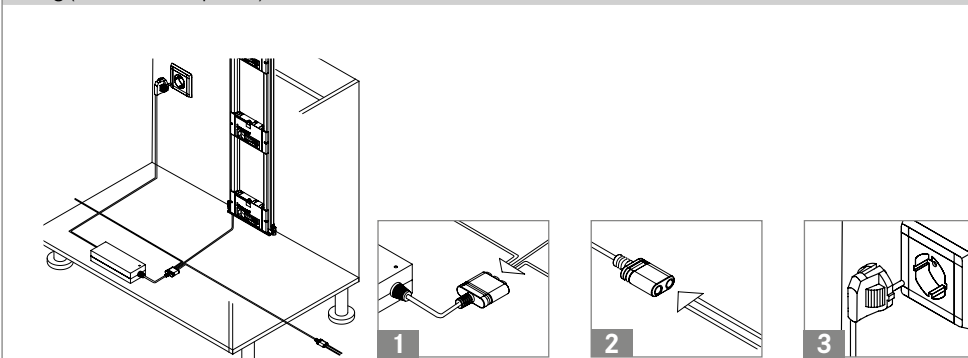
2

Installation of the drive unit



3

Wiring (connection sequence)

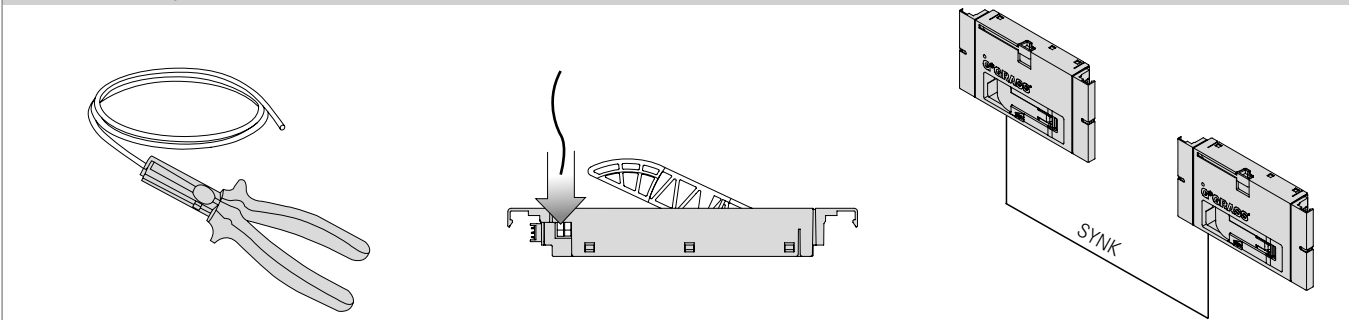


Front buffer installation



4

Installation of the synchronisation cable



LEGEND

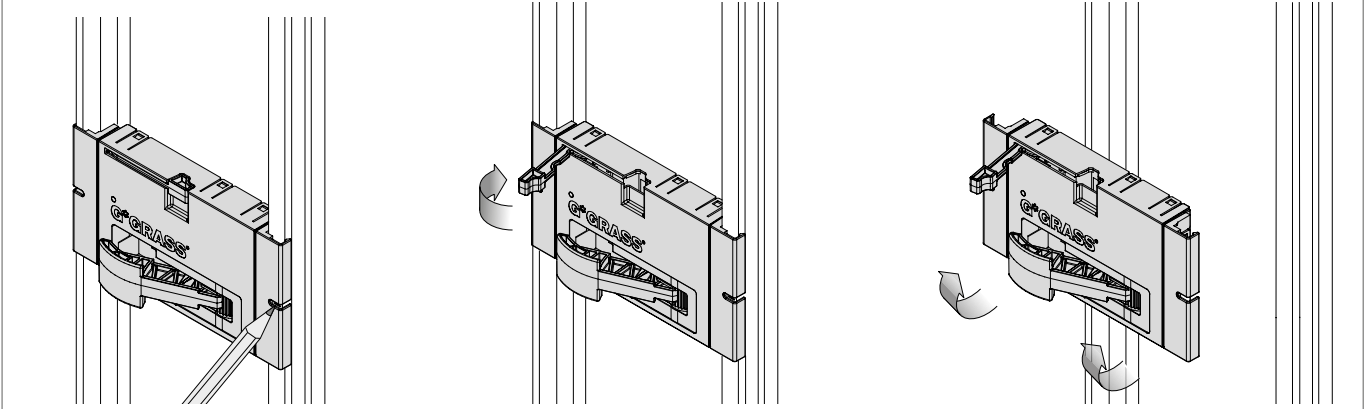
SYNK Synchronisation cable
TL Traverse length

SENSOMATIC

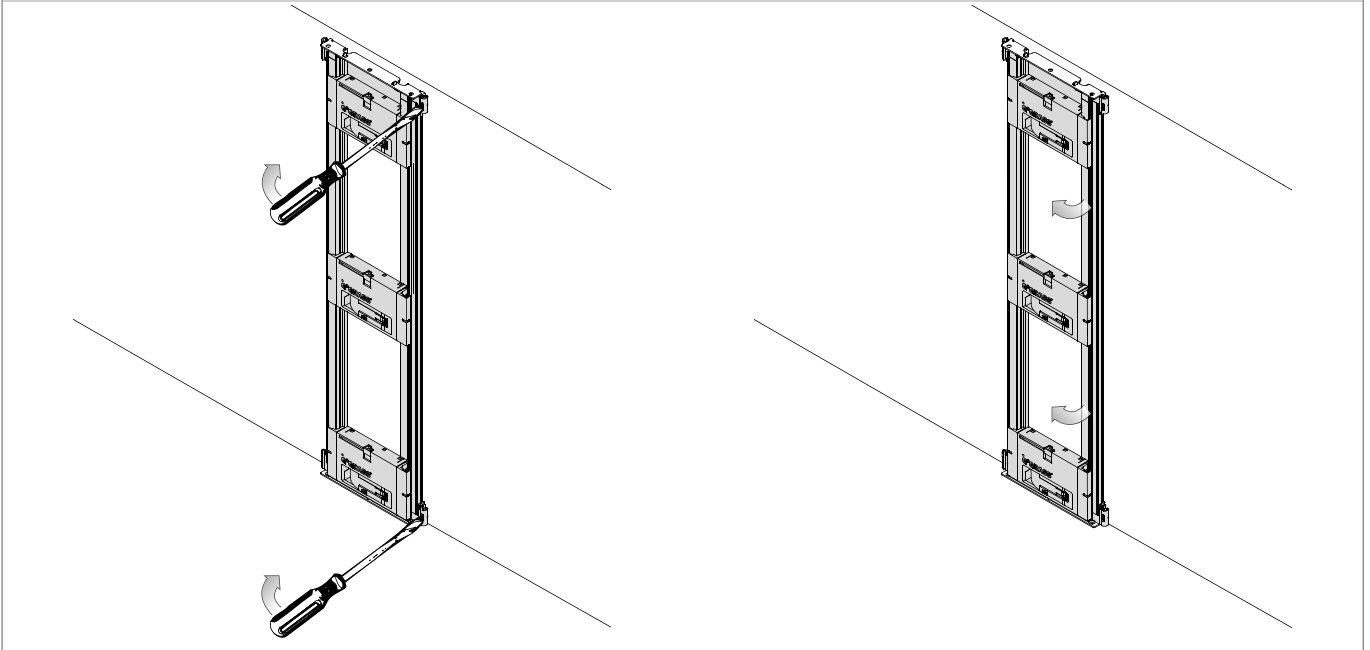
Removal instructions

DISMANTLING INSTRUCTIONS

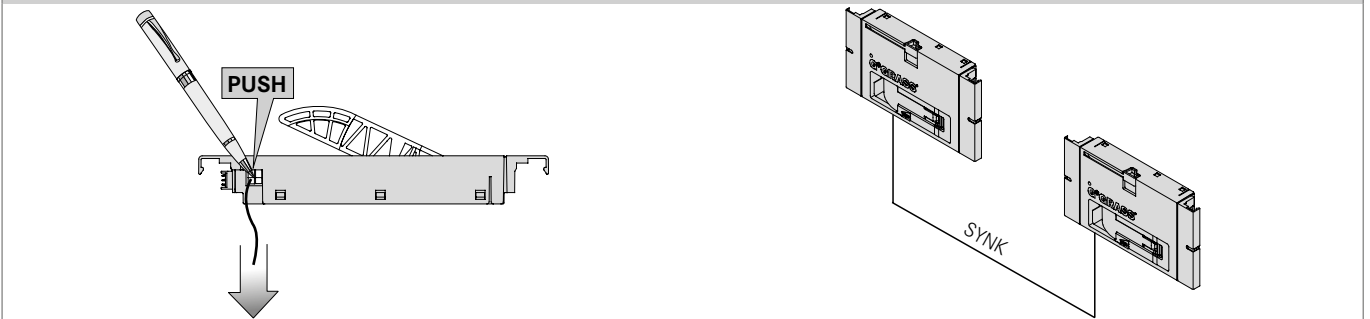
Removal of the drive unit



Removal of the frame sides



Removal of the synchronisation cable

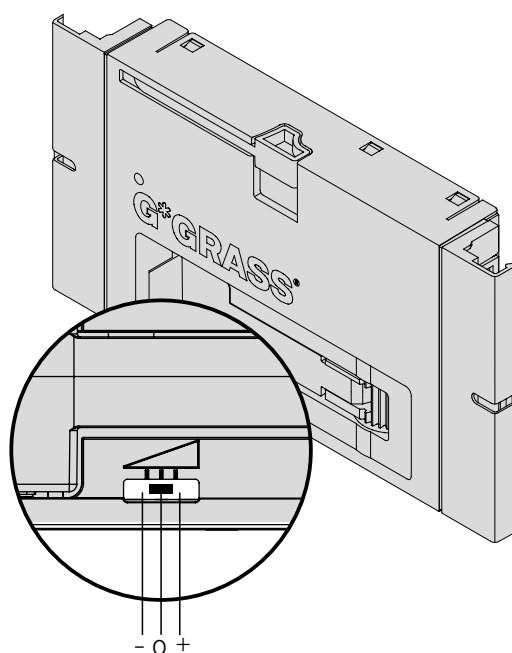


PAGE REFERENCES

Horizontal wooden stretcher	348	Back panel mounting	354	Slides	310
Vertical wooden stretcher	350	Base panel mounting	356	Assembly aids	342
Overhead mounting	352	Side panel mounting	358		

ADJUSTMENT

Variable drive force



NOTICE

- The cabinet must be level
- The system must be disconnected from the power supply for installation and removal!
- Provide switched sockets
- For a cabinet width of 1200 mm and above, we recommend using 2 drive units. The synchronisation cable ensures that these units are activated simultaneously
- **Important:**
No screws may be inserted in the drawer back panel near the drive lever
- Up to 30 drive units can be operated per power supply unit

PROOF OF PERFORMANCE


- **Application area**
Only in dry, closed spaces
- **Power supply unit**
Power supply: 100 to 240 V
Mains frequency: 50 to 60 Hz
Max. power output: 230 W
- **Drive unit**
Power supply: 24 V
- **Operating conditions**
Temperature: 0 to 50°C
Air humidity: 15 to 90%
Non-condensing

LEGEND

SYNK Synchronisation cable

The innovative
slide system for
30 kg load capacity.

dyna neo.

 No matter whether they are full or single extension slides. Dynaneo is an efficient movement system for anyone who does not want to compromise, even with a load capacity of 30 kg.

For handle-free opening, Dynaneo offers an integrated Tipmatic function, which can be optimally extended with a synchronisation rod. This guarantees reliable triggering across the entire front.

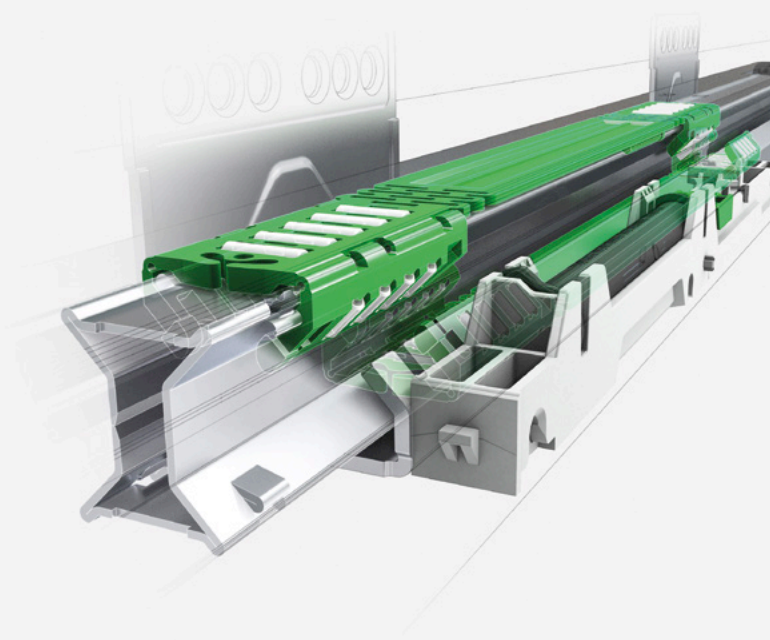


FOLLOW US



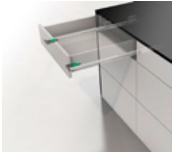
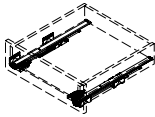
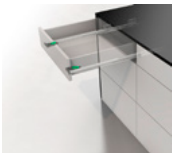

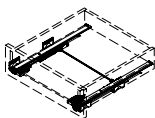

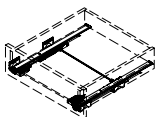

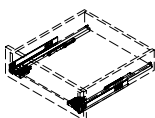

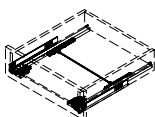
Simple. Good. Economical.

High-quality plastic rollers and a newly developed centre rail ensure smooth running and maximum stability. Combined with the Soft-close damping technology, which has been proven millions of times over, and the extremely low pull-out forces, Dynaneo offers the best possible performance in the mid-range entry level segment



Dynaneo Slide System

Full and single extension slide for 30 kg load capacity with integrated height and side adjustment. Slide-on assembly.

	Description		Page
	Dynaneo Soft-close EB 21 Full extension slide 30 kg <ul style="list-style-type: none"> • Soft-close damping system • Tool-free 2-dimensional adjustment (height and side adjustment) • Slide-on assembly 		366
	Dynaneo Soft-close EB 24 Full extension slide 30 kg <ul style="list-style-type: none"> • Soft-close damping system • Tool-free 2-dimensional adjustment (height and side adjustment) • Slide-on assembly 		368
	Dynaneo Tipmatic EB 21 Full extension slide 30 kg <ul style="list-style-type: none"> • Tipmatic opening system • Tool-free 3-dimensional adjustment (height, side and depth adjustment) • Slide-on assembly 		370
	Dynaneo Tipmatic EB 24 Full extension slide 30 kg <ul style="list-style-type: none"> • Tipmatic opening system • Tool-free 3-dimensional adjustment (height, side and depth adjustment) • Slide-on assembly 		372
	Dynaneo Soft-close EB 21 Single extension slide 30 kg <ul style="list-style-type: none"> • Soft-close damping system • Tool-free 1-dimensional adjustment (height adjustment) • Slide-on assembly 		374
	Dynaneo Tipmatic EB 21 Single extension slide 30 kg <ul style="list-style-type: none"> • Tipmatic opening system • Tool-free 2-dimensional adjustment (height and depth adjustment) • Slide-on assembly 		376
	Dynaneo Technical information		378
	Dynaneo Assembly aids		380

1

2

3

4

DYNANEO SOFT-CLOSE EB 21

Full extension slide 30 kg



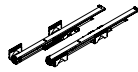
- Full extension slide for max. 16 mm drawer sides
- 30 kg load capacity
- Excellent running characteristics
- Low extension resistance
- Soft-close damping system
- Tool-free 1D or 2D adjustment option:
 - Height adjustment: + 3 mm
 - Side adjustment +/- 1 mm

Notice:

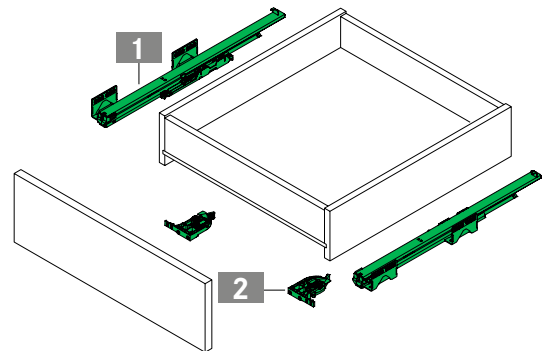
- Use with max. 16 mm drawer sides
- Installation width 21 mm
- See planning dimensions

ORDER INFORMATION

1 Dynaneo Full extension slide 30 kg Soft-close EB 21				
NL	30 kg		30 kg	
	Left, Right	Left	Right	
250	F137140887	F137140888	F137140889	
270	F137140890	F137140891	F137140892	
300	F137140893	F137140894	F137140895	
320	F137140896	F137140897	F137140898	
350	F137140899	F137140900	F137140901	
380	F137140902	F137140903	F137140904	
400	F137140905	F137140906	F137140907	
420	F137140908	F137140909	F137140910	
450	F137140911	F137140912	F137140913	
480	F137140914	F137140915	F137140916	
500	F137140917	F137140918	F137140919	
520	F137140920	F137140921	F137140922	
550	F137140923	F137140924	F137140925	
600	F137140926	F137140927	F137140928	



2 Front locking device			
Adjustable	Left, Right	Left	Right
1D	F137140881	F137140882	F137140883
2D	F137140884	F137140885	F137140886



PAGE REFERENCES

Technical information	378				
Assembly aids	380				

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions

$LWS = (LWK - 42)^{+0.5}_{-1.0}$
min. LWS = 145 mm (1D)
152 mm (2D)

Drawer

$SKL = (NL - 10)^{0}_{-0.5}$
min. 12

$MET = NL + 5$

Inset drawer

$SKL = (NL - 10)^{0}_{-0.5}$
min. 12

$MET = NL + 23$

NL	SKL	MET
250	240	255
270	260	275
300	290	305
320	310	325
350	340	355
380	370	385
400	390	405
420	410	425
450	440	455
480	470	485
500	490	505
520	510	525
550	540	555
600	590	605

Mounting position for front locking device

Back panel hole

Attachment positions for full extension slide

Euro screw $\text{Ø } 6,3 \times 14 \text{ mm}$
 Chipboard screws $\text{Ø } 4 \times 16 \text{ mm}$
 Head diameter 7 mm

LEGEND

<p>EB Installation width</p> <p>HV Height adjustment</p> <p>KV Front edge of cabinet</p> <p>LWK Inside cabinet width</p>	<p>LWS Inside drawer width</p> <p>MET Minimum installation depth</p> <p>NL Nominal length</p> <p>SKL Drawer length</p>	<p>SV Lateral adjustment</p>
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DYNANEO SOFT-CLOSE EB 24

Full extension slide 30 kg




- Full extension slide for max. 19 mm drawer sides
- 30 kg load capacity
- Excellent running characteristics
- Low extension resistance
- Soft-close damping system
- Tool-free 1D or 2D adjustment option:
 - Height adjustment: + 3 mm
 - Side adjustment +/- 1 mm

Notice:

- Use with max. 19 mm drawer sides
- Installation width 24 mm
- See planning dimensions


ORDER INFORMATION

1 Dynaneo Full extension slide 30 kg Soft-close EB 24

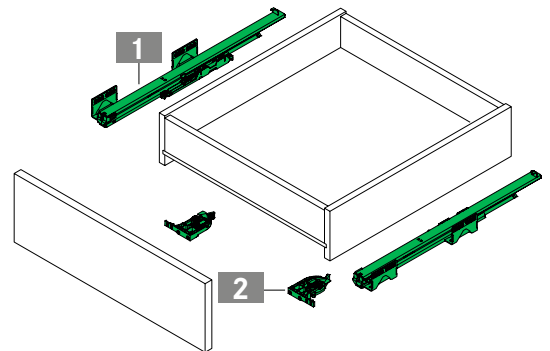


NL	30 kg	30 kg	30 kg
	Left, Right	Left	Right
250	F137140929	F137140930	F137140931
270	F137140932	F137140933	F137140934
300	F137140935	F137140936	F137140937
350	F137140938	F137140939	F137140940
400	F137140941	F137140942	F137140943
450	F137140944	F137140945	F137140946
500	F137140947	F137140948	F137140949
550	F137140950	F137140951	F137140952
600	F137140953	F137140954	F137140955

2 Front locking device



Adjustable	Left, Right	Left	Right
1D	F137140881	F137140882	F137140883
2D	F137140884	F137140885	F137140886



PAGE REFERENCES

Technical information	378			
Assembly aids	380			

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions

$LWS = (LWK - 48)^{+0.5}_{-1.0}$
min. LWS = 145 mm (1D)
152 mm (2D)

$LWS = (LWK - 48)^{+0.5}_{-1.0}$

Drawer

$SKL = (NL - 10)^{0}_{-0.5}$
min. 12

$MET = NL + 5$

Inset drawer

$SKL = (NL - 10)^{0}_{-0.5}$
min. 12

$MET = NL + 23$

NL	SKL	MET
250	240	255
270	260	275
300	290	305
350	340	355
400	390	405
450	440	455
500	490	505
550	540	555
600	590	605

Mounting position for front locking device

HV +3.0 mm
SV +/-1 mm

Back panel hole

Ø 6 x 10

Attachment positions for full extension slide

$MET = NL + 5$

30 kg

Euro screw Ø 6,3 x 14 mm
Chipboard screws Ø 4 x 16 mm
Head diameter 7 mm

LEGEND

EB	Installation width	LWS	Inside drawer width	SV	Lateral adjustment
HV	Height adjustment	MET	Minimum installation depth		
KV	Front edge of cabinet	NL	Nominal length		
LWK	Inside cabinet width	SKL	Drawer length		



DYNANEO TIPMATIC EB 21

Full extension slide 30 kg



- Full extension slide for max. 16 mm drawer sides
- 30 kg load capacity
- Excellent running characteristics
- Integrated Tipmatic function for handle-free fronts
- Tool-free front gap adjustment ± 1 mm
- Tool-free 1D or 2D adjustment option:
 - Height adjustment: + 3 mm
 - Side adjustment ± 1 mm

Notice:

- Use with max. 16 mm drawer sides
- Installation width 21 mm
- See planning dimensions
- Recommendations: Optional Tipmatic synchronisation for reliable triggering across the entire front

ORDER INFORMATION

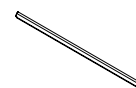
1 Dynaneo Full extension slide 30 kg Tipmatic EB 21				
NL	30 kg		30 kg	
	Left, Right	Left	Right	
250	F137140983	F137140984	F137140985	
270	F137140986	F137140987	F137140988	
300	F137140989	F137140990	F137140991	
320	F137140992	F137140993	F137140994	
350	F137140995	F137140996	F137140997	
380	F137140998	F137140999	F137141000	
400	F137141001	F137141002	F137141003	
420	F137141004	F137141005	F137141006	
450	F137141007	F137141008	F137141009	
480	F137141010	F137141011	F137141012	
500	F137141013	F137141014	F137141015	
520	F137141016	F137141017	F137141018	
550	F137141019	F137141020	F137141021	
600	F137141022	F137141023	F137141024	



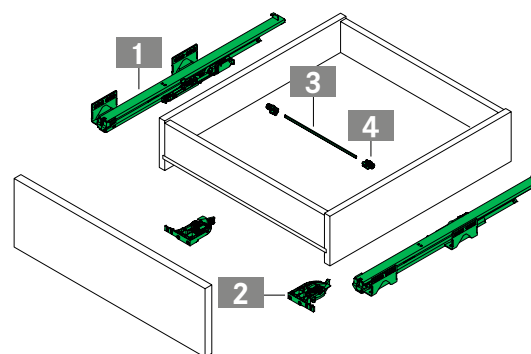
2 Front locking device			
Adjustable	Left, Right	Left	Right
1D	F137140881	F137140882	F137140883
2D	F137140884	F137140885	F137140886



3 Dynaneo Tipmatic Synchronisation rod Piece		
KB	Length of synchronisation rod	Art. no.
1200	1046	F137141214



4 Dynaneo Tipmatic Synchronisation rod holder for full-extension slide Piece: Left or right	
Type of assembly	Art. no.
To clip-on	F137141667



PAGE REFERENCES

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Assembly aids	380			

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions

Drawer

Inset drawer

NL	SKL	MET
250	240	255
270	260	275
300	290	305
320	310	325
350	340	355
380	370	385
400	390	405
420	410	425
450	440	455
480	470	485
500	490	505
520	510	525
550	540	555
600	590	605

Mounting position for front locking device

Back panel hole

Synchronisation rod

NL	A
250 - 320	179
350 - 480	225
500 - 650	281

Attachment positions for full extension slide

Euro screw Ø 6,3 x 14 mm

Chipboard screws Ø 4 x 16 mm

Head diameter 7 mm

LEGEND

<p>EB Installation width</p> <p>FS Front gap</p> <p>HV Height adjustment</p> <p>KB Cabinet width</p>	<p>KV Front edge of cabinet</p> <p>LWK Inside cabinet width</p> <p>LWS Inside drawer width</p> <p>MET Minimum installation depth</p>	<p>NL Nominal length</p> <p>SKL Drawer length</p> <p>SV Lateral adjustment</p>
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DYNANEO TIPMATIC EB 24

Full extension slide 30 kg



- Full extension slide for max. 19 mm drawer sides
- 30 kg load capacity
- Excellent running characteristics
- Integrated Tipmatic function for handle-free fronts
- Tool-free front gap adjustment ± 1 mm
- Tool-free 1D or 2D adjustment option:
 - Height adjustment: + 3 mm
 - Side adjustment ± 1 mm

Notice:

- Use with max. 19 mm drawer sides
- Installation width 24 mm
- See planning dimensions
- Recommendations: Optional Tipmatic synchronisation for reliable triggering across the entire front

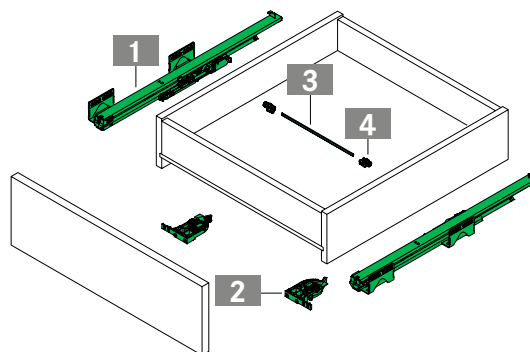
ORDER INFORMATION

1	Dynaneo Full extension slide 30 kg Tipmatic EB 24			
	30 kg	30 kg	30 kg	
NL	Left, Right	Left	Right	
250	F137141025	F137141026	F137141027	
270	F137141028	F137141029	F137141030	
300	F137141031	F137141032	F137141033	
350	F137141034	F137141035	F137141036	
400	F137141037	F137141038	F137141039	
450	F137141040	F137141041	F137141042	
500	F137141043	F137141044	F137141045	
550	F137141046	F137141047	F137141048	
600	F137141049	F137141050	F137141051	

2	Front locking device			
	Adjustable	Left, Right	Left	Right
1D	F137140881	F137140882	F137140883	
2D	F137140884	F137140885	F137140886	

3	Dynaneo Tipmatic Synchronisation rod Piece		
	KB	Length of synchronisation rod	Art. no.
1200	1034	F137141215	

4	Dynaneo Tipmatic Synchronisation rod holder for full-extension slide Piece: Left or right		
	Type of assembly	Art. no.	
	To clip-on	F137141667	



PAGE REFERENCES

Technical information	378			
Assembly aids	380			

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions

Drawer

Inset drawer

	NL	SKL	MET
	250	240	255
	270	260	275
	300	290	305
	350	340	355
	400	390	405
	450	440	455
	500	490	505
	550	540	555
	600	590	605

Mounting position for front locking device

Back panel hole

Synchronisation rod

NL	A
250 - 320	179
350 - 480	225
500 - 650	281

Attachment positions for full extension slide

Euro screw Ø 6,3 x 14 mm

Chipboard screws Ø 4 x 16 mm

Head diameter 7 mm

LEGEND

<p>EB Installation width</p> <p>FS Front gap</p> <p>HV Height adjustment</p> <p>KB Cabinet width</p>	<p>KV Front edge of cabinet</p> <p>LWK Inside cabinet width</p> <p>LWS Inside drawer width</p> <p>MET Minimum installation depth</p>	<p>NL Nominal length</p> <p>SKL Drawer length</p> <p>SV Lateral adjustment</p>
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DYNANEO SOFT-CLOSE EB 21

Single extension slide 30 kg




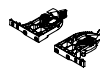
- Single extension slide for max. 16 mm drawer sides
- 30 kg load capacity
- Excellent running characteristics
- Low extension resistance
- Soft-close damping system
- Tool-free 1D adjustment option:
 - Height adjustment: + 3 mm

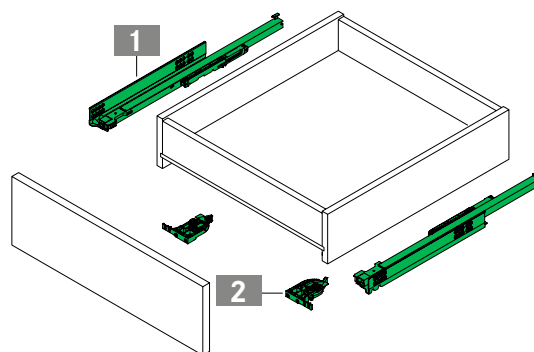
Notice:

- Use with max. 16 mm drawer sides
- Installation width 21 mm
- See planning dimensions

ORDER INFORMATION

1	Dynaneo Single extension slide 30 kg Soft-close EB 21			
	EB 21			
	Piece			
				
	30 kg	30 kg		
NL	Left	Right		
270	F137141093	F137141094		
300	F137141096	F137141097		
350	F137141102	F137141103		
400	F137141108	F137141109		
450	F137141114	F137141115		
500	F137141120	F137141121		
550	F137141126	F137141127		
600	F137141129	F137141130		

2	Front locking device			
				
	Adjustable	Left, Right	Left	Right
1D		F137140881	F137140882	F137140883

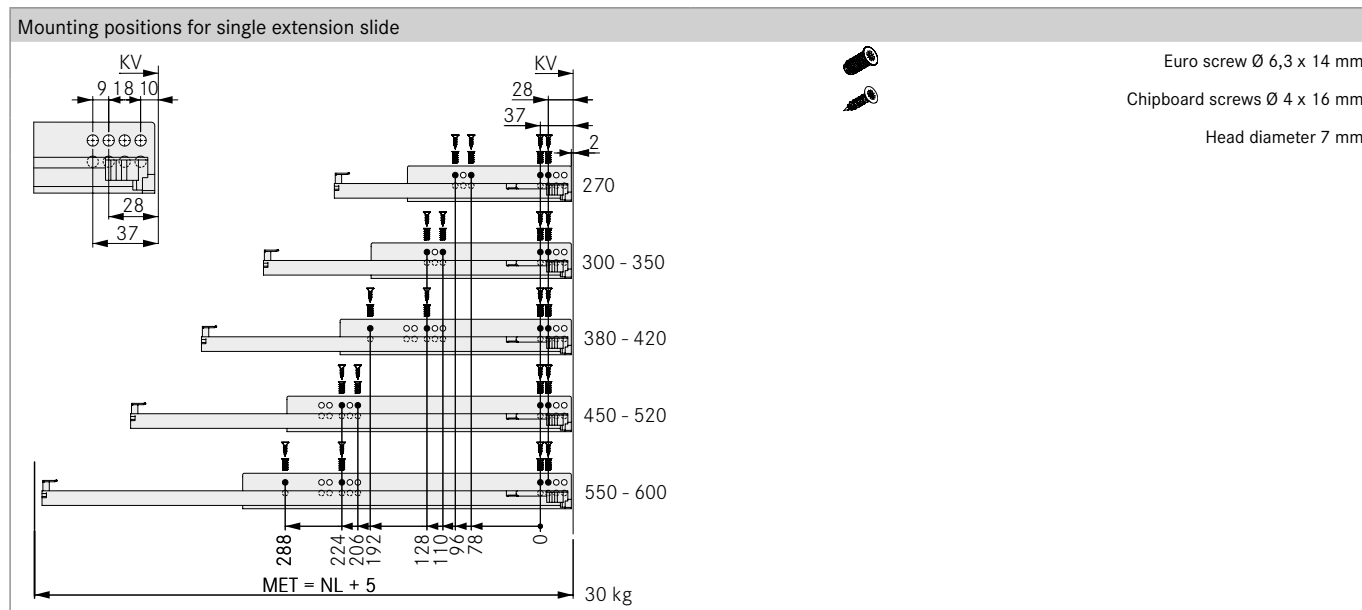
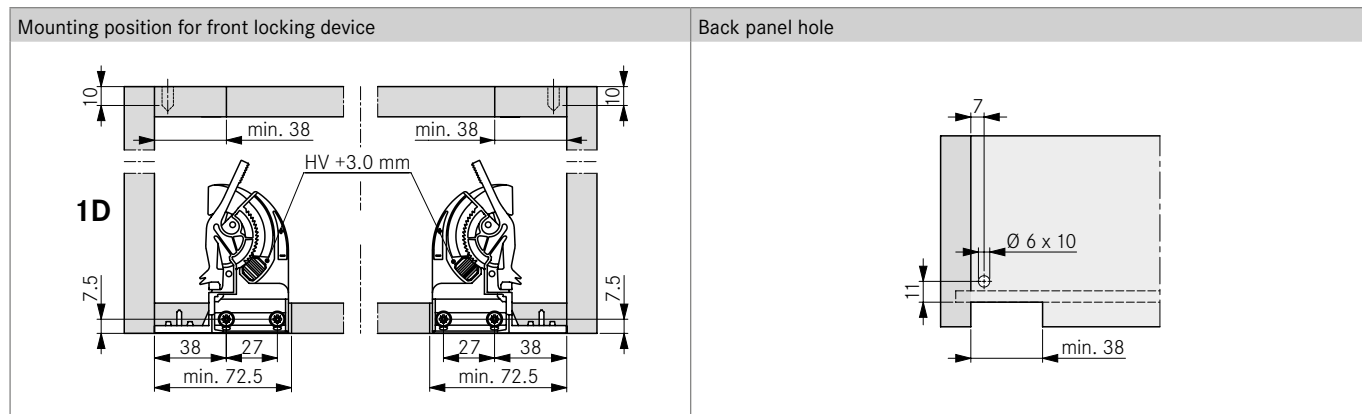
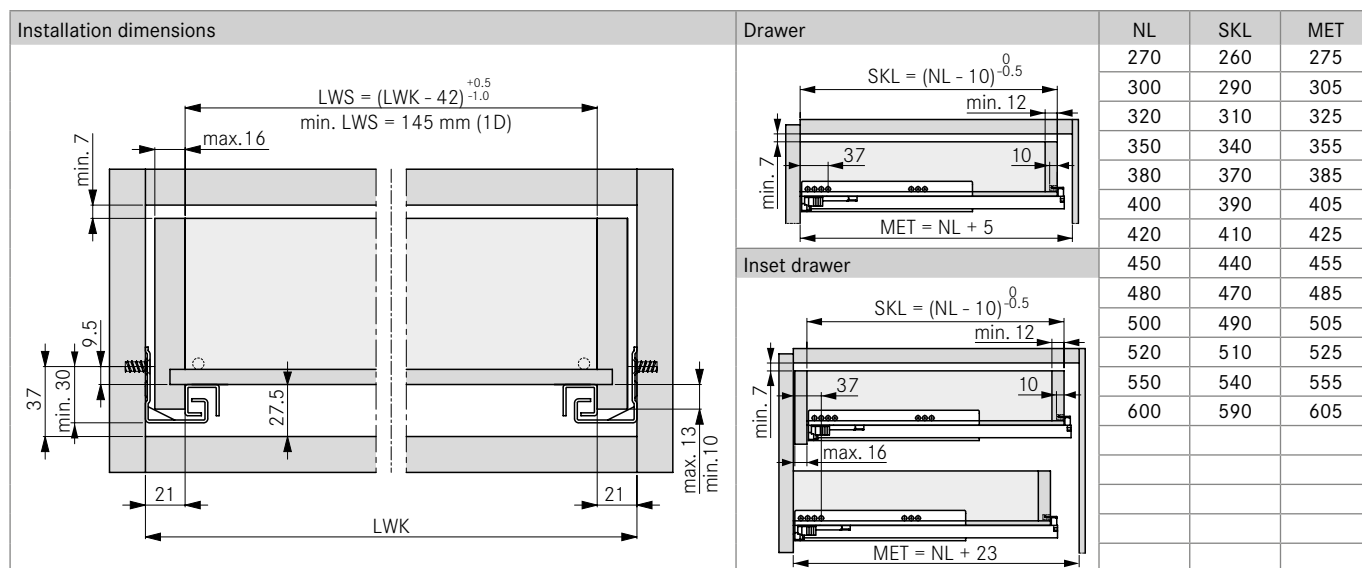


PAGE REFERENCES

Technical information	378				
Assembly aids	380				

PLANNING INFORMATION

All dimensions in millimetres



LEGEND

EB	Installation width	LWS	Inside drawer width	SV	Lateral adjustment
HV	Height adjustment	MET	Minimum installation depth		
KV	Front edge of cabinet	NL	Nominal length		
LWK	Inside cabinet width	SKL	Drawer length		

DYNANEO TIPMATIC EB 21

Single extension slide 30 kg



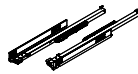
- Single extension slide for max. 16 mm drawer sides
- 30 kg load capacity
- Excellent running characteristics
- Integrated Tipmatic function for handle-free fronts
- Tool-free front gap adjustment +4/-1 mm
- Tool-free 1D adjustment option:
- Height adjustment: + 3 mm

Notice:

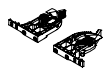
- Use with max. 16 mm drawer sides
- Installation width 21 mm
- See planning dimensions
- Recommendations: Optional Tipmatic synchronisation for reliable triggering across the entire front

ORDER INFORMATION

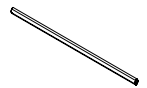
1 Dynaneo Single extension slide 30 kg Tipmatic EB 21 Piece				
NL	30 kg	30 kg		
	Left	Right		
270	F137141132	F137141133		
300	F137141135	F137141136		
350	F137141141	F137141142		
400	F137141147	F137141148		
450	F137141153	F137141154		
500	F137141159	F137141160		
550	F137141165	F137141166		
600	F137141168	F137141169		



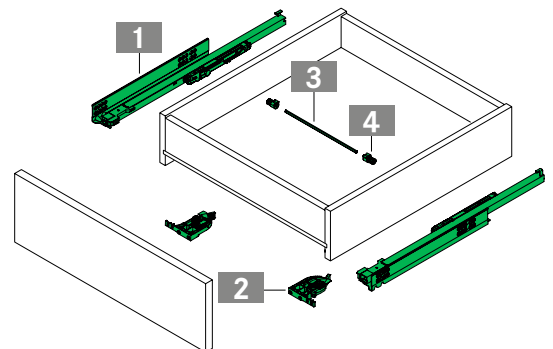
2 Front locking device			
Adjustable	Left, Right	Left	Right
1D	F137140881	F137140882	F137140883



3 Dynaneo Tipmatic Synchronisation rod Piece		
KB	Length of synchronisation rod	Art. no.
1200	1060	F137141213



4 Dynaneo Tipmatic Synchronisation rod holder for single extension slide Piece: Left or right	
Type of assembly	Art. no.
To clip-on	F137141216



PAGE REFERENCES

Technical information	378			
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PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions

Drawer

Inset drawer

NL	SKL	MET
270	260	275
300	290	305
320	310	325
350	340	355
380	370	385
400	390	405
420	410	425
450	440	455
480	470	485
500	490	505
520	510	525
550	540	555
600	590	605

Mounting position for front locking device

Back panel hole

Cutting dimensions for synchronisation rod

Mounting positions for single extension slide

Euro screw Ø 6,3 x 14 mm

Chipboard screws Ø 4 x 16 mm

Head diameter 7 mm

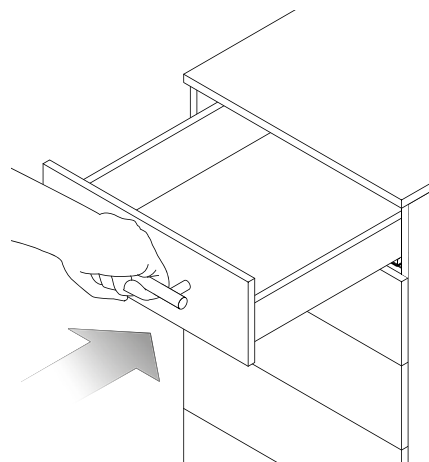
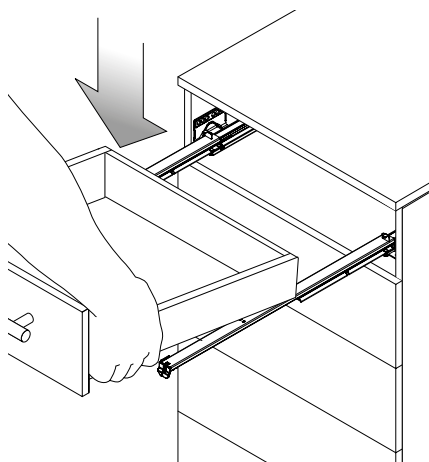
LEGEND

EB Installation width	KV Front edge of cabinet	NL Nominal length
FS Front gap	LWK Inside cabinet width	SKL Drawer length
HV Height adjustment	LWS Inside drawer width	SV Lateral adjustment
KB Cabinet width	MET Minimum installation depth	

PLANNING INFORMATION

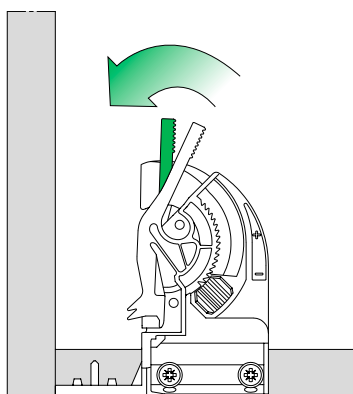
Inserting the drawer

Place the drawer on the extended slides and slide in until it audibly engages.



Removing the drawer

Pull out the drawer, actuate the lever of the front locking device on both sides and pull the drawer forwards, away from the slide.



NOTICE

Mounting of cabinet rails:

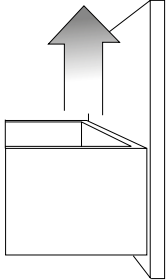
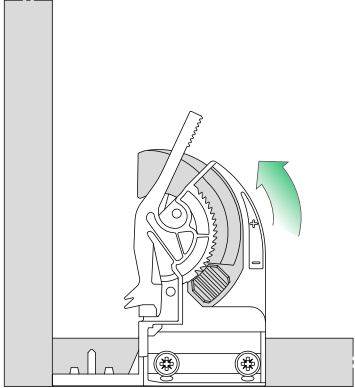
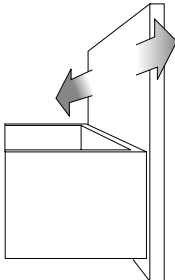
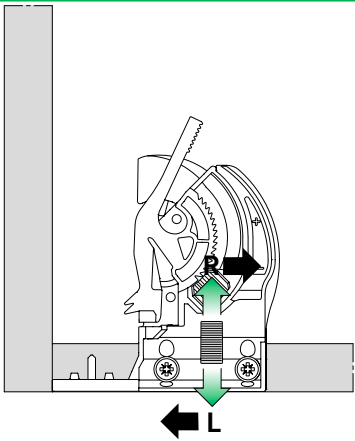
The screw recommendations are intended for reference.

Assemblers must ensure that the substrate material is thick enough.

PAGE REFERENCES

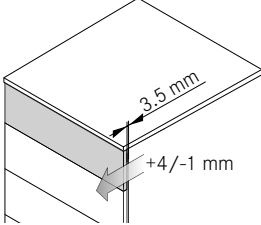
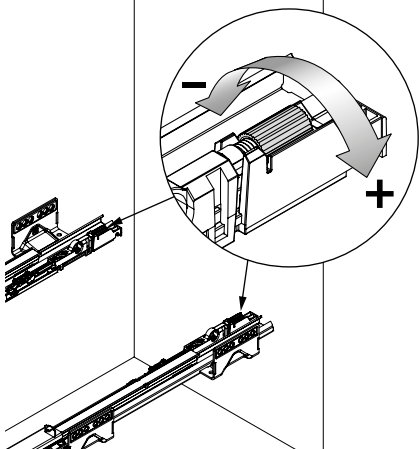
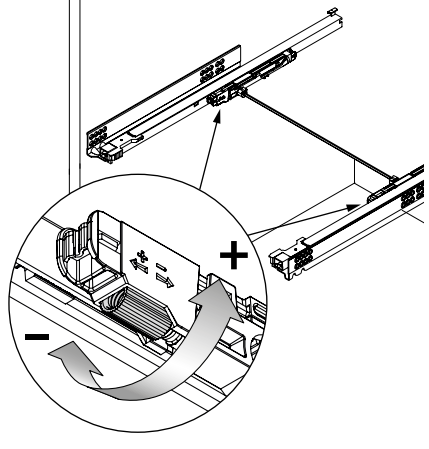
Dynaneo	365		
Assembly aids	380		

ADJUSTMENT

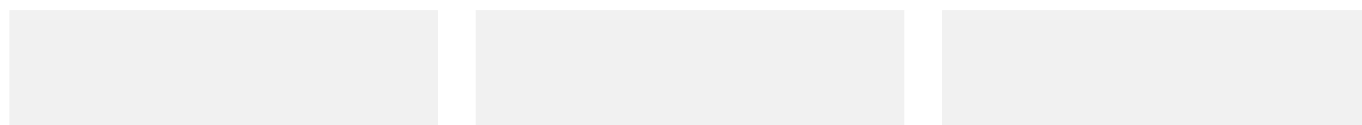
<p>Height adjustment (max. +3 mm)</p> 	<p>Front locking device 1D/2D</p> 	
<p>Side adjustment (max. +/-1 mm)</p> 	<p>Front locking device 2D</p> 	

- 1
- 2
- 3
- 4

DYNANEO TIPMATIC

<p>Front gap adjustment (+4 mm/-1 mm)</p> <p>The reliable opening and closing of the drawer depends on the front gap adjustment (3.5 mm = factory setting). If the front height is greater than 300 mm, the front gap must be increased to the maximum of 7.5 mm.</p> 	<p>Front gap adjustment for full extension slide</p> 	<p>Front gap adjustment for single extension slide</p> 
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LEGEND



ASSEMBLY AIDS

Dynaneo



DRILLING JIG FOR CABINET RAIL

- For use with pilot drill bit F146035692

Art. no.
F146134452



DRILLING JIG, DRAWER

- Pre-drilling of holes for:
Dynapro/Dynaneo front locking device
Hook-in device
- For use with pilot drill bit F146035692

Compatible with	Art. no.
Dynaneo front locking device 1D/2D	F146133145
Dynapro front locking device 1D	
Dynapro front locking device 2D/3D	
Vionaro V8 front locking device	
Dynaneo hook placement Dynapro adjustment adapter	



WOOD DRILL BIT WITH STOP RING

- Used for pre-drilling holes for Euro screws
- Length 85 mm
- With stop ring

Diameter	Art. no.
5 mm	F146092594



PILOT DRILL BIT

- The pilot drill bit is used for pre-drilling holes for countersunk chipboard screws

Diameter	Art. no.
3.5 mm	F146035692

PAGE REFERENCES

Dynaneo	365		
Technical information	378		



SCREWDRIVER

- GRASS cross-head screwdriver (Pozidriv no. 2)

Product type	Art. no.
Screwdriver	F147010256



SPECIAL EURO SCREWS

- Steel, nickel-plated, for screwing into a pre-drilled hole system dia. 5 mm (Pozidriv recessed head no. 2)

Nominal diameter x screw length	Art. no.
6.3 x 14 mm	F148115049

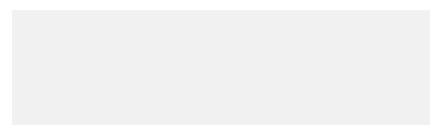
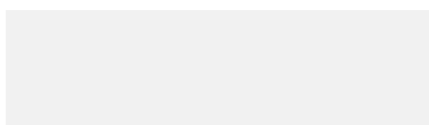
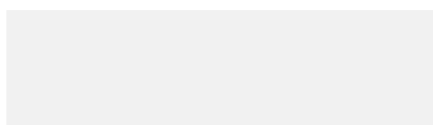
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LEGEND



Versatile hinges for every furniture door.

G What makes our hinge systems so special is their elegant and safe design for use with furniture doors, their smooth movement when opened and their gentle damping when closed.



Complete damping comfort for glass and mirror doors. In addition to the clever fastening technology that ensures firm and stable support, Tiomos Mirro is an extremely elegant solution for mirror and glass doors that combines all the advantages of the proven Tiomos hinge generation.

There are no limits to your creativity with our hinge systems, no matter whether it's for wood, glass, mirror or thin doors, aluminium frame doors, doors with mitres on all four sides, rebated doors, doors with or without handles, inset or overlay doors, doors with invisible or screw mounting, or doors with Tipmatic or Soft-close.




Tiomos Hidden.
The almost invisible hinge.



Hinge systems for trade

GRASS hinge systems offer the perfect movement solution for almost any application.

	<p>Tiomos 387</p> <p>The overall aspiration of the range leaves nothing to be desired. Tiomos hinge system for all standard and special applications.</p>	1
	<p>Tiomos M Series 441</p> <p>The comfortable hinge generation for greater freedom in design. For mirror doors, glass doors, thin doors and much more.</p>	2
	<p>Nexis 477</p> <p>Proven hinge systems. Functionality meets high operating comfort.</p>	3
	<p>Special Hinges 547</p> <p>Individual special solutions such as the Tiomos Hidden concealed hinge system or flap hinges for drinks compartment flaps.</p>	4
	<p>Single-Joint Hinges 559</p> <p>Particularly wide-opening, solid metal hinges for individual or continuous cabinet construction. Space-saving. Flexible. Functional.</p>	
	<p>Assembly Technology 575</p> <p>Installation and assembly aids. Tried-and-tested technology for professional efficiency.</p>	
	<p>Cabinet Making Accessories 597</p> <p>Small components with a big effect. Shelf supports, connecting screws, shelf brackets etc.</p>	

Soft-close _inside.

The entire damper system is concealed within the hinge arm.



To increase the damping level, the adjustment lever is turned 90° clockwise.



Tiomos hinges leave the factory with the adjustment lever in the horizontal position.



For gentler closing action, the adjustment of the Soft-close damper is turned 90° anticlockwise.

Three levels for individual comfort.

In addition to its many special functions, timeless design and unique character, Tiomos offers the highest level of variable operating comfort. The force of the Soft-close damper can be easily adjusted to your individual requirements with a simple turn of the lever.



A current trend in furniture construction is dark, high-quality finishes that continue into the furniture interior. Tiomos series hinges in the Night colour option provide the perfect match for this furniture design aesthetic.

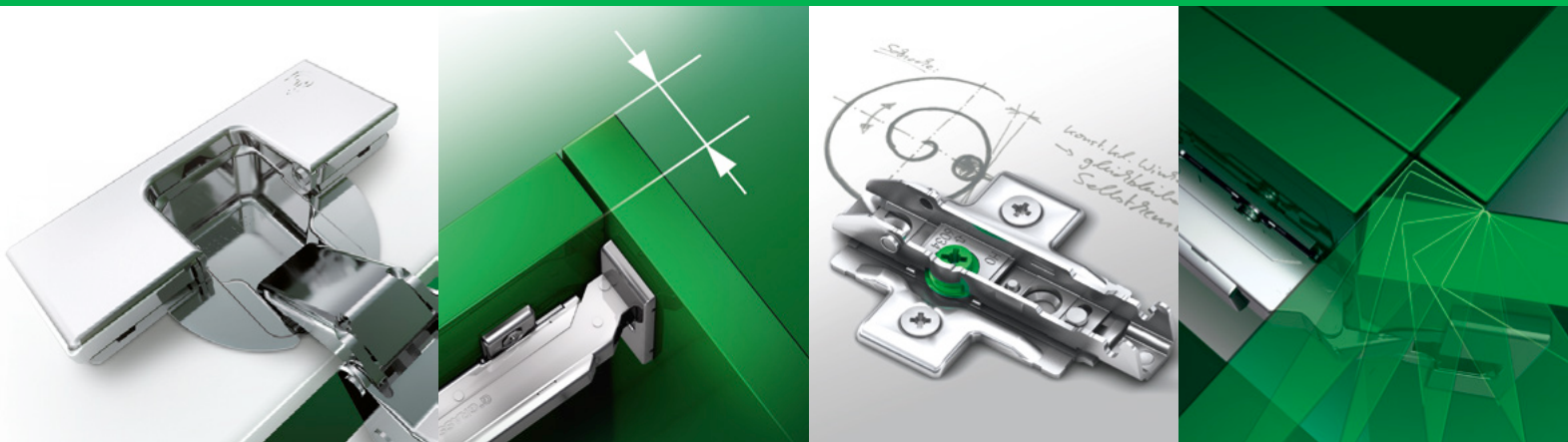


You can tell the quality of a hinge system by how long a hinge will function without developing a fault and how much it will drop under load. Tiomos achieves exceptionally positive values in tests for durability and dropping under load.

Tiomos Hinge System

In most cases, a masterpiece is the summation of many small strokes of genius. Tiomos is the best example to prove the point.

One of the outstanding characteristics of the hinge system is the Soft-close closing damper, which features stepwise adjustment and is fully concealed within the hinge arm. The complex inner workings of this high-tech hinge are hidden from view, much like a Swiss clock movement, and are sure to impress with their unique damping characteristics. The closing process in each movement phase is smooth and completely seamless. And this is the case from an opening angle of 20°, irrespective of the size and weight of the door.



Every function has been completely redesigned and redeveloped from the bottom up.

Tiomos offers greater scope for creative design in furniture construction. The hinge system enables full-overlay doors up to 24 mm, ensures a stable connection thanks to the 30 % larger contact area, and provides a matching design for combinations of hinges with and without Soft-close. In addition to the damping system, Tiomos hinges can also be optionally fitted with a self-opening mechanism.

Perfect front panel alignment in an instant.

The Tiomos hinge system offers three movement dimensions for fine adjustment: Stepless, self-locking depth adjustment by +3 to -2 mm using a worm screw. Height adjustment by +/- 2 mm. The overlay adjustment is +/- 2 mm with limit stop.

Another stroke of genius is the new kinematics inside Tiomos.

Thanks to physically optimised lever movements, furniture doors are extremely easy to open. In addition, this unique kinematic mechanism makes unprecedented alignment possible with minimum gaps. These special features of the new hinge system are particularly beneficial for furniture designers, as the reduced gaps and reveals open up completely new possibilities in furniture design.



reddot design award
honourable mention 2010

Maximum stability, integrated damping system, pure design.



FOLLOW US

tiomos series.

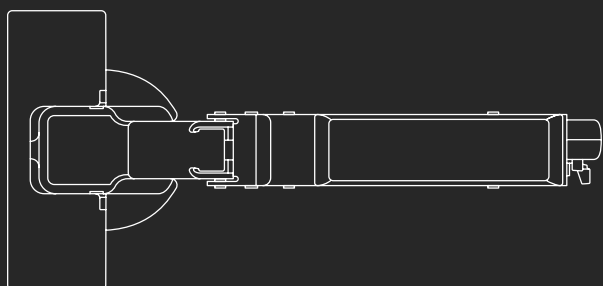
TI Consistent design solutions are only possible when all kinds of door applications can be covered by a single hinge system.



QUALITÄTS-ZERTIFIKAT
LGAD

Every detail and function has been completely redesigned and redeveloped from the bottom up. The result is an elegant hinge system that easily meets all technical and functional requirements and creates a sensation with special product details.

The systematically expanded Tiomos range extends from movement solutions for thin doors from 6 mm, mirror or aluminium frame doors to variable wide-angle applications, concealed hinges and Tiomos for drinks compartment flaps.



reddot design award
honourable mention 2010



Tiomos Hinge Systems

The hinge system with a modern design for all standard and special applications. With or without integrated damping system.

Opening angle		Description	Full overlay	Overlay	Half overlay	Inset	Page
110°		Tiomos 110 • Optimal reveal for door thicknesses up to 24 mm • Worm screw for convenient depth adjustment					390
110°		Tiomos Night 110 • Optimal reveal for door thicknesses up to 24 mm • Worm screw for convenient depth adjustment					392
120°		Tiomos 120 • Optimal reveal for door thicknesses up to 24 mm • Worm screw for convenient depth adjustment					394
155°		Tiomos 155 • Optimal reveal for door thicknesses up to 32 mm • Shallow cup depth • For cabinets with inset drawers or pull-out shelves					396
155°		Tiomos Night 155 • Optimal reveal for door thicknesses up to 32 mm • Shallow cup depth • For cabinets with inset drawers or pull-out shelves	-			-	398
95°		Tiomos 95 • Optimal reveal for door thicknesses up to 28 mm • Worm screw for convenient depth adjustment					400
95°		Tiomos Night 95 • Optimal reveal for door thicknesses up to 28 mm • Worm screw for convenient depth adjustment	-				402
110°		Tiomos 110 AL • Optimal reveal for aluminium frames up to a max. frame thickness of 24 mm and frame width of 22 mm • Hinge not visible from the outside					404
110°		Tiomos Night 110 AL • Optimal reveal for aluminium frames up to a max. frame thickness of 24 mm and frame width of 22 mm • Hinge not visible from the outside					406
110°		Tiomos 110/90A • Hinge for blind corner constructions • Worm screw for convenient depth adjustment	-		-	-	408
110°		Tiomos Night 110/90A • Hinge for blind corner constructions • Worm screw for convenient depth adjustment	-		-	-	410


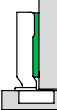

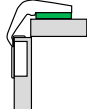


Tiomos

Hinge Systems

The hinge system with a modern design for all standard and special applications. With or without integrated damping system.

Opening angle		Description	Full overlay	Overlay	Half overlay	Inset	Page
110°		Tiomos 110/90E • Hinge for blind corner constructions • Worm screw for convenient depth adjustment	-	-	-		412
110°		Tiomos Night 110/90E • Hinge for blind corner constructions • Worm screw for convenient depth adjustment	-	-	-		414
110°		Tiomos 110/30A • For 30° angled cabinets • Worm screw for convenient depth adjustment	-		-	-	416
110°		Tiomos 110/30E • For 30° angled cabinets • Worm screw for convenient depth adjustment	-	-	-		418
110°		Tiomos 110/37A • For 37° angled cabinets • Worm screw for convenient depth adjustment	-		-	-	420
110°		Tiomos 110/37E • For 37° angled cabinets • Worm screw for convenient depth adjustment	-	-	-		422
110°		Tiomos 110/45A • For 45° angled cabinets • Worm screw for convenient depth adjustment	-		-	-	424
110°		Tiomos 110/45E • For 45° angled cabinets • Worm screw for convenient depth adjustment	-	-	-		426
120°		Tiomos 120/-15A • For -15° angled cabinets • Worm screw for convenient depth adjustment	-		-	-	428
120°		Tiomos 120/-30A • For -30° angled cabinets • Worm screw for convenient depth adjustment	-		-	-	430
120°		Tiomos 120/-45A • For -45° angled cabinets • Worm screw for convenient depth adjustment	-		-	-	432

Opening angle		Description	Full overlay	Overlay	Half overlay	Inset	Page
100°		Tiomos 100 <ul style="list-style-type: none"> • For fridge doors (sliding system) • Worm screw for convenient depth adjustment 		-	-	-	434
-		Tiomos PCC <ul style="list-style-type: none"> • For connecting two corner cabinet doors • Worm screw for convenient depth adjustment 	-		-	-	436

Tiomos mounting plates	456
Accessories	466
Technical information	470

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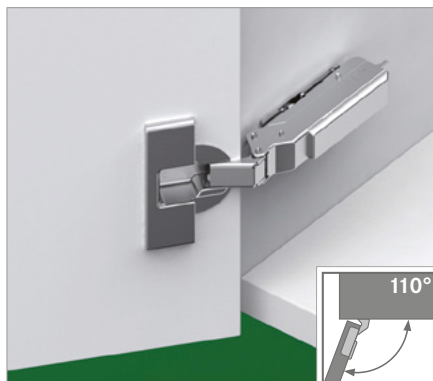
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TIOMOS 110

110° hinge (door thicknesses up to 24 mm)



- 110° opening angle
- Optimal reveal for door thicknesses up to 24 mm
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate

ORDER INFORMATION

Door position		Crank	Damper	Spring	Material	Click-on		Impresso
						Press-fit	Screw-on	Toolless
Full overlay		0	■	■	Steel	F028 138523	F028 1385 19	F017 1394 14
		0	-	■	Steel	F045 138461	F045 138457	F034 139385
		0	-	-	Steel		F046 138579¹	F035 139442¹
Overlay		3	■	■	Steel	F028 138524	F028 138520	F017 1394 15
		3	-	■	Steel	F045 138462	F045 138458	F034 139386
		3	-	-	Steel		F046 138580¹	F035 139443¹
Half overlay		9.5	■	■	Zamak/Steel	F028 138525	F028 138521	F017 1394 16
		9.5	-	■	Zamak/Steel	F045 138463	F045 138459	F034 139387
		9.5	-	-	Zamak/Steel		F046 138581¹	F035 139444¹
Inset		19	■	■	Zamak/Steel	F028 138526	F028 138522	F017 1394 17
		19	-	■	Zamak/Steel	F045 138464	F045 138460	F034 139388
		19	-	-	Zamak/Steel		F046 138582¹	F035 139445¹

¹Additionally Tipmatic Pin required

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Standard; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/3/9,5/14/19	F072 135500
	Hinge arm; Standard; Steel; Right; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072 135550
	Hinge arm; Standard; Steel; Left; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072 135551
	Hinge arm; With integrated clip protection; ABS; Left or right; Without Logo	Digital printing	Black	0/3/9,5/14/19	F072 140504
	Hinge cup; Standard; Steel; Left or right; Without Logo		Nickel		F072 135503

ACCESSORIES

	Designation	Art. no.
	Tipmatic pin, short, Light grey	F069 149392
	Tipmatic pin, long, Light grey	F069 149389

	Designation	Art. no.
	Tiomos Opening angle limiter, 85°	F072 135751
	Clip-off protection	F072 135807

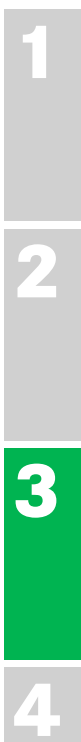
PAGE REFERENCES

Tiomos mounting plates	456	Tipmatic	542		
Accessories	466	Assembly technology	575		
Technical information	470	Assembly aids	580		

PLANNING INFORMATION

All dimensions in millimetres

Full overlay	K0	Overlay	K3	Half overlay	K9.5	Inset ¹	K19																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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MINIMUM GAP

MINIMUM JOINT

85° OPENING ANGLE

NOTICE

Door thickness	Cup distance				
	3	4	5	6	7
24.0	1.0	1.0	1.0	1.2 ²	2.1 ²
22.0	1.0	1.0	1.0	1.0	1.5 ²
21.0	1.0	1.0	1.0	1.0	1.2 ²
20.0	1.0	1.0	1.0	1.0	1.0
19.0	1.0	1.0	1.0	1.0	1.0
18.0	1.0	1.0	1.0	1.0	1.0
17.0	1.0	1.0	1.0	1.0	1.0
16.0	1.0	1.0	1.0	1.0	1.0
	Minimum gap				

Door thickness	Cup distance				
	3	4	5	6	7
24.0	2.4	2.1	2.1	2.1	2.0
22.0	1.6	1.6	1.6	1.5	1.5
21.0	1.4	1.3	1.3	1.3	1.3
20.0	1.1	1.1	1.1	1.1	1.1
19.0	0.9	0.9	0.9	0.9	0.9
18.0	0.7	0.7	0.7	0.7	0.7
17.0	0.6	0.6	0.6	0.6	0.6
16.0	0.6	0.6	0.6	0.6	0.6
	Minimum joint (F)				

Door thickness	Cup distance				
	3	4	5	6	7
36.0	11.1	10.3	9.7	9.1	8.5
30.0	5.4	4.8	4.4	4.3	4.2
28.0	3.7	3.6	3.5	3.4	3.3
26.0	2.9	2.8	2.8	2.7	2.6
24.0	2.2	2.1	2.1	2.1	2.0
22.0	1.6	1.6	1.6	1.5	1.5
21.0	1.4	1.3	1.3	1.3	1.3
20.0	1.1	1.1	1.1	1.1	1.1
19.0	0.9	0.9	0.9	0.9	0.9
18.0	0.7	0.7	0.7	0.7	0.7
16.0	0.6	0.6	0.6	0.6	0.6
	Minimum joint (F) ³ 85°				

The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can be opened without hindrance.

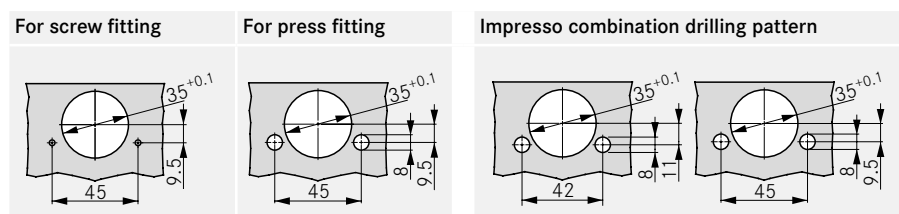
Minimum reveal for doors with chamfered edges (R = 1 mm) with factory setting.

A trial fitting is recommended for door thicknesses from 24 mm.

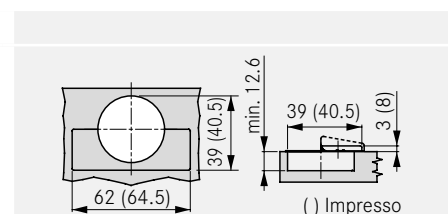
² 1.0 with 85° opening angle

³ 85° opening angle reduction clip

DRILLING PATTERNS

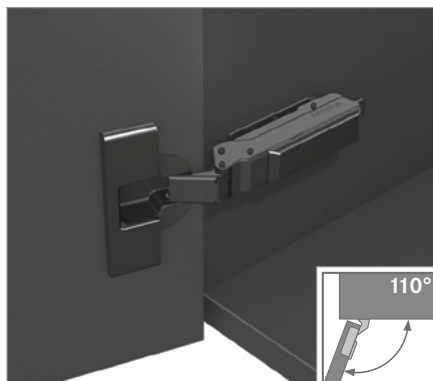


CUP DIMENSIONS



TIOMOS NIGHT 110

110° hinge (door thicknesses up to 24 mm)



- 110° opening angle
- Optimal reveal for door thicknesses up to 24 mm
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate
- Especially for dark cabinet materials and woods

ORDER INFORMATION

Door position		Crank	Damper	Spring	Material	Click-on	Screw-on	
Full overlay		0	■	■	Steel	F028 149492		
		3	■	■	Steel	F028 139 129		
		3	-	■	Steel	F045 140958		
Overlay		3	-	-	Steel	F046 149603¹		
		9.5	■	■	Zamak/Steel	F028 139 130		
		9.5	-	■	Zamak/Steel	F045 140952		
Half overlay		9.5	-	-	Zamak/Steel	F046 149604¹		
		19	■	■	Zamak/Steel	F028 139 131		
		19	-	■	Zamak/Steel	F045 140955		
Inset		19	-	-	Zamak/Steel	F046 149605¹		

¹Additionally Tipmatic Pin required

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Standard; Steel; Left or right; Without Logo	Stamping	Night	0/3/9,5/14/19	F072 140519
	Hinge cup; Standard; Steel; Left or right; Without Logo		Night		F072 140520

ACCESSORIES

	Designation	Art. no.
	Tipmatic pin, short, Black	F069 149391
	Tipmatic pin, long, Black	F069 149388
	Tiomos Opening angle limiter, 85°	F072 135751

	Designation	Art. no.
	Countersunk head wood screw, Night, 3.5 x 15 mm	F072 135961
	Clip-off protection	F072 135807

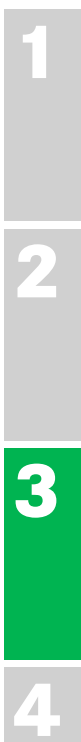
PAGE REFERENCES

Tiomos mounting plates	456	Tipmatic	542		
Accessories	466	Assembly technology	575		
Technical information	470	Assembly aids	580		

PLANNING INFORMATION

All dimensions in millimetres

Full overlay	K0	Overlay	K3	Half overlay	K9.5	Inset ¹	K19																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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MINIMUM GAP

MINIMUM JOINT

85° OPENING ANGLE

NOTICE

Door thickness	Cup distance				
	3	4	5	6	7
24.0	1.0	1.0	1.0	1.2 ²	2.1 ²
22.0	1.0	1.0	1.0	1.0	1.5 ²
21.0	1.0	1.0	1.0	1.0	1.2 ²
20.0	1.0	1.0	1.0	1.0	1.0
19.0	1.0	1.0	1.0	1.0	1.0
18.0	1.0	1.0	1.0	1.0	1.0
17.0	1.0	1.0	1.0	1.0	1.0
16.0	1.0	1.0	1.0	1.0	1.0
	Minimum gap				

Door thickness	Cup distance				
	3	4	5	6	7
24.0	2.4	2.1	2.1	2.1	2.0
22.0	1.6	1.6	1.6	1.5	1.5
21.0	1.4	1.3	1.3	1.3	1.3
20.0	1.1	1.1	1.1	1.1	1.1
19.0	0.9	0.9	0.9	0.9	0.9
18.0	0.7	0.7	0.7	0.7	0.7
17.0	0.6	0.6	0.6	0.6	0.6
16.0	0.6	0.6	0.6	0.6	0.6
	Minimum joint (F)				

Door thickness	Cup distance				
	3	4	5	6	7
36.0	11.1	10.3	9.7	9.1	8.5
30.0	5.4	4.8	4.4	4.3	4.2
28.0	3.7	3.6	3.5	3.4	3.3
26.0	2.9	2.8	2.8	2.7	2.6
24.0	2.2	2.1	2.1	2.1	2.0
22.0	1.6	1.6	1.6	1.5	1.5
21.0	1.4	1.3	1.3	1.3	1.3
20.0	1.1	1.1	1.1	1.1	1.1
19.0	0.9	0.9	0.9	0.9	0.9
18.0	0.7	0.7	0.7	0.7	0.7
16.0	0.6	0.6	0.6	0.6	0.6
	Minimum joint (F) ³ 85°				

The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can be opened without hindrance.

Minimum reveal for doors with chamfered edges (R = 1 mm) with factory setting.

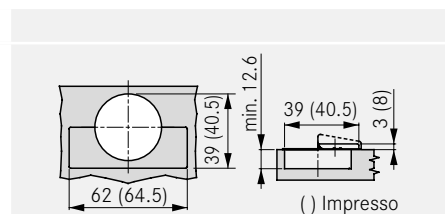
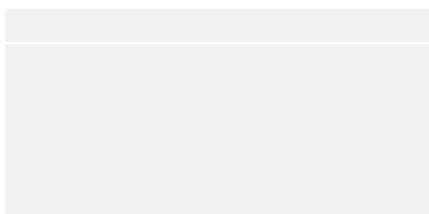
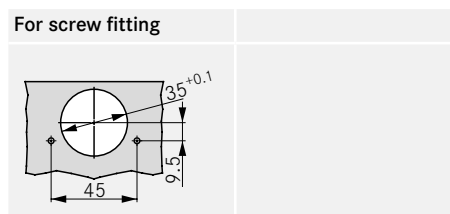
A trial fitting is recommended for door thicknesses from 24 mm.

² 1.0 with 85° opening angle

³ 85° opening angle reduction clip

DRILLING PATTERNS

CUP DIMENSIONS



TIOMOS 120

120° hinge (door thicknesses up to 24 mm)



- 120° opening angle
- Optimal reveal for door thicknesses up to 22 mm
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate

ORDER INFORMATION

Door position		Crank	Damper	Spring	Material	Click-on		Impresso
						Press-fit	Screw-on	Toolless
Full overlay		0	■	■	Steel	F028 138551	F028 138547	F017 139428
Overlay		3	■	■	Steel	F028 138552	F028 138548	F017 139429
Half overlay		9.5	■	■	Zamak/Steel	F028 138553	F028 138549	F017 139430
Inset		19	■	■	Zamak/Steel	F028 138554	F028 138550	F017 139558

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Standard; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/3/9,5/14/19	F072 135500
	Hinge arm; Standard; Steel; Right; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072 135550
	Hinge arm; Standard; Steel; Left; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072 135551
	Hinge arm; With integrated clip protection; ABS; Left or right; Without Logo	Digital printing	Black	0/3/9,5/14/19	F072 140504
	Hinge cup; Standard; Steel; Left or right; Without Logo		Nickel		F072 135503

ACCESSORIES

	Designation	Art. no.
	Tiomos Opening angle limiter, 85°	F072 135751

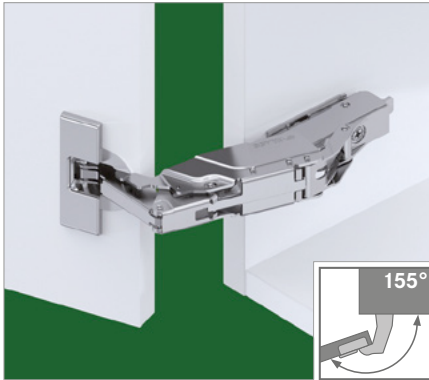
	Designation	Art. no.
	Clip-off protection	F072 135807

PAGE REFERENCES

Tiomos mounting plates	456	Tipmatic	542		
Accessories	466	Assembly technology	575		
Technical information	470	Assembly aids	580		

TIOMOS 155

155° wide-angle hinge (door thicknesses up to 32 mm)



- 155° opening angle
- With convenient depth adjustment via worm screw
- For cabinets with inset drawers or pull-out shelves
- Optimal reveal for door thicknesses up to 32 mm
- 3-dimensional adjustment with corresponding mounting plate
- Minimum reveals
- Shallow cup depth

ORDER INFORMATION

Door position		Crank	Damper	Spring	Material	Click-on		Impresso
						Press-fit	Screw-on	Toolless
Full overlay		0	■	■	Zamak	F028138564	F028138561	F017139435
		0	-	■	Zamak		F045138499	
		0	-	-	Zamak		F046138621 ¹	
Overlay		3	■	■	Zamak	F028138565	F028138562	F017139436
		3	-	■	Zamak		F045138500	
		3	-	-	Zamak		F046138622 ¹	
Half overlay		9.5	■	■	Zamak	F028138566	F028138563	F017139437
		9.5	-	■	Zamak		F045138501	

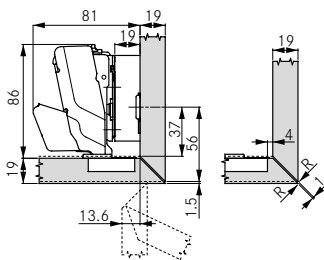
¹Additionally Tipmatic Pin required

ACCESSORIES

	Designation	Art. no.
	Tipmatic pin, short, Light grey	F069149392
	Tipmatic pin, long, Light grey	F069149389

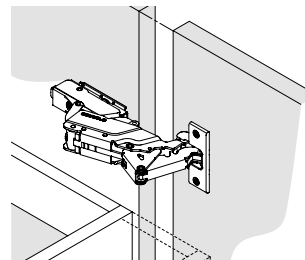
	Designation	Art. no.
	Tiomos Opening angle limiter, 120°	F072135753
	Clip-off protection	F072135807

MITRED APPLICATION (ON ALL SIDES)



With cranking 0, a mounting plate height of 19 mm and cup distance of 4 mm, door and cabinet edges meet at mitred angles on all 4 sides.

ZERO PROTRUSION



For use with inset drawers.

At cranking 0, and with all mounting plate thicknesses, the door protrudes inwards at 90°. With cranking 3 and mounting plate height 3, the door will be flush with the cabinet.

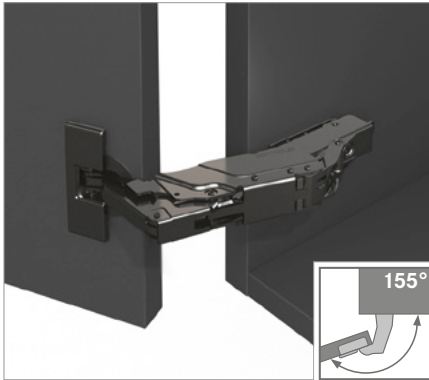
Door thickness (TS)	Mitre, on all sides		Mitre, side	
	R (min.)	R (min.)	R (min.)	R (min.)
19-20	1.0	0		
22	2.0	0		
24	3.0	1.0		
26	4.2	2.5		
28	5.4	3.8		
24	6.5	5.3		

PAGE REFERENCES

Tiomos mounting plates	456	Tipmatic	542		
Accessories	466	Assembly technology	575		
Technical information	470	Assembly aids	580		

TIOMOS NIGHT 155

155° wide-angle hinge (door thicknesses up to 32 mm)



- 155° opening angle
- With convenient depth adjustment via worm screw
- For cabinets with inset drawers or pull-out shelves
- Optimal reveal for door thicknesses up to 32 mm
- 3-dimensional adjustment with corresponding mounting plate
- Minimum reveals
- Shallow cup depth
- Especially for dark cabinet materials and woods

ORDER INFORMATION

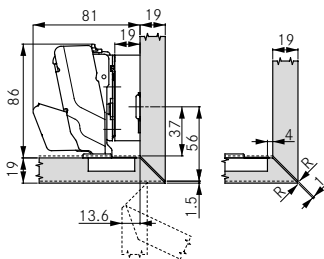
Door position		Crank	Damper	Spring	Material	Click-on	Screw-on	
Overlay		3	■	■	Zamak	F028140944		
Half overlay		9.5	■	■	Zamak	F028140942		

ACCESSORIES

	Designation	Art. no.
	Tiomos Opening angle limiter, 120°	F072135753
	Countersunk head wood screw, Night, 3.5 x 15 mm	F072135961

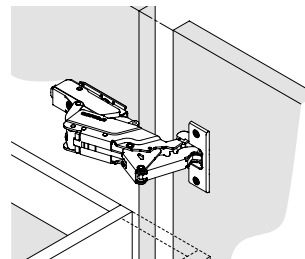
	Designation	Art. no.
	Clip-off protection	F072135807

MITRED APPLICATION (ON ALL SIDES)



With cranking 0, a mounting plate height of 19 mm and cup distance of 4 mm, door and cabinet edges meet at mitred angles on all 4 sides.

ZERO PROTRUSION



For use with inset drawers.

At cranking 0, and with all mounting plate thicknesses, the door protrudes inwards at 90°. With cranking 3 and mounting plate height 3, the door will be flush with the cabinet.

Door thickness (TS)	Mitre, on all sides	Mitre, side
	R (min.)	R (min.)
19-20	1.0	0
22	2.0	0
24	3.0	1.0
26	4.2	2.5
28	5.4	3.8
24	6.5	5.3

PAGE REFERENCES

Tiomos mounting plates	456	Tipmatic	542		
Accessories	466	Assembly technology	575		
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PLANNING INFORMATION

All dimensions in millimetres

Overlay	K3	Half overlay	K9.5																																																																																																																																																																																																																																																			
<p>Mounting plate height 2</p> <table border="1"> <thead> <tr> <th rowspan="2">3</th> <th colspan="6">Cup distance</th> </tr> <tr> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> </tr> </thead> <tbody> <tr><td>22.0</td><td></td><td></td><td></td><td></td><td></td><td>-2</td></tr> <tr><td>21.0</td><td></td><td></td><td></td><td></td><td>-2</td><td></td></tr> <tr><td>20.0</td><td></td><td></td><td></td><td>-2</td><td></td><td>0</td></tr> <tr><td>19.0</td><td></td><td></td><td>-2</td><td></td><td>0</td><td></td></tr> <tr><td>18.0</td><td></td><td>-2</td><td></td><td>0</td><td></td><td>2</td></tr> <tr><td>17.0</td><td>-2</td><td></td><td>0</td><td></td><td>2</td><td>3</td></tr> <tr><td>16.5</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>16.0</td><td></td><td>0</td><td></td><td>2</td><td>3</td><td></td></tr> <tr><td>15.5</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>15.0</td><td>0</td><td></td><td>2</td><td>3</td><td></td><td></td></tr> <tr><td>14.5</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14.0</td><td></td><td>2</td><td>3</td><td></td><td></td><td></td></tr> <tr><td>13.5</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>13.0</td><td>2</td><td>3</td><td></td><td></td><td></td><td></td></tr> <tr><td>12.5</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>12.0</td><td>3</td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		3	Cup distance						3	4	5	6	7	8	22.0						-2	21.0					-2		20.0				-2		0	19.0			-2		0		18.0		-2		0		2	17.0	-2		0		2	3	16.5							16.0		0		2	3		15.5							15.0	0		2	3			14.5							14.0		2	3				13.5							13.0	2	3					12.5							12.0	3						<p>Mounting plate height 2</p> <table border="1"> <thead> <tr> <th rowspan="2">9.5</th> <th colspan="6">Cup distance</th> </tr> <tr> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> </tr> </thead> <tbody> <tr><td>14.5</td><td></td><td></td><td></td><td></td><td>-2</td><td></td></tr> <tr><td>13.5</td><td></td><td></td><td></td><td>-2</td><td></td><td>0</td></tr> <tr><td>12.5</td><td></td><td></td><td>-2</td><td></td><td>0</td><td></td></tr> <tr><td>11.5</td><td></td><td>-2</td><td></td><td>0</td><td></td><td>2</td></tr> <tr><td>10.5</td><td>-2</td><td></td><td>0</td><td></td><td>2</td><td>3</td></tr> <tr><td>10.0</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>9.5</td><td></td><td>0</td><td></td><td>2</td><td>3</td><td></td></tr> <tr><td>9.0</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8.5</td><td>0</td><td></td><td>2</td><td>3</td><td></td><td></td></tr> <tr><td>8.0</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7.5</td><td></td><td>2</td><td>3</td><td></td><td></td><td></td></tr> <tr><td>7.0</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>6.5</td><td>2</td><td>3</td><td></td><td></td><td></td><td></td></tr> <tr><td>6.0</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5.5</td><td>3</td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		9.5	Cup distance						3	4	5	6	7	8	14.5					-2		13.5				-2		0	12.5			-2		0		11.5		-2		0		2	10.5	-2		0		2	3	10.0							9.5		0		2	3		9.0							8.5	0		2	3			8.0							7.5		2	3				7.0							6.5	2	3					6.0							5.5	3					
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MINIMUM GAP

MINIMUM JOINT

NOTICE

Door thickness	Cup distance					
	3	4	5	6	7	8
32.0	1.0	1.0				
31.0	1.0	1.0	1.0			
30.0	1.0	1.0	1.0			
29.0	1.0	1.0	1.0	1.0	1.0	1.0
28.0	1.0	1.0	1.0	1.0	1.0	1.0
26.0	1.0	1.0	1.0	1.0	1.0	1.0
25.0	1.0	1.0	1.0	1.0	1.0	1.0
24.0	1.0	1.0	1.0	1.0	1.0	1.0
22.0	1.0	1.0	1.0	1.0	1.0	1.0
21.0	1.0	1.0	1.0	1.0	1.0	1.0
20.0	1.0	1.0	1.0	1.0	1.0	1.0
18.0	1.0	1.0	1.0	1.0	1.0	1.0
16.0	1.0	1.0	1.0	1.0	1.0	1.0

Minimum gap

Door thickness	Cup distance					
	3	4	5	6	7	8
32.0	0.2 ¹	0.2 ¹				
31.0	0.2 ¹	0.2 ¹	0.2 ¹	0.2 ¹		
30.0	0.2 ¹	0.2 ¹	0.2 ¹	0.2 ¹	0.2 ¹	
29.0	0.2 ¹	0.2 ¹	0.2 ¹	0.2 ¹	0.2 ¹	0.2 ¹
28.0	0.0	0.0	0.0	0.0	0.0	0.0
26.0	0.0	0.0	0.0	0.0	0.0	0.0
25.0	0.0	0.0	0.0	0.0	0.0	0.0
24.0	0.0	0.0	0.0	0.0	0.0	0.0
22.0	0.0	0.0	0.0	0.0	0.0	0.0
21.0	0.0	0.0	0.0	0.0	0.0	0.0
20.0	0.0	0.0	0.0	0.0	0.0	0.0
18.0	0.0	0.0	0.0	0.0	0.0	0.0
16.0	0.0	0.0	0.0	0.0	0.0	0.0

Minimum joint (F)

The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can be opened without hindrance.

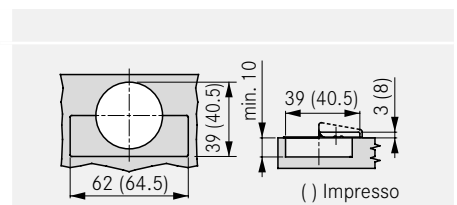
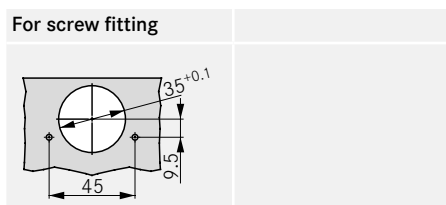
Minimum reveal for doors with chamfered edges (R = 1 mm) with factory setting.

For door thicknesses from 28 mm, no reveals are necessary. For door thicknesses from 29 mm, we recommend a trial fitting.

¹ Only possible with 120° angle reduction clip

DRILLING PATTERNS

CUP DIMENSIONS



TIOMOS 95

95° hinge (door thicknesses up to 28 mm)



- 95° opening angle
- Optimal reveal for door thicknesses up to 28 mm
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate

ORDER INFORMATION

Door position		Crank	Damper	Spring	Material	Click-on		Impresso
						Press-fit	Screw-on	Toolless
Full overlay		0	■	■	Steel	F028138571	F028138567	F017139438
		0	-	■	Steel		F045138505	
Overlay		3	■	■	Steel	F028138572	F028138568	F017139439
		3	-	■	Steel		F045138506	
		3	-	-	Steel		F046138628¹	
Half overlay		9.5	■	■	Zamak/Steel	F028138573	F028138569	F017139440
		9.5	-	■	Zamak/Steel		F045138507	
Inset		19	■	■	Zamak/Steel	F028138574	F028138570	F017139441
		19	-	■	Zamak/Steel		F045138508	

¹Additionally Tipmatic Pin required

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Standard; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/3/9,5/14/19	F072135500
	Hinge arm; Standard; Steel; Right; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072135550
	Hinge arm; Standard; Steel; Left; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072135551
	Hinge arm; With integrated clip protection; ABS; Left or right; Without Logo	Digital printing	Black	0/3/9,5/14/19	F072140504
	Hinge cup; Standard; Steel; Left or right; Without Logo		Nickel		F072135503

ACCESSORIES

	Designation	Art. no.		Designation	Art. no.
	Tipmatic pin, short, Light grey	F069149392		Clip-off protection	F072135807
	Tipmatic pin, long, Light grey	F069149389			

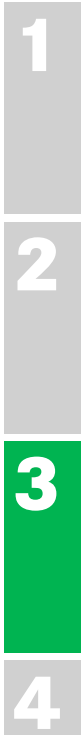
PAGE REFERENCES

Tiomos mounting plates	456	Tipmatic	542		
Accessories	466	Assembly technology	575		
Technical information	470	Assembly aids	580		

PLANNING INFORMATION

All dimensions in millimetres

Full overlay	K0	Overlay	K3	Half overlay	K9.5	Inset ¹	K19																																																																																																																																																																																																																																																																																																																																																																																				
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MINIMUM GAP

MINIMUM JOINT

NOTICE

Door thickness	Topfabstand				
	3	4	5	6	7
36.0	1.0	1.0	1.0	1.4	2.4
30.0	1.0	1.0	1.0	1.0	1.9
28.0	1.0	1.0	1.0	1.0	1.7
26.0	1.0	1.0	1.0	1.0	1.5
24.0	1.0	1.0	1.0	1.0	1.4
22.0	1.0	1.0	1.0	1.0	1.2
20.0	1.0	1.0	1.0	1.0	1.0
18.0	1.0	1.0	1.0	1.0	1.0
16.0	1.0	1.0	1.0	1.0	1.0

Minimum gap

Door thickness	Topfabstand				
	3	4	5	6	7
36.0	10.6	9.6	8.6	7.6	6.7
30.0	4.5	3.5	2.5	2.5	1.5
28.0	2.0	1.5	1.5	1.3	1.3
26.0	1.0	1.0	1.0	1.0	1.0
24.0	0.6	0.6	0.6	0.6	0.6
22.0	0.5	0.5	0.5	0.5	0.5
20.0	0.3	0.3	0.3	0.3	0.3
18.0	0.2	0.2	0.2	0.2	0.2
16.0	0.2	0.2	0.2	0.2	0.2

Minimum joint (F)

The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can be opened without hindrance.

Minimum reveal for doors with chamfered edges (R = 1 mm) with factory setting.

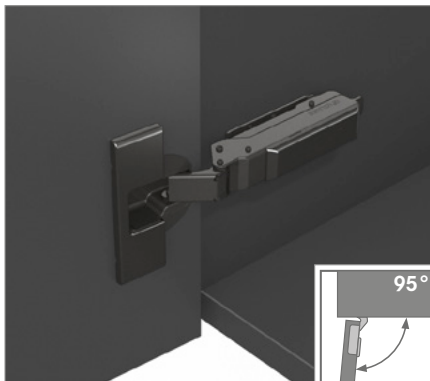
DRILLING PATTERNS

CUP DIMENSIONS

For screw fitting	For press fitting	Impresso combination drilling pattern	Impresso

TIOMOS NIGHT 95

95° hinge (door thicknesses up to 28 mm)



- 95° opening angle
- Optimal reveal for door thicknesses up to 28 mm
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate
- Especially for dark cabinet materials and woods

ORDER INFORMATION

Door position		Crank	Damper	Spring	Material	Click-on		
						Screw-on		
Overlay		3	■	■	Steel	F028 139 138		
Half overlay		9.5	■	■	Zamak/Steel	F028 140 936		
Inset		19	■	■	Zamak/Steel	F028 140 939		

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Standard; Steel; Left or right; Without Logo	Stamping	Night	0/3/9,5/14/19	F072 140 519
	Hinge cup; Standard; Steel; Left or right; Without Logo		Night		F072 140 520

ACCESSORIES

	Designation	Art. no.		Designation	Art. no.
	Countersunk head wood screw, Night, 3.5 x 15 mm	F072 135 961		Clip-off protection	F072 135 807

PAGE REFERENCES

Tiomos mounting plates	456	Tipmatic	542		
Accessories	466	Assembly technology	575		
Technical information	470	Assembly aids	580		

PLANNING INFORMATION

All dimensions in millimetres

Overlay		K3		Half overlay		K9.5		Inset ¹		K19										
		Mounting plate height 2				Mounting plate height 2				Mounting plate height 2										
								¹ Set the mounting plate back by the door thickness + 1.5 mm												
Door overlay	3	Cup distance					Door overlay	9.5	Cup distance					Door overlay	19	Cup distance				
		3	4	5	6	7			3	4	5	6	7			3	4	5	6	7
	21.0					-2		14.5					-2		0.0		0		2	3
	20.0				-2			13.5				-2			0.5					3.5
	19.0			-2	0			12.5			-2	0	1.0		0		2	3		
	18.0		-2		0			11.5		-2		0	1.5					3.5		
	17.0	-2		0		2		10.5	-2		0		2		2.0		2	3		
	16.5							10.0							3.0	2	3			
	16.0		0		2	3		9.5		0		2	3		4.0	3				
	15.5					3.5		9.0					3.5							
	15.0	0		2	3			8.5	0		2	3								
	14.5				3.5			8.0				3.5								
	14.0		2	3				7.5		2	3									
	13.5			3.5				7.0			3.5									
13.0	2	3				6.5	2	3												
12.5		3.5				6.0		3.5												
12.0	3					5.5	3													
11.5	3.5					5.0	3.5													
		Mounting plate height				Mounting plate height				Mounting plate height										



MINIMUM GAP

MINIMUM JOINT

NOTICE

Door thickness	Topfabstand				
	3	4	5	6	7
36.0	1.0	1.0	1.0	1.4	2.4
30.0	1.0	1.0	1.0	1.0	1.9
28.0	1.0	1.0	1.0	1.0	1.7
26.0	1.0	1.0	1.0	1.0	1.5
24.0	1.0	1.0	1.0	1.0	1.4
22.0	1.0	1.0	1.0	1.0	1.2
20.0	1.0	1.0	1.0	1.0	1.0
18.0	1.0	1.0	1.0	1.0	1.0
16.0	1.0	1.0	1.0	1.0	1.0
Minimum gap					

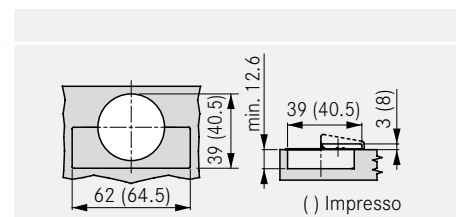
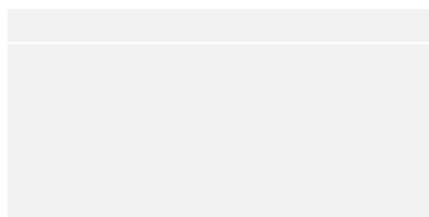
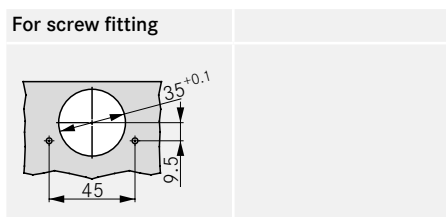
Door thickness	Topfabstand				
	3	4	5	6	7
36.0	10.6	9.6	8.6	7.6	6.7
30.0	4.5	3.5	2.5	2.5	1.5
28.0	2.0	1.5	1.5	1.3	1.3
26.0	1.0	1.0	1.0	1.0	1.0
24.0	0.6	0.6	0.6	0.6	0.6
22.0	0.5	0.5	0.5	0.5	0.5
20.0	0.3	0.3	0.3	0.3	0.3
18.0	0.2	0.2	0.2	0.2	0.2
16.0	0.2	0.2	0.2	0.2	0.2
Minimum joint (F)					

The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can be opened without hindrance.

Minimum reveal for doors with chamfered edges (R = 1 mm) with factory setting.

DRILLING PATTERNS

CUP DIMENSIONS



TIOMOS 110 AL

110° aluminium frame hinge (frame thicknesses up to 24 mm)



- 110° opening angle
- Optimal reveal for aluminium frames up to a max. frame thickness of 24 mm and frame width of 22 mm
- Hinge not visible from the outside
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate

ORDER INFORMATION

Door position		Crank	Damper	Spring	Material	Click-on	Screw-on	
Full overlay		0	■	■	Steel	F028 138 154		
Overlay		3	■	■	Zamak/Steel	F028 138 155		
		3	-	■	Zamak/Steel	F045 138 062		
		3	-	-	Zamak/Steel	F046 138 246¹		
Half overlay		9.5	■	■	Zamak/Steel	F028 138 156		
		9.5	-	■	Zamak/Steel	F045 138 063		
Inset		19	■	■	Zamak/Steel	F028 138 157		

¹Additionally Tipmatic Pin required

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Standard; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/3/9,5/14/19	F072 135 500
	Hinge arm; Standard; Steel; Right; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072 135 550
	Hinge arm; Standard; Steel; Left; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072 135 551
	Hinge arm; With integrated clip protection; ABS; Left or right; Without Logo	Digital printing	Black	0/3/9,5/14/19	F072 140 504

ACCESSORIES

	Designation	Art. no.		Designation	Art. no.
	Tipmatic pin, short, Light grey	F069 149 392		Housing fastening screw, Zinc, M3 x 6 mm	F069 073 405
	Tipmatic pin, long, Light grey	F069 149 389		Clip-off protection	F072 135 807

PAGE REFERENCES

Tiomos mounting plates	456	Tipmatic	542		
Accessories	466	Assembly technology	575		
Technical information	470	Assembly aids	580		

PLANNING INFORMATION

All dimensions in millimetres

Full overlay	K0	Overlay	K3	Half overlay	K9.5	Inset ¹	K19	
<p>Mounting plate height 2</p>		<p>Mounting plate height 2</p>		<p>Mounting plate height 2</p>		<p>Mounting plate height 2</p> <p>¹Set the mounting plate back by the door thickness + 1.5 mm</p>		
Door overlay	0 Cup distance		Door overlay	3 Cup distance		Door overlay	19 Cup distance	
	19.0	0		16.0	0		0.0	0
	17.0	2		14.0	2		2.0	2
	16.0	3		13.0	3		3.0	3
	15.0	3.5		12.5	3.5		3.5	3.5
Mounting plate height		Mounting plate height		Mounting plate height		Mounting plate height		

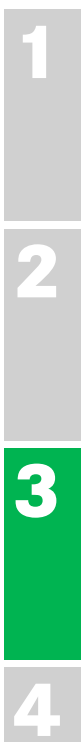
MINIMUM JOINT

Frame thickness	Frame width				
	18	19	20	21	22
24.0	2.4	2.1	2.1	2.1	2.0
22.0	1.6	1.6	1.6	1.5	1.5
21.0	1.4	1.3	1.3	1.3	1.3
20.0	1.1	1.1	1.1	1.1	1.1
19.0	0.9	0.9	0.9	0.9	0.9
18.0	0.7	0.7	0.7	0.7	0.7
17.0	0.6	0.6	0.6	0.6	0.6
16.0	0.6	0.6	0.6	0.6	0.6
Minimum joint (F)					

INSTALLATION DIMENSIONS

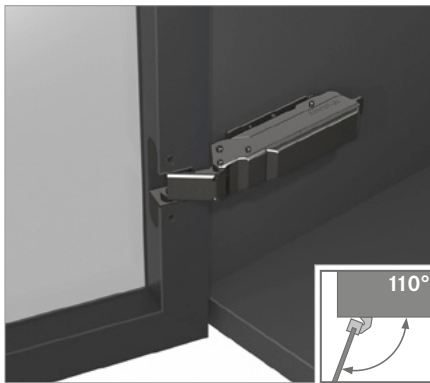
Fixing screws are not included

Hinge dimensions and reveal calculation with factory setting



TIOMOS NIGHT 110 AL

110° aluminium frame hinge (frame thicknesses up to 24 mm)



- 110° opening angle
- Optimal reveal for aluminium frames up to a max. frame thickness of 24 mm and frame width of 22 mm
- Hinge not visible from the outside
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate
- Especially for dark cabinet materials and woods

ORDER INFORMATION

Door position		Crank	Damper	Spring	Material	Click-on		
						Screw-on		
Full overlay		0	■	■	Zamak/Steel	F028 149495		
Overlay		3	■	■	Zamak/Steel	F028 140404		
		3	-	■	Zamak/Steel	F045 149510		
		3	-	-	Zamak/Steel	F046 149594¹		

¹Additionally Tipmatic Pin required

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Standard; Steel; Left or right; Without Logo	Stamping	Night	0/3/9,5/14/19	F072140519

ACCESSORIES

	Designation	Art. no.		Designation	Art. no.
	Tipmatic pin, short, Black	F069 149391		Housing fastening screw, Zinc, M3 x 6 mm	F069073405
	Tipmatic pin, long, Black	F069 149388		Clip-off protection	F072135807

PAGE REFERENCES

Tiomos mounting plates	456	Tipmatic	542		
Accessories	466	Assembly technology	575		
Technical information	470	Assembly aids	580		

PLANNING INFORMATION

All dimensions in millimetres

Full overlay		K0	Overlay		K3
<p>Mounting plate height 2</p>		<p>Mounting plate height 2</p>			
Door overlay	0 Cup distance		Door overlay	3 Cup distance	
	19.0	0		16.0	0
	17.0	2		14.0	2
	16.0	3		13.0	3
	15.0	3.5		12.5	3.5
Mounting plate height		Mounting plate height			

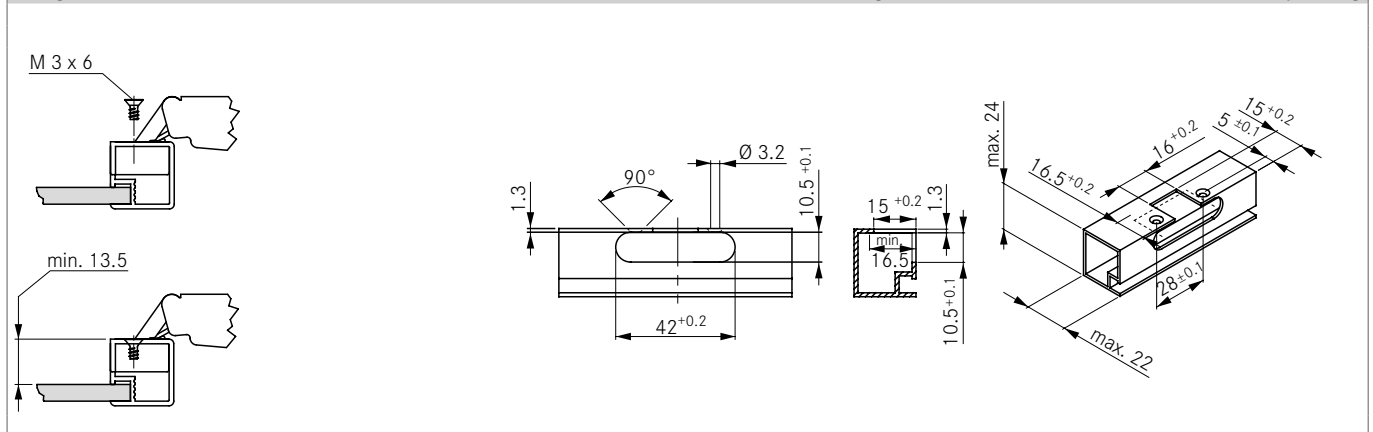
MINIMUM JOINT

Frame thickness	Frame width				
	18	19	20	21	22
24.0	2.4	2.1	2.1	2.1	2.0
22.0	1.6	1.6	1.6	1.5	1.5
21.0	1.4	1.3	1.3	1.3	1.3
20.0	1.1	1.1	1.1	1.1	1.1
19.0	0.9	0.9	0.9	0.9	0.9
18.0	0.7	0.7	0.7	0.7	0.7
17.0	0.6	0.6	0.6	0.6	0.6
16.0	0.6	0.6	0.6	0.6	0.6
Minimum joint (F)					

INSTALLATION DIMENSIONS

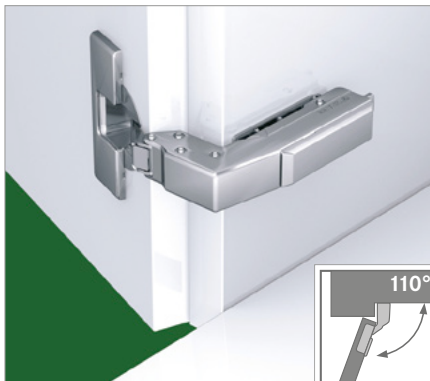
Fixing screws are not included

Hinge dimensions and reveal calculation with factory setting



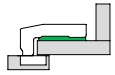
TIOMOS 110/90A

110° blind corner hinge (overlay)

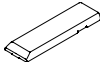


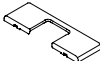


- Hinge for overlay blind corner constructions
- 110° opening angle
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate
- Minimum reveals


ORDER INFORMATION


Door position		Damper	Spring	Material	Click-on		
					Press-fit	Screw-on	
Overlay		■	■	Zamak/Steel	F028138545	F028138535	

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Standard; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/3/9,5/14/19	F072135500
	Hinge arm; Standard; Steel; Right; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072135550
	Hinge arm; Standard; Steel; Left; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072135551
	Hinge arm; With integrated clip protection; ABS; Left or right; Without Logo	Digital printing	Black	0/3/9,5/14/19	F072140504
	Hinge cup; Standard; Steel; Left or right; Without Logo		Nickel		F072135503

ACCESSORIES

	Designation	Art. no.
	Tiomos Opening angle limiter, 85°	F072135751

	Designation	Art. no.
	Clip-off protection	F072135807

PAGE REFERENCES

Tiomos mounting plates	456	Tipmatic	542		
Accessories	466	Assembly technology	575		
Technical information	470	Assembly aids	580		

PLANNING INFORMATION

All dimensions in millimetres

Overlay

Cross mounting plates with mounting distance 37

Linear mounting plate

Drilling clearance (X)	Cup distance				
	3	4	5	6	7
30.0	18	19	20	21	22
29.0	17	18	19	20	21
28.0	16	17	18	19	20
27.0	15	16	17	18	19
26.0	14	15	16	17	18

Mounting plate height 0

Door overlay

Drilling clearance (X)	Cup distance				
	3	4	5	6	7
13.0	18	19	20	21	22
12.0	17	18	19	20	21
11.0	16	17	18	19	20
10.0	15	16	17	18	19
9.0	14	15	16	17	18

Door overlay

MINIMUM GAP

Door thickness	Cup distance				
	3	4	5	6	7
24.0	1.0	1.0	1.0	1.2	2.1
22.0	1.0	1.0	1.0	1.0	1.5
21.0	1.0	1.0	1.0	1.0	1.2
20.0	1.0	1.0	1.0	1.0	1.0
19.0	1.0	1.0	1.0	1.0	1.0
18.0	1.0	1.0	1.0	1.0	1.0
17.0	1.0	1.0	1.0	1.0	1.0
16.0	1.0	1.0	1.0	1.0	1.0

Minimum gap

NOTICE

The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can be opened without hindrance.

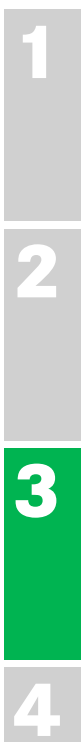
DRILLING PATTERNS

For screw fitting

For press fitting

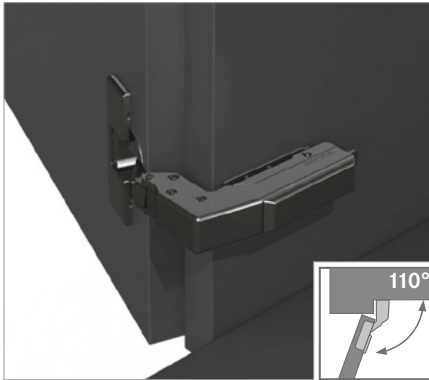
CUP DIMENSIONS

() Impresso



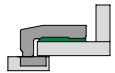
TIOMOS NIGHT 110/90A

110° blind corner hinge (overlay)






- Hinge for overlay blind corner constructions
- 110° opening angle
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate
- Minimum reveals
- Especially for dark cabinet materials and woods



ORDER INFORMATION


Door position		Damper	Spring	Material	Click-on		
					Screw-on		
-		■	■	Zamak/Steel	F028140419		

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Standard; Steel; Left or right; Without Logo	Stamping	Night	0/3/9,5/14/19	F072140519
	Hinge arm; With integrated clip protection; ABS; Left or right; Without Logo	Digital printing	Black	0/3/9,5/14/19	F072140504
	Hinge cup; Standard; Steel; Left or right; Without Logo		Night		F072140520

ACCESSORIES

	Designation	Art. no.
	Tiomos Opening angle limiter, 85°	F072135751
	Countersunk head wood screw, Night, 3,5 x 15 mm	F072135961

	Designation	Art. no.
	Clip-off protection	F072135807

PAGE REFERENCES

Tiomos mounting plates	456	Tipmatic	542		
Accessories	466	Assembly technology	575		
Technical information	470	Assembly aids	580		

PLANNING INFORMATION

All dimensions in millimetres

Overlay

Cross mounting plates with mounting distance 37

Linear mounting plate

Drilling clearance (X)	Cup distance				
	3	4	5	6	7
30.0	18	19	20	21	22
29.0	17	18	19	20	21
28.0	16	17	18	19	20
27.0	15	16	17	18	19
26.0	14	15	16	17	18

Mounting plate height 0

Door overlay

Drilling clearance (X)	Cup distance				
	3	4	5	6	7
13.0	18	19	20	21	22
12.0	17	18	19	20	21
11.0	16	17	18	19	20
10.0	15	16	17	18	19
9.0	14	15	16	17	18

Door overlay

MINIMUM GAP

Door thickness	Cup distance				
	3	4	5	6	7
24.0	1.0	1.0	1.0	1.2	2.1
22.0	1.0	1.0	1.0	1.0	1.5
21.0	1.0	1.0	1.0	1.0	1.2
20.0	1.0	1.0	1.0	1.0	1.0
19.0	1.0	1.0	1.0	1.0	1.0
18.0	1.0	1.0	1.0	1.0	1.0
17.0	1.0	1.0	1.0	1.0	1.0
16.0	1.0	1.0	1.0	1.0	1.0

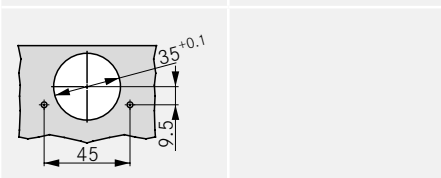
Minimum gap

NOTICE

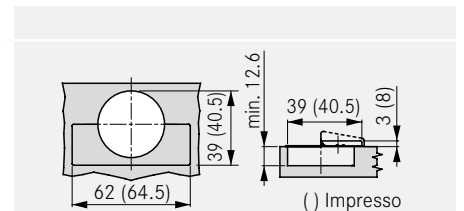
The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can be opened without hindrance.

DRILLING PATTERNS

For screw fitting



CUP DIMENSIONS



TIOMOS 110/90E

110° blind corner hinge (inset)



- Hinge for inset blind corner constructions
- 110° opening angle
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate
- Minimum reveals

ORDER INFORMATION

Door position		Damper	Spring	Material	Click-on		Impresso
					Press-fit	Screw-on	Toolless
Inset		■	■	Zamak/Steel	F028138546	F028138536	F017139427
		-	■	Zamak/Steel	F045138484	F045138474	F034139398
		-	-	Zamak/Steel		F046138596¹	

¹Additionally Tipmatic Pin required

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Standard; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/3/9,5/14/19	F072135500
	Hinge arm; Standard; Steel; Right; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072135550
	Hinge arm; Standard; Steel; Left; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072135551
	Hinge arm; With integrated clip protection; ABS; Left or right; Without Logo	Digital printing	Black	0/3/9,5/14/19	F072140504
	Hinge cup; Standard; Steel; Left or right; Without Logo		Nickel		F072135503

ACCESSORIES

	Designation	Art. no.
	Tipmatic pin, short, Light grey	F069149392
	Tipmatic pin, long, Light grey	F069149389

	Designation	Art. no.
	Tiomos Opening angle limiter, 85°	F072135751
	Clip-off protection	F072135807

PAGE REFERENCES

Tiomos mounting plates	456	Tipmatic	542		
Accessories	466	Assembly technology	575		
Technical information	470	Assembly aids	580		

TIOMOS NIGHT 110/90E

110° blind corner hinge (inset)



- Hinge for inset blind corner constructions
- 110° opening angle
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate
- Minimum reveals
- Especially for dark cabinet materials and woods

ORDER INFORMATION

Door position		Damper	Spring	Material	Click-on		
					Screw-on		
Inset		■	■	Zamak/Steel	F028140961		

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Standard; Steel; Left or right; Without Logo	Stamping	Night	0/3/9,5/14/19	F072140519
	Hinge arm; With integrated clip protection; ABS; Left or right; Without Logo	Digital printing	Black	0/3/9,5/14/19	F072140504
	Hinge cup; Standard; Steel; Left or right; Without Logo		Night		F072140520

ACCESSORIES

	Designation	Art. no.
	Tiomos Opening angle limiter, 85°	F072135751
	Countersunk head wood screw, Night, 3,5 x 15 mm	F072135961

	Designation	Art. no.
	Clip-off protection	F072135807

PAGE REFERENCES

Tiomos mounting plates	456	Tipmatic	542		
Accessories	466	Assembly technology	575		
Technical information	470	Assembly aids	580		

PLANNING INFORMATION

All dimensions in millimetres

Inset

Cross mounting plates with mounting distance 37

Drilling clearance (X)	Cup distance				
	4	5	6	7	
28.0	1	0			
27.0	2	1	0		
26.0	3	2	1	0	

Linear mounting plate

Drilling clearance (X)	Cup distance			
	4	5	6	7
11.0	1	0		
10.0	2	1	0	
9.0	3	2	1	0

Mounting plate height 3

Door reveal

MINIMUM JOINT

Door thickness	Topfabstand				
	3	4	5	6	7
24.0	2.4	2.1	2.1	2.1	2.0
22.0	1.6	1.6	1.6	1.5	1.5
21.0	1.4	1.3	1.3	1.3	1.3
20.0	1.1	1.1	1.1	1.1	1.1
19.0	0.9	0.9	0.9	0.9	0.9
18.0	0.7	0.7	0.7	0.7	0.7
17.0	0.6	0.6	0.6	0.6	0.6
16.0	0.6	0.6	0.6	0.6	0.6
	Minimum joint (F)				

NOTICE

Minimum reveal for doors with chamfered edges (R = 1 mm) with factory setting.

Use standard mounting plate height 3 to ensure that the door and blind corner surface are flush.

DRILLING PATTERNS

For screw fitting

CUP DIMENSIONS

() Impresso



TIOMOS 110/30A

+30° corner cabinet hinge (overlay)



- For 30° angled cabinets
- 110° opening angle
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate
- Minimum reveals

ORDER INFORMATION

Door position		Damper	Spring	Material	Click-on		
					Screw-on		
Overlay		■	■	Zamak/Steel	F028138529		
		-	■	Zamak/Steel	F045138467		
		-	-	Zamak/Steel	F046138589¹		

¹Additionally Tipmatic Pin required

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Standard; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/3/9,5/14/19	F072135500
	Hinge arm; Standard; Steel; Right; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072135550
	Hinge arm; Standard; Steel; Left; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072135551
	Hinge arm; With integrated clip protection; ABS; Left or right; Without Logo	Digital printing	Black	0/3/9,5/14/19	F072140504
	Hinge cup; Standard; Steel; Left or right; Without Logo		Nickel		F072135503

ACCESSORIES

	Designation	Art. no.
	Tipmatic pin, short, Light grey	F069149392
	Tipmatic pin, long, Light grey	F069149389

	Designation	Art. no.
	Clip-off protection	F072135807

PAGE REFERENCES

Tiomos mounting plates	456	Tipmatic	542		
Accessories	466	Assembly technology	575		
Technical information	470	Assembly aids	580		

PLANNING INFORMATION

All dimensions in millimetres

Overlay

Mounting plate height 0 Mounting plate height 6 Mounting plate height 9

Door overlay	Cup distance				
	3	4	5	6	7
20.5					0
19.5				0	
18.5			0		2
17.5		0		2	3
16.5	0				3.5
16.0			2	3	
15.5				3.5	
15.0		2	3		
14.5			3.5		
14.0	2	3			
13.5		3.5			
13.0	3				
12.5	3.5			6	
11.5			6		
10.5		6			

Mounting plate height

Cross mounting plates with mounting distance 37 Linear mounting plate

Door overlay	Mounting plate height				
	0	2	3	3.5	6
X	34.0	33.0	32.0	32.0	30.5

Cross mounting plate position (X)

Door overlay	Mounting plate height			
	0	2	3	3.5
X	17.0	16.0	15.0	15.0

Linear mounting plate position (X)

MINIMUM GAP

Door thickness	Topfabstand				
	3	4	5	6	7
24.0	1.0	1.0	1.0	1.2	2.1
22.0	1.0	1.0	1.0	1.0	1.5
21.0	1.0	1.0	1.0	1.0	1.2
20.0	1.0	1.0	1.0	1.0	1.0
19.0	1.0	1.0	1.0	1.0	1.0
18.0	1.0	1.0	1.0	1.0	1.0
17.0	1.0	1.0	1.0	1.0	1.0
16.0	1.0	1.0	1.0	1.0	1.0

Minimum gap

MINIMUM JOINT

Door thickness	Topfabstand				
	3	4	5	6	7
24.0	2.4	2.1	2.1	2.1	2.0
22.0	1.6	1.6	1.6	1.5	1.5
21.0	1.4	1.3	1.3	1.3	1.3
20.0	1.1	1.1	1.1	1.1	1.1
19.0	0.9	0.9	0.9	0.9	0.9
18.0	0.7	0.7	0.7	0.7	0.7
17.0	0.6	0.6	0.6	0.6	0.6
16.0	0.6	0.6	0.6	0.6	0.6

Minimum joint (F)

NOTICE

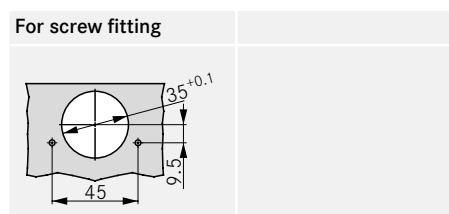
The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can be opened without hindrance.

Minimum reveal for doors with chamfered edges (R = 1 mm) with factory setting.

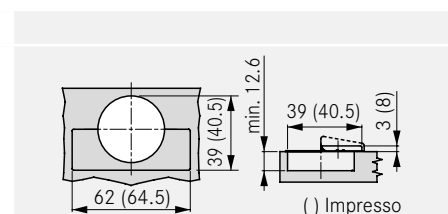
Hinge dimensions and reveal calculation with factory setting.

A trial fitting is recommended for door thicknesses from 24 mm.

DRILLING PATTERNS



CUP DIMENSIONS




TIOMOS 110/30E

+30° corner cabinet hinge (inset)



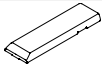

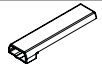

- For 30° angled cabinets
- 110° opening angle
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate
- Minimum reveals

ORDER INFORMATION


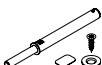
Door position		Damper	Spring	Material	Click-on		
					Screw-on		
Inset		■	■	Zamak/Steel	F028 138530		
		-	■	Zamak/Steel	F045 138468		
		-	-	Zamak/Steel	F046 138590¹		


¹Additionally Tipmatic Pin required

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Standard; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/3/9,5/14/19	F072 135500
	Hinge arm; Standard; Steel; Right; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072 135550
	Hinge arm; Standard; Steel; Left; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072 135551
	Hinge arm; With integrated clip protection; ABS; Left or right; Without Logo	Digital printing	Black	0/3/9,5/14/19	F072 140504
	Hinge cup; Standard; Steel; Left or right; Without Logo		Nickel		F072 135503

ACCESSORIES

	Designation	Art. no.
	Tipmatic pin, short, Light grey	F069 149392
	Tipmatic pin, long, Light grey	F069 149389

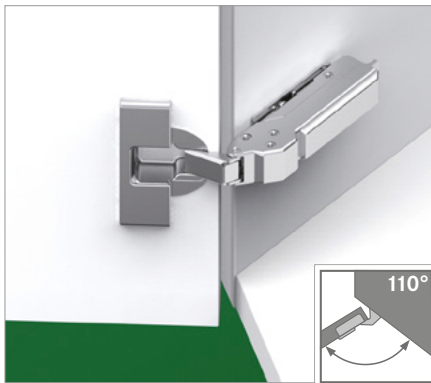
	Designation	Art. no.
	Clip-off protection	F072 135807

PAGE REFERENCES

Tiomos mounting plates	456	Tipmatic	542		
Accessories	466	Assembly technology	575		
Technical information	470	Assembly aids	580		

TIOMOS 110/37A

+37° corner cabinet hinge (overlay)



- For 37° angled cabinets
- 110° opening angle
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate
- Minimum reveals

ORDER INFORMATION

Door position		Damper	Spring	Material	Click-on		
					Screw-on		
Overlay		■	■	Zamak/Steel	F028138531		

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Standard; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/3/9,5/14/19	F072135500
	Hinge arm; Standard; Steel; Right; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072135550
	Hinge arm; Standard; Steel; Left; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072135551
	Hinge arm; With integrated clip protection; ABS; Left or right; Without Logo	Digital printing	Black	0/3/9,5/14/19	F072140504
	Hinge cup; Standard; Steel; Left or right; Without Logo		Nickel		F072135503

ACCESSORIES

	Designation	Art. no.		Designation	Art. no.
	Clip-off protection	F072135807			

PAGE REFERENCES

Tiomos mounting plates	456	Tipmatic	542		
Accessories	466	Assembly technology	575		
Technical information	470	Assembly aids	580		

PLANNING INFORMATION

All dimensions in millimetres

Overlay

Mounting plate height 0 Mounting plate height 12 Mounting plate height 12

Door overlay	Cup distance				
	3	4	5	6	7
21.5					0
21.0				0	
20.0			0		
19.0		0			
18.5				2	
18.0	0				3
17.5			2		
17.0				3	
16.5		2			
16.0			3		
15.5	2				
15.0		3			
14.5					6
14.0	3				6
13.0	3				6
12.0			6		
11.0		6			
10.0	6				

Cross mounting plates with mounting distance 37

Mounting plate height	Cross mounting plate position (X)				
	0	2	3	3.5	6
X	33.5	32.0	31.0	31.0	29.0

Linear mounting plate

Mounting plate height	Linear mounting plate position (X)			
	0	2	3	3.5
X	16.5	15.0	14.0	14.0

1
2
3
4

MINIMUM GAP

Door thickness	Topfabstand				
	3	4	5	6	7
24.0	1.0	1.0	1.0	1.2	2.1
22.0	1.0	1.0	1.0	1.0	1.5
21.0	1.0	1.0	1.0	1.0	1.2
20.0	1.0	1.0	1.0	1.0	1.0
19.0	1.0	1.0	1.0	1.0	1.0
18.0	1.0	1.0	1.0	1.0	1.0
17.0	1.0	1.0	1.0	1.0	1.0
16.0	1.0	1.0	1.0	1.0	1.0

Minimum gap

MINIMUM JOINT

Door thickness	Topfabstand				
	3	4	5	6	7
24.0	2.4	2.1	2.1	2.1	2.0
22.0	1.6	1.6	1.6	1.5	1.5
21.0	1.4	1.3	1.3	1.3	1.3
20.0	1.1	1.1	1.1	1.1	1.1
19.0	0.9	0.9	0.9	0.9	0.9
18.0	0.7	0.7	0.7	0.7	0.7
17.0	0.6	0.6	0.6	0.6	0.6
16.0	0.6	0.6	0.6	0.6	0.6

Minimum joint (F)

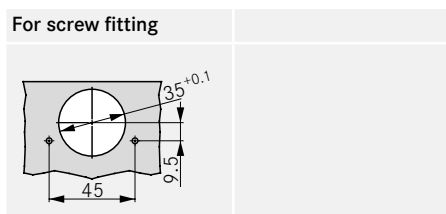
NOTICE

The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can be opened without hindrance.

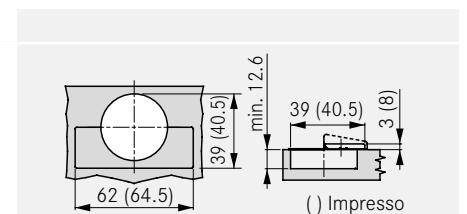
Minimum reveal for doors with chamfered edges (R = 1 mm) with factory setting.

A trial fitting is recommended for door thicknesses from 24 mm.

DRILLING PATTERNS



CUP DIMENSIONS




TIOMOS 110/37E

+37° corner cabinet hinge (inset)

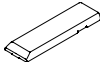


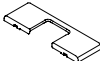


- For 37° angled cabinets
- 110° opening angle
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate
- Minimum reveals


ORDER INFORMATION

Door position		Damper	Spring	Material	Click-on		
					Screw-on		
Inset		■	■	Zamak/Steel	F028138532		

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Standard; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/3/9,5/14/19	F072135500
	Hinge arm; Standard; Steel; Right; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072135550
	Hinge arm; Standard; Steel; Left; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072135551
	Hinge arm; With integrated clip protection; ABS; Left or right; Without Logo	Digital printing	Black	0/3/9,5/14/19	F072140504
	Hinge cup; Standard; Steel; Left or right; Without Logo		Nickel		F072135503

ACCESSORIES

	Designation	Art. no.		Designation	Art. no.
	Clip-off protection	F072135807			

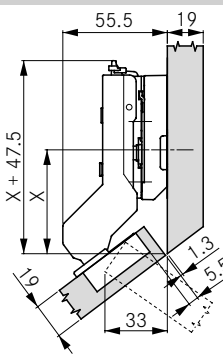
PAGE REFERENCES

Tiomos mounting plates	456	Tipmatic	542		
Accessories	466	Assembly technology	575		
Technical information	470	Assembly aids	580		

PLANNING INFORMATION

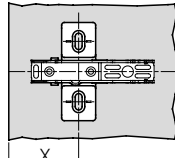
All dimensions in millimetres

Inset



Mounting plate height 12

Door overlay	Cup distance				
	3	4	5	6	7
22.0	12		14		15
21.0		12		14	
20.0			12		14
19.0				12	
18.0	9				
17.0		9.5			12
16.0	8	9	9.5		
15.0		8	9		
	Mounting plate height				



Cross mounting plates with mounting distance 37

Door overlay	Cup distance				
	3	4	5	6	7
22.0	59.0		57.5		56.5
21.0		57.5		56.5	
20.0			56.5		55.0
19.0				55.0	
18.0	56.0				
17.0		54.5			53.0
16.0	54.5	54.0	53.0		
15.0		53.0	52.5		
	Cross mounting plate position (X)				

1
2
3
4

MINIMUM JOINT

Door thickness	Topfabstand				
	3	4	5	6	7
24.0	2.4	2.1	2.1	2.1	2.0
22.0	1.6	1.6	1.6	1.5	1.5
21.0	1.4	1.3	1.3	1.3	1.3
20.0	1.1	1.1	1.1	1.1	1.1
19.0	0.9	0.9	0.9	0.9	0.9
18.0	0.7	0.7	0.7	0.7	0.7
17.0	0.6	0.6	0.6	0.6	0.6
16.0	0.6	0.6	0.6	0.6	0.6
15.0	0.6	0.6	0.6	0.6	0.6
	Minimum joint (F)				

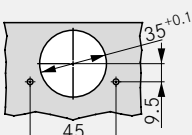
NOTICE

Minimum reveal for doors with chamfered edges (R = 1 mm) with factory setting.

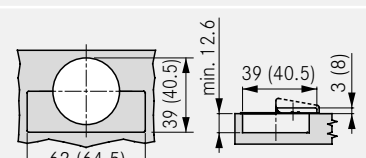
A trial fitting is recommended for door thicknesses from 24 mm.

DRILLING PATTERNS

For screw fitting



CUP DIMENSIONS



() Impresso

TIOMOS 110/45A

+45° corner cabinet hinge (overlay)



- For 45° angled cabinets
- 110° opening angle
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate
- Minimum reveals

ORDER INFORMATION

Door position		Damper	Spring	Material	Click-on		
					Screw-on		
Overlay		■	■	Zamak/Steel	F028 138533		
		-	■	Zamak/Steel	F045 138471		
		-	-	Zamak/Steel	F046 138593¹		

¹Additionally Tipmatic Pin required

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Standard; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/3/9,5/14/19	F072 135500
	Hinge arm; Standard; Steel; Right; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072 135550
	Hinge arm; Standard; Steel; Left; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072 135551
	Hinge arm; With integrated clip protection; ABS; Left or right; Without Logo	Digital printing	Black	0/3/9,5/14/19	F072 140504
	Hinge cup; Standard; Steel; Left or right; Without Logo		Nickel		F072 135503

ACCESSORIES

	Designation	Art. no.
	Tipmatic pin, short, Light grey	F069 149392
	Tipmatic pin, long, Light grey	F069 149389

	Designation	Art. no.
	Clip-off protection	F072 135807

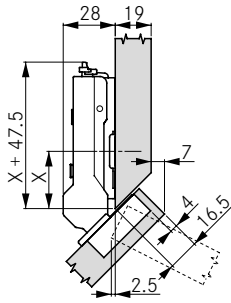
PAGE REFERENCES

Tiomos mounting plates	456	Tipmatic	542		
Accessories	466	Assembly technology	575		
Technical information	470	Assembly aids	580		

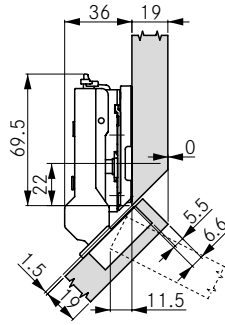
PLANNING INFORMATION

All dimensions in millimetres

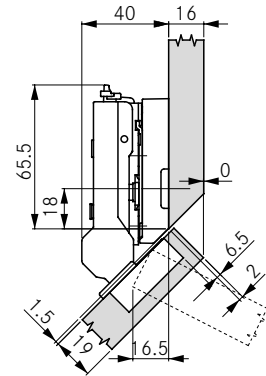
Overlay



Mounting plate height 0

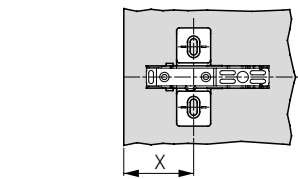


Mounting plate height 8



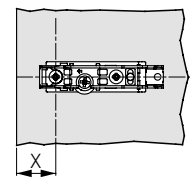
Mounting plate height 12

Door overlay	Cup distance				
	3	4	5	6	7
19.5					0
19.0					
18.5				0	
18.0					
17.5			0		
17.0					
16.5		0			2
16.0					
15.5	0			2	
15.0					3
14.5			2		3.5
14.0				3	
13.5		2		3.5	
13.0			3		
12.5	2		3.5		
12.0		3			
11.0	3				6
10.0				6	
	Mounting plate height				



Cross mounting plates with mounting distance 37

X	Mounting plate height				
	0	2	3	3.5	6
X	30.5	28.5	27.5	27.0	24.5
	Cross mounting plate position (X)				



Linear mounting plate

X	Mounting plate height			
	0	2	3	3.5
X	13.5	11.5	10.5	10.0
	Linear mounting plate position (X)			

MINIMUM GAP

Door thickness	Cup distance				
	3	4	5	6	7
24.0	1.0	1.0	1.0	1.2	2.1
22.0	1.0	1.0	1.0	1.0	1.5
21.0	1.0	1.0	1.0	1.0	1.2
20.0	1.0	1.0	1.0	1.0	1.0
19.0	1.0	1.0	1.0	1.0	1.0
18.0	1.0	1.0	1.0	1.0	1.0
17.0	1.0	1.0	1.0	1.0	1.0
16.0	1.0	1.0	1.0	1.0	1.0
	Minimum gap				

MINIMUM JOINT

Door thickness	Cup distance				
	3	4	5	6	7
24.0	2.4	2.1	2.1	2.1	2.0
22.0	1.6	1.6	1.6	1.5	1.5
21.0	1.4	1.3	1.3	1.3	1.3
20.0	1.1	1.1	1.1	1.1	1.1
19.0	0.9	0.9	0.9	0.9	0.9
18.0	0.7	0.7	0.7	0.7	0.7
17.0	0.6	0.6	0.6	0.6	0.6
16.0	0.6	0.6	0.6	0.6	0.6
	Minimum joint (F)				

NOTICE

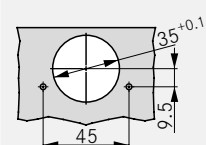
The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can be opened without hindrance.

Minimum reveal for doors with chamfered edges (R = 1 mm) with factory setting.

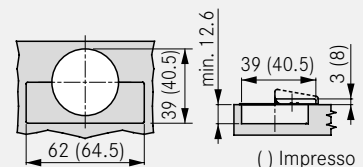
A trial fitting is recommended for door thicknesses from 24 mm.

DRILLING PATTERNS

For screw fitting



CUP DIMENSIONS




TIOMOS 110/45E

+45° corner cabinet hinge (inset)



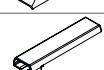



- For 45° angled cabinets
- 110° opening angle
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate
- Minimum reveals


ORDER INFORMATION

Door position		Damper	Spring	Material	Click-on		
					Screw-on		
Inset		■	■	Zamak/Steel	F028 138534		
		-	■	Zamak/Steel	F045 138472		

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Standard; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/3/9,5/14/19	F072 135500
	Hinge arm; Standard; Steel; Right; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072 135550
	Hinge arm; Standard; Steel; Left; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072 135551
	Hinge arm; With integrated clip protection; ABS; Left or right; Without Logo	Digital printing	Black	0/3/9,5/14/19	F072 140504
	Hinge cup; Standard; Steel; Left or right; Without Logo		Nickel		F072 135503

ACCESSORIES

	Designation	Art. no.		Designation	Art. no.
	Clip-off protection	F072 135807			

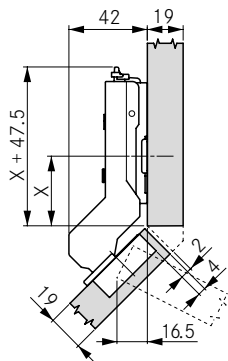
PAGE REFERENCES

Tiomos mounting plates	456	Tipmatic	542		
Accessories	466	Assembly technology	575		
Technical information	470	Assembly aids	580		

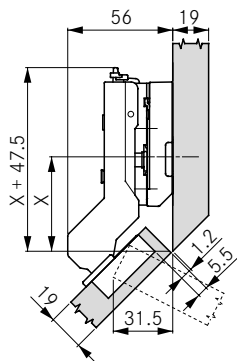
PLANNING INFORMATION

All dimensions in millimetres

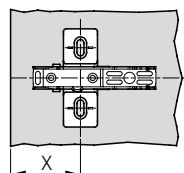
Inset



Mounting plate height 0



Mounting plate height 14



Cross mounting plates with mounting distance 37

Door reveal	Cup distance				
	3	4	5	6	7
1			0		
2		0			2
3	0			2	3
4			2	3	3.5
5		2	3	3.5	
6	2	3	3.5		
7	3	3.5			
8	3.5				

Mounting plate height

Mounting plate height				
0	2	3	3.5	
37	35	34	33.5	

Cross mounting plate position (X)

Door overlay	Cup distance				
	3	4	5	6	7
22		15.5			
21	14		15		
20			14	15	15.5
19	12			15	15
18		12			14
17			12		
16				12	
15					12

Door overlay

Mounting plate height

Door overlay	Cup distance				
	3	4	5	6	7
22		53.0			
21	53.0		51.5		
20			51.0	50.5	50.0
19	52.0			50.0	49.0
18		50.5			48.5
17			49.0		
16				47.5	
15	49.0				46.0

Door overlay

Cross mounting plate position (X)

MINIMUM JOINT

Door thickness	Cup distance				
	3	4	5	6	7
24.0	2.4	2.1	2.1	2.1	2.0
22.0	1.6	1.6	1.6	1.5	1.5
21.0	1.4	1.3	1.3	1.3	1.3
20.0	1.1	1.1	1.1	1.1	1.1
19.0	0.9	0.9	0.9	0.9	0.9
18.0	0.7	0.7	0.7	0.7	0.7
17.0	0.6	0.6	0.6	0.6	0.6
16.0	0.6	0.6	0.6	0.6	0.6

Minimum joint (F)

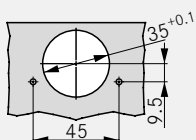
NOTICE

Minimum reveal for doors with chamfered edges (R = 1 mm) with factory setting.

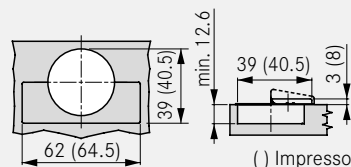
A trial fitting is recommended for door thicknesses from 24 mm

DRILLING PATTERNS

For screw fitting

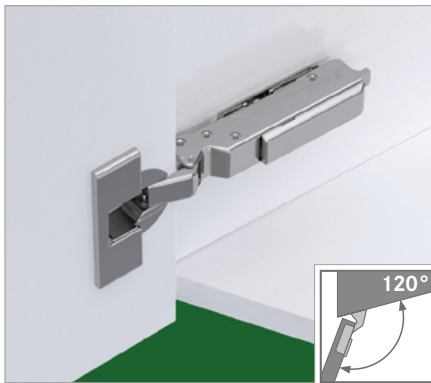


CUP DIMENSIONS




TIOMOS 120/-15A

-15° corner cabinet hinge (overlay)

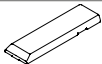





- For -15° angled cabinets
- 120° opening angle
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate
- Minimum reveals


ORDER INFORMATION

Door position		Damper	Spring	Material	Click-on		
					Screw-on		
Overlay		■	■	Zamak/Steel	F028 138555		
		-	■	Zamak/Steel	F045 138493		

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Standard; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/3/9,5/14/19	F072 135500
	Hinge arm; Standard; Steel; Right; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072 135550
	Hinge arm; Standard; Steel; Left; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072 135551
	Hinge arm; With integrated clip protection; ABS; Left or right; Without Logo	Digital printing	Black	0/3/9,5/14/19	F072 140504
	Hinge cup; Standard; Steel; Left or right; Without Logo		Nickel		F072 135503

ACCESSORIES

	Designation	Art. no.		Designation	Art. no.
	Clip-off protection	F072 135807			

PAGE REFERENCES

Tiomos mounting plates	456	Assembly technology	575		
Accessories	466	Assembly aids	580		
Technical information	470				

PLANNING INFORMATION

All dimensions in millimetres

Overlay

Mounting plate height 0

Door overlay	Cup distance				
	3	4	5	6	7
18.0				0	0
17.0				0	
16.0			0		
15.0		0			
14.5				2	3
14.0	0				3.5
13.5			2	3	
13.0				3.5	
12.5		2	3		
12.0			3.5		
11.5		3			6
11.0		3.5			
10.5	3			6	
10.0	3.5				
9.5			6		
8.5		6			

Mounting plate height

Cross mounting plates with mounting distance 37

Linear mounting plates

X	Mounting plate height				
	0	2	3	3.5	6
X	40	40.5	40.5	41	41.5

Cross mounting plate position (X)

X	Mounting plate height				
	0	2	3	3.5	
X	23	23.5	23.5	24	

Cross mounting plate position (X)

1
2
3
4

MINIMUM JOINT

Door thickness	Topfabstand				
	3	4	5	6	7
24.0	6.4	5.4	4.4	3.4	2.4
22.0	3.0	2.0	1.5	1.5	1.5
21.0	1.4	1.3	1.3	1.3	1.3
20.0	1.1	1.1	1.1	1.1	1.1
19.0	0.9	0.9	0.9	0.9	0.9
18.0	0.7	0.7	0.7	0.7	0.7
17.0	1.0	1.0	1.0	1.0	1.5
16.0	1.0	1.0	1.0	1.0	1.0

Minimum joint (F)

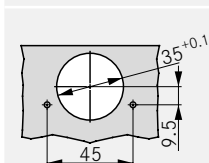
NOTICE

Minimum reveal for doors with chamfered edges (R = 1 mm) with factory setting.

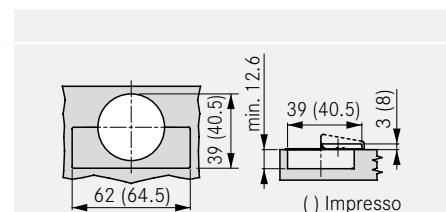
We recommend a trial fitting.

DRILLING PATTERNS

For screw fitting



CUP DIMENSIONS



TIOMOS 120/-30A

-30° corner cabinet hinge (overlay)



- For -30° angled cabinets
- 120° opening angle
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate
- Minimum reveals

ORDER INFORMATION

Door position		Damper	Spring	Material	Click-on		
					Screw-on		
Overlay		■	■	Zamak/Steel	F028138556		
		-	■	Zamak/Steel	F045138494		

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Standard; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/3/9,5/14/19	F072135500
	Hinge arm; Standard; Steel; Right; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072135550
	Hinge arm; Standard; Steel; Left; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072135551
	Hinge arm; With integrated clip protection; ABS; Left or right; Without Logo	Digital printing	Black	0/3/9,5/14/19	F072140504
	Hinge cup; Standard; Steel; Left or right; Without Logo		Nickel		F072135503

ACCESSORIES

	Designation	Art. no.		Designation	Art. no.
	Clip-off protection	F072135807			

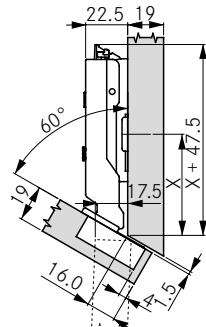
PAGE REFERENCES

Tiomos mounting plates	456	Assembly technology	575		
Accessories	466	Assembly aids	580		
Technical information	470				

PLANNING INFORMATION

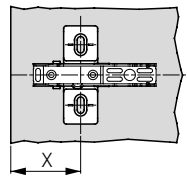
All dimensions in millimetres

Overlay

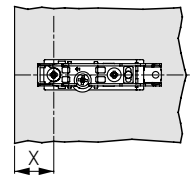


Mounting plate height 0

	Cup distance				
	3	4	5	6	7
19.0					0
18.0				0	
17.0			0		
16.5					2
16.0		0			
15.5				2	
15.0	0				3
14.5			2		3.5
14.0				3	
13.5		2		3.5	
13.0			3		
12.5	2		3.5		
12.0		3			6
11.5		3.5			
11.0	3			6	
10.5	3.5				
10.0			6		
9.0		6			
8.0	6				
	Mounting plate height				



Cross mounting plates with mounting distance 37



Linear mounting plates

	Mounting plate height				
	0	2	3	3.5	6
X	53.5	55	55.5	55.5	57
	Cross mounting plate position (X)				

	Mounting plate height			
	0	2	3	3.5
X	36.5	38	38.5	38.5
	Linear mounting plate position (X)			

MINIMUM JOINT

	Topfabstand				
	3	4	5	6	7
24.0	6.4	5.4	4.4	3.4	2.4
22.0	3.0	2.0	1.5	1.5	1.5
21.0	1.4	1.3	1.3	1.3	1.3
20.0	1.1	1.1	1.1	1.1	1.1
19.0	0.9	0.9	0.9	0.9	0.9
18.0	0.7	0.7	0.7	0.7	0.7
17.0	1.0	1.0	1.0	1.0	1.5
16.0	1.0	1.0	1.0	1.0	1.0
	Minimum joint (F)				

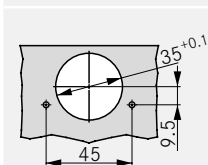
NOTICE

Minimum reveal for doors with chamfered edges (R = 1 mm) with factory setting.

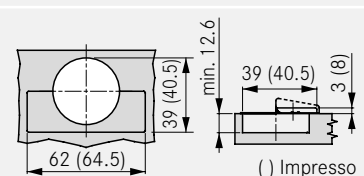
We recommend a trial fitting.

DRILLING PATTERNS

For screw fitting

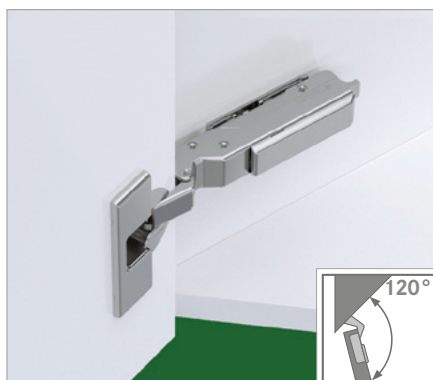


CUP DIMENSIONS



TIOMOS 120/-45A

-45° corner cabinet hinge (overlay)



- For -45° angled cabinets
- 120° opening angle
- With convenient depth adjustment via worm screw
- 3-dimensional adjustment with corresponding mounting plate
- Minimum reveals

ORDER INFORMATION

Door position		Damper	Spring	Material	Click-on		
					Screw-on		
Overlay		■	■	Zamak/Steel	F028 138557		
		-	■	Zamak/Steel	F045 138495		

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Standard; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/3/9,5/14/19	F072 135500
	Hinge arm; Standard; Steel; Right; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072 135550
	Hinge arm; Standard; Steel; Left; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072 135551
	Hinge arm; With integrated clip protection; ABS; Left or right; Without Logo	Digital printing	Black	0/3/9,5/14/19	F072 140504
	Hinge cup; Standard; Steel; Left or right; Without Logo		Nickel		F072 135503

ACCESSORIES

	Designation	Art. no.		Designation	Art. no.
	Clip-off protection	F072 135807			

PAGE REFERENCES

Tiomos mounting plates	456	Assembly technology	575		
Accessories	466	Assembly aids	580		
Technical information	470				

PLANNING INFORMATION

All dimensions in millimetres

Overlay

Mounting plate height 0

Door overlay	Cup distance					
	3	4	5	6	7	
12.0					0	
11.5				0		
10.5			0			
9.5		0			2	
8.5	0			2		
8.0					3	
7.5			2		3.5	
7.0				3		
6.5		2		3.5		
6.0			3			
5.5	2		3.5			
5.0		3				
4.5		3.5				
4.0	3					6
3.5	3.5					
3.0				6		
2.0			6			
1.0		6				
0.0	6					
	Mounting plate height					

Cross mounting plates with mounting distance 37

X	Mounting plate height					
	0	2	3	3.5	6	
X	60.5	62.5	63.5	64	66.5	
	Cross mounting plate position (X)					

Linear mounting plates

X	Mounting plate height				
	0	2	3	3.5	
X	43.5	45.5	46.5	47	
	Linear mounting plate position (X)				

1
2
3
4

MINIMUM JOINT

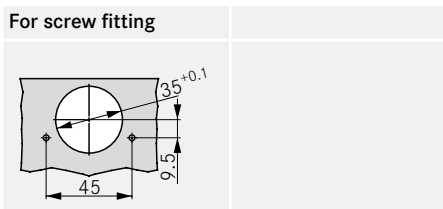
Door thickness	Topfabstand					
	3	4	5	6	7	
24.0	6.4	5.4	4.4	3.4	2.4	
22.0	3.0	2.0	1.5	1.5	1.5	
21.0	1.4	1.3	1.3	1.3	1.3	
20.0	1.1	1.1	1.1	1.1	1.1	
19.0	0.9	0.9	0.9	0.9	0.9	
18.0	0.7	0.7	0.7	0.7	0.7	
17.0	1.0	1.0	1.0	1.0	1.5	
16.0	1.0	1.0	1.0	1.0	1.0	
	Minimum joint (F)					

NOTICE

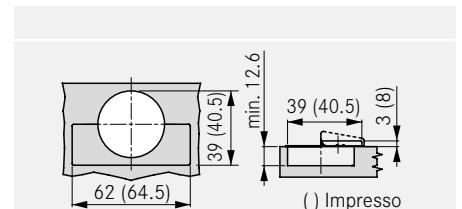
Minimum reveal for doors with chamfered edges (R = 1 mm) with factory setting.

We recommend a trial fitting.

DRILLING PATTERNS

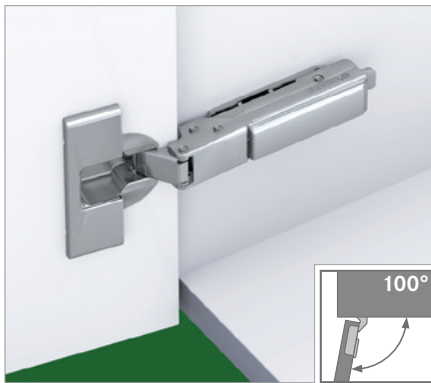


CUP DIMENSIONS



TIOMOS 100

100° refrigerator hinge



- Hinge for fridge doors (sliding system)
- 100° opening angle
- Flat hinge arm
- With self-closing mechanism (with spring)
- 3-dimensional adjustment with corresponding mounting plate

ORDER INFORMATION

Door position		Crank	Damper	Spring	Material	Click-on		
						Press-fit	Screw-on	
Overlay		3	-	■	Zamak/Steel	F045139052	F045139071	

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Standard; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/3/9,5/14/19	F072135500
	Hinge arm; Standard; Steel; Right; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072135550
	Hinge arm; Standard; Steel; Left; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072135551
	Hinge cup; Standard; Steel; Left or right; Without Logo		Nickel		F072135503

ACCESSORIES

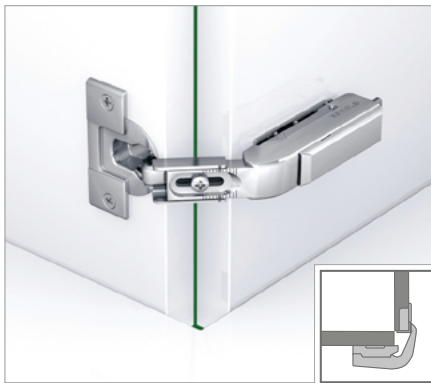
	Designation	Art. no.		Designation	Art. no.
	Clip-off protection	F072135807			

PAGE REFERENCES

Tiomos mounting plates	456	Assembly technology	575		
Accessories	466	Assembly aids	580		
Technical information	470				


TIOMOS PCC

Pie-cut corner hinge

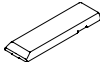


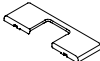


- For connecting two corner cabinet doors
- For door thicknesses up to 24 mm (factory setting for 19 mm door thickness with cup distance 3.5 mm)
- 35 mm full cup drill hole
- Shallow cup depth of 11.8 mm
- 3-dimensional adjustment with corresponding mounting plate
- Without integrated damper


ORDER INFORMATION

Door position		Damper	Spring	Material	Click-on		
					Press-fit	Screw-on	
-		-	■	Zamak/Steel	F045138518	F045138517	

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Standard; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/3/9,5/14/19	F072135500
	Hinge arm; Standard; Steel; Right; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072135550
	Hinge arm; Standard; Steel; Left; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072135551
	Hinge arm; With integrated clip protection; ABS; Left or right; Without Logo	Digital printing	Black	0/3/9,5/14/19	F072140504
	Hinge cup; Standard; Steel; Left or right; Without Logo		Nickel		F072135503

ACCESSORIES

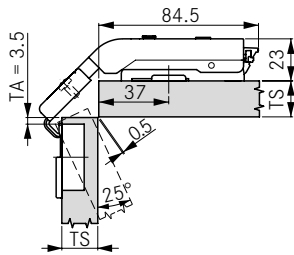
	Designation	Art. no.		Designation	Art. no.
	Clip-off protection	F072135807			

PAGE REFERENCES

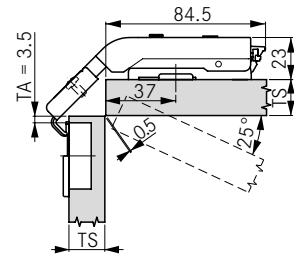
Tiomos mounting plates	456	Assembly technology	575		
Accessories	466	Assembly aids	580		
Technical information	470				

PLANNING INFORMATION

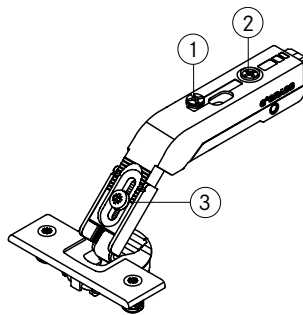
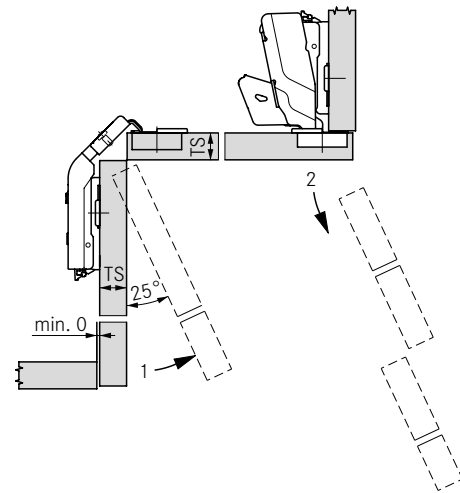
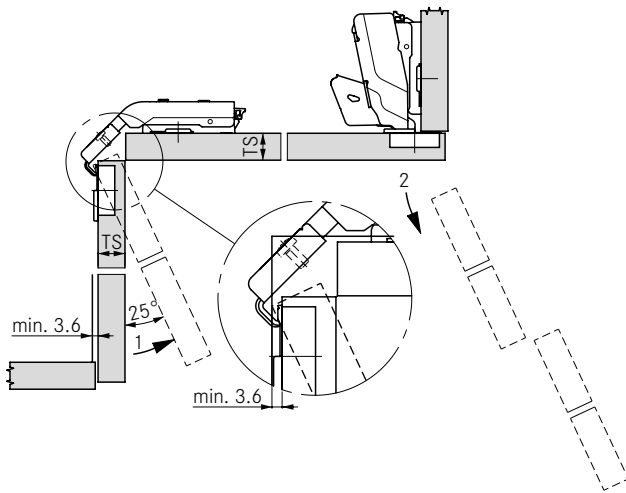
All dimensions in millimetres



Door thickness (TS) 14-24 mm
cup distance (TA) 3.5 mm
mounting plate height 0
factory setting 19 mm



Door thickness (TS) 14-24 mm
cup distance (TA) 3.5 mm
mounting plate height 0
factory setting 19 mm



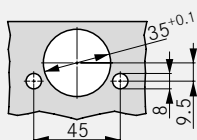
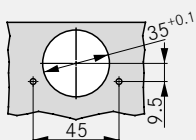
Adjustment in the hinge arm:
1. Stepless side adjustment ± 2 mm
2. Stepless depth adjustment via threaded screw $+3/-2$ mm
3. Door thickness 14-24 mm (factory setting 19 mm)

Height adjustment via mounting plate

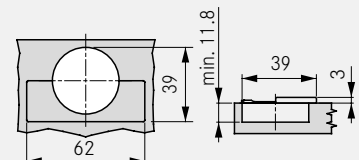
DRILLING PATTERNS

For screw fitting

For press fitting



CUP DIMENSIONS



Tiomos Mirro. Crystal clear.

Complete damping comfort for elegant glass and mirror doors.

In addition to the clever fastening technology that ensures firm and stable support, Tiomos Mirro is an elegant solution for high-quality mirror and glass doors. The Soft-close damping system integrated into the hinge arm of the proven Tiomos hinge generation ensures an elegant, flowing movement when opening and closing high-quality glass and mirror doors, which is barely noticeable and particularly gentle on the fragile material.



The Tiomos Mirro glass and mirror door hinge in the extensive Tiomos hinge range is also available in the modern Night colour option, thus elegantly and inconspicuously echoing the trend towards dark materials.



Tiomos M0. Thin door hinge

Firm and stable support for particularly slim door applications.

The Tiomos M0 can be easily screwed onto the furniture door, which allows a wide range of materials with thicknesses from 6 to 10 mm to be used. And all without a cup hole. This means that Tiomos M0 enables the use of thin materials such as aluminium and underlines the aspiration of the Tiomos range to cover all applications. Available with or without integrated Soft-close damping system.



Effortlessly compatible.

The self-adhesive adapter for the Tiomos Mirro hinge can be easily mounted on existing self-adhesive adapters from the Nexis series.

Tiomos M series

One system.

Three applications.

With the Tiomos M series, GRASS offers perfect movement for thin doors, glass and mirror doors as well as rebated doors or doors with mitred application. Available with and without damping system or with optional self-opening mechanism. In short: Tiomos meets all requirements to do justice to the growing demands of modern furniture construction.

Tiomos M9 combines all the advantages of the Tiomos hinge series for furniture doors from 12 mm.



Tiomos M9



Maximum stability for thin furniture doors from 12 mm.

In modern furniture construction, surfaces and furniture doors are becoming thinner. But with Tiomos M9, there is no need to compromise on opening and closing comfort. The unique hinge system remains permanently stable in any position, even with a front thickness of just 12 mm. The perfected movement sequences match the trend towards uncompromising furniture design.

Rebated doors with stepwise adjustable Soft-close closing damper.

There are furniture doors to meet every taste, so it is ideal when a hinge can be used for many individual solutions. Plus, Tiomos M9 is the only thin door hinge in the world to feature fully integrated, tool-free adjustable damping technology. This enables the use of hinges of the same design with or without a damping system in high-quality furniture construction.

High-tech functionality for doors with four-sided mitred application.

The 56 components of the complex interior and physically optimised kinematics allow furniture doors to be opened with great ease up to an opening angle of 110°. These optimised movement sequences enable four-sided mitred applications while also protecting the material.

Firm and stable support for glass and thin doors.

tiomos m series.



With the Tiomos M series, GRASS offers perfect movement for thin doors from 6 mm, glass and mirror doors as well as rebated doors or doors with mitred application. Each available with or without the Soft-close damping system.



reddot design award
honourable mention 2010

THREE VERSATILE HINGES FOR EVEN THE MOST DEMANDING DOOR APPLICATIONS.

DISCOVER.


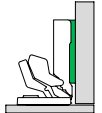
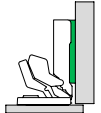
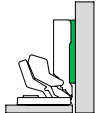

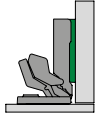
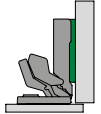
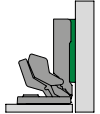

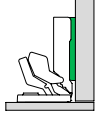
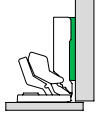
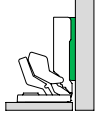

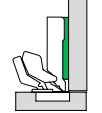
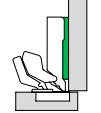
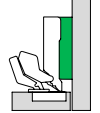

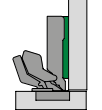
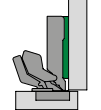
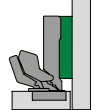


QUALITÄTS-ZERTIFIKAT
LGAI

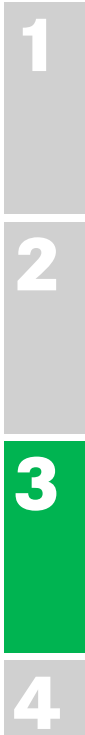


Tiomos M Series Hinge Systems

The comfortable hinge generation for greater freedom in design.
For mirror doors, glass doors, thin doors and much more.

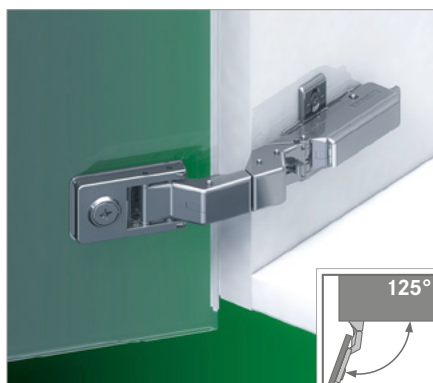
Opening angle		Description	Full overlay	Half overlay	Inset	Page
125°		Tiomos Mirro <ul style="list-style-type: none"> • Glass and mirror door hinge for glue fitting • Worm screw for convenient depth adjustment 				442
125°		Tiomos Night Mirro <ul style="list-style-type: none"> • Glass and mirror door hinge for glue fitting • Worm screw for convenient depth adjustment 				444
125°		Tiomos M0 <ul style="list-style-type: none"> • For four-sided mitred applications, thin doors and rebated doors • Worm screw for convenient depth adjustment 				448
110°		Tiomos M9 <ul style="list-style-type: none"> • For four-sided mitred applications, thin doors and rebated doors • Worm screw for convenient depth adjustment 				450
110°		Tiomos Night M9 <ul style="list-style-type: none"> • For four-sided mitred applications, thin doors and rebated doors • Worm screw for convenient depth adjustment 				452

Tiomos mounting plates	456
Accessories	466
Technical information	470



TIOMOS MIRRO

125° mirror/clear glass hinge



- 125° opening angle
- Attachment by gluing a stainless steel adapter onto the door side for mirrors or a zamak adapter for clear glass
- Connection of hinge to adapter via cam
- Quick final assembly without drilling into glass
- High overlay up to 19 mm
- 3-dimensional adjustment with corresponding mounting plate

ORDER INFORMATION

Door position		Crank	Damper	Spring	Material	Click-on		
						Screw-on		
Overlay		14	■	■	Zamak	F029140325		
Half overlay		14	-	■	Zamak	F047140326		
Inset		14	-	-	Zamak	F049140327¹		

¹Additionally Tipmatic Pin required

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Standard; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/3/9,5/14/19	F072135500
	Hinge arm; Standard; Steel; Right; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072135550
	Hinge arm; Standard; Steel; Left; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072135551
	Hinge arm; With integrated clip protection; ABS; Left or right; Without Logo	Digital printing	Black	0/3/9,5/14/19	F072140504

ACCESSORIES

	Designation	Art. no.
	Tipmatic pin, short, Light grey	F069149392
	Tipmatic pin, long, Light grey	F069149389
	Tiomos Opening angle limiter, 85°	F072135871
	Tiomos/Nexis Mirro Stainless steel adapter for mirrors	F069073731

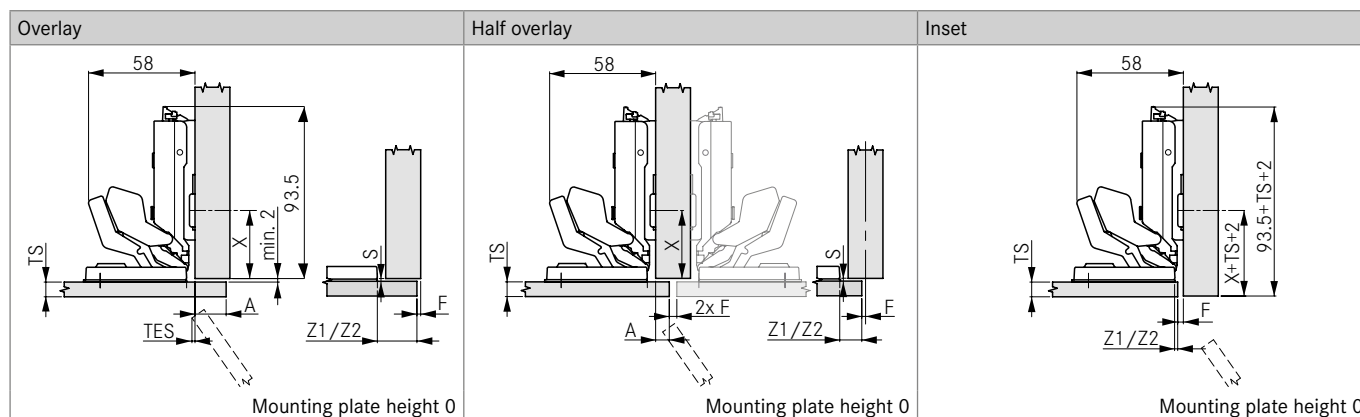
	Designation	Art. no.
	Tiomos Mirro Zamak adapter for mirrors and clear glass	F072135868
	Tiomos +5° wedge	F072135757
	Tiomos -5° wedge	F072135758

PAGE REFERENCES

Tiomos mounting plates	456	Tipmatic	542		
Accessories	466	Assembly technology	575		
Technical information	470	Assembly aids	580		

PLANNING INFORMATION

All dimensions in millimetres



MINIMUM GAP/MINIMUM JOINT

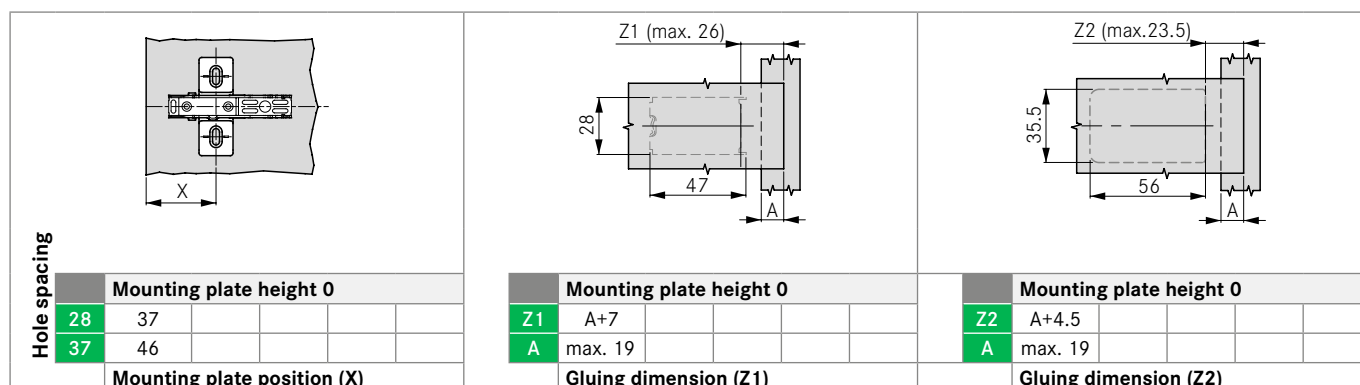
Values with Mounting plate height 0

Gluing dimension stainless steel (Z1)	4	5	13	15	17	19	21	22	24	26
Gluing dimension Zamak (Z2)	1.5	2.5	10.5	12.5	14.5	16.5	18.5	19.5	21.5	23.5
Door protrusion (TES)	0	0	0	0	0	0	0	0.5	1.5	3
Door overlay (A)	-3	-2	6	8	10	12	14	15	17	19
Min. joint width (F)/ Gap width (S)	F	S	F	S	F	S	F	S	F	S
Door thickness 3-8 (TS)	2	2	2	2	2	2	2	2	2	2

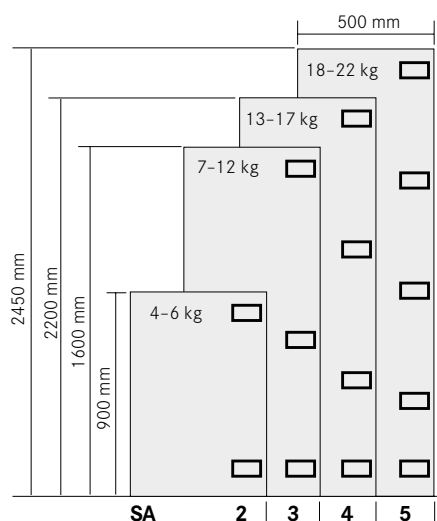
ECO CROSS MOUNTING PLATE

STAINLESS STEEL ADAPTER

ZAMAK ADAPTER



NUMBER OF HINGES



NOTICE

An inset application is achieved by altering the fixing distance of the mounting plate (X) and reducing the gluing distance (Z).

❗ **Important:** Mirro hinges must not be used with cam mounting plates.

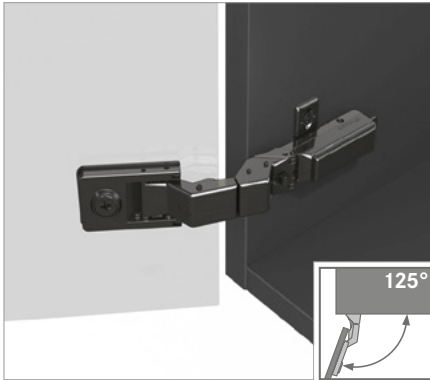
❗ **Important:** For mirror or glass doors, all reveals must be at least 1.5 mm (otherwise there is a risk of breakage). The inside edge of the door must not touch the cabinet when opened.

❗ **Installation advice:** Please contact your glass or door supplier regarding the selection and application of the adhesive for fixing the hinge seat to mirror or glass doors.

❗ **Liability claims:** Please note that GRASS does not assume any liability for the adhesive and the gluing technique used, nor for any resulting claims.

TIOMOS NIGHT MIRRO

125° mirror/clear glass hinge



- 125° opening angle
- Attachment by gluing a stainless steel adapter onto the door side for mirrors or a zamak adapter for clear glass
- Connection of hinge to adapter via cam
- Quick final assembly without drilling into glass
- High overlay up to 19 mm
- 3-dimensional adjustment with corresponding mounting plate
- Especially for dark cabinet materials and woods

ORDER INFORMATION

Door position		Crank	Damper	Spring	Material	Click-on		
						Screw-on		
Overlay		14	■	■	Zamak	F029 140468		
Half overlay		14	-	-	Zamak	F049 140470¹		
Inset								

¹Additionally Tipmatic Pin required

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Standard; Steel; Left or right; Without Logo	Stamping	Night	0/3/9,5/14/19	F072140519

ACCESSORIES

	Designation	Art. no.
	Tipmatic pin, short, Black	F069149391
	Tipmatic pin, long, Black	F069149388
	Tiomos Opening angle limiter, 85°	F072135871
	Tiomos/Nexis Mirro Stainless steel adapter for mirrors	F069073731

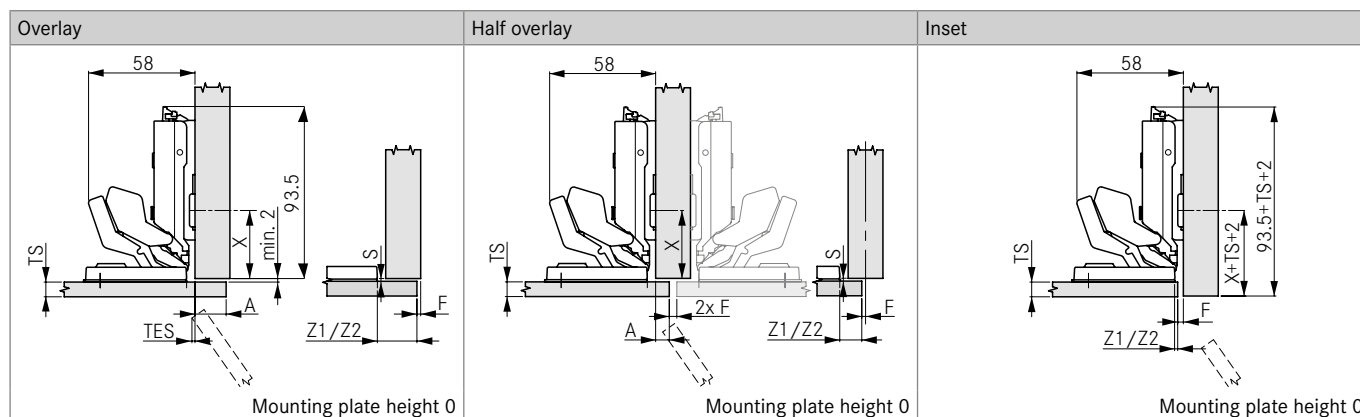
	Designation	Art. no.
	Tiomos Mirro Zamak adapter for mirrors and clear glass	F072135868
	Tiomos +5° wedge	F072135757
	Tiomos -5° wedge	F072135758

PAGE REFERENCES

Tiomos mounting plates	456	Tipmatic	542		
Accessories	466	Assembly technology	575		
Technical information	470	Assembly aids	580		

PLANNING INFORMATION

All dimensions in millimetres



MINIMUM GAP/MINIMUM JOINT

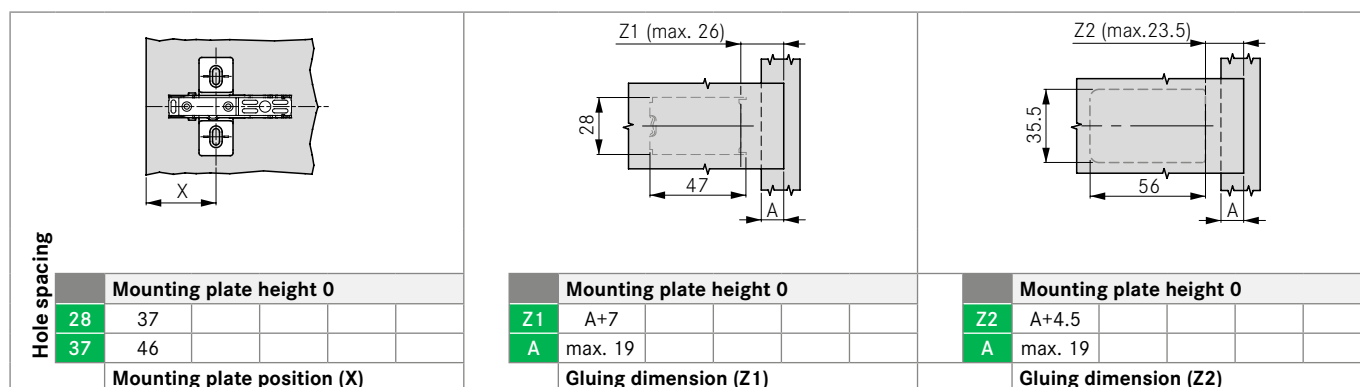
Values with Mounting plate height 0

Gluing dimension stainless steel (Z1)	4	5	13	15	17	19	21	22	24	26
Gluing dimension Zamak (Z2)	1.5	2.5	10.5	12.5	14.5	16.5	18.5	19.5	21.5	23.5
Door protrusion (TES)	0	0	0	0	0	0	0	0.5	1.5	3
Door overlay (A)	-3	-2	6	8	10	12	14	15	17	19
Min. joint width (F)/ Gap width (S)	F	S	F	S	F	S	F	S	F	S
Door thickness 3-8 (TS)	2	2	2	2	2	2	2	2	2	2

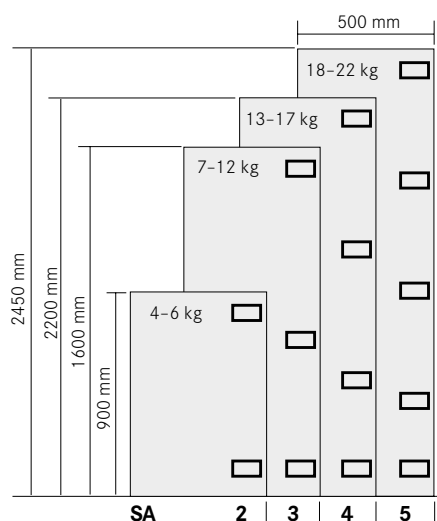
ECO CROSS MOUNTING PLATE

STAINLESS STEEL ADAPTER

ZAMAK ADAPTER



NUMBER OF HINGES



NOTICE

An inset application is achieved by altering the fixing distance of the mounting plate (X) and reducing the gluing distance (Z).

❗ **Important:** Mirro hinges must not be used with cam mounting plates.

❗ **Important:** For mirror or glass doors, all reveals must be at least 1.5 mm (otherwise there is a risk of breakage). The inside edge of the door must not touch the cabinet when opened.

❗ **Installation advice:** Please contact your glass or door supplier regarding the selection and application of the adhesive for fixing the hinge seat to mirror or glass doors.

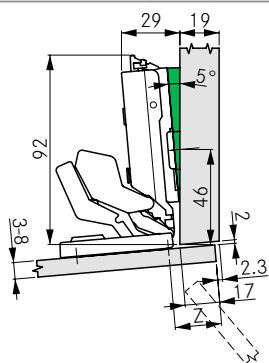
❗ **Liability claims:** Please note that GRASS does not assume any liability for the adhesive and the gluing technique used, nor for any resulting claims.


TIOMOS MIRRO

125° mirror/clear glass hinge

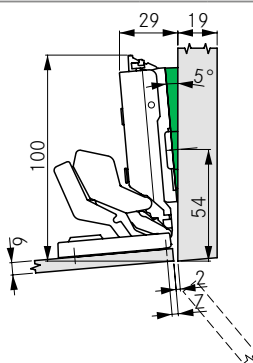
Corner applications


+5° WEDGE overlay



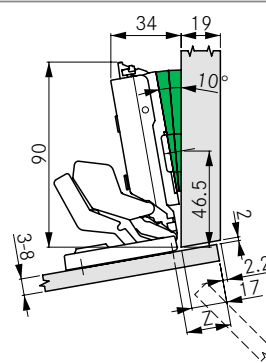
Adapter	Z	 min. 20
Stainless steel	22.5	
Zamak	20	
Height	Art. no.	
ECO cross mounting plate	0	F058139721
+5° wedge	3	F072135757


+5° WEDGE overlay



Adapter	Z	 min. 20
Stainless steel	3	
Zamak	0.5	
Height	Art. no.	
ECO cross mounting plate	0	F058139721
+5° wedge	3	F072135757

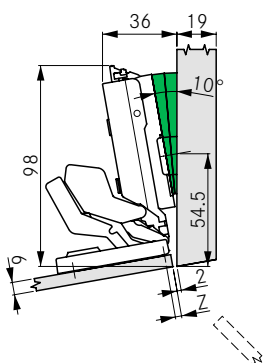
+10° WEDGE overlay




Adapter	Z	 min. 25
Stainless steel	21.5	
Zamak	19	
Height	Art. no.	
ECO cross mounting plate	0	F058139721
+5° wedge (2x)	3	F072135757

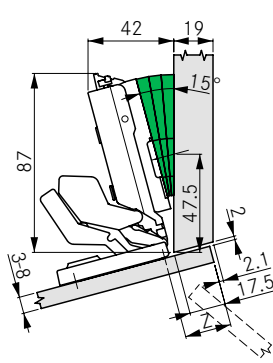
Corner applications


+10° WEDGE inset



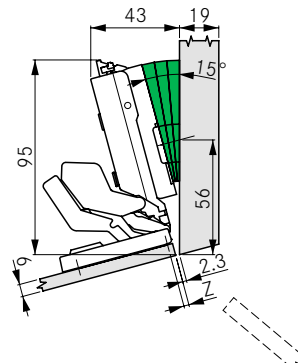
Adapter	Z	 min. 25
Stainless steel	3	
Zamak	0.5	
Height	Art. no.	
ECO cross mounting plate	0	F058139721
+5° wedge (2x)	3	F072135757


+15° WEDGE overlay



Adapter	Z	 min. 30
Stainless steel	22.5	
Zamak	0.5	
Height	Art. no.	
ECO cross mounting plate	2	F058139722
+5° wedge (3x)	3	F072135757

+15° WEDGE inset



Adapter	Z	 min. 30
Stainless steel	2.5	
Zamak	0	
Height	Art. no.	
ECO cross mounting plate	3.5	F058139724
+5° wedge (3x)	3	F072135757

PAGE REFERENCES

Tiomos mounting plates	456	Tipmatic	542
Accessories	466	Assembly technology	575
Technical information	470	Assembly aids	580

Corner applications

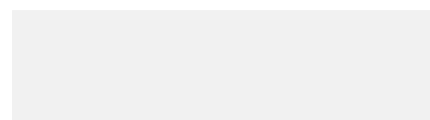
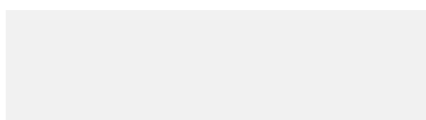
-5° WEDGE overlay			-5° WEDGE inset			-10° WEDGE inset		
Adapter	Z		Adapter	Z		Adapter	Z	
Stainless steel	22.5		Stainless steel	14		Stainless steel	23.5	
Zamak	20		Zamak	11.5		Zamak	21	
	Height	Art. no.		Height	Art. no.		Height	Art. no.
ECO cross mounting plate	0	F058139721	ECO cross mounting plate	0	F058139721	ECO cross mounting plate	0	F058139721
-5° wedge	3	F072135758	-5° wedge	3	F072135758	-5° wedge (2x)	3	F072135758

NOTICE

A trial fitting is recommended for all door thicknesses.

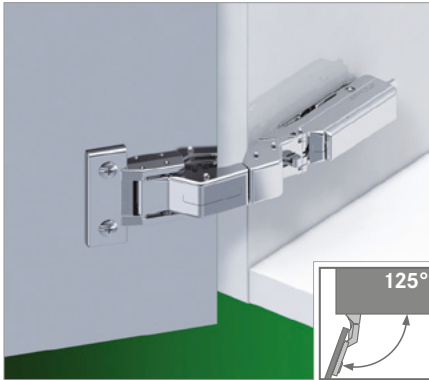
LEGEND

Z	Gluing dimension
---	------------------



TIOMOS M0

125° hinge (door thicknesses from 6 to 10 mm)



- For door thicknesses of 6–10 mm
- No cup hole necessary
- 3-dimensional adjustment
- For door overlays up to 25 mm
- Compatible with all mounting plates in the Tiomos series
- Zero protrusion up to 14 mm overlay
- 125° opening angle

ORDER INFORMATION

Door position	Crank	Damper	Spring	Material	Screw-on		
Full overlay	14	■	■	Zamak	F029 140331		
Half overlay	14	-	■	Zamak	F047 140332		
Inset	14	-	-	Zamak	F049 140333¹		

¹Additionally Tipmatic Pin required

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Standard; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/3/9,5/14/19	F072 135500
	Hinge arm; Standard; Steel; Right; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072 135550
	Hinge arm; Standard; Steel; Left; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072 135551
	Hinge arm; With integrated clip protection; ABS; Left or right; Without Logo	Digital printing	Black	0/3/9,5/14/19	F072 140504

ACCESSORIES

	Designation	Art. no.		Designation	Art. no.
	Tipmatic pin, short, Light grey	F069 149392		Screw set, Countersunk screws M4 x 8 mm (100x), sleeves M4 x 5.5 mm (100x), Allen key (1x)	F072 135928
	Tipmatic pin, long, Light grey	F069 149389		Tiomos +5° wedge	F072 135757
	Tiomos Opening angle limiter, 85°	F072 135871		Tiomos -5° wedge	F072 135758

ATTACHMENT OPTIONS

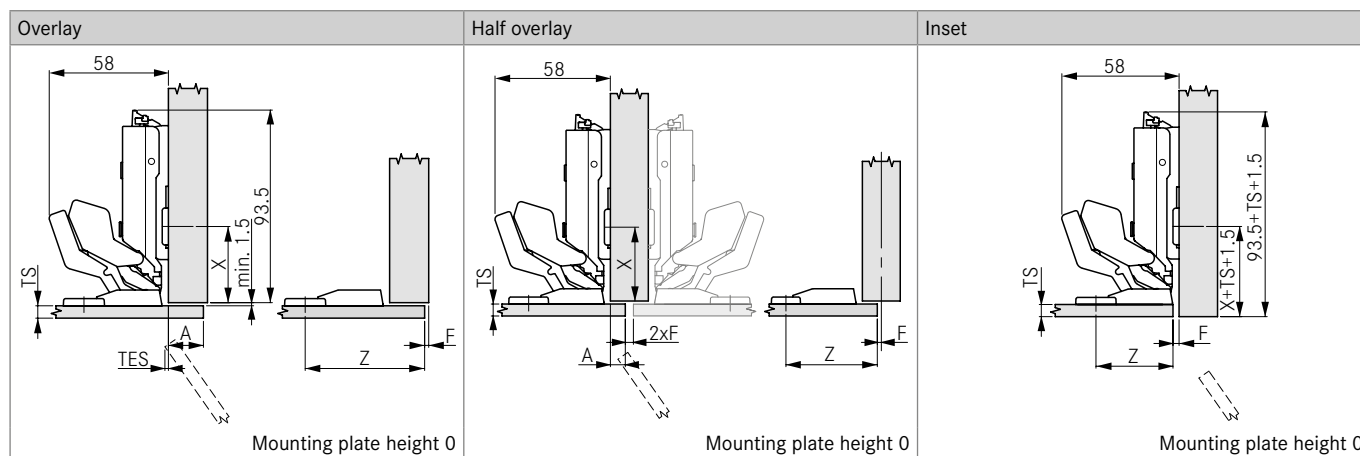
	Material	Material				
		MDF	Chipboard	HPL	Mineral composite	Aluminium
Material thickness	6 mm	-	-	-	-	F072 135947
	6.4 mm	-	-	-	-	
	8 mm	F146073979	F146073979	F146073979	F072 135928	
	10 mm				F072 135928	

PAGE REFERENCES

Tiomos mounting plates	456	Tipmatic	542		
Accessories	466	Assembly technology	575		
Technical information	470	Assembly aids	580		

PLANNING INFORMATION

All dimensions in millimetres



MINIMUM GAP/MINIMUM JOINT

Values for mounting plate height 0

Screwing distance (Z)	38	39	47	49	51	53	55	56	58	60	61	63	64	66										
Door protrusion (TES)	0	0	0	0	0	0	0	0.5	1.5	3	3.4	0	0	0										
Door overlay (A)	-3	-2	6	8	10	12	14	15	17	19	20	22 ¹	23 ¹	25 ¹										
Min. joint width (F)/ Gap width (S)	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S	F	S						
Door thickness 6-10 (TS)	2	1.5	2	1.5	2	1.5	2	1.5	2	1.5	2	1.5	2	1.5	2	1.5	2	1.5	2	2.5	2	3	3	3

¹ Door overlay A = 22-25 only with angle reduction.

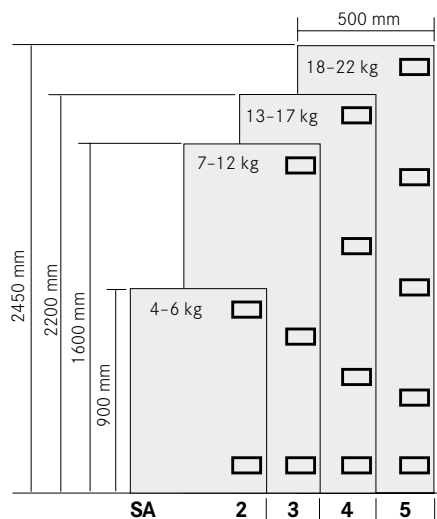
CROSS MOUNTING PLATE

LINEAR MOUNTING PLATE

SCREW-ON POSITION

Hole spacing	Mounting plate height 0				X	Mounting plate height 0				Z	Mounting plate height 0			
	28	37				29					A+41			
	37	46									Max. 25			
Mounting plate position (X)				Mounting plate position (X)				Screwing distance (Z)						

NUMBER OF HINGES



NOTICE

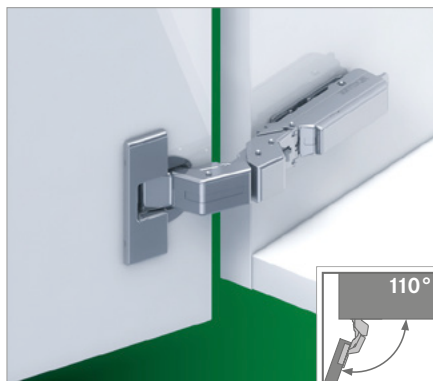
An inset application is achieved through the mounting plate position (X) and a reduced housing screwing distance (Z).

- ① **Installation advice: Countersunk screw M4 x 8 mm:**
 1. Drill hole with dia. 3.3 mm
 2. Cut thread to dia. 4 mm
 3. Fit the hinge and fix with the screws
- ② **Installation advice: Countersunk screw M4 x 8 mm with sleeve M4 x 5.5 mm:**
 1. Drill hole with dia. 5 mm
 2. Drilling depth: 6 mm
 3. Slightly countersink the edge of the hole
 4. Insert the sleeve
 5. Knock in the sleeve using a hammer
 6. Fit the hinge and fix with the screws

- ③ **Installation advice: Euro cheese head dia. 6.3 x 10.5 mm:**
 1. Drill hole with dia. 5 mm
 2. Fit the hinge and fix with the screws
- ④ **Installation advice:** The pull-out resistance can vary based on the type and thickness of the door material, despite using the same fixing method. Please contact your door material supplier regarding the selection and installation of the door material.
- ⑤ **Liability claims:** Please note that GRASS does not assume any liability for damages arising from the use of unsuitable fastening materials or fixing methods.

TIOMOS M9

110° hinge (door thicknesses from 12 mm)



- For door thicknesses up to max. 28 mm
- 35 mm full cup drill hole
- Shallow cup depth of 9 mm
- For door overlays up to 25 mm
- 3-dimensional adjustment with corresponding mounting plate

ORDER INFORMATION

Door position		Crank	Damper	Spring	Material	Click-on		
						Screw-on		
Full overlay		14	■	■	Zamak	F029140338		
Half overlay		14	-	■	Zamak	F047140339		
Inset		14	-	-	Zamak	F049140340¹		

¹Additionally Tipmatic Pin required

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Standard; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/3/9,5/14/19	F072135500
	Hinge arm; Standard; Steel; Right; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072135550
	Hinge arm; Standard; Steel; Left; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072135551
	Hinge arm; With integrated clip protection; ABS; Left or right; Without Logo	Digital printing	Black	0/3/9,5/14/19	F072140504
	Hinge cup; Standard; Steel; Left or right; Without Logo		Nickel		F072135503

ACCESSORIES

	Designation	Art. no.
	Tipmatic pin, short, Light grey	F069149392
	Tipmatic pin, long, Light grey	F069149389

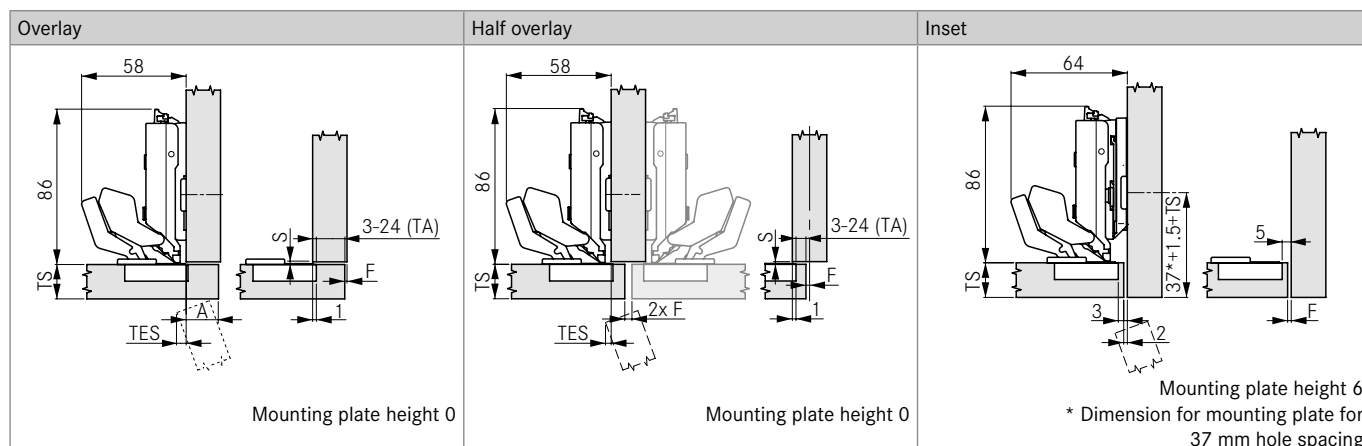
	Designation	Art. no.
	Tiomos Opening angle limiter, 85°	F072135871

PAGE REFERENCES

Installation information	454	Technical information	470	Assembly aids	580
Tiomos mounting plates	456	Tipmatic	542		
Accessories	466	Assembly technology	575		

PLANNING INFORMATION

All dimensions in millimetres



MINIMUM GAP/MINIMUM JOINT

Values for mounting plate height 0

Door thickness (TS)	Cup distance (TA)		Door protrusion (TES)		Door overlay (A)		Min. joint width (F)/ Gap width (S)	
	F	S	F	S	F	S	F	S
12-20	1	1.5	1	1.5	1	1.5	1	1.5
22	1	1.5	1	1.5	1	1.5	1	1.5
24	1	1.5	1.2	1.5	1.3	1.5	1.5	1.5
26	2.2	1.5	2.4	1.5	2.7	1.5	3.1	1.5
28	3.9	1.5	4.3	1.5	5.1 ¹	1.5	6.3 ¹	1.5

Door thickness (TS)	Cup distance (TA)		Door protrusion (TES)		Door overlay (A)		Min. joint width (F)/ Gap width (S)	
	F	S	F	S	F	S	F	S
12-20	1	1.5	1	1.5	1	1.5	1	1.5
22	4	1.5	3.5	1.5	3	1.5	2.2	1.5
24	6	1.5	5.2	1.5	4.5	1.5	4	1.5
26	8	1.5	7.2	1.5	6.4	1.5	5.8	1.5
28	10 ¹	1.5	9.2	1.5	8.4	1.5	7.6	1.5

¹ Value can be obtained by using an 85° opening angle reduction clip

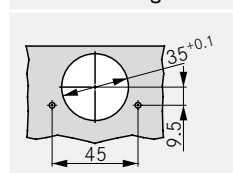
NOTICE

Minimum reveal for doors with chamfered edges (R = 1 mm) with factory setting.

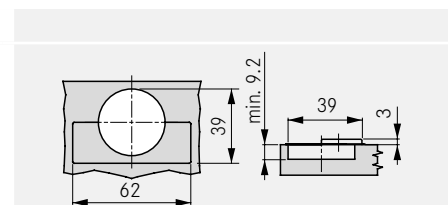
A trial fitting is recommended for all door thicknesses.

DRILLING PATTERNS

For screw fitting

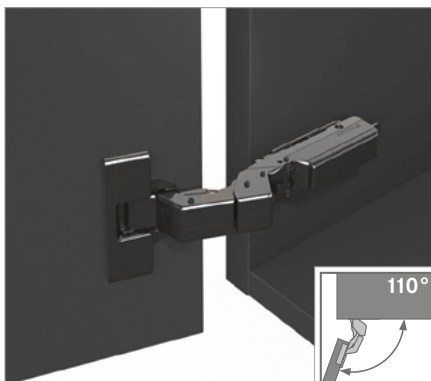


CUP DIMENSIONS



TIOMOS NIGHT M9

110° hinge (door thicknesses from 12 mm)



- For door thicknesses up to max. 28 mm
- 35 mm full cup drill hole
- Shallow cup depth of 9 mm
- For door overlays up to 25 mm
- 3-dimensional adjustment with corresponding mounting plate
- Especially for dark cabinet materials and woods

ORDER INFORMATION

Door position		Crank	Damper	Spring	Material	Click-on		
						Screw-on		
Full overlay		14	■	■	Zamak	F029 140467		
Half overlay		14	-	-	Zamak	F049 140472¹		
Inset								

¹Additionally Tipmatic Pin required

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Standard; Steel; Left or right; Without Logo	Stamping	Night	0/3/9,5/14/19	F072 140519
	Hinge cup; Standard; Steel; Left or right; Without Logo		Night		F072 140520

ACCESSORIES

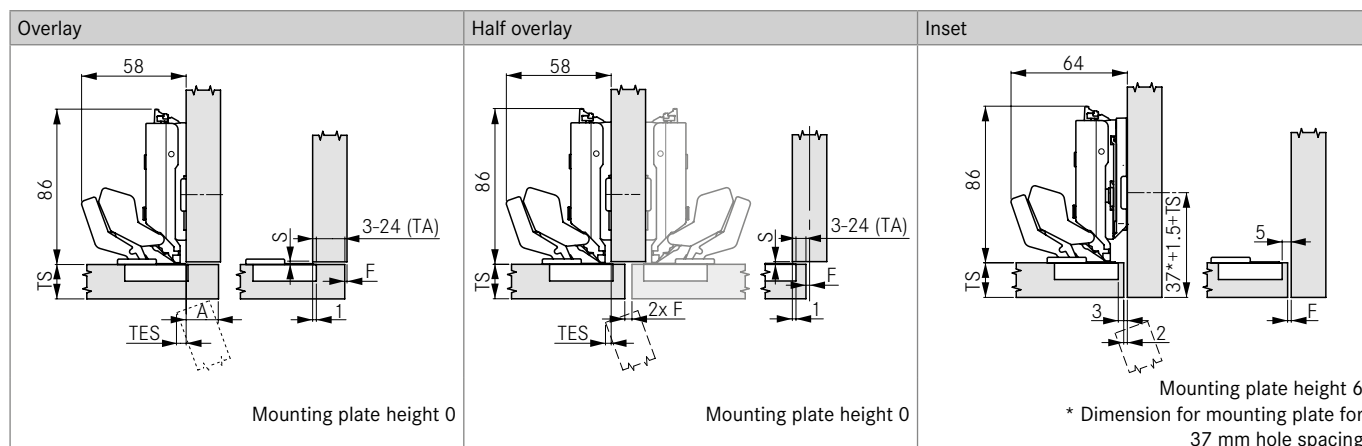
	Designation	Art. no.		Designation	Art. no.
	Tipmatic pin, short, Black	F069 149391		Tiomos Opening angle limiter, 85°	F072 135871
	Tipmatic pin, long, Black	F069 149388		Countersunk head wood screw, Night, 3.5 x 15 mm	F072 135961

PAGE REFERENCES

Installation information	454	Technical information	470	Assembly aids	580
Tiomos mounting plates	456	Tipmatic	542		
Accessories	466	Assembly technology	575		

PLANNING INFORMATION

All dimensions in millimetres



MINIMUM GAP/MINIMUM JOINT

Values for mounting plate height 0

Door thickness (TS)	Cup distance (TA)		Door protrusion (TES)		Door overlay (A)		Min. joint width (F)/ Gap width (S)	
	F	S	F	S	F	S	F	S
12-20	1	1.5	1	1.5	1	1.5	1	1.5
22	1	1.5	1	1.5	1	1.5	1	1.5
24	1	1.5	1.2	1.5	1.3	1.5	1.5	1.5
26	2.2	1.5	2.4	1.5	2.7	1.5	3.1	1.5
28	3.9	1.5	4.3	1.5	5.1 ¹	1.5	6.3 ¹	1.5

Door thickness (TS)	Cup distance (TA)		Door protrusion (TES)		Door overlay (A)		Min. joint width (F)/ Gap width (S)	
	F	S	F	S	F	S	F	S
12-20	1	1.5	1	1.5	1	1.5	1	1.5
22	4	1.5	3.5	1.5	3	1.5	2.2	1.5
24	6	1.5	5.2	1.5	4.5	1.5	4	1.5
26	8	1.5	7.2	1.5	6.4	1.5	5.8	1.5
28	10 ¹	1.5	9.2	1.5	8.4	1.5	7.6	1.5

¹ Value can be obtained by using an 85° opening angle reduction clip

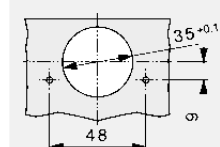
NOTICE

Minimum reveal for doors with chamfered edges (R = 1 mm) with factory setting.

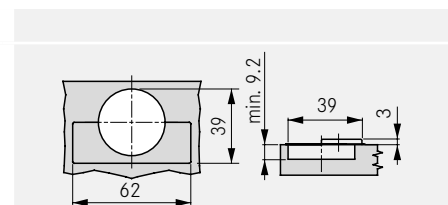
A trial fitting is recommended for all door thicknesses.

DRILLING PATTERNS

For screw fitting



CUP DIMENSIONS

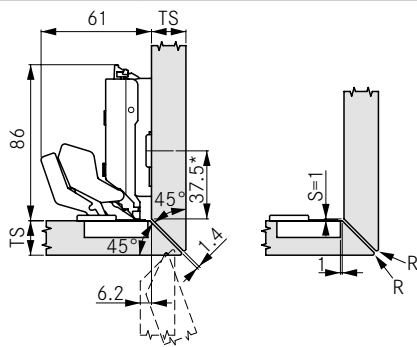


TIOMOS M9

110° hinge (door thicknesses from 12 mm)

Mitred application – all 4 sides and side

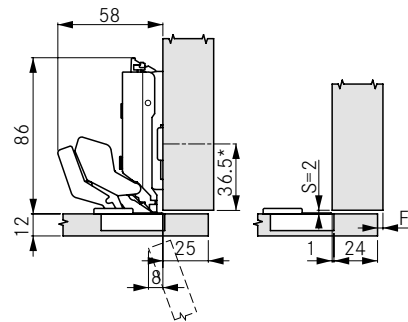
12-24 mm



Mounting plate height 3
* Dimension for mounting plate for 37 mm hole spacing

Door thickness (TS)	Mitre, all 4 sides	Mitre, side
	R (min.)	R (min.)
12-17	0	0
18	0.2	0
19	1	0.4
20	1.5	1
21	2.2	1.8
22	3	2.5
24	4.3	4.1

Max. overlay



Mounting plate height 0
* Dimension for mounting plate for 37 mm hole spacing

NOTICE

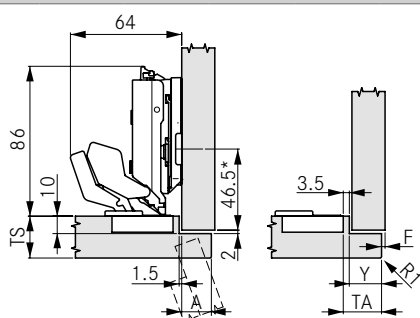
1.4 mm reveal with mitre on all sides.

PAGE REFERENCES

Tiomos mounting plates	456	Tipmatic	542		
Accessories	466	Assembly technology	575		
Technical information	470	Assembly aids	580		

Rebated applications

10 mm

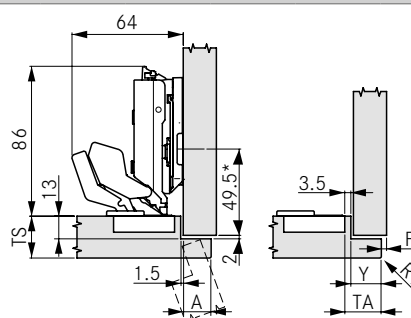


Mounting plate height 6

* Dimension for mounting plate for 37 mm hole spacing

Cabinet situation	TS (max.)	A (max.)	Y (max.)	TA (max.)	F (min.)
	20	17	18.5	22	1
	28	17	18.5	22	see reveal table
	38	17	18.5	22	

13 mm

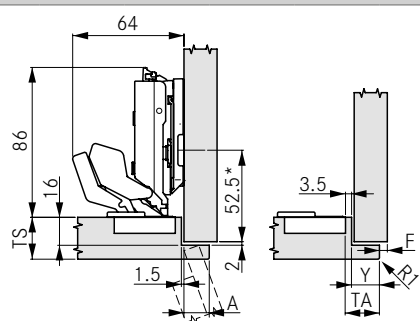


Mounting plate height 6

* Dimension for mounting plate for 37 mm hole spacing

Cabinet situation	TS (max.)	A (max.)	Y (max.)	TA (max.)	F (min.)
	20	16	17.5	21	1
	28	16	17.5	21	see reveal table
	35	14	15.5	19	

16 mm



Mounting plate height 6

* Dimension for mounting plate for 37 mm hole spacing

Cabinet situation	TS (max.)	A (max.)	Y (max.)	TA (max.)	F (min.)
	20	14.5	16	19.5	1
	26	14.5	16	19.5	see reveal table
	32	12.5	14	17.5	

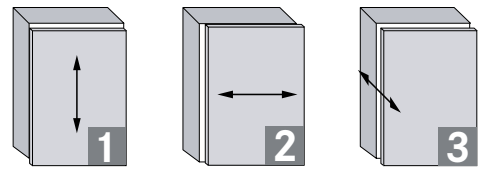
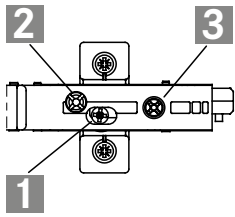
LEGEND

- A Door overlay
- F Reveal
- TA Cup distance
- TS Door thickness



TIOMOS

1D cross mounting plates



Height adjustment +/- 2 mm
 Side adjustment +/- 2 mm
 Depth adjustment +3/-2 mm
 All adjustments can be carried out independently of each other.

ORDER INFORMATION

TIOMOS 1D CROSS MOUNTING PLATE, 4-POINT FIXING

Description		37/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> Steel Fixing with wood screws dia. 3.5 x 15 mm With convenient height adjustment (HV) via worm screw 			0	Nickel	F058139746
				Night	F058149629
			2	Nickel	F058139747
				Night	F058149630
			3	Nickel	F058139748
				Night	F058149631

TIOMOS 1D CROSS MOUNTING PLATE, 4-POINT FIXING

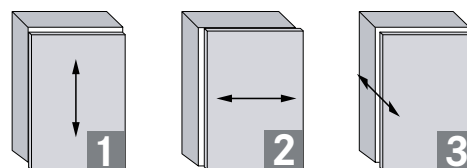
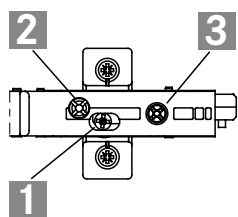
Description		37/32	Mounting plate height	Colour	Art. no.	
<ul style="list-style-type: none"> Steel Fixing with Euro screws dia. 6.3 mm With convenient height adjustment (HV) via worm screw 			0	Nickel	F058139756	
					2	F058139757
					3	F058139758

TIOMOS 1D CROSS MOUNTING PLATE, 4-POINT FIXING

Description		37/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> Steel, nickel-plated/Night Fixing with pre-assembled Euro screws dia. 6.3 x 13.5 mm With convenient height adjustment (HV) via worm screw 			0	Nickel	F058139761
				Night	F058140386
			2	Nickel	F058139762
				Night	F058140933
			3	Nickel	F058139763
				Night	F058149632

TIOMOS 1D CROSS MOUNTING PLATE, 4-POINT FIXING, FOR TWIN APPLICATION

Description		37/32	Mounting plate height	Colour	Art. no.	
<ul style="list-style-type: none"> Steel Fixing with pre-assembled Euro screws dia. 6.3 x 10 mm With convenient height adjustment (HV) via worm screw For twin application 			0	Nickel	F058139863	
					2	F058139864
					3	F058139865



Height adjustment +/- 2 mm
Side adjustment +/- 2 mm
Depth adjustment +3/-2 mm
All adjustments can be carried out independently of each other.

ORDER INFORMATION

TIOMOS 1D CROSS MOUNTING PLATE, 4-POINT FIXING

Description		37/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> Steel Fixing with dia. 10 mm dowels With convenient height adjustment (HV) via worm screw Do not strike the mounting plate with a hammer 			0	Nickel	F058 139751
			2		F058 139752
			3		F058 139753

TIOMOS 1D CROSS MOUNTING PLATE QUICK, 4-POINT FIXING

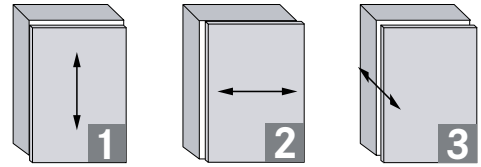
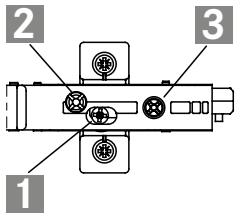
Description		37/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> Steel Fixing with dia. 5 mm dowels With convenient height adjustment (HV) via worm screw Do not strike the mounting plate with a hammer! 			0	Nickel	F058 139766
			2		F058 139767
			3		F058 139768

TIOMOS 1D CROSS MOUNTING PLATE QUICK, 4-POINT FIXING, FOR TWIN APPLICATION

Description		37/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> Steel Fixing with dia. 5 mm dowels With convenient height adjustment (HV) via worm screw For twin application Do not strike the mounting plate with a hammer! 			0	Nickel	F058 139931
			3		F058 139933

TIOMOS

1D cross mounting plates



Height adjustment +/- 2 mm
 Side adjustment +/- 2 mm
 Depth adjustment +3/-2 mm
 All adjustments can be carried out independently of each other.

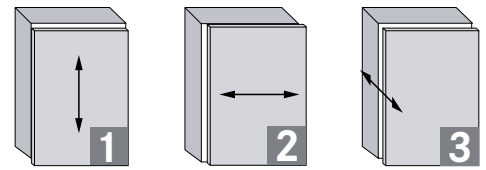
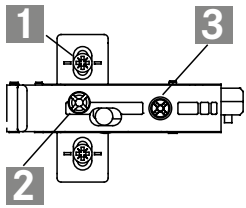
ORDER INFORMATION

TIOMOS 1D CROSS MOUNTING PLATE, 2-POINT FIXING

Description		37/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> Zamak/steel Fixing with wood screws dia. 3.5 x 15 mm With convenient height adjustment (HV) via worm screw 			6	Nickel	F058 139892
			8		F058 139886
			9		F058 139887
			12		F058 139893
			14		F058 139889
			15		F058 139890
			19		F058 139894
21	F058 139895				

TIOMOS 1D CROSS MOUNTING PLATE, 2-POINT FIXING

Description		37/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> Zamak/steel Fixing with pre-assembled Euro screws dia. 6.3 x 13.5 mm With convenient height adjustment (HV) via worm screw 			6	Nickel	F058 139873
			8		F058 139880
			9		F058 139881
			12		F058 139874
			15,5		F058 139885
			19		F058 139875
			21		F058 139896



Height adjustment ± 2.5 mm
 Side adjustment ± 2 mm
 Depth adjustment ± 3 mm
 All adjustments can be carried out independently of each other.

ORDER INFORMATION

TIOMOS ECO CROSS MOUNTING PLATE, 3-POINT FIXING

Description		37/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> Steel Fixing with wood screws dia. 3.5 x 15 mm Height adjustment (HV) by means of slot 			-2	Nickel	F058 139720
			0		F058 139721
			2		F058 139722
			3		F058 139723

TIOMOS ECO CROSS MOUNTING PLATE, 3-POINT FIXING

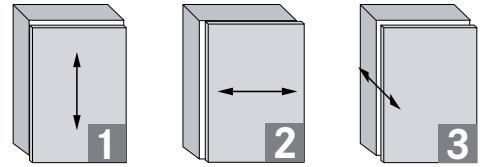
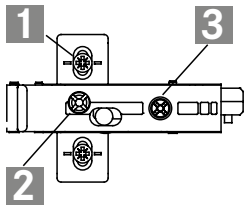
Description		37/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> Steel Fixing with pre-assembled pan head Euro screws dia. 6.3 x 13.5 mm Height adjustment (HV) by means of slot 			-2	Nickel	F058 139735
			0		F058 139736
			2		F058 139737
			3		F058 139738

TIOMOS ECO CROSS MOUNTING PLATE, 3-POINT FIXING, FOR TWIN APPLICATION

Description		37/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> Steel Fixing with pre-assembled pan head Euro screws dia. 6.3 x 10.5 mm Height adjustment (HV) by means of slot For twin application 			-2	Nickel	F058 139857
			0		F058 139858
			2		F058 139859
			3		F058 139860

TIOMOS

ECO cross mounting plates



Height adjustment ± 2.5 mm Side adjustment ± 2 mm Depth adjustment ± 3 mm
 All adjustments can be carried out independently of each other.

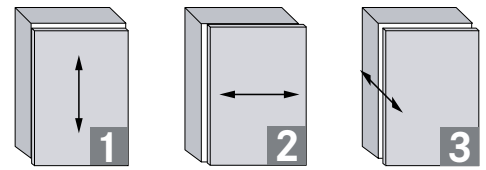
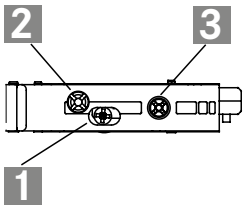
ORDER INFORMATION

TIOMOS ECO CROSS MOUNTING PLATE, 3-POINT FIXING

Description		28/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> Steel Fixing with pre-assembled pan head Euro screws dia. 6.3 x 13.5 mm Height adjustment (HV) by means of slot 			-2	Nickel	F058 139785
			0		F058 139786
			2		F058 139787
			3		F058 139788

TIOMOS ECO CROSS MOUNTING PLATE QUICK, 3-POINT FIXING

Description		37/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> Steel Fixing with dia. 5 mm dowels Height adjustment (HV) by means of slot Do not strike the mounting plate with a hammer! 			0	Nickel	F058 139741
			2		F058 139742



Height adjustment +/- 2 mm
 Side adjustment +/- 2 mm
 Depth adjustment +3/-2 mm
 All adjustments can be carried out independently of each other.

ORDER INFORMATION

TIOMOS 1D LINEAR MOUNTING PLATE, 2-POINT FIXING

Description		20/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> • Steel • Fixing with wood screws • Dia. 3.5 x 15 mm or dia. 6.3 x 13.5 mm with Euro screws • With convenient height adjustment (HV) via worm screw 			0	Nickel	F059 139701
				Night	F059 139977
			2	Nickel	F059 139702
				Night	F059 139978
			3	Nickel	F059 139703
				Night	F059 139979

TIOMOS 1D LINEAR MOUNTING PLATE, 2-POINT FIXING

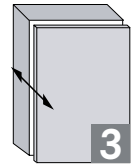
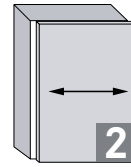
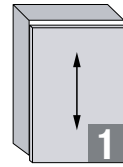
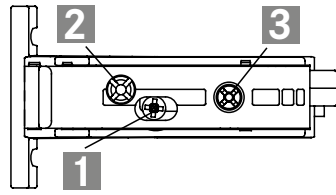
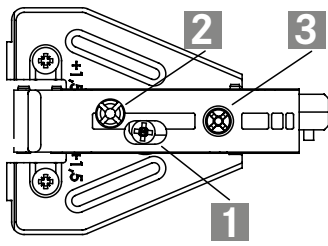
Description		20/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> • Steel • Fixing with pre-assembled Euro screws dia. 6.3 x 13.5 mm • With convenient height adjustment (HV) via worm screw • Do not strike the mounting plate with a hammer 			0		F059 139711
			2	Nickel	F059 139712
			3		F059 139713

TIOMOS 1D LINEAR MOUNTING PLATE, 2-POINT FIXING

Description		20/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> • Steel • Fixing with dia. 10 mm dowels • With convenient height adjustment (HV) via worm screw • Do not strike the mounting plate with a hammer 			0	Nickel	F059 139706
				Night	F059 139980
			2	Nickel	F059 139707
				Night	F059 149634
			3	Nickel	F059 139708

TIOMOS

Frame construction mounting plates



Height adjustment
+/-2 mm

Side adjustment
+/-2 mm

Depth adjustment
+3/-2 mm

All adjustments can be carried out independently of each other.

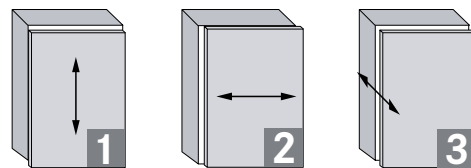
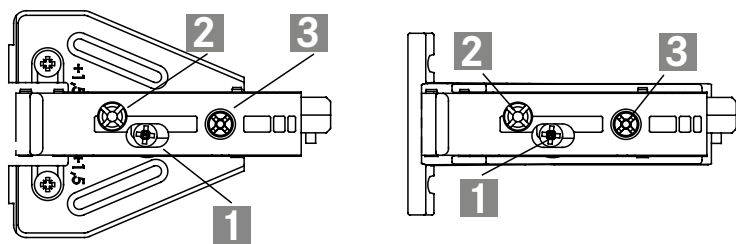
ORDER INFORMATION

TIOMOS 1D DELTA MOUNTING PLATE FOR FRAME CONSTRUCTIONS, 4-POINT FIXING

Description		9,5/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> • Steel • Fixing with wood screws dia. 3.5 x 15 mm • With convenient height adjustment (HV) via worm screw 			1,5	Nickel	F058 139825
			3,5		F058 139826
			4,5		F058 139827
			5		F058 139828

TIOMOS INSET BEADED MOUNTING PLATE FOR FRAME CONSTRUCTIONS, 3-POINT FIXING

Description		10/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> • For inset doors • For use with hinges with cranking 9.5 • Steel/zamak • Fixing with pan head wood screws • With convenient height adjustment (HV) via worm screw 			0	Nickel	F058 139831



Height adjustment +/- 2 mm
 Side adjustment +/- 2 mm
 Depth adjustment +3/-2 mm
 All adjustments can be carried out independently of each other.

ORDER INFORMATION

MINIMUM JOINT

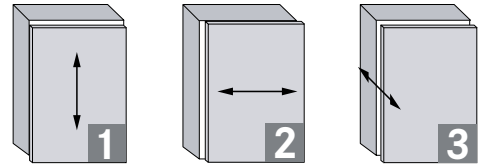
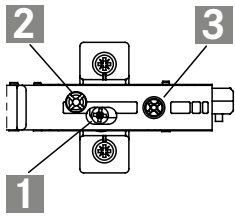
Inset beaded mounting plate for frame constructions, 3-point fixing

		Topfabstand (TA)			
		3	4	5	6
Door thickness (TS)	28.0	4.0			
	26.0	4.0	3.0		
	24.0	4.0	3.0	2.0	
	22.0	4.0	3.0	2.0	
	20.0	4.0	3.0	2.0	1.0
	19.0	4.0	3.0	2.0	1.0
	18.0	4.0	3.0	2.0	1.0
	16.0	4.0	3.0	2.0	1.0
		Minimum joint (F)			



TIOMOS

Cross mounting plates for angle applications



Height adjustment +/- 2 mm
 Side adjustment +/- 2 mm
 Depth adjustment +3/-2 mm
 All adjustments can be carried out independently of each other.

ORDER INFORMATION

TIOMOS CROSS MOUNTING PLATE FOR 20° ANGLE, 2-POINT FIXING

Description		X/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> For 20° angle applications Zamak/steel Fixing with wood screws dia. 3.5 x 15 mm With convenient height adjustment (HV) via worm screw 			0	Nickel	F058 139902
			3		F058 139904

APPLICATION EXAMPLES FOR 20° ANGLE APPLICATIONS

Overlay application	Half overlay application	Corner application	Mitred application
Tiomos 110/cracking 3 20° cross mounting plate height 2	Tiomos 110/cracking 3 20° cross mounting plate height 3.5	Tiomos 110/cracking 19 20° cross mounting plate height 0	Tiomos 110/cracking 9.5 20° cross mounting plate height 3.5

1

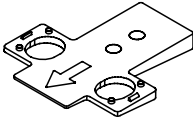
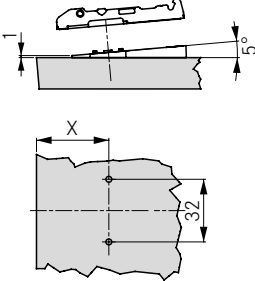
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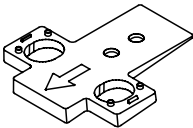
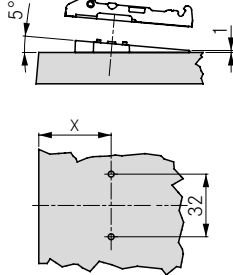
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ORDER INFORMATION

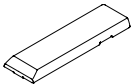

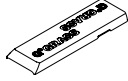

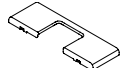
TIOMOS +5° WEDGE

Description		37/32	Art. no.
<ul style="list-style-type: none"> • Zamak • For supporting cross mounting plates • Max. 3-way stacking (trial fitting recommended) 			<p>F072135757</p>


TIOMOS -5° WEDGE

Description		37/32	Art. no.
<ul style="list-style-type: none"> • Zamak • For supporting cross mounting plates • Max. 3-way stacking (trial fitting recommended) 			<p>F072135758</p>

TIOMOS COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Standard; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/3/9,5/14/19	F072 135500
		Stamping	Night	0/3/9,5/14/19	F072 140519
	Hinge arm; Standard; Steel; Right; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072 135550
	Hinge arm; Standard; Steel; Left; With GRASS Logo	Stamping	Nickel	0/3/9,5/14/19	F072 135551
	Hinge arm; Standard; Steel; Left or right; With GRASS Logo	Stamping	Nickel	0/3/9,5/19	F072 135749
	Hinge arm; With integrated clip protection; ABS; Left or right; Without Logo	Digital printing	Black	0/3/9,5/14/19	F072 140504
	Hinge cup; Standard; Steel; Left or right; Without Logo		Nickel		F072 135503
			Night		F072 140520


TIOMOS OPENING ANGLE REDUCTION CLIP 85°

Description		Colour	Art. no.
<ul style="list-style-type: none"> • Can be used for all Tiomos 110°/120° standard hinges as well as blind corner hinges • Prevents the door banging on front panels or walls in corner installations • Simple, tool-free assembly • Steel, not nickel-plated 		Silver	F072 135751

TIOMOS OPENING ANGLE LIMITER, 120°

Description		Colour	Art. no.
<ul style="list-style-type: none"> • Can be used for all Tiomos 160° wide-angle hinges • Prevents the door banging on front panels or walls in corner installations • Simple, tool-free assembly • Plastic, black 		Raw	F072 135753

TIOMOS SPACER RING

Description		Height	Art. no.
<ul style="list-style-type: none"> • Enables the use of standard hinges on thin doors • Simple installation • 2-way stacking • Not suitable for Impresso hinges • Not suitable for drilling pattern 52/5.5 		1.5 mm	F072 135885


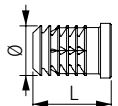
PAGE REFERENCES

Tiomos mounting plates	456	Assembly aids	580		
Technical information	468				
Assembly technology	575				

TIOMOS FASTENING SCREWS

	Ø	L	Øh	Colour	Material	Internal drive		Art. no.
	3.5 mm	15 mm	7 mm	Night	Steel	Z2		F072135961
	3 mm	6 mm	5.5 mm	Zinc	Steel	Z2		F069073405

HINGE CUP DOWEL

	Ø	L	Colour	Surface				Art. no.
	8 mm	13.2 mm	Natural	Plastic				F072135773

1

2

3

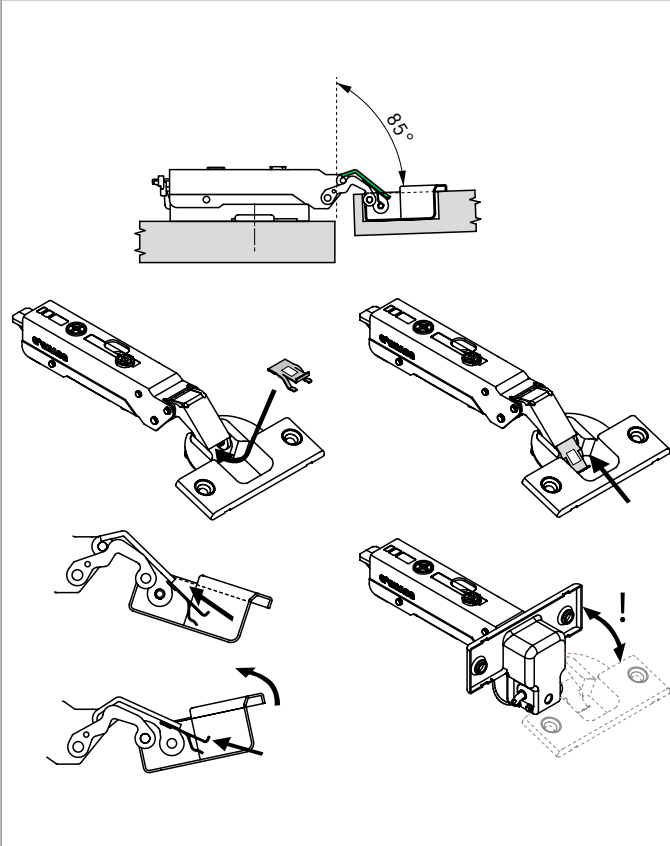
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LEGEND

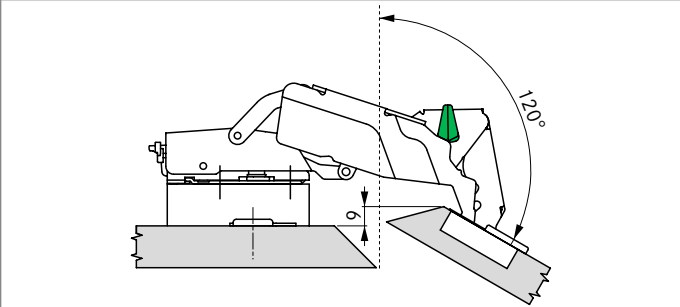
L Length

INSTALLATION INSTRUCTIONS

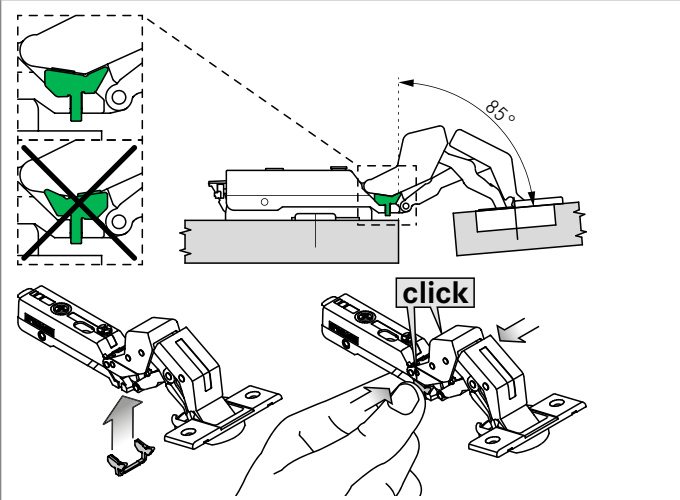
85° opening angle reduction clip



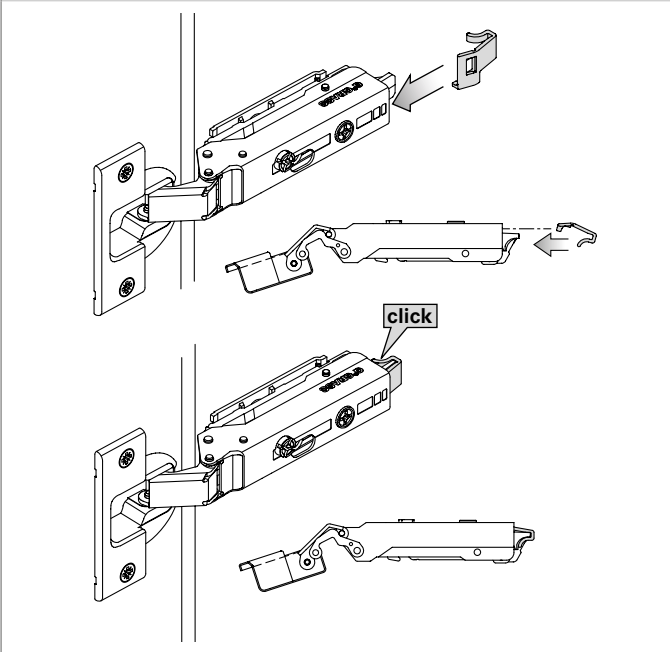
120° opening angle reduction clip



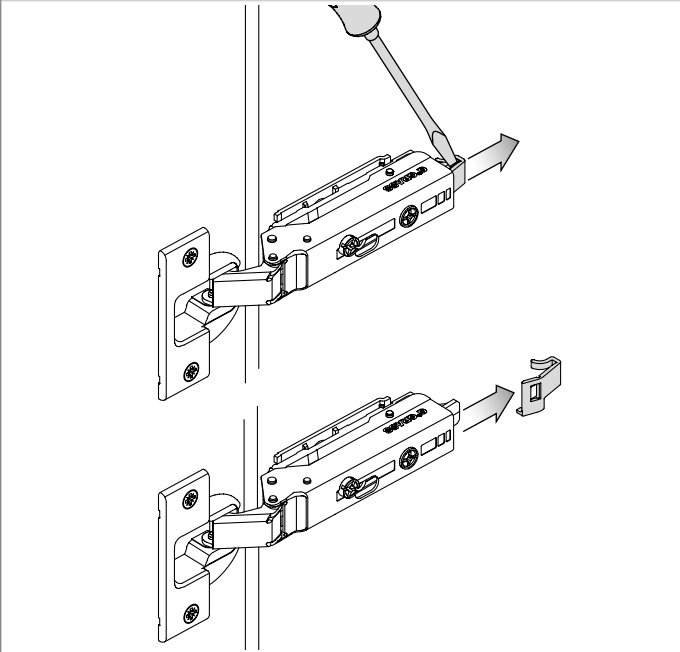
85° opening angle reduction clip for Tiomos M9 and Mirro



Installation of clip-off protection



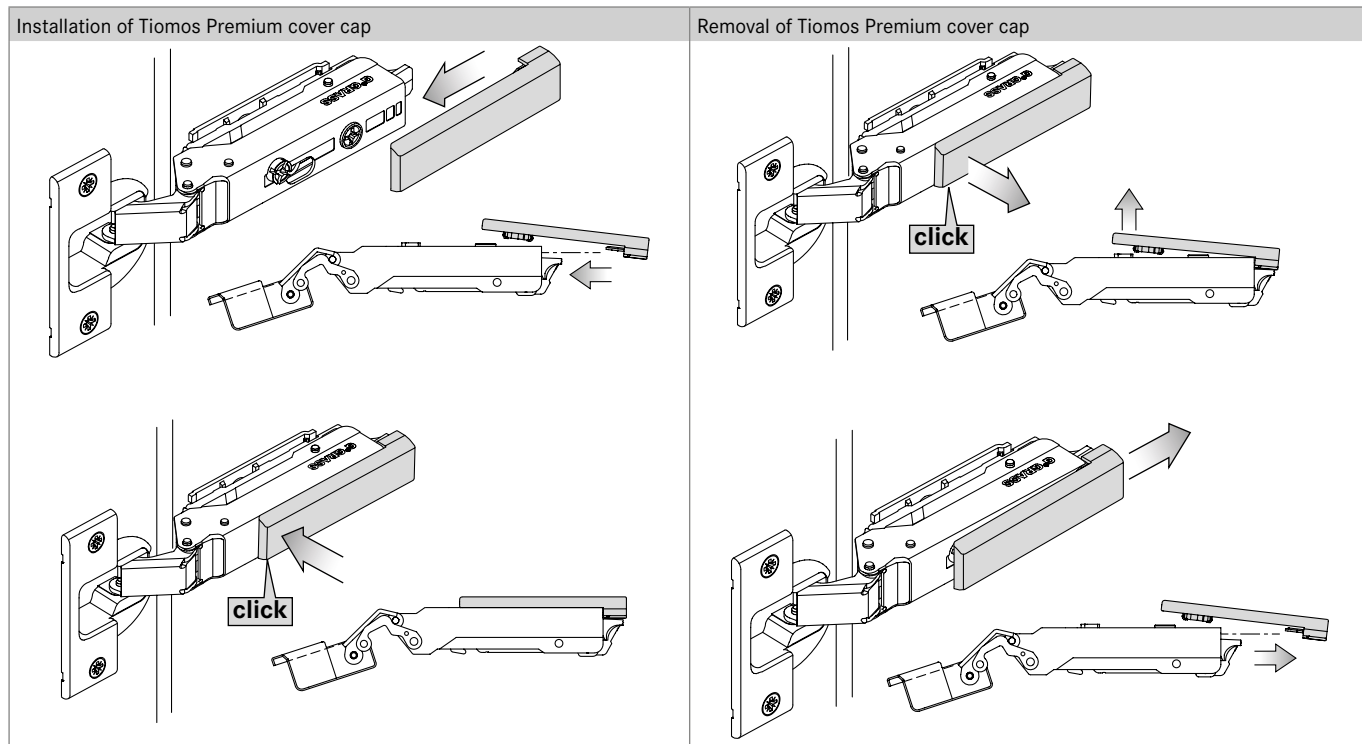
Removal of clip-off protection



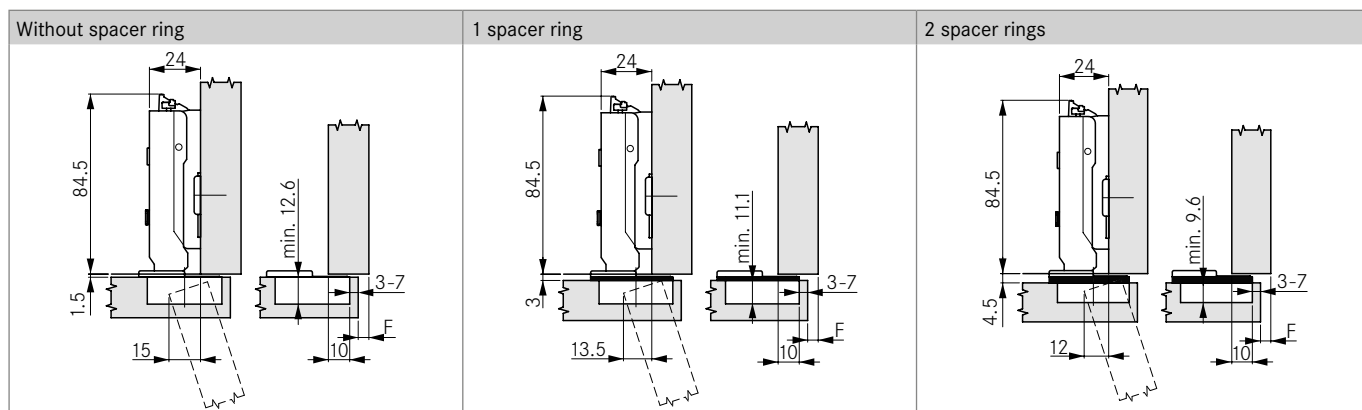
PAGE REFERENCES

Tiomos mounting plates	456	Assembly aids	580		
Accessories	466				
Assembly technology	575				

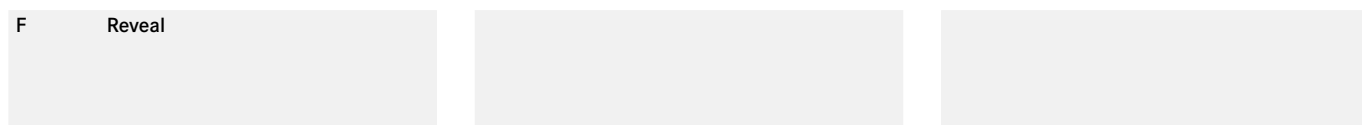
INSTALLATION INSTRUCTIONS



PLANNING INFORMATION



LEGEND



NUMBER OF HINGES PER DOOR

Description

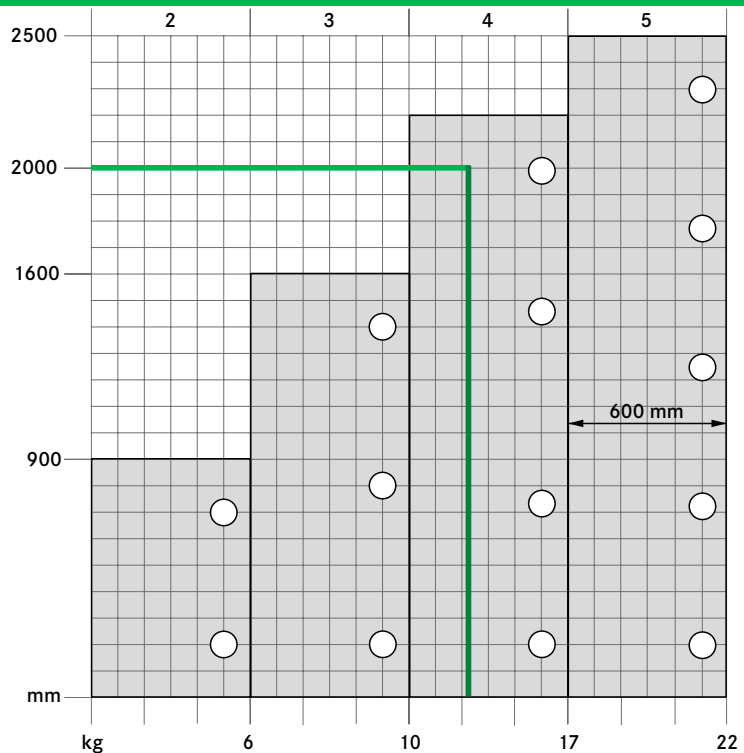
The decisive factors for the number of hinges are the door height, door weight, material quality and cup and mounting plate mounting.

The load and height values are for standard door widths of 600 mm. In case of doubt, the number of hinges must be determined by means of a trial fitting.

For example:

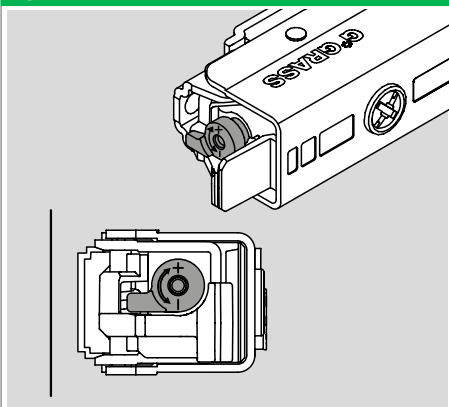
For a door with dimensions 2,000 x 600 mm and a weight of 13 kg, it is recommended to use 4 hinges.

The table refers to hinges with and without integrated dampers.



TOOL-FREE DAMPER ADJUSTMENT

Light level



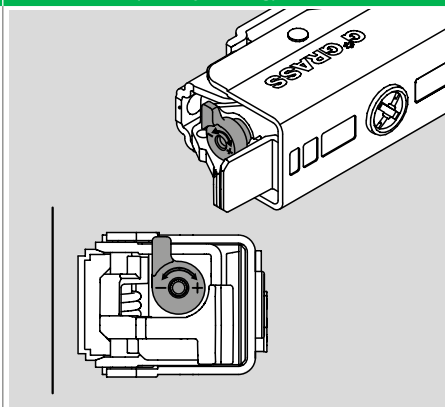
Adjustment lever points

- towards cabinet wall

Suitable for:

- Small, lightweight doors

Medium level (factory setting)



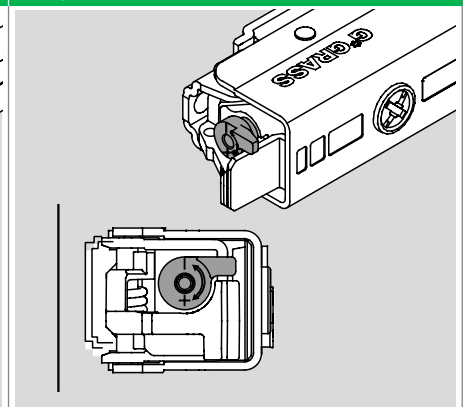
Adjustment lever points

- downwards with anti-clockwise application or upwards with clockwise application

Suitable for:

- Standard doors

Heavy level



Adjustment lever points

- inside the cabinet

Suitable for:

- Large, heavy doors

The damping capacity per hinge can be adjusted using the adjustment lever. Depending on the requirements, the damping capacity can therefore be reduced or increased very easily.

PAGE REFERENCES

Tiomos mounting plates	456	Assembly aids	580		
Accessories	466				
Assembly technology	575				

ADJUSTMENTS TO THE DOOR (APPLIES TO ALL TIOMOS HINGES)

Description	Side adjustment with limit stop +/- 2 mm	Convenient depth adjustment via worm screw +3/-2 mm	Height adjustment via mounting plate +/- 2 mm
<p>The possibility of height adjustment depends on the type of mounting plate. All adjustments can be carried out independently of each other.</p> <p>When using a mounting plate with height -2, side adjustment is limited.</p>			

DOOR REVEAL/MINIMUM JOINT

Description	Full overlay/door overlay	Half door overlay	Inset door
<p>The reveal is the distance between two doors or between the door and the cabinet side.</p> <p>The minimum reveal (F) is the distance between two doors or between the door and the side wall. The gap allows the door to be opened without any collision.</p>			

Minimum reveal table		Achievable reveal with inset door											
<p>The required reveal width depends on the door thickness.</p> <p>For example: With a door thickness of 19 mm and a cup distance of 6 mm, a minimum reveal of 0.9 mm is required.</p> <p>Important Reveals were determined with a (door) edge radius of 1 mm.</p> <p>We recommend a trial fitting.</p>	Cup distance					<p>The table shows the reveal that can be achieved with an inset door depending on the cup distance and mounting plate height.</p> <p>For example: With a cup distance of 6 mm and a mounting plate height of 3 mm, there is a reveal of 1 mm. This is also referred to as a negative overlay.</p>	Cup distance						
	Door thickness	3	4	5	6		7	Door reveal	3	4	5	6	7
		24	2.4	2.1	2.1		2.1		2.0	0.0	0	2	3
		22	1.6	1.6	1.6		1.5		1.5	0.5			3.5
		21	1.4	1.3	1.3		1.3		1.3	1.0	0	2	3
		20	1.1	1.1	1.1		1.5		1.1	1.5			3.5
		19	0.9	0.9	0.9		0.9		0.9	2.0	2	3	
		18	0.7	0.7	0.7		0.7		0.7	3.0	2	3	
		17	0.6	0.6	0.6		0.6		0.6	4.0	3		
		16	0.6	0.6	0.6		0.6		0.6				
		Minimum joint (F)							Mounting plate height				

LEGEND

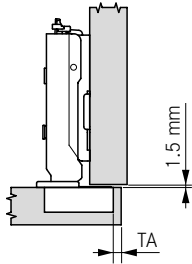
F	Reveal		
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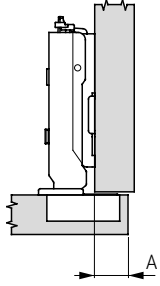
TIOMOS

Technical information

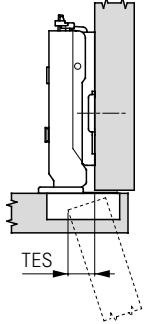
MINIMUM GAP

Description		Example	Cup distance				
<p>The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can be opened without hindrance. The factory setting for the gap is 1.5 mm.</p> <p>The cup distance (TA) is the distance between the door edge and the edge of the cup hole.</p>		<p>With a door thickness of 17 mm and a cup distance of 6 mm, the minimum gap is 1.0 mm.</p>					
			Door thickness	3	4	5	6
			1.0	1.0	1.0	1.2	2.1
			1.0	1.0	1.0	1.0	1.5
			1.0	1.0	1.0	1.0	1.2
			1.0	1.0	1.0	1.0	1.0
			1.0	1.0	1.0	1.0	1.0
			1.0	1.0	1.0	1.0	1.0
			1.0	1.0	1.0	1.0	1.0
			1.0	1.0	1.0	1.0	1.0
			Minimum gap				

DOOR OVERLAY

Description		Example	Cup distance				
<p>The door overlay (A) is the part of the side wall or frame that is covered by the door.</p>		<p>For a hinge with cranking 3, mounting plate height 2 and a cup distance of 4 mm, the door overlay is 14 mm.</p>					
			Door overlay	3	4	5	6
			19.0				0
			18.0				0
			17.0		0		2
			16.5				
			16.0	0		2	3
			15.5				3.5
			15.0	0		2	3
			14.5				3.5
			14.0		2	3	
			13.5			3.5	
			13.0	2	3		
			12.5		3.5		
			12.0	3			
			11.5	3.5	3		
			Mounting plate height				

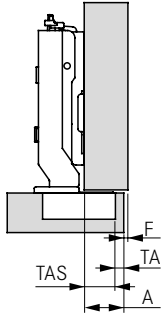
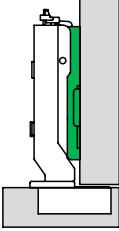
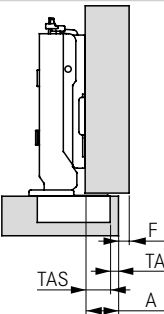
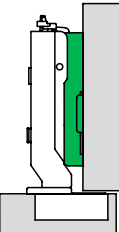
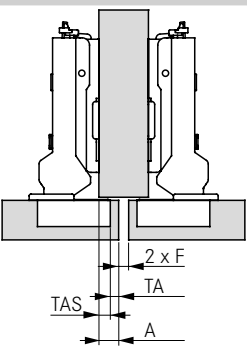
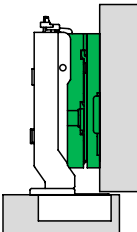
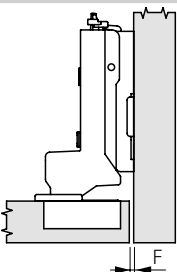
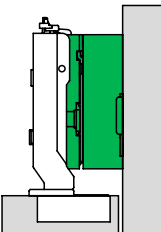
DOOR PROTRUSION

Description	
<p>The door protrusion (TES) is obtained when the door is open and varies depending on the hinge type and application.</p>	
<p>It is specified on the individual catalogue page and relates to the mounting plate specified in the factory setting in each case. It changes when the mounting plate height is changed and the side adjustment is used.</p>	

PAGE REFERENCES

Tiomos mounting plates	456	Assembly aids	580		
Accessories	466				
Assembly technology	575				

OPTION TO CHANGE THE DOOR OVERLAY

After selecting the cranking	By using a different mounting plate height
<p>Full overlay (cranking 0) The cup overlay (TAS/factory setting) plus cup distance (TA) provides the door overlay (A).</p> <p>The dimensions can be found in the table on the respective catalogue page.</p> 	<p>Full overlay Use of a hinge with cranking 0 and mounting plate height 0.</p> 
<p>Overlay (cranking 3) The cup overlay (TAS/factory setting) plus cup distance (TA) provides the door overlay (A).</p> <p>The dimensions can be found in the table on the respective catalogue page.</p> 	<p>Overlay Use of a hinge with cranking 0 and mounting plate height 3.</p> 
<p>Half overlay (cranking 9.5) The cup overlay (TAS/factory setting) plus cup distance (TA) provides the door overlay (A).</p> <p>The dimensions can be found in the table on the respective catalogue page.</p> 	<p>Half overlay Use of a hinge with cranking 0 and mounting plate height 9.5.</p> 
<p>Inset (cranking 19) There is no door overlay. The minimum reveal (F) between the cabinet side and the door depends on the mounting plate height and the cup distance. The dimensions can be found in the table on the respective catalogue page.</p> 	<p>Inset Use of a hinge with cranking 0 and mounting plate height 21.</p> 

- 1
- 2
- 3
- 4

LEGEND

A	Door overlay
F	Reveal
TA	Cup distance
TAS	Cup overlay

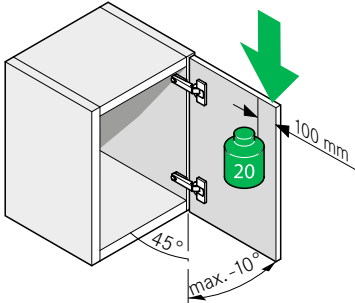
TES	Door protrusion
-----	-----------------

TEST CRITERIA FOR HINGES

Functional test

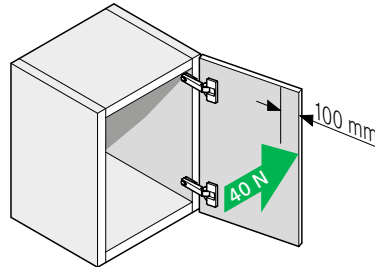
Static load, vertical

Additional load: 20 kg
Opening angle: max. -10°
Number: 10



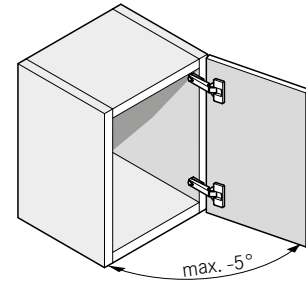
Static load horizontal

Force: 40 N
Number: 10



Endurance test

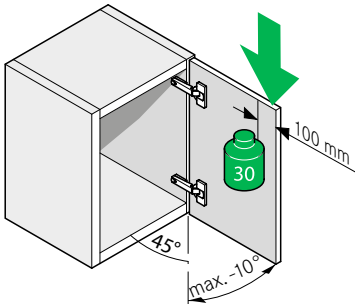
Opening angle: max. -5°
Opening and closing movements: 100,000



Overload test

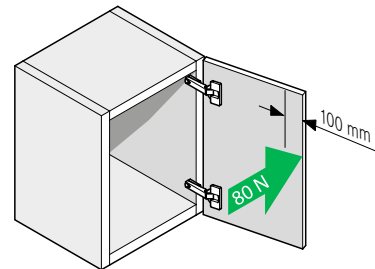
Vertical

Additional load: 30 kg
Opening angle: max. -10°
Number: 10



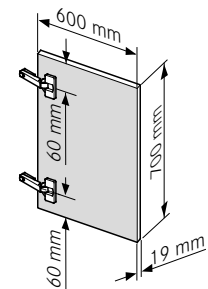
Horizontal

Force: 80 N
Number: 10



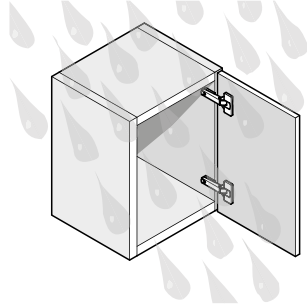
Test door

Weight approx. 5.2 kg



Salt spray and humidity test

Based on DIN ISO 9227 and DIN 6270-2



PAGE REFERENCES

Tiomos mounting plates	456	Assembly aids	580		
Accessories	466				
Assembly technology	575				

1

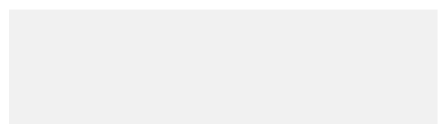
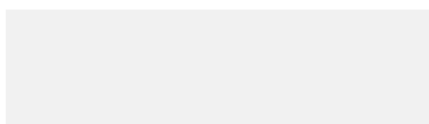
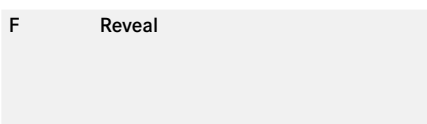
2

3

4

LEGEND

F Reveal



Proven Click-on technology
for tool-free attachment of the
hinges to the cabinet.

nexis click-on.



Simply press with a finger and the hinge will lock into place on the mounting plate with an audible "click". The hinge can be detached simply by unlocking it.

Comfort is a question of technology:

Soft-close - the unique hinge damping system gently slows down the movement and closes the furniture door softly and quietly. Convenient, quiet and can be retrofitted.



FOLLOW US



Fast. Reliable.
Click-on and you're done.

Nexis Click-on.





The proven Click-on technology in the hinge arm forms a solid base for fastening the hinges to the cabinet without the need for any tools.



Nexis


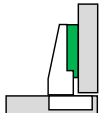
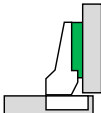
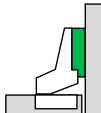

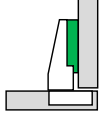
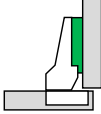

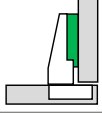
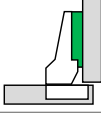

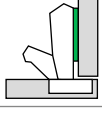
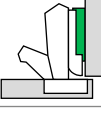
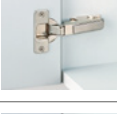
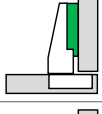
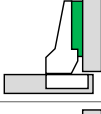
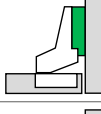
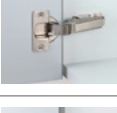
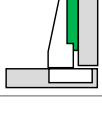
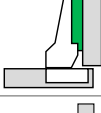
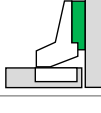
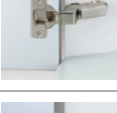
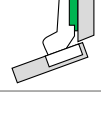

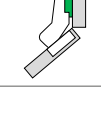

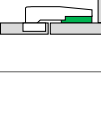
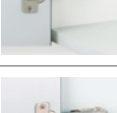
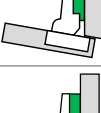

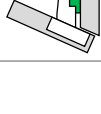
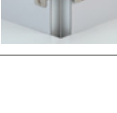
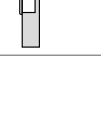
Hinge Systems


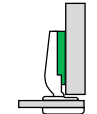
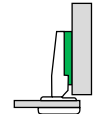
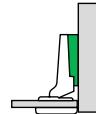



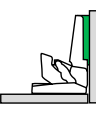
Finely tuned movement systems featuring top-quality workmanship, functionality and operating comfort.

	<p>Nexis Click-on</p> <p>Quick-mounting hinges with tool-free Click-on technology on the cabinet side.</p>	478	1
	<p>Nexis Slide-on</p> <p>Hinges with classic Slide-on technology. Reliability for continuous daily use.</p>	521	2
	<p>Soft-close for Nexis</p> <p>The unique hinge damping system. Gently slows down the movement and closes the furniture door softly and quietly. Convenient, quiet and can be retrofitted.</p>	534	3
	<p>Tipmatic for Nexis</p> <p>The opening system for handle-free furniture doors. Simply tap and the doors open as if by themselves.</p>	542	4

Nexis Click-on Hinge Systems

Hinges for quick assembly on the cabinet side with Click-on technology.

Opening angle		Description	Full overlay	Half overlay	Inset	Page
100°		Nexis Click-on 04 <ul style="list-style-type: none"> • Also suitable for soft-formed doors • Optimal reveal for door thicknesses up to 24 mm • Compatible with Soft-close 				480
110°		Nexis Click-on 22 <ul style="list-style-type: none"> • Cup depth 11 mm • Also suitable for soft-formed doors • Compatible with Soft-close 			-	482
125°		Nexis Click-on 29 <ul style="list-style-type: none"> • Convenient access to unit • Compatible with Soft-close 			-	484
170°		Nexis Click-on 65 <ul style="list-style-type: none"> • Also suitable for soft-formed doors • Zero protrusion • Compatible with Soft-close 			-	486
95°		Nexis Click-on 05 <ul style="list-style-type: none"> • Suitable for thick doors or profiled doors • Optimal reveal for door thicknesses up to 30 mm • Compatible with Soft-close 				488
95°		Nexis Click-on 25 <ul style="list-style-type: none"> • Cup diameter 40 mm • For profiled and frame doors with door thickness up to 36 mm • Smallest reveals with thick doors 				490
95°		Nexis Click-on 05/20/6 <ul style="list-style-type: none"> • For 20° angled cabinets • Optimal reveal for door thicknesses up to 30 mm • Compatible with Soft-close 	-		-	492
95°		Nexis Click-on 05/45/3 <ul style="list-style-type: none"> • For 45° corner and special applications • Optimal reveal for door thicknesses up to 30 mm • Compatible with Soft-close 	-	-		494
95°		Nexis Click-on 05/90/4 <ul style="list-style-type: none"> • For protruding posts • Optimal reveal for door thicknesses up to 30 mm • Compatible with Soft-close 	-	-		496
125°		Nexis Click-on 29/-14 <ul style="list-style-type: none"> • For -14° angled cabinets • Ideal for kitchens and bathrooms • Compatible with Soft-close 	-		-	498
125°		Nexis Click-on 29/-24 <ul style="list-style-type: none"> • For -24° corner and special applications • Ideal for kitchens and bathrooms 	-		-	500
-		Nexis Click-on PCC <ul style="list-style-type: none"> • Pie-cut corner hinge for corner applications • For door thicknesses from 14 to 22 mm • For connecting two corner cabinet doors 	-	-		502

Opening angle		Description	Full overlay	Half overlay	Inset	Page
95°		Nexis Click-on 17 GL <ul style="list-style-type: none"> • For glass thicknesses from 4 to 6 mm • Cup diameter 26 mm • Ideal for display cabinets 				504
128°		Nexis Click-on 07 Mirro <ul style="list-style-type: none"> • For mirror and glass applications • Fixing by gluing on the door side • Compatible with Soft-close 				506

Nexis Click-on mounting plates	508
Technical information	516

NEXIS CLICK-ON 04

100° hinge (door thicknesses up to 24 mm)



- 100° opening angle
- Optimal reveal for doors up to 24 mm thick
- Compatible with Soft-close
- With shallow cup depth (11 mm) also suitable for soft-formed doors
- 3-dimensional adjustment with corresponding mounting plate

ORDER INFORMATION

Door position		Crank	Spring	Material	Click-on		
					Press-fit	Screw-on	
Full overlay		0	■	Steel	F015072719	F015072722	
		0	-	Steel		F015072724	
Half overlay		8	■	Steel	F015072727	F015072729	
		8	-	Steel		F015072730	
Inset		15	■	Steel		F015072736	
		15	-	Steel		F015072738	

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Short; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/-2/2/3/4/6/8/16/45	F069073570
	Hinge cup; Standard; Steel; Left or right; Without Logo		Nickel		F069073687

ACCESSORIES

	Designation	Art. no.		Designation	Art. no.
	Nexis Soft-close adapter	F069073715			

PAGE REFERENCES

Nexis Click-on mounting plates	508	Assembly technology	575		
Technical information	516	Assembly aids	580		
Soft-close Click-on	534				

NEXIS CLICK-ON 22

110° hinge



- 110° opening angle
- Compatible with Soft-close
- With shallow cup depth (11 mm), also suitable for soft-formed doors
- 3-dimensional adjustment with corresponding mounting plate

ORDER INFORMATION

Door position		Crank	Spring	Material	Click-on		
					Press-fit	Screw-on	
Full overlay		0	■	Steel	F015072810	F015072811	
		0	-	Steel		F015072816	
Half overlay		8	■	Steel		F015072818	

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Short; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/-2/2/3/4/6/8/16/45	F069073570
	Hinge cup; Standard; Steel; Left or right; Without Logo		Nickel		F069073687

ACCESSORIES

	Designation	Art. no.		Designation	Art. no.
	Nexis Soft-close adapter	F069073715		Nexis Opening angle limiter, 85°	F069135032

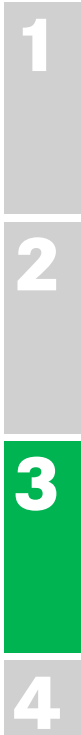
PAGE REFERENCES

Nexis Click-on mounting plates	508	Assembly technology	575		
Technical information	516	Assembly aids	580		
Soft-close Click-on	534				

PLANNING INFORMATION

All dimensions in millimetres

Full overlay		K0		Half overlay		K8						
Mounting plate height 2		Mounting plate height 2										
Door overlay	Cup distance						Cup distance					
	0	3	4	5	6	7	8	3	4	5	6	7
	20					0	12					0
	19				0		11				0	
	18			0		2	10			0		2
	17		0		2	3	9		0		2	3
	16	0		2	3	4	8	0		2	3	4
	15		2	3	4		7		2	3	4	
	14	2	3	4			6	2	3	4		
	13	3	4				5	3	4			
12	4					4	4					
	Mounting plate height						Mounting plate height					



MINIMUM GAP

Door thickness	Cup distance				
	3	4	5	6	7
16	0.5	0.6	1.6	2.6	3.6
18	0.5	1.2	2.2	3.2	4.2
19	0.5	1.5	2.5	3.5	4.5
20	0.8	1.8	2.8	3.8	4.8
22	1.4	2.4	3.4	4.4	5.4
	Minimum gap				

MINIMUM JOINT

Door thickness	Cup distance				
	3	4	5	6	7
16	0.5	0.5	0.5	0.5	0.5
18	1.0	1.0	1.0	1.0	1.0
19	1.2	1.2	1.2	1.2	1.2
20	2.2	1.5	1.5	1.5	1.5
22	4.7	3.7	2.8	2.1	2.1
	Minimum joint (F)				

NOTICE

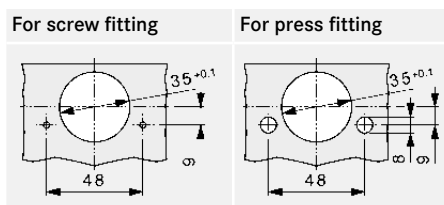
The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can be opened without hindrance.

Important: Reveals were determined with a (door) edge radius of 1 mm.

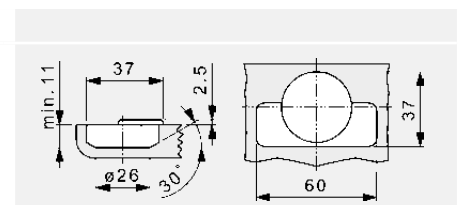
Hinge dimensions and reveal calculation with factory setting.

We recommend a trial fitting.

DRILLING PATTERNS



CUP DIMENSIONS



NEXIS CLICK-ON 29

125° hinge (door thicknesses up to 19 mm)



- 125° opening angle
- Compatible with Soft-close
- Optimal reveal for door thicknesses up to 19 mm
- With self-closing mechanism (spring)
- 3-dimensional adjustment with corresponding mounting plate

ORDER INFORMATION

Door position		Crank	Spring	Material	Click-on		
					Press-fit	Screw-on	
Full overlay		0	■	Steel	F015072825	F015072827	

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Short; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/-2/2/3/4/6/8/16/45	F069073570
	Hinge cup; Standard; Steel; Left or right; Without Logo		Nickel		F069073687

ACCESSORIES

	Designation	Art. no.		Designation	Art. no.
	Nexis Soft-close adapter	F069073715			

PAGE REFERENCES

Nexis Click-on mounting plates	508	Assembly technology	575		
Technical information	516	Assembly aids	580		
Soft-close Click-on	534				

NEXIS CLICK-ON 65

170° wide-angle hinge (door thicknesses up to 26 mm)



- 170° opening angle
- Compatible with Soft-close
- Optimal reveal for door thicknesses up to 26 mm
- With shallow cup depth (11 mm), also suitable for soft-formed doors
- Zero protrusion with door open at 90°
- Finger guard
- 3-dimensional adjustment with corresponding mounting plate

ORDER INFORMATION

Door position		Crank	Spring	Material	Click-on		
					Press-fit	Screw-on	
Full overlay		0	■	Zamak	F015072840	F015072842	
		0	-	Zamak		F015072843	
Half overlay		8	■	Zamak		F015072845	
		8	-	Zamak		F015072846	

ACCESSORIES

	Designation	Art. no.		Designation	Art. no.
	Nexis 170° Soft-close	F069073729			

PAGE REFERENCES

Nexis Click-on mounting plates	508	Assembly technology	575		
Technical information	516	Assembly aids	580		
170° Soft-close	536				

PLANNING INFORMATION

All dimensions in millimetres

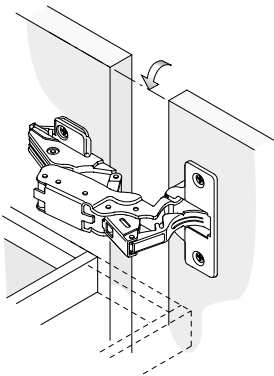
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3

ZERO PROTRUSION



Zero protrusion for use with inset drawers.

With cranking 0 and mounting plate height 0, the door is flush with the cabinet at 90°.

MINIMUM GAP

	Cup distance					
	3	4	5	6	8	10
16	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0

Door thickness

Minimum gap

MINIMUM JOINT

	Cup distance					
	3	4	5	6	7	8
16	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.5	1.8	2.0
25	6.5	6.5	6.0	5.5	4.8	4.0
26	10.5	9.5	8.5	7.5	6.5	5.5

Door thickness

Minimum joint (F)

NOTICE

The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can be opened without hindrance.

Important: Reveals were determined with a (door) edge radius of 1 mm.

Hinge dimensions and reveal calculation with factory setting.

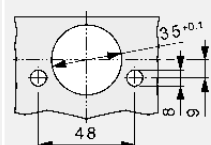
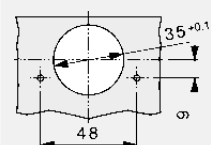
We recommend a trial fitting.

4

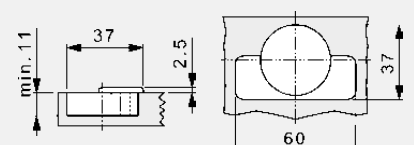
DRILLING PATTERNS

For screw fitting

For press fitting



CUP DIMENSIONS



NEXIS CLICK-ON 05

95° profiled door hinge (door thicknesses up to 30 mm)



- 95° opening angle
- Smallest reveals with thick doors
- Compatible with Soft-close
- Optimal reveal for door thicknesses up to 26 mm
- 3-dimensional adjustment with corresponding mounting plate

ORDER INFORMATION

Door position		Crank	Spring	Material	Click-on		
					Screw-on		
Full overlay		0	■	Steel	F015072742		
		0	-	Steel	F015072743		
Half overlay		8	■	Steel	F015072760		
		8	-	Steel	F015072762		
Inset		15	■	Steel	F015072768		
		15	-	Steel	F015072770		

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Short; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/-2/2/3/4/6/8/16/45	F069073570
	Hinge cup; Standard; Steel; Left or right; Without Logo		Nickel		F069073687

ACCESSORIES

	Designation	Art. no.		Designation	Art. no.
	Nexis Soft-close adapter	F069073715			

PAGE REFERENCES

Nexis Click-on mounting plates	508	Assembly technology	575		
Technical information	516	Assembly aids	580		
Soft-close Click-on	534				

PLANNING INFORMATION

All dimensions in millimetres

Full overlay	K0	Half overlay	K8	Inset	K15																																																																																																																																																																																																																																																												
<p>Mounting plate height 2</p>		<p>Mounting plate height 2</p>		<p>Mounting plate height 4</p>																																																																																																																																																																																																																																																													
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MINIMUM GAP

Door thickness	Cup distance				
	3	4	5	6	
16	0.5	0.5	0.5	0.5	
18	0.5	0.5	0.5	0.5	
19	0.5	0.5	0.5	0.5	
20	0.0	0.0	0.0	0.5	
22	0.5	0.5	0.5	0.5	
24	0.5	0.5	0.5	0.5	
26	0.5	0.5	0.5	0.7	
28	0.5	0.5	0.5	0.9	
30	0.5	0.5	1.1	1.1	
Minimum gap					

MINIMUM JOINT

Door thickness	Cup distance				
	3	4	5	6	
16	0.1	0.1	0.1	0.1	
18	0.2	0.2	0.2	0.2	
19	0.3	0.3	0.3	0.3	
20	0.4	0.4	0.4	0.4	
22	0.7	0.7	0.7	0.7	
24	1.0	1.0	1.0	1.0	
26	1.4	1.4	1.4	1.4	
28	1.9	1.9	1.9	1.9	
30	3.8	2.9	2.6	2.5	
Minimum joint (F)					

NOTICE

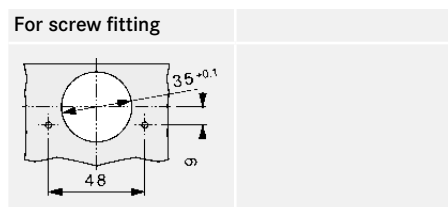
The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can be opened without hindrance.

Important: Reveals were determined with a (door) edge radius of 1 mm.

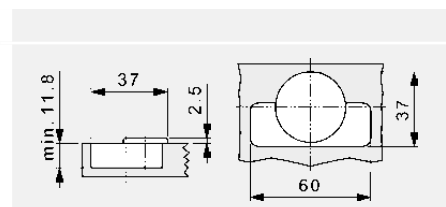
Hinge dimensions and reveal calculation with factory setting.

We recommend a trial fitting.

DRILLING PATTERNS



CUP DIMENSIONS



NEXIS CLICK-ON 25

95° profiled door hinge (door thicknesses up to 36 mm)



- 95° opening angle
- Smallest reveals with thick doors
- Hinge cup with dia. 40 mm
- For thick profiled and frame doors with door thickness up to 36 mm
- Strong hold-closed function even with large doors thanks to special spring mechanism
- With self-closing mechanism (spring)
- 3-dimensional adjustment with corresponding mounting plate

ORDER INFORMATION

Door position		Crank	Spring	Material	Click-on		
					Screw-on		
Full overlay		0	■	Zamak/Steel	F015072820		
Half overlay		8	■	Zamak/Steel	F015072822		

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Short; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/-2/2/3/4/6/8/16/45	F069073570

ACCESSORIES

	Designation	Art. no.		Designation	Art. no.
	Soft-close Pin	F069066528			

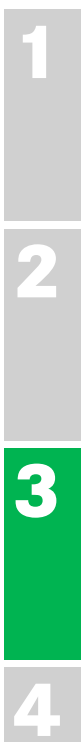
PAGE REFERENCES

Nexis Click-on mounting plates	508	Assembly technology	575		
Technical information	516	Assembly aids	580		
Soft-close Pin	540				

PLANNING INFORMATION

All dimensions in millimetres

Full overlay		K0	Half overlay		K8																																																																																																																																																																																																																																																																																																																																																
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MINIMUM GAP

Door thickness	Cup distance										
	3	4	5	6	8	10					
20	0.0	0.0	0.0	0.0	0.0	0.0					
22	0.0	0.0	0.0	0.0	0.0	0.0					
24	0.0	0.0	0.0	0.0	0.0	0.0					
26	0.0	0.0	0.0	0.0	0.0	0.0					
28	0.0	0.0	0.0	0.0	0.0	0.0					
30	0.0	0.0	0.0	0.0	0.0	0.0					
32	0.0	0.0	0.0	0.0	0.0	0.0					
34	0.0	0.0	0.0	0.0	0.0	0.0					
36	0.0	0.0	0.0	0.0	0.0	0.0					
		Minimum gap									

MINIMUM JOINT

Door thickness	Cup distance										
	3	4	5	6	8	10					
20	0.1	0.1	0.1	0.1	0.1	0.1					
22	0.2	0.2	0.2	0.2	0.2	0.2					
24	0.3	0.3	0.3	0.3	0.3	0.3					
26	0.4	0.4	0.4	0.4	0.4	0.4					
28	0.6	0.6	0.6	0.6	0.6	0.6					
30	0.8	0.8	0.8	0.8	0.8	0.8					
32	2.1	1.1	1.1	1.1	1.1	1.1					
34	4.2	3.1	2.3	1.6	1.4	1.4					
36	6.5	5.5	4.2	3.5	2.2	1.7					
		Minimum joint (F)									

NOTICE

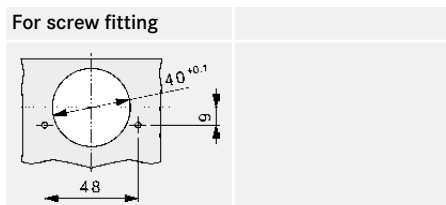
The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can be opened without hindrance.

Important: Reveals were determined with a (door) edge radius of 1 mm.

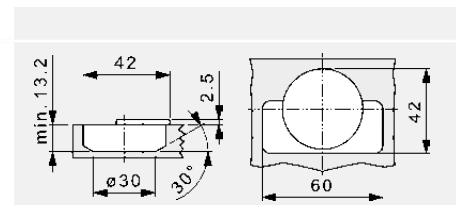
Hinge dimensions and reveal calculation with factory setting.

We recommend a trial fitting.

DRILLING PATTERNS



CUP DIMENSIONS



NEXIS CLICK-ON 05/20/6

+20° corner cabinet hinge (door thicknesses up to 30 mm)



- For 20° angled cabinets
- 95° opening angle
- Optimal reveal for door thicknesses up to 30 mm
- Compatible with Soft-close
- With self-closing mechanism (spring)
- 3-dimensional adjustment with corresponding mounting plate

ORDER INFORMATION

Door position		Crank	Spring	Material	Click-on		
					Screw-on		
Half overlay		6	■	Zamak/Steel	F015072754		

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Short; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/-2/2/3/4/6/8/16/45	F069073570
	Hinge cup; Standard; Steel; Left or right; Without Logo		Nickel		F069073687

ACCESSORIES

	Designation	Art. no.		Designation	Art. no.
	Soft-close Pin	F069066528		Nexis Soft-close adapter	F069073715

PAGE REFERENCES

Nexis Click-on mounting plates	508	Soft-close Pin	540		
Technical information	516	Assembly technology	575		
Soft-close Click-on	534	Assembly aids	580		

PLANNING INFORMATION

All dimensions in millimetres

Half overlay

Mounting plate height 4

Mounting plate height 8

Door overlay	Cup distance			
	3	4	5	6
7				0
6			0	
5		0		2
4	0		2	3
3		2	3	4
2	2	3	4	
1	3	4		

Door overlay	Mounting plate height			
	0	2	3	4
X	38.5	37.5	37.5	37.0

Mounting plate position				
-------------------------	--	--	--	--

1
2
3
4

MINIMUM GAP

Door thickness	Cup distance			
	3	4	5	6
16	0.5	0.5	0.5	0.5
18	0.5	0.5	0.5	0.5
19	0.5	0.5	0.5	0.5
20	0.5	0.5	0.5	0.5
22	0.5	0.5	0.5	0.5
24	0.5	0.5	0.5	0.5
26	0.5	0.5	0.5	0.7
28	0.5	0.5	0.5	0.9
30	0.5	0.5	1.1	1.1

Minimum gap

MINIMUM JOINT

Door thickness	Cup distance			
	3	4	5	6
16	0.1	0.1	0.1	0.1
18	0.2	0.2	0.2	0.2
19	0.3	0.3	0.3	0.3
20	0.4	0.4	0.4	0.4
22	0.7	0.7	0.7	0.7
24	1.0	1.0	1.0	1.0
26	1.4	1.4	1.4	1.4
28	1.9	1.9	1.9	1.9
30	3.8	2.9	2.6	2.5

Minimum joint (F)

NOTICE

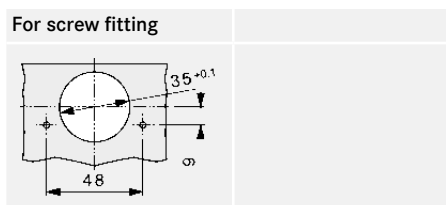
The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can be opened without hindrance.

Important: Reveals were determined with a (door) edge radius of 1 mm.

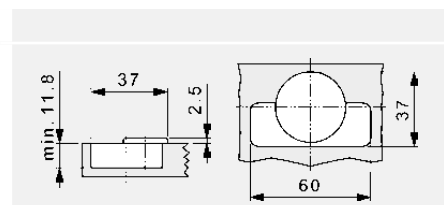
Hinge dimensions and reveal calculation with factory setting.

We recommend a trial fitting.

DRILLING PATTERNS



CUP DIMENSIONS




NEXIS CLICK-ON 05/45/3

+45° corner cabinet hinge (door thicknesses up to 30 mm)


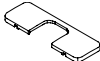


- For 45° angled cabinets
- 95° opening angle
- Optimal reveal for door thicknesses up to 30 mm
- Compatible with Soft-close
- 3-dimensional adjustment with corresponding mounting plate


ORDER INFORMATION

Door position		Crank	Spring	Material	Click-on Screw-on		
Inset		3	■	Zamak/Steel	F015072751		

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Short; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/-2/2/3/4/6/8/16/45	F069073570
	Hinge cup; Standard; Steel; Left or right; Without Logo		Nickel		F069073687

ACCESSORIES

	Designation	Art. no.		Designation	Art. no.
	Nexis Soft-close adapter	F069073715			

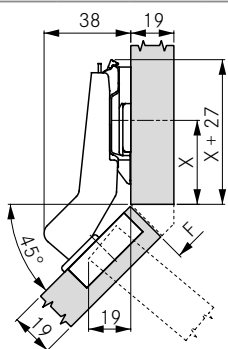
PAGE REFERENCES

Nexis Click-on mounting plates	508	Assembly technology	575		
Technical information	516	Assembly aids	580		
Soft-close Click-on	534				

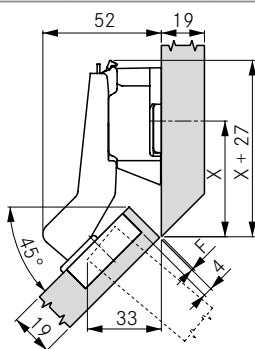
PLANNING INFORMATION

All dimensions in millimetres

Inset

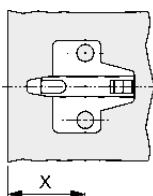


Mounting plate height 4



Mounting plate height 18

Cup distance		3	4	5	6
Mounting plate height	2		2	3	4
	3				
	4				
	5				
	6				
	7				
	8				
	9				
	10				
	11				



Mounting plate height		2	3	4
X	Mounting plate position	37.0	37.0	37.0

MINIMUM JOINT

Door thickness	Cup distance			
	3	4	5	6
16	0.1	0.1	0.1	0.1
18	0.2	0.2	0.2	0.2
19	0.3	0.3	0.3	0.3
20	0.4	0.4	0.4	0.4
22	0.7	0.7	0.7	0.7
24	1.0	1.0	1.0	1.0
26	1.4	1.4	1.4	1.4
28	1.9	1.9	1.9	1.9
30	3.8	2.9	2.6	2.5
Minimum joint (F)				

NOTICE

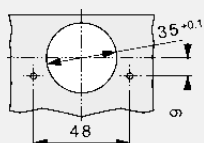
Important: Reveals were determined with a (door) edge radius of 1 mm.

Hinge dimensions and reveal calculation with factory setting.

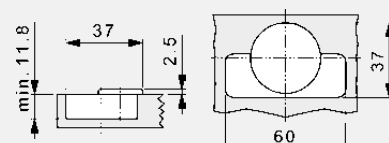
We recommend a trial fitting.

DRILLING PATTERNS

For screw fitting



CUP DIMENSIONS



NEXIS CLICK-ON 05/90/4

95° blind corner hinge (door thicknesses up to 30 mm)



- For direct installation on protruding posts
- 95° opening angle
- Optimal reveal for door thicknesses up to 30 mm
- Compatible with Soft-close
- 3-dimensional adjustment with corresponding mounting plate

ORDER INFORMATION

Door position	Spring	Material	Click-on	
			Press-fit	Screw-on
Inset	■	Zamak/Steel	F015072787	F015072788

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Short; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/-2/2/3/4/6/8/16/45	F069073570
	Hinge cup; Standard; Steel; Left or right; Without Logo		Nickel		F069073687

ACCESSORIES

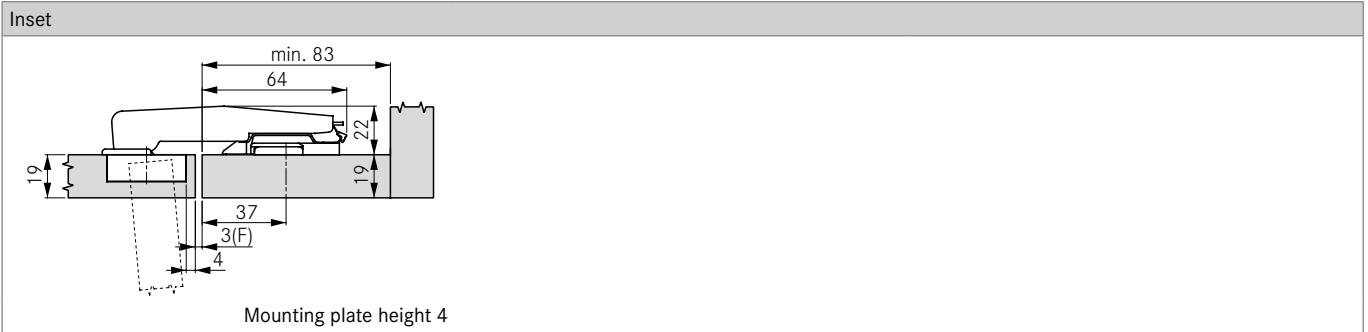
	Designation	Art. no.		Designation	Art. no.
	Nexis Soft-close adapter	F069073715			

PAGE REFERENCES

Nexis Click-on mounting plates	508	Assembly technology	575		
Technical information	516	Assembly aids	580		
Soft-close Click-on	534				

PLANNING INFORMATION

All dimensions in millimetres



MINIMUM JOINT

	Cup distance				
	3	4	5	6	
16	0.1	0.1	0.1	0.1	
18	0.2	0.2	0.2	0.2	
19	0.3	0.3	0.3	0.3	
20	0.4	0.4	0.4	0.4	
22	0.7	0.7	0.7	0.7	
24	1.0	1.0	1.0	1.0	
26	1.4	1.4	1.4	1.4	
28	1.9	1.9	1.9	1.9	
30	3.8	2.9	2.6	2.5	
	Minimum joint (F)				

NOTICE

Important: Reveals were determined with a (door) edge radius of 1 mm.

Hinge dimensions and reveal calculation with factory setting.

We recommend a trial fitting.

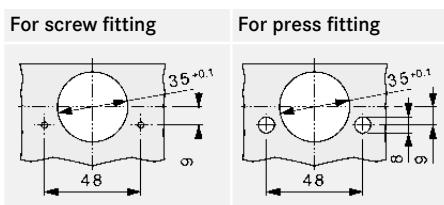
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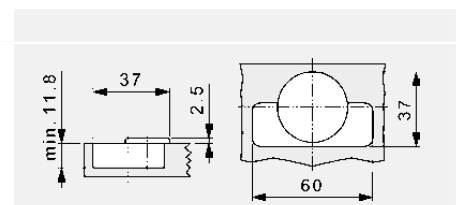
3

4

DRILLING PATTERNS



CUP DIMENSIONS



NEXIS CLICK-ON 29/-14

-14° corner cabinet hinge



- For -14° angled cabinets
- 125° opening angle
- Compatible with Soft-close
- With self-closing mechanism (spring)
- 3-dimensional adjustment with corresponding mounting plate

ORDER INFORMATION

Door position		Spring	Material	Click-on	Screw-on	
Half overlay		■	Zamak/Steel	F015072834		

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Short; Plastic; Left or right; Without Logo	Digital printing	Night	10	F069073534
	Hinge cup; Standard; Steel; Left or right; Without Logo		Nickel		F069073687

ACCESSORIES

	Designation	Art. no.		Designation	Art. no.
	Nexis Soft-close adapter	F069073715		Soft-close Pin	F069066528

PAGE REFERENCES

Nexis Click-on mounting plates	508	Soft-close Pin	540		
Technical information	516	Assembly technology	575		
Soft-close Click-on	534	Assembly aids	580		


NEXIS CLICK-ON 29/-24

-24° corner cabinet hinge


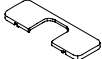


- For -24° angled cabinets
- 125° opening angle
- With self-closing mechanism (spring)
- 3-dimensional adjustment with corresponding mounting plate

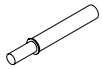
ORDER INFORMATION

Door position		Spring	Material	Click-on Screw-on		
Half overlay		■	Zamak/Steel	F015072829		

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Short; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/-2/2/3/4/6/8/16/45	F069073570
	Hinge cup; Standard; Steel; Left or right; Without Logo		Nickel		F069073687

ACCESSORIES

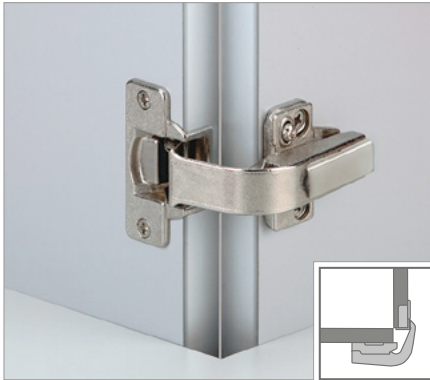
	Designation	Art. no.		Designation	Art. no.
	Soft-close Pin	F069066528			

PAGE REFERENCES

Nexis Click-on mounting plates	508	Assembly technology	575		
Technical information	516	Assembly aids	580		
Soft-close Pin	540				


NEXIS CLICK-ON PCC

Pie-cut corner hinge (for corner applications)




- For connecting two corner cabinet doors
- For door thicknesses of 14–22 mm
- With self-closing mechanism (spring)
- 3-dimensional adjustment with corresponding mounting plate

ORDER INFORMATION

Door position		Spring	Material	Click-on	Screw-on	
-		■	Zamak	F015072858		

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Short; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/-2/2/3/4/6/8/16/45	F069073570

PAGE REFERENCES

Nexis Click-on mounting plates	508	Assembly aids	580		
Technical information	516				
Assembly technology	575				

NEXIS CLICK-ON 17 GL

95° glass door hinge (glass thicknesses from 4 to 6 mm)



- Glass door hinge, 26 mm cup
- For glass thicknesses from 4 to 6 mm
- 95° opening angle
- With self-closing mechanism (spring)
- 3-dimensional adjustment with corresponding mounting plate

ORDER INFORMATION

Door position		Crank	Spring	Material	Click-on		
					Screw-on		
Full overlay		0	■	Steel/plastic	F015072803		

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Short; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/-2/2/3/4/6/8/16/45	F069073570

DECOR PLATES

	Designation	Art. no.
	Nickel; Velour	F069073420
	Nickel; Polished; Eroded	F069073421
	Brass; Polished; Eroded	F069073422
	Silver; RAL 9006	F069073410

	Designation	Art. no.
	Nickel; Velour	F069073425
	Nickel; Polished; Eroded	F069073414

ACCESSORIES

	Designation	Art. no.
	Soft-close Pin	F069066528

	Designation	Art. no.

PAGE REFERENCES

Nexis Click-on mounting plates	508	Assembly technology	575		
Technical information	516	Assembly aids	580		
Soft-close Pin	540				

PLANNING INFORMATION

All dimensions in millimetres

Full overlay		K0			
Door overlay	0	4	5	6	
	19			0	
	18		0		
	17	0		2	
	16		2	3	
	15	2	3	4	
	14	3	4		
	13	4			
Mounting plate height					

NOTICE

Hinge dimensions and reveal calculation with factory setting.

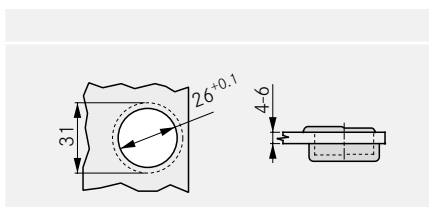
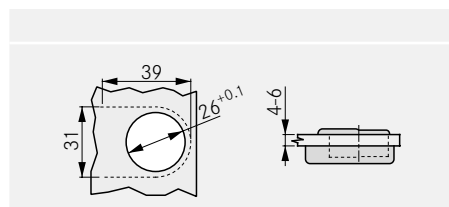
1

2

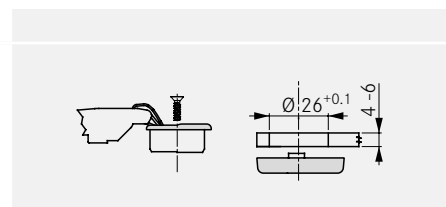
3

4

DRILLING PATTERNS



CUP DIMENSIONS



NEXIS CLICK-ON 07 MIRRO

128° mirror and glass door hinge



- 128° opening angle
- Compatible with Soft-close
- Attachment by gluing a stainless steel adapter onto the door
- Connection of hinge to adapter via cam
- Quick final assembly without drilling into glass
- 3-dimensional adjustment with corresponding mounting plate

ORDER INFORMATION

Door position		Crank	Spring	Material	Click-on To stick		
Full overlay		0	■	Zamak	F015072861		
Half overlay		0	-	Zamak	F015072863		
Inset							

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Short; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/-2/2/3/4/6/8/16/45	F069073570

ACCESSORIES

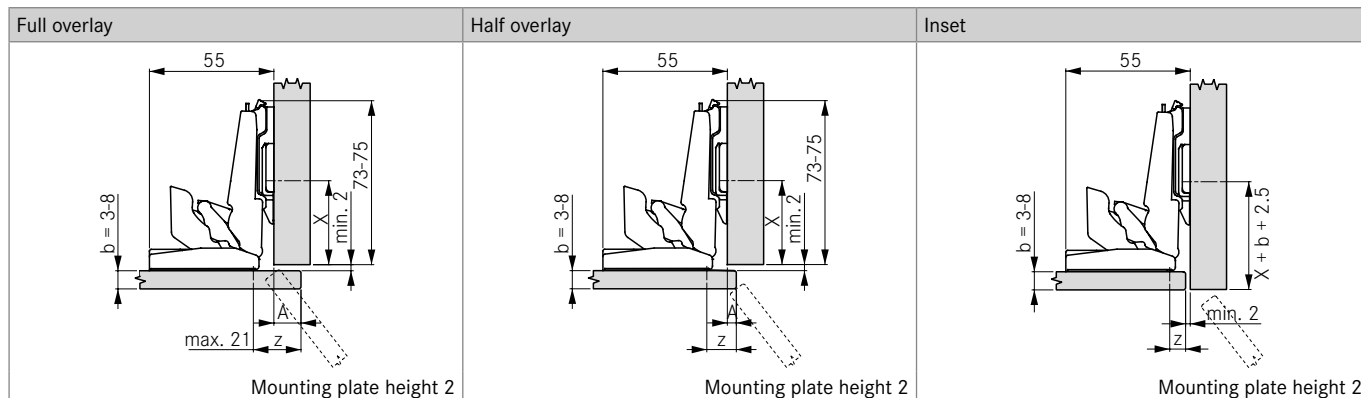
	Designation	Art. no.		Designation	Art. no.
	Tipmatic pin, short, Light grey	F069149392		Nexis Soft-close Mirro	F069073711
	Soft-close Pin	F069066528		Tiomos/Nexis Mirro Stainless steel adapter for mirrors	F069073731

PAGE REFERENCES

Nexis Click-on mounting plates	508	Soft-close Pin	540		
Technical information	516	Assembly technology	575		
Soft-close Mirro	538	Assembly aids	580		

PLANNING INFORMATION

All dimensions in millimetres



CROSS MOUNTING PLATE

LINEAR MOUNTING PLATE

STAINLESS STEEL ADAPTER

Hole spacing	Mounting plate height			
	0	2	4	
28	37	37	37	
37	46	46	46	

X Mounting plate position

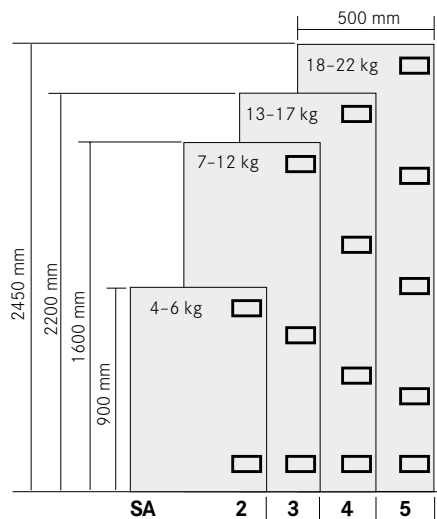
Hole spacing	Mounting plate height			
	0	2	4	
13.5	22.5	22.5	22.5	
22	31	31	31	

X Mounting plate position

z	Mounting plate height		
	0	2	4
A+7	A+9	A+11	
max. 14	max. 12	max. 10	

z = adhesive position

NUMBER OF HINGES



NOTICE

The door overlay (A) on the cabinet side depends on the gluing distance of the hinge seat (z) and the mounting plate height. The maximum overlay is 16 mm when using a mounting plate height of 0 and using the adjustment facility.

An inset application is achieved by altering the fixing distance of the mounting plate (X) and reducing the gluing distance.

Caution: For mirror or glass doors, all reveals must be at least 2 mm (otherwise there is a risk of breakage).

The inside edge of the door must not touch the cabinet when opened.

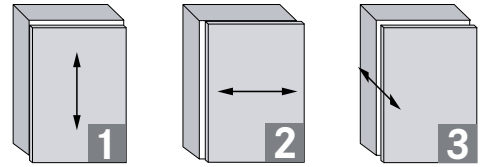
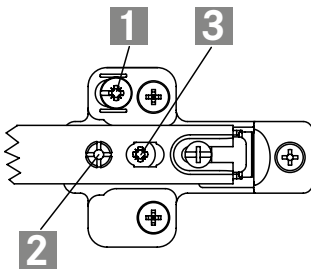
Installation advice: Please contact your glass or door supplier regarding the selection and application of the adhesive for fixing the hinge seat to mirror or glass doors.

Liability claims: Please note that GRASS does not assume any liability for the adhesive and the gluing technique used, nor for any resulting claims.



NEXIS CLICK-ON

2D cross mounting plate



Height adjustment +/- 2 mm Side adjustment +1/-3 mm Depth adjustment +3/-1 mm
All adjustments can be carried out independently of each other.

ORDER INFORMATION

NEXIS 2D CROSS MOUNTING PLATE, 3-POINT FIXING

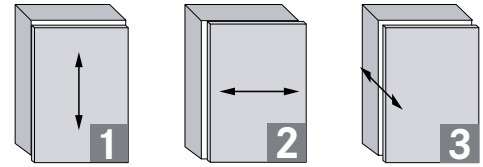
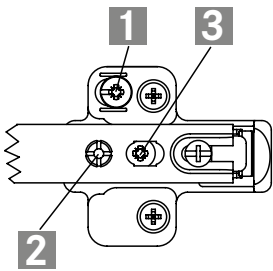
Description		37/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> Steel/Zamak Mounting with wood screws Fixing distance 37 mm Hole spacing 32 mm Height and depth adjustment via cam lock nut 			0	Nickel	F061073214
			2		F061073215
			4		F061073216
			8		F061073218

NEXIS 2D CROSS MOUNTING PLATE, 3-POINT FIXING

Description		37/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> Steel/zamak Fixing with pre-assembled Euro screws Mounting distance 37 mm Hole spacing 32 mm Height and depth adjustment via cam 			0	Nickel	F061073232
			2		F061073233
			4		F061073234

NEXIS CLICK-ON

2D cross mounting plate



Height adjustment +/- 2 mm
 Side adjustment +1/-3 mm
 Depth adjustment +3/-1 mm
 All adjustments can be carried out independently of each other.

ORDER INFORMATION

NEXIS 2D CROSS MOUNTING PLATE, 2-POINT FIXING

Description		37/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> Steel/zamak Fixing with wood screws Mounting distance 37 mm Hole spacing 32 mm Height and depth adjustment via cam 			0	Nickel	F061073253
			2		F061073254
			4		F061073255
			6		F061073222
			8		F061073223

NEXIS 2D CROSS MOUNTING PLATE, 2-POINT FIXING

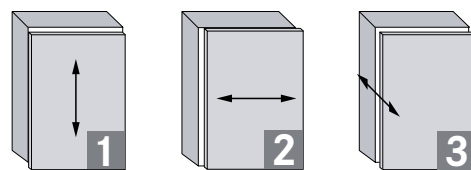
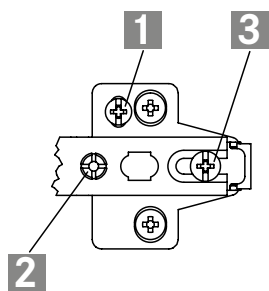
Description		37/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> Steel/zamak Fixing with Euro screws Mounting distance 37 mm Hole spacing 32 mm Height and depth adjustment via cam 			0	Nickel	F061073227
			4		F061073229

NEXIS 2D CROSS MOUNTING PLATE, 2-POINT FIXING

Description		37/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> Steel/zamak, nickel-plated Fixing with pre-assembled Euro screws Mounting distance 37 mm Hole spacing 32 mm Height and depth adjustment via cam 			0	Nickel	F061073236
			2		F061073237
			4		F061073238
			6		F061073239
			8		F061073240

NEXIS CLICK-ON

2-piece cross mounting plate



Height adjustment +/- 2 mm
 Side adjustment +1/-3 mm
 Depth adjustment +3/-1 mm
 All adjustments can be carried out independently of each other.

ORDER INFORMATION

NEXIS 2-PART CROSS MOUNTING PLATE, 3-POINT FIXING

Description		37/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> Steel/zamak Fixing with wood screws Mounting distance 37 mm Hole spacing 32 mm 			0	Nickel	F060073148
			2		F060073150
			4		F060073151
			8		F060073152
			18		F060073153

NEXIS 2-PART CROSS MOUNTING PLATE, 3-POINT FIXING

Description		37/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> Steel/zamak Fixing with Euro screws Mounting distance 37 mm Hole spacing 32 mm 			0	Nickel	F060073156
			2		F060073157
			4		F060073158
			8		F060073159

SPACER PLATE

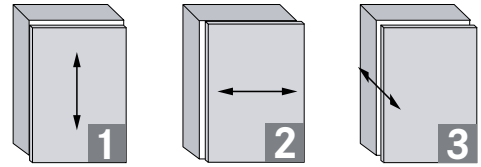
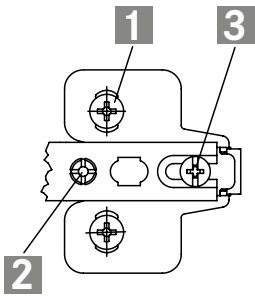
Description			Height	Colour	Art. no.
<ul style="list-style-type: none"> Plastic Stackable For 2-piece steel/zamak plates 			3 mm	Black	F069073764

NEXIS 2-PART CROSS MOUNTING PLATE, 3-POINT FIXING

Description		37/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> Steel/zamak Fixing with pre-assembled Euro screws Mounting distance 37 mm Hole spacing 32 mm 			0	Nickel	F060073171
			2		F060073172
			4		F060073173
			18		F060073175

NEXIS CLICK-ON

1-piece cross mounting plate



Height adjustment +/- 2 mm
 Side adjustment +1/-3 mm
 Depth adjustment +3/-1 mm
 All adjustments can be carried out independently of each other.

ORDER INFORMATION

NEXIS 1-PART CROSS MOUNTING PLATE, 2-POINT FIXING

Description		37/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> • Steel • Fixing with wood screws • Mounting distance 37 mm • Hole spacing 32 mm • Height adjustment by means of slot 			0	Nickel	F060073144
			2		F060073145
			4		F060073146

NEXIS 1-PART CROSS MOUNTING PLATE, 2-POINT FIXING

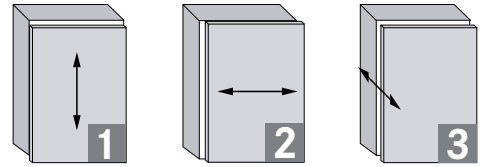
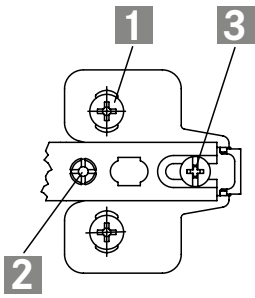
Description		37/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> • Steel • Fixing with pre-assembled 13.5 mm long Euro screws • Mounting distance 37 mm • Hole spacing 32 mm • Height adjustment by means of slot 			0	Nickel	F060073179
			2		F060073180
			4		F060073181

NEXIS 1-PART CROSS MOUNTING PLATE, 2-POINT FIXING FOR TWIN APPLICATION

Description		37/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> • Steel • Fixing with pre-assembled 10.5 mm long Euro screws • Mounting distance 37 mm • Hole spacing 32 mm • Height adjustment by means of slot • For twin application 			2	Nickel	F060073202

NEXIS CLICK-ON

1-piece cross mounting plate



Height adjustment ± 2 mm
 Side adjustment $+1/-3$ mm
 Depth adjustment $+3/-1$ mm
 All adjustments can be carried out independently of each other.

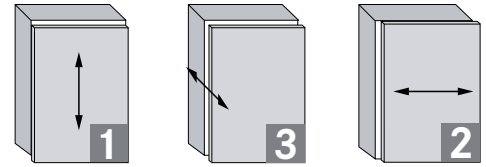
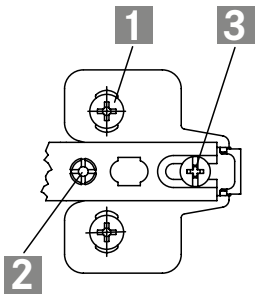
ORDER INFORMATION

NEXIS 1-PART CROSS MOUNTING PLATE, 3-POINT FIXING

Description		37/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> • Steel • Fixing with 5 mm expansion dowels • Mounting distance 37 mm • Hole spacing 32 mm • Height adjustment by means of slot 			0	Nickel	F060073185
			2		F060073186

NEXIS CLICK-ON

1-piece mounting plate



Height adjustment ± 2 mm
 Depth adjustment $+3/-1$ mm
 Side adjustment $+1/-3$ mm
 All adjustments can be carried out independently of each other.

ORDER INFORMATION

NEXIS 1-PART MOUNTING PLATE, 2-POINT FIXING, MOUNTING DISTANCE 28 MM

Description		28/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> Steel Fixing with wood screws Mounting distance 28 mm Hole spacing 32 mm Height adjustment by means of slot 			2	Nickel	F060073140

NEXIS 1-PART MOUNTING PLATE, 2-POINT FIXING, MOUNTING DISTANCE 28 MM

Description		28/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> Steel Fixing with pre-assembled Euro screws Mounting distance 28 mm Hole spacing 32 mm Height adjustment by means of slot 			0	Nickel	F060073162
			2		F060073163
			4		F060073164

1

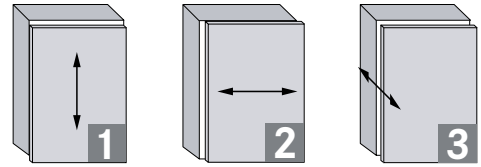
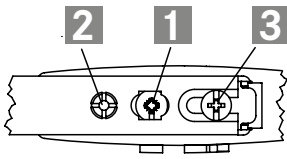
2

3

4

NEXIS CLICK-ON

Angled cross mounting plate/ 1D linear mounting plate



Height adjustment +/-2 mm
 Side adjustment +1/-3 mm
 Depth adjustment +3/-1 mm
 All adjustments can be carried out independently of each other.

ORDER INFORMATION

NEXIS 1D LINEAR MOUNTING PLATE, 2-POINT FIXING

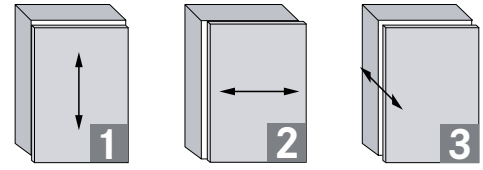
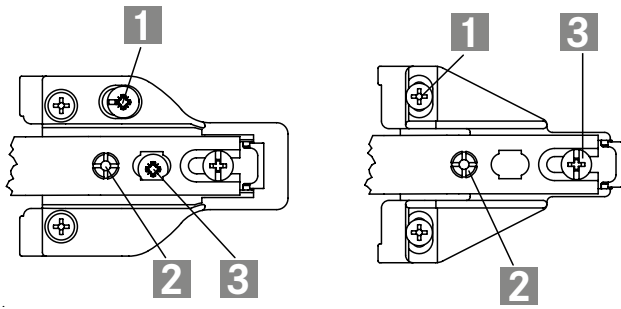
Description		13,5/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> Steel/zamak Fixing with wood screws Height adjustment via cam 			0	Nickel	F060073129
			2		F060073130
			4		F060073205

NEXIS 1D LINEAR MOUNTING PLATE, 2-POINT FIXING

Description		13,5/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> Steel/zamak Fixing with 10 mm dowels Height adjustment via cam 			3	Nickel	F060073210

NEXIS CLICK-ON

Special mounting plate



Height adjustment ± 2 mm
 Side adjustment $\pm 1-3$ mm
 Depth adjustment $\pm 3-1$ mm
 All adjustments can be carried out independently of each other.

ORDER INFORMATION

NEXIS 2D SPECIAL MOUNTING PLATE FOR FRAME CONSTRUCTION

Description		10/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> Steel/zamak Fixing with pre-assembled wood screws Height and depth adjustment via cam 			4	Nickel	F061073285

NEXIS 2D SPECIAL MOUNTING PLATE FOR FRAME CONSTRUCTION

Description		10/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> Steel/zamak Fixing with wood screws Height and depth adjustment via cam 			0	Nickel	F061073279
			2		F061073280
			4		F061073281

NEXIS SPECIAL MOUNTING PLATE FOR FRAME CONSTRUCTION

Description		10/36	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> Zamak Fixing with wood screws Height adjustment by means of slot 			0	Nickel	F061073275
			2		F061073276
			4		F061073277

NEXIS CLICK-ON

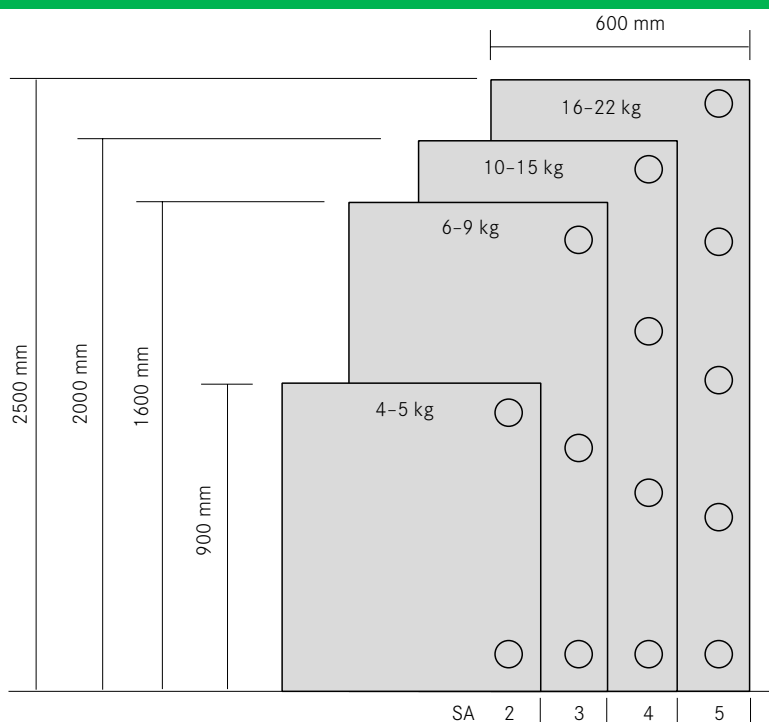
Technical information

NUMBER OF HINGES PER DOOR

Description

The decisive factors are door height, door weight, material quality, cup and mounting plate fixing. The load and height values are for standard door widths of 600 mm.

Hinges with cup dia. 26 mm were tested with door width 450 mm. In case of doubt, the number of hinges must be determined by means of a trial fitting.



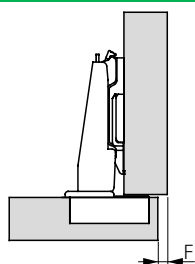
DOOR REVEAL/MINIMUM JOINT

Description

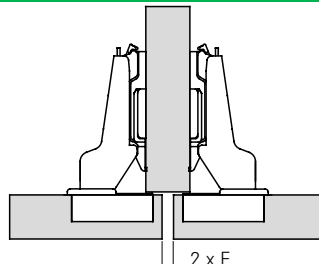
The reveal is the distance between two doors or between the door and the cabinet side.

The minimum reveal (F) is the distance between two doors or between the door and the side wall. The gap allows the door to be opened without any collision.

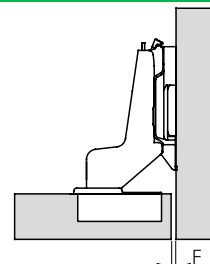
Full door overlay



Half door overlay



Inset door



Minimum reveal table

The required reveal width depends on the door thickness.

For example:

With a door thickness of 18 mm and a cup distance of 6 mm, a reveal of 0.2 mm is required.

Important

Reveals were determined with a (door) edge radius of 1 mm. Hinge dimensions and reveal calculation with factory setting.

We recommend a trial fitting.

Door thickness	Cup distance				6		
	3	4	5	6			
16	0.1	0.1	0.1	0.1			
18	0.2	0.2	0.2	0.2			
19	0.3	0.3	0.3	0.3			
20	0.4	0.4	0.4	0.4			
22	0.7	0.7	0.7	0.7			
24	1.0	1.0	1.0	1.0			
26	1.4	1.4	1.4	1.4			
28	1.9	1.9	1.9	1.9			
30	3.8	2.9	2.6	2.5			

Minimum joint (F)

Achievable reveal with inset door

The table shows the reveal that can be achieved with an inset door depending on the cup distance and mounting plate height.

For example:

With a cup distance of 4 mm and a mounting plate height of 3 mm, there is a reveal of 1 mm.

Door reveal	Cup distance						
	3	4	5	6			
15							
0		2	3	4			
1	2	3	4				
2	3	4					

Mounting plate height

PAGE REFERENCES

Nexis Click-on	478	Assembly aids	580		
Nexis Click-on mounting plates	508				
Assembly technology	575				

ADJUSTMENTS

Description	Side adjustment +1/-3 mm	Depth adjustment +3/-1 mm	Height adjustment +/- 2 mm
The possibility of height adjustment depends on the type of mounting plate. All adjustments can be carried out independently of each other.			

MINIMUM GAP/CUP DISTANCE

Description	Example																																																																
<p>The minimum gap (MS) is the clearance required between the front edge of the cabinet and the closed door so that the door can be opened without hindrance.</p> <p>The cup distance (TA) is the distance between the door edge and the edge of the cup hole.</p>	<p>With a door thickness of 26 mm and a cup distance of 6 mm, the minimum gap is 0.7 mm.</p> <table border="1"> <thead> <tr> <th rowspan="2">Door thickness</th> <th colspan="4">Cup distance</th> <th rowspan="2">Minimum gap</th> </tr> <tr> <th>3</th> <th>4</th> <th>5</th> <th>6</th> </tr> </thead> <tbody> <tr><td>16</td><td>0.5</td><td>0.5</td><td>0.5</td><td>0.5</td><td></td></tr> <tr><td>18</td><td>0.5</td><td>0.5</td><td>0.5</td><td>0.5</td><td></td></tr> <tr><td>19</td><td>0.5</td><td>0.5</td><td>0.5</td><td>0.5</td><td></td></tr> <tr><td>20</td><td>0.0</td><td>0.0</td><td>0.0</td><td>0.5</td><td></td></tr> <tr><td>22</td><td>0.5</td><td>0.5</td><td>0.5</td><td>0.5</td><td></td></tr> <tr><td>24</td><td>0.5</td><td>0.5</td><td>0.5</td><td>0.5</td><td></td></tr> <tr><td>26</td><td>0.5</td><td>0.5</td><td>0.5</td><td>0.7</td><td></td></tr> <tr><td>28</td><td>0.5</td><td>0.5</td><td>0.5</td><td>0.9</td><td></td></tr> <tr><td>30</td><td>0.5</td><td>0.5</td><td>1.1</td><td>1.1</td><td></td></tr> </tbody> </table>	Door thickness	Cup distance				Minimum gap	3	4	5	6	16	0.5	0.5	0.5	0.5		18	0.5	0.5	0.5	0.5		19	0.5	0.5	0.5	0.5		20	0.0	0.0	0.0	0.5		22	0.5	0.5	0.5	0.5		24	0.5	0.5	0.5	0.5		26	0.5	0.5	0.5	0.7		28	0.5	0.5	0.5	0.9		30	0.5	0.5	1.1	1.1	
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30	0.5	0.5	1.1	1.1																																																													

DOOR PROTRUSION/DOOR OVERLAY

Door protrusion	Door overlay																																																																
<p>The door protrusion (TES) is obtained when the door is open and varies depending on the hinge type and application.</p> <p>It is specified on the individual catalogue page and relates to the mounting plate specified in the factory setting in each case. It changes when the mounting plate height is changed and the side adjustment is used.</p>	<p>The door overlay (A) is the part of the side wall or frame that is covered by the door.</p> <p>For example: For a hinge with cranking 8, mounting plate height 0 and a cup distance of 5 mm, the door overlay is 10 mm.</p> <table border="1"> <thead> <tr> <th rowspan="2">Door overlay</th> <th colspan="4">Cup distance</th> <th rowspan="2">Mounting plate height</th> </tr> <tr> <th>3</th> <th>4</th> <th>5</th> <th>6</th> </tr> </thead> <tbody> <tr><td>8</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td><td></td><td>0</td><td></td></tr> <tr><td>10</td><td></td><td></td><td>0</td><td></td><td></td></tr> <tr><td>9</td><td></td><td>0</td><td></td><td></td><td></td></tr> <tr><td>8</td><td>0</td><td></td><td>2</td><td>3</td><td></td></tr> <tr><td>7</td><td></td><td>2</td><td>3</td><td>4</td><td></td></tr> <tr><td>6</td><td>2</td><td>3</td><td>4</td><td></td><td></td></tr> <tr><td>5</td><td>3</td><td>4</td><td></td><td></td><td></td></tr> <tr><td>4</td><td>4</td><td></td><td></td><td></td><td></td></tr> </tbody> </table>	Door overlay	Cup distance				Mounting plate height	3	4	5	6	8						11				0		10			0			9		0				8	0		2	3		7		2	3	4		6	2	3	4			5	3	4				4	4				
Door overlay	Cup distance				Mounting plate height																																																												
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LEGEND

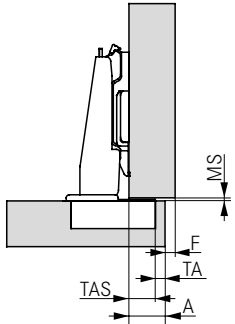
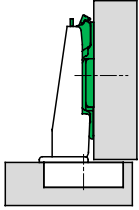
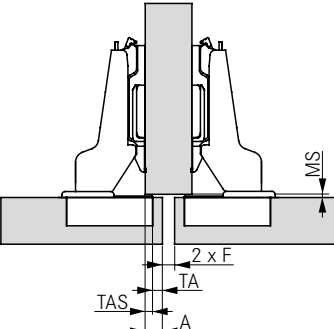
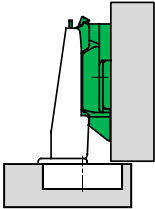
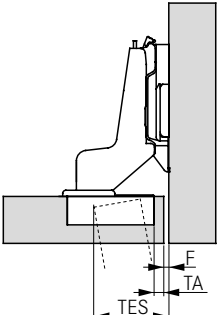
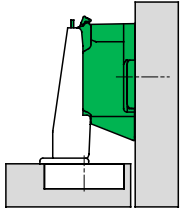
A	Door overlay	TA	Cup distance
F	Reveal	TES	Door protrusion
MS	Minimum gap		
SA	Number of hinges		



NEXIS CLICK-ON

Technical information

OPTION TO CHANGE THE DOOR OVERLAY

After selecting the cranking	By using a different mounting plate height
<p>Full overlay (cranking 0) The cup overlay (TAS/factory setting) plus cup distance (TA) provides the door overlay (A).</p> <p>The dimensions can be found in the table on the respective catalogue page.</p> 	<p>Full overlay Hinge with cranking 0 and mounting plate height 0</p> 
<p>Half overlay (cranking 8) The cup overlay (TAS/factory setting) plus cup distance (TA) provides the door overlay (A).</p> <p>The dimensions can be found in the table on the respective catalogue page.</p> 	<p>Half overlay Hinge with cranking 0 and mounting plate height 8</p> 
<p>Inset (cranking 15) There is no door overlay.</p> <p>The reveal (F) between the cabinet side and the door depends on the mounting plate height (MH) and the cup distance (TA).</p> <p>The dimensions can be found in the table on the respective catalogue page.</p> 	<p>Inset Hinge with cranking 0 and mounting plate height 18</p> 

PAGE REFERENCES

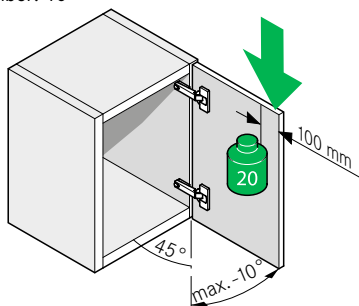
Nexis Click-on	478	Assembly aids	580		
Nexis Click-on mounting plates	508				
Assembly technology	575				

TEST CRITERIA FOR HINGES

Functional test

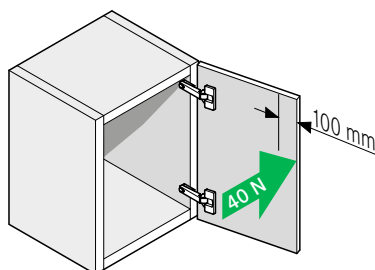
Static load, vertical

Additional load: 20 kg
Opening angle: max. -10°
Number: 10



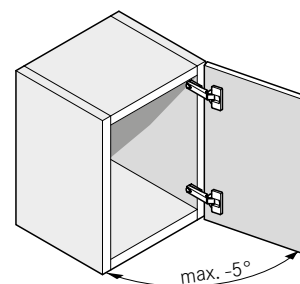
Static load horizontal

Force: 40 N
Number: 10



Endurance test

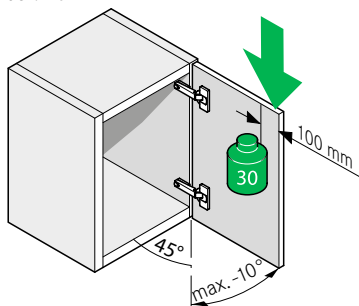
Opening angle: max. -5°
Opening and closing movements: 100,000



Overload test

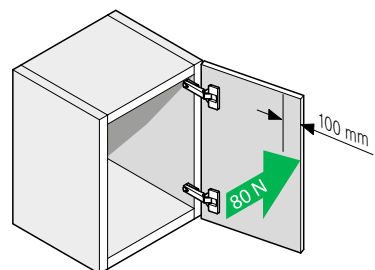
Vertical

Additional load: 30 kg
Opening angle: max. -10°
Number: 10



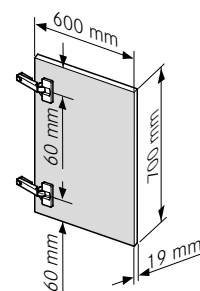
Horizontal

Force: 80 N
Number: 10



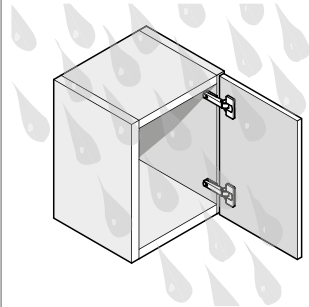
Test door

Weight approx. 5.2 kg



Salt spray and humidity test

Based on DIN ISO 9227 and DIN 6270-2



LEGEND

- A Door overlay
- F Reveal
- MS Minimum gap
- SA Number of hinges

- TA Cup distance
- TES Door protrusion

Single-joint hinges
with Slide-on technology.

Nexis Slide-on.

grass.eu



FOLLOW US



Nexis Slide-on single-joint hinges are also available for rebated doors with door thicknesses from 14 to 21 mm.

Slide-on hinges enable impressively efficient installation: They are attached to the cabinet via mounting plates with standard 37/32 hole spacing. The practical Slide-on technology means you can simply push the door onto the mounting plates and fix it in place with a screw. This is particularly beneficial for tall doors with multiple hinges.




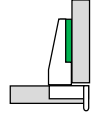

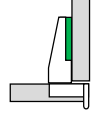
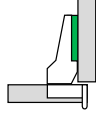

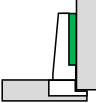
The external roller enables an especially wide opening angle, ensuring optimal access to the cabinet contents. This makes the Nexis Slide-on hinge the perfect choice for offices and buildings.

**Efficient
and practical.**



Nexis Slide-on Single-Joint Hinges

Practical single-joint hinges for installation on the cabinet side with classic Slide-on technology. Three-dimensional adjustment.

Opening angle		Description	Full overlay	Half overlay	Page
270°		Nexis Slide-on 70 <ul style="list-style-type: none"> • Cup diameter 30 mm • For door thicknesses from 15 to 21 mm • With a wide opening angle • With hold-closed function 		-	522
270°		Nexis Slide-on 73 <ul style="list-style-type: none"> • For door thicknesses from 15 to 21 mm • With a wide opening angle • With hold-closed function 			524
180°		Nexis Slide-on 80 <ul style="list-style-type: none"> • For door thicknesses from 14 to 21 mm • With a wide opening angle • With hold-closed function 		-	526

Nexis Slide-on mounting plates	528
Technical information	530

1

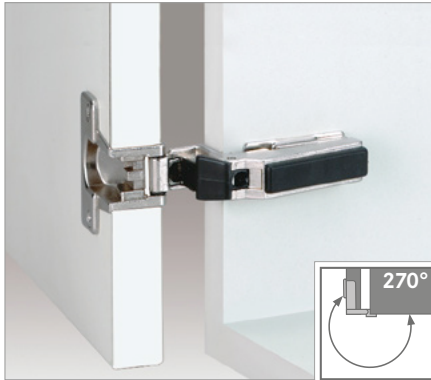
2

3

4

NEXIS SLIDE-ON 70

270° single-joint hinge (door thicknesses 15 to 21 mm)



- 270° opening angle
- For door thicknesses of 15–21 mm
- For door overlays up to 16 mm
- With automatic hold-closed function
- 3-dimensional adjustment with corresponding mounting plate

ORDER INFORMATION

Door position		Tumbler	Suitable for min./max. door thickness	Material	Slide-on		
					Screw-on		
Full overlay		■	15-21 mm	Zamak	F016073088		
		■	15-18 mm	Zamak	F016073090		

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Short; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/-2/2/3/4/6/8/16/45	F069073570

ACCESSORIES

	Designation	Art. no.		Designation	Art. no.
	Soft-close Pin	F069066528			

PAGE REFERENCES

Nexis Slide-on mounting plates	528	Assembly technology	575		
Technical information	530	Assembly aids	580		
Soft-close Pin	540				

PLANNING INFORMATION

All dimensions in millimetres

Full overlay (TS 15-21)

Mounting plate height 0

Full overlay (TS 15-18)

Mounting plate height 0

	Cut-out depth (x)					
	0	7				
Door overlay	16	0				
	15					
	14	2				
	13	3				
	12	4				
	11					
	10					
	9					
	8	2				
	7	3				
	6	4				
	Mounting plate height					

NOTICE

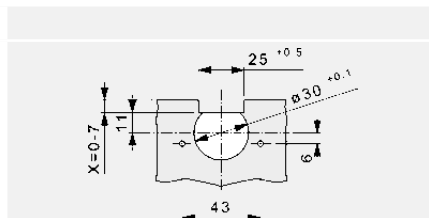
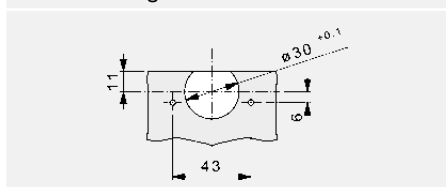
Important: Reveals were determined with a (door) edge radius of 1 mm.

Hinge dimensions and reveal calculation with factory setting.

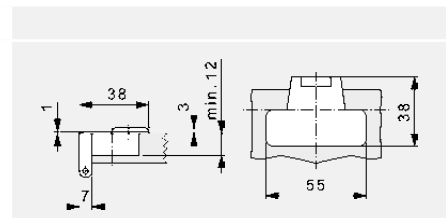
We recommend a trial fitting.

DRILLING PATTERNS

For screw fitting

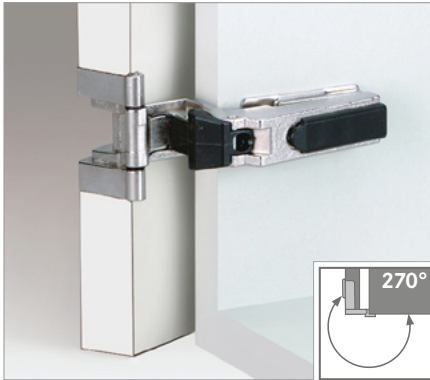


CUP DIMENSIONS



NEXIS SLIDE-ON 73

270° single-joint hinge (door thicknesses 15 to 21 mm)



- 270° opening angle
- For door thicknesses of 15–21 mm
- For door overlays up to 16 mm
- With automatic hold-closed function
- 3-dimensional adjustment with corresponding mounting plate

ORDER INFORMATION

Door position		Crank	Tumbler	Suitable for min./max. door thickness	Material	Slide-on		
						Screw-on		
Full overlay		0	■	15-21 mm	Zamak	F016073084		
Half overlay		8	■	15-21 mm	Zamak	F016073095		

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Short; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/-2/2/3/4/6/8/16/45	F069073570

ACCESSORIES

	Designation	Art. no.		Designation	Art. no.
	Soft-close Pin	F069066528			

PAGE REFERENCES

Nexis Slide-on mounting plates	528	Assembly technology	575		
Technical information	530	Assembly aids	580		
Soft-close Pin	540				

PLANNING INFORMATION

All dimensions in millimetres

Full overlay K0								Half overlay K8									
<p>Mounting plate height 0</p>								<p>Mounting plate height 0</p>									
Door overlay	0	Cut-out depth (x)							Door overlay	8	Cut-out depth (x)						
	16	6	5	4	3	2	1	0		8	6	5	4	3	2	1	0
	15	0								7	0						
	14	2		0						6	2		0				
	13	3	2		0					5	3	2		0			
	12	4	3	2		0				4	4	3	2		0		
	11		4	3	2		0			3		4	3	2		0	
	10			4	3	2		0		2			4	3	2		0
	9				4	3	2			1				4	3	2	
	8					4	3	2									
7						4	3										
6							4										
Mounting plate height								Mounting plate height									

NOTICE

Important: Reveals were determined with a (door) edge radius of 1 mm.

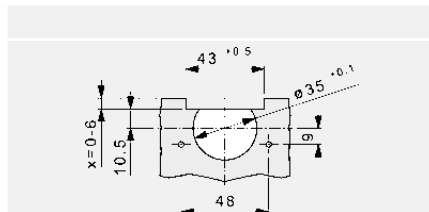
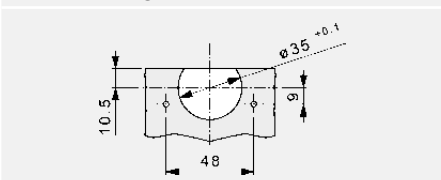
Hinge dimensions and reveal calculation with factory setting.

We recommend a trial fitting.

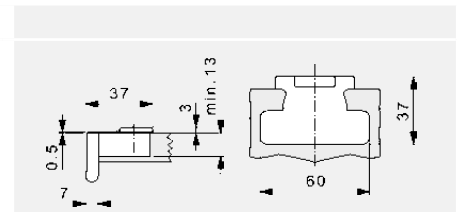


DRILLING PATTERNS

For screw fitting



CUP DIMENSIONS



NEXIS SLIDE-ON 80

180° single-joint hinge (for rebated doors)



- 180° opening angle
- With visible, nickel-plated finial
- For door thicknesses of 14-21 mm
- With automatic hold-closed function
- 3-dimensional adjustment with corresponding mounting plate

ORDER INFORMATION

Door position		Tumbler	With ornamental roles	Form	Colour	Material	Slide-on		
							Screw-on		
Overlay		■	-	-	Nickel	Zamak	F016073099		

COVER CAPS

	Designation	Personalisation (logo)	Colour	Suitable for cranking	Art. no.
	Hinge arm; Short; Steel; Left or right; Without Logo	Digital printing, Stamping	Nickel	0/-2/2/3/4/6/8/16/45	F069073570

ACCESSORIES

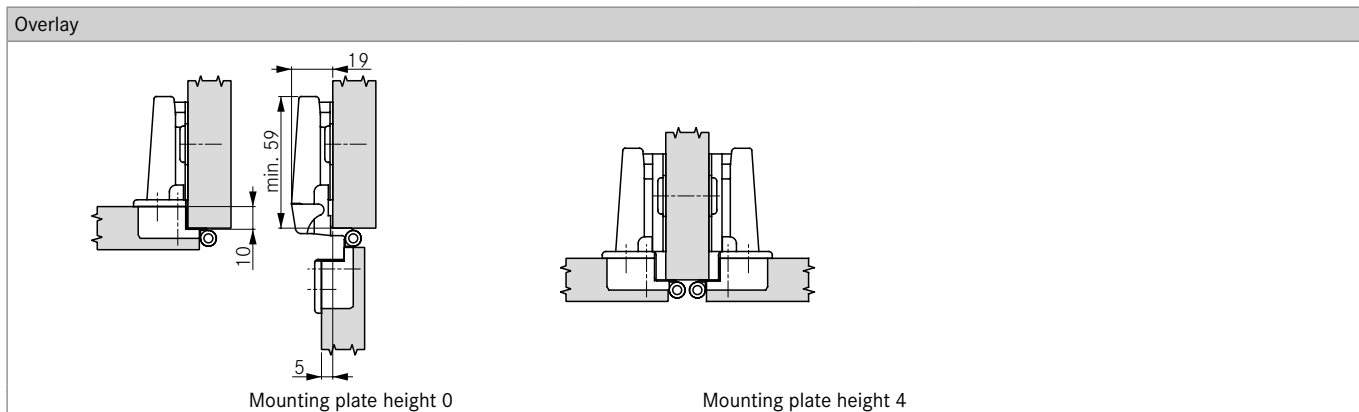
	Designation	Art. no.		Designation	Art. no.
	Soft-close Pin	F069066528			

PAGE REFERENCES

Nexis Slide-on mounting plates	528	Assembly technology	575		
Technical information	530	Assembly aids	580		
Soft-close Pin	540				

PLANNING INFORMATION

All dimensions in millimetres

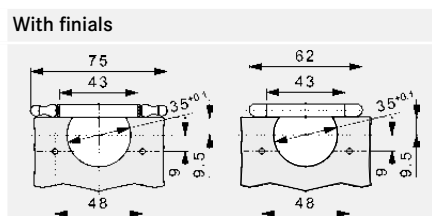
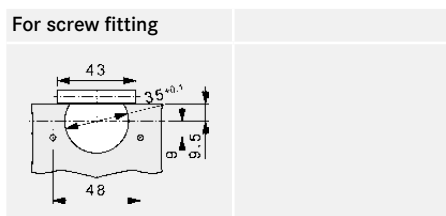


NOTICE

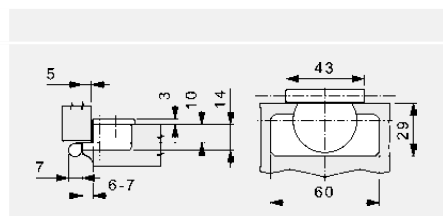
We recommend a trial fitting.



DRILLING PATTERNS

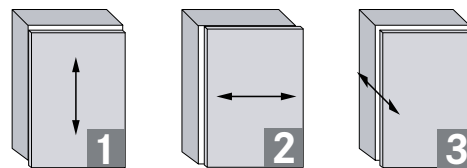
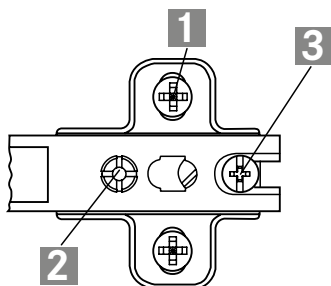


CUP DIMENSIONS



NEXIS SLIDE-ON

Cross mounting plates



Height adjustment ± 2 mm
 Side adjustment ± 1 – 3 mm
 Depth adjustment ± 3 – 1 mm

All adjustments can be carried out independently of each other.

ORDER INFORMATION

NEXIS CROSS MOUNTING PLATE, 2-POINT FIXING

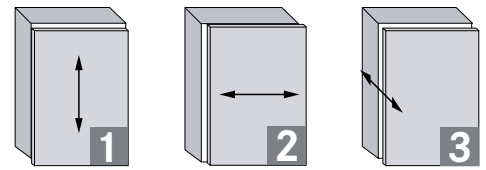
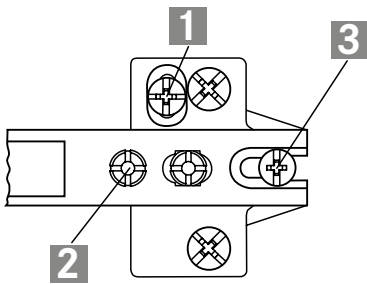
Description		37/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> • Steel • Fixing with wood screws • Mounting distance 37 mm • Hole spacing 32 mm 			0	Nickel	F062073298
			2		F062073299
			4		F062073300

NEXIS CROSS MOUNTING PLATE, 2-POINT FIXING

Description		37/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> • Steel • Fixing with pre-assembled Euro screws • Mounting distance 37 mm • Hole spacing 32 mm 			0	Nickel	F062073316
			2		F062073317
			4		F062073318

NEXIS SLIDE-ON

2-piece cross mounting plates



Height adjustment Side adjustment Depth adjustment
 +/-2 mm +/-3 mm +/-3 mm
 All adjustments can be carried out independently of each other.

ORDER INFORMATION

NEXIS 2-PART CROSS MOUNTING PLATE, 3-POINT FIXING

Description		37/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> Steel/zamak Fixing with wood screws Mounting distance 37 mm Hole spacing 32 mm 			0	Nickel	F062073301
			2		F062073302

NEXIS 2-PART CROSS MOUNTING PLATE, 3-POINT FIXING

Description		37/32	Mounting plate height	Colour	Art. no.
<ul style="list-style-type: none"> Steel/zamak Fixing with Euro screws Mounting distance 37 mm Hole spacing 32 mm 			0	Nickel	F062073307

NEXIS SLIDE-ON

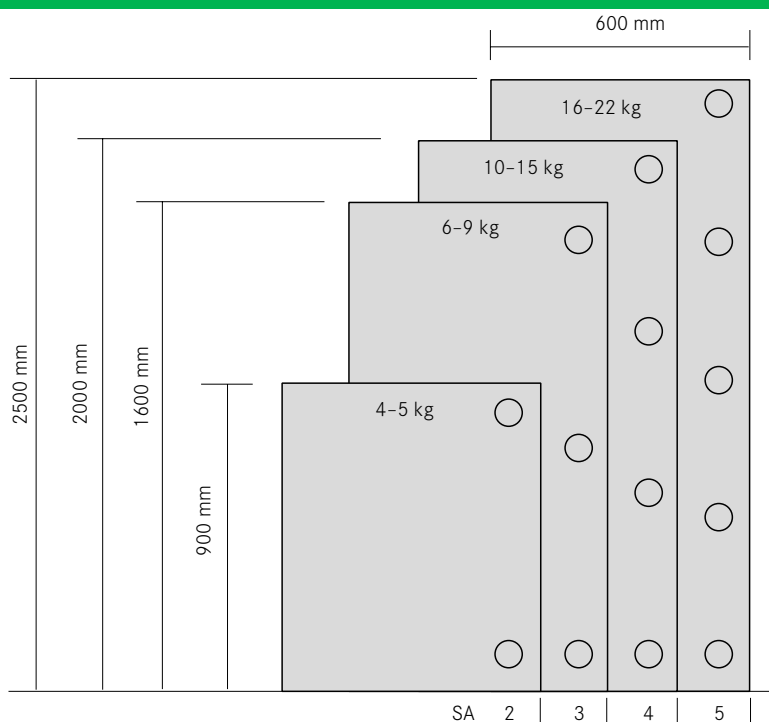
Technical information

NUMBER OF HINGES PER DOOR

Description

The decisive factors are door height, door weight, material quality, cup and mounting plate fixing. The load and height values are for standard door widths of 600 mm.

Hinges with cup dia. 26 mm were tested with door width 450 mm. In case of doubt, the number of hinges must be determined by means of a trial fitting.



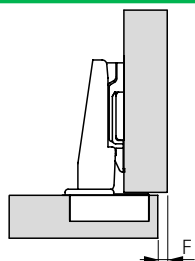
DOOR REVEAL/MINIMUM JOINT

Description

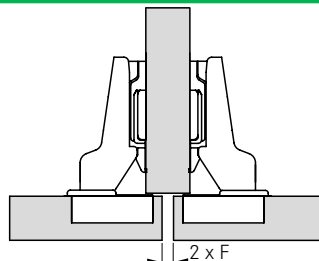
The reveal is the distance between two doors or between the door and the cabinet side.

The minimum reveal (F) is the distance between two doors or between the door and the side wall. The gap allows the door to be opened without any collision.

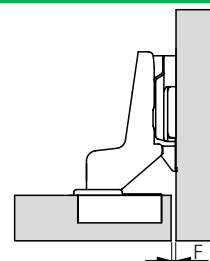
Full door overlay



Half door overlay



Inset door



Minimum reveal table

The required reveal width depends on the door thickness.

For example:

With a door thickness of 18 mm and a cup distance of 6 mm, a reveal of 0.2 mm is required.

Important

Reveals were determined with a (door) edge radius of 1 mm. Hinge dimensions and reveal calculation with factory setting.

We recommend a trial fitting.

Door thickness	Cup distance				Minimum joint (F)
	3	4	5	6	
16	0.1	0.1	0.1	0.1	
18	0.2	0.2	0.2	0.2	
19	0.3	0.3	0.3	0.3	
20	0.4	0.4	0.4	0.4	
22	0.7	0.7	0.7	0.7	
24	1.0	1.0	1.0	1.0	
26	1.4	1.4	1.4	1.4	
28	1.9	1.9	1.9	1.9	
30	3.8	2.9	2.6	2.5	

Achievable reveal with inset door

The table shows the reveal that can be achieved with an inset door depending on the cup distance and mounting plate height.

For example:

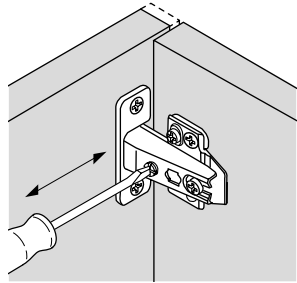
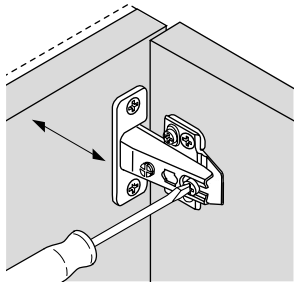
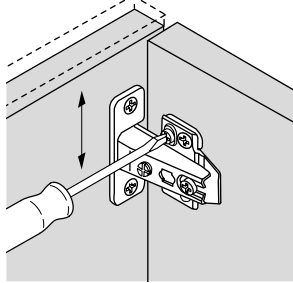
With a cup distance of 4 mm and a mounting plate height of 4 mm, there is a reveal of 2 mm.

Door reveal	Cup distance				Mounting plate height
	3	4	5	6	
15					
0		2		4	
1	2		4		
2		4			

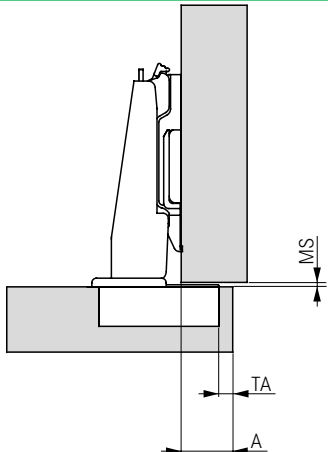
PAGE REFERENCES

Nexis Slide-on	521	Assembly aids	580		
Nexis Slide-on mounting plates	528				
Assembly technology	575				

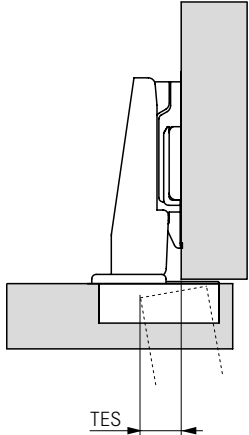
ADJUSTMENTS

Description	Side adjustment +1/-3 mm	Depth adjustment +3/-1 mm	Height adjustment +/- 2 mm
The possibility of height adjustment depends on the type of mounting plate. All adjustments can be carried out independently of each other.			

MINIMUM GAP/CUP DISTANCE

Description	Example																																																																																	
<p>The minimum gap (MS) is the clearance required between the front edge of the cabinet and the closed door so that the door can be opened without hindrance.</p> <p>The cup distance (TA) is the distance between the door edge and the edge of the cup hole.</p> 	<p>With a door thickness of 26 mm and a cup distance of 6 mm, the minimum gap is 0.7 mm.</p> <table border="1"> <thead> <tr> <th rowspan="2">Door thickness</th> <th colspan="4">Cup distance</th> <th rowspan="2"></th> <th rowspan="2"></th> </tr> <tr> <th>3</th> <th>4</th> <th>5</th> <th>6</th> </tr> </thead> <tbody> <tr><td>16</td><td>0.5</td><td>0.5</td><td>0.5</td><td>0.5</td><td></td><td></td></tr> <tr><td>18</td><td>0.5</td><td>0.5</td><td>0.5</td><td>0.5</td><td></td><td></td></tr> <tr><td>19</td><td>0.5</td><td>0.5</td><td>0.5</td><td>0.5</td><td></td><td></td></tr> <tr><td>20</td><td>0.0</td><td>0.0</td><td>0.0</td><td>0.5</td><td></td><td></td></tr> <tr><td>22</td><td>0.5</td><td>0.5</td><td>0.5</td><td>0.5</td><td></td><td></td></tr> <tr><td>24</td><td>0.5</td><td>0.5</td><td>0.5</td><td>0.5</td><td></td><td></td></tr> <tr><td>26</td><td>0.5</td><td>0.5</td><td>0.5</td><td>0.7</td><td></td><td></td></tr> <tr><td>28</td><td>0.5</td><td>0.5</td><td>0.5</td><td>0.9</td><td></td><td></td></tr> <tr><td>30</td><td>0.5</td><td>0.5</td><td>1.1</td><td>1.1</td><td></td><td></td></tr> <tr> <td colspan="7" style="text-align: right;">Minimum gap</td> </tr> </tbody> </table>	Door thickness	Cup distance						3	4	5	6	16	0.5	0.5	0.5	0.5			18	0.5	0.5	0.5	0.5			19	0.5	0.5	0.5	0.5			20	0.0	0.0	0.0	0.5			22	0.5	0.5	0.5	0.5			24	0.5	0.5	0.5	0.5			26	0.5	0.5	0.5	0.7			28	0.5	0.5	0.5	0.9			30	0.5	0.5	1.1	1.1			Minimum gap						
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Minimum gap																																																																																		

DOOR PROTRUSION/DOOR OVERLAY

Door protrusion	Door overlay																																																																																	
<p>The door protrusion (TES) is obtained when the door is open and varies depending on the hinge type and application.</p> <p>It is specified on the individual catalogue page and relates to the mounting plate specified in the factory setting in each case. It changes when the mounting plate height is changed and the side adjustment is used.</p> 	<p>The door overlay (A) is the part of the side wall or frame that is covered by the door.</p> <p>For example: For a hinge with cranking 8, mounting plate height 0 and a cup distance of 5 mm, the door overlay is 10 mm.</p> <table border="1"> <thead> <tr> <th rowspan="2">Door overlay</th> <th colspan="4">Cup distance</th> <th rowspan="2"></th> <th rowspan="2"></th> </tr> <tr> <th>3</th> <th>4</th> <th>5</th> <th>6</th> </tr> </thead> <tbody> <tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td><td></td><td>0</td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td>0</td><td></td><td></td><td></td></tr> <tr><td>9</td><td></td><td>0</td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td>0</td><td></td><td>2</td><td>3</td><td></td><td></td></tr> <tr><td>7</td><td></td><td>2</td><td>3</td><td>4</td><td></td><td></td></tr> <tr><td>6</td><td>2</td><td>3</td><td>4</td><td></td><td></td><td></td></tr> <tr><td>5</td><td>3</td><td>4</td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td>4</td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td colspan="7" style="text-align: right;">Mounting plate height</td> </tr> </tbody> </table>	Door overlay	Cup distance						3	4	5	6	8							11				0			10			0				9		0					8	0		2	3			7		2	3	4			6	2	3	4				5	3	4					4	4						Mounting plate height						
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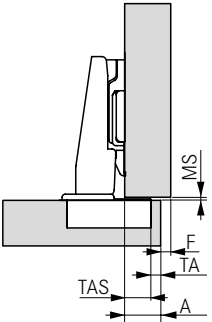
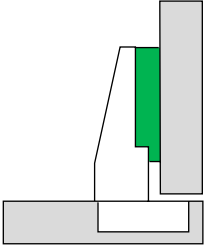
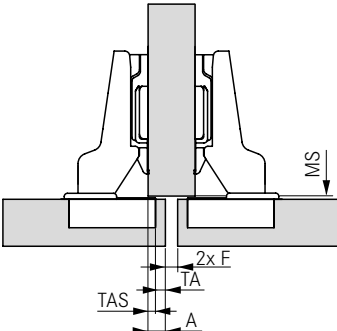
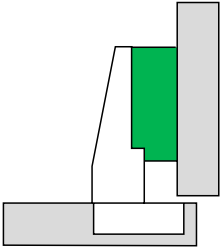
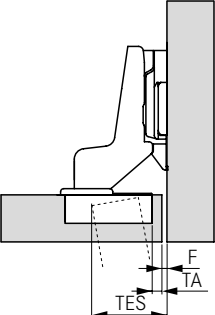
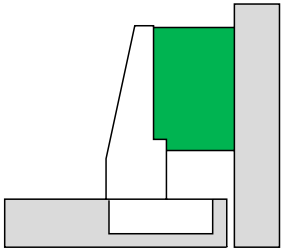
LEGEND

A	Door overlay	TA	Cup distance
F	Reveal	TES	Door protrusion
MS	Minimum gap		
SA	Number of hinges		

NEXIS SLIDE-ON

Technical information

OPTION TO CHANGE THE DOOR OVERLAY

After selecting the cranking	By using a different mounting plate height
<p>Full overlay (cranking 0) The cup overlay (TAS/factory setting) plus cup distance (TA) provides the door overlay (A).</p> <p>The dimensions can be found in the table on the respective catalogue page.</p> 	<p>Full overlay Hinge with cranking 0 and mounting plate height 0</p> 
<p>Half overlay (cranking 8) The cup overlay (TAS/factory setting) plus cup distance (TA) provides the door overlay (A).</p> <p>The dimensions can be found in the table on the respective catalogue page.</p> 	<p>Half overlay Hinge with cranking 0 and mounting plate height 8</p> 
<p>Inset (cranking 15) There is no door overlay.</p> <p>The reveal (F) between the cabinet side and the door depends on the mounting plate height (MH) and the cup distance (TA).</p> <p>The dimensions can be found in the table on the respective catalogue page.</p> 	<p>Inset Hinge with cranking 0 and mounting plate height 18</p> 

PAGE REFERENCES

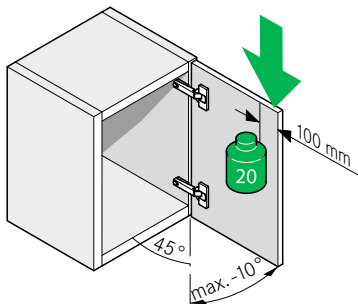
Nexis Slide-on	521	Assembly aids	580		
Nexis Slide-on mounting plates	528				
Assembly technology	575				

TEST CRITERIA FOR HINGES

Functional test

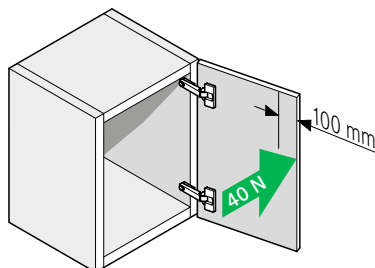
Static load, vertical

Additional load: 20 kg
Opening angle: max. -10°
Number: 10



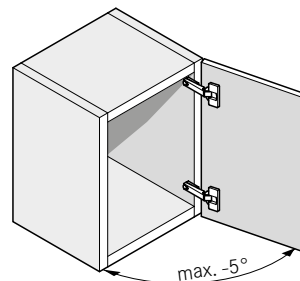
Static load horizontal

Force: 40 N
Number: 10



Endurance test

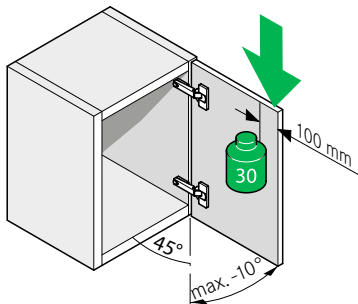
Opening angle: max. -5°
Opening and closing movements: 100,000



Overload test

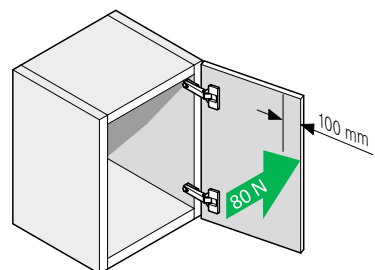
Vertical

Additional load: 30 kg
Opening angle: max. -10°
Number: 10



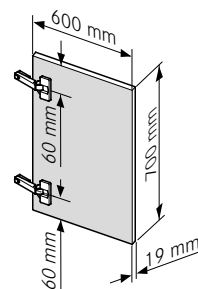
Horizontal

Force: 80 N
Number: 10



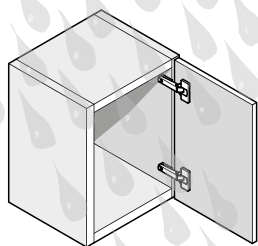
Test door

Weight approx. 5.2 kg



Salt spray and humidity test

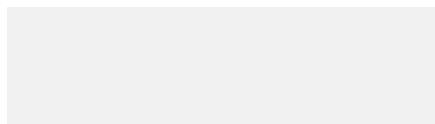
Based on DIN ISO 9227 and DIN 6270-2



LEGEND

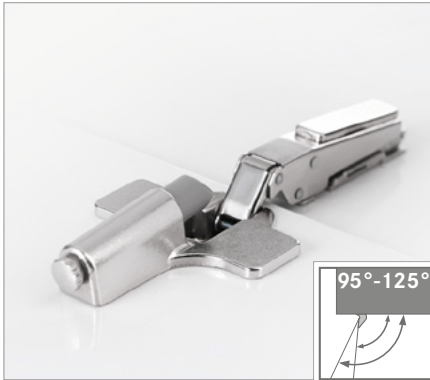
A	Door overlay
F	Reveal
MS	Minimum gap
SA	Number of hinges

TA	Cup distance
TES	Door protrusion



SOFT-CLOSE CLICK-ON

For Nexis Click-on and Slide-on 95°, 100°, 110° and 125° hinges



- Can be installed without tools – can also be retrofitted
- No additional holes on the cabinet or door
- Damping capacity can be adjusted individually
- Use damping system for hinges from the Nexis Click-on and Nexis Slide-on series

NEXIS SOFT-CLOSE ADAPTER

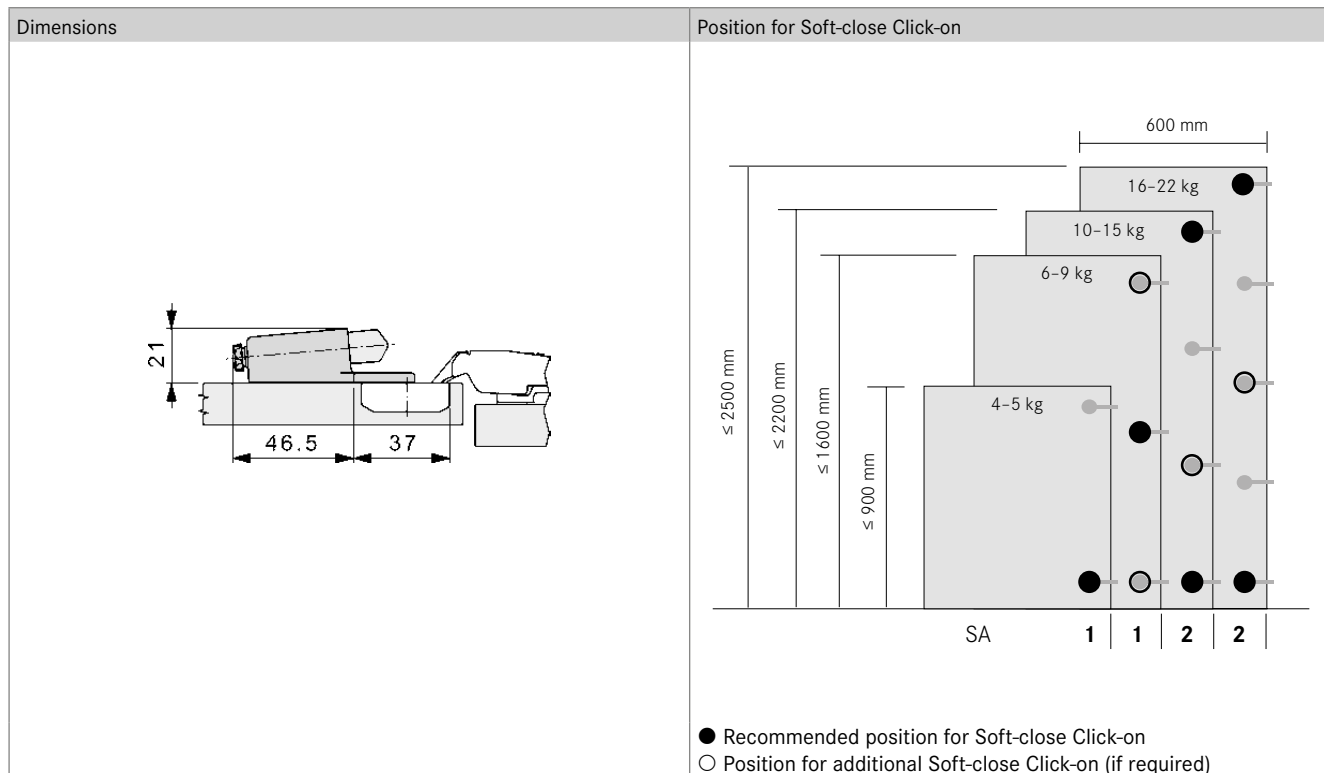
Description				Art. no.
<ul style="list-style-type: none"> • Soft-close adapter incl. pre-assembled Soft-close damper for Nexis Click-on and Nexis Slide-on hinges 				F069073715








PAGE REFERENCES

Nexis Click-on	478	Assembly aids	580		
Nexis Slide-on	521				
Assembly technology	575				

PLANNING INFORMATION

All dimensions in millimetres



Assembly	Soft-close Click-on - quick and easy to use
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <p>1</p>  </div> <div style="width: 33%;"> <p>2</p>  </div> <div style="width: 33%;"> <p>3</p>  </div> <div style="width: 33%;"> <p>4</p>  </div> <div style="width: 33%;"> <p>5</p>  </div> <div style="width: 33%;"> <p>6</p>  </div> <div style="width: 100%; text-align: center;">  </div> </div>	<p>Soft-close Click-on - quick and easy to use</p> <ol style="list-style-type: none"> 1 With hinges of cranking 0, remove hinge arm cover cap (if present). 2 Insert the Soft-close Click-on adapter into the recesses in the hinge housing at a slight angle with the two small hooks on the bottom. 3 Press both sides of the adapter down at the same time until it engages with an audible „click“. 4 If desired, put on the short hinge arm cover cap (supplied in the set). 5 Soft-close Click-on can be finely tuned to different opening angles and crankings as required using the setting screw. 6 The cup cover (supplied in the set) for the hinge without Soft-close Click-on or Slide-on ensures a uniform appearance. <p>Notice</p> <p>When installing the furniture fittings, the specifications of GRASS from the applicable sales literature must be observed precisely, otherwise no liability will be assumed.</p> <p>If you require further information on installation and assembly, please contact one of our factories directly.</p> <p>Thank you for your understanding.</p>

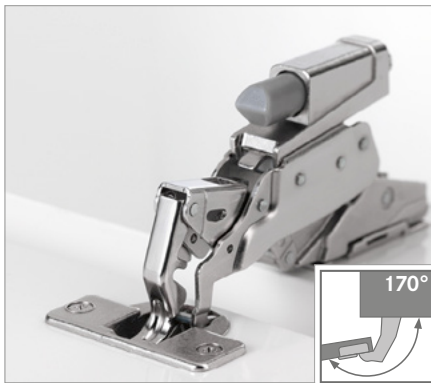
LEGEND

SA	Number of hinges	
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170° SOFT-CLOSE

For Nexis wide-angle hinges 170°



- For Nexis Impresso, Nexis Click-on and Nexis Slide-on 170° wide-angle hinges
- Can be installed without tools – can also be retrofitted
- No additional holes on the cabinet or door
- Damping capacity can be adjusted individually

NEXIS 170° SOFT-CLOSE

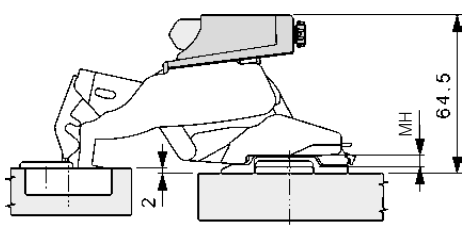
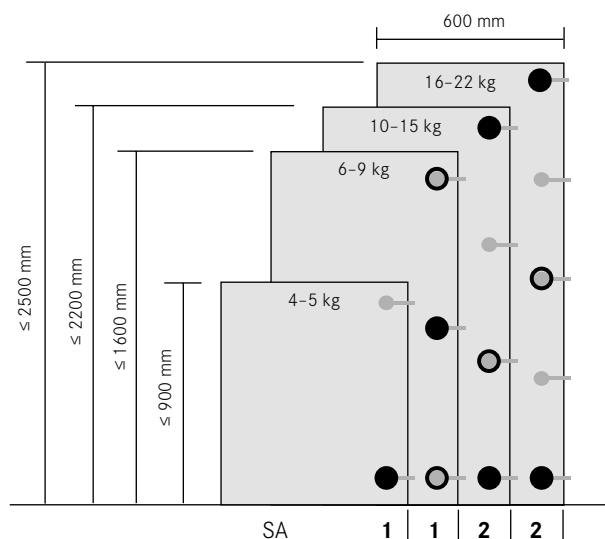
Description				Art. no.
<ul style="list-style-type: none"> • Soft-close adapter for Nexis Impresso, Nexis Click-on and Nexis Slide-on 170° wide-angle hinges with pre-assembled Soft-close damper 				F069073729



PAGE REFERENCES

Nexis Click-on	478	Assembly aids	580		
Nexis Slide-on	521				
Assembly technology	575				

PLANNING INFORMATION

All dimensions in millimetres

Dimensions	Position for 170° Click-on
 <p>Drawing with mounting plate height 2</p>	 <p>● Recommended position for Soft-close 170° ○ Position for additional Soft-close 170° (if required)</p>

Assembly	170° Soft-close - quick and easy to use
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>1</p>  </div> <div style="text-align: center;"> <p>2</p>  </div> </div>	<p>1 Insert the 170° Soft-close adapter into the recesses on the hinge arm at a slight angle with the two small hooks on the bottom. 2 Push down the adapter until it engages with an audible „click“.</p> <p>Notice</p> <p>When installing the furniture fittings, the specifications of GRASS from the applicable sales literature must be observed precisely, otherwise no liability will be assumed.</p> <p>If you require further information on installation and assembly, please contact one of our factories directly.</p> <p>Thank you for your understanding.</p>

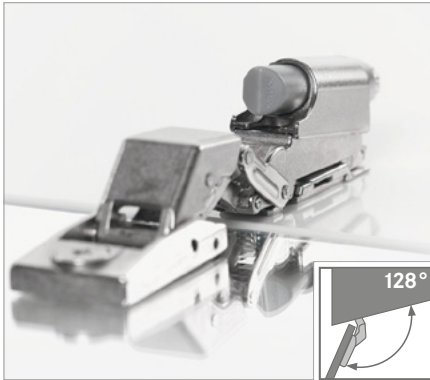
LEGEND

MH	Mounting plate height
SA	Number of hinges



SOFT-CLOSE MIRRO

For Nexis Click-on Mirro hinges



- For Nexis Click-on Mirro and Mirro -15° hinges
- Can be installed without tools – can also be retrofitted
- No additional holes on the cabinet
- Damping capacity can be adjusted individually

NEXIS SOFT-CLOSE MIRRO

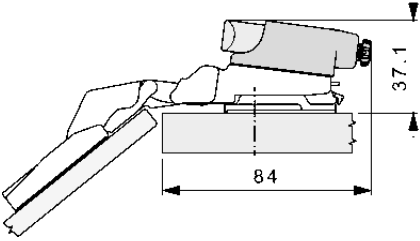
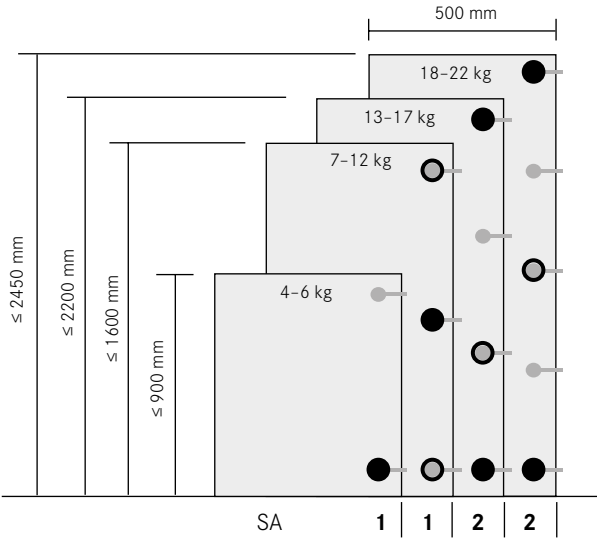
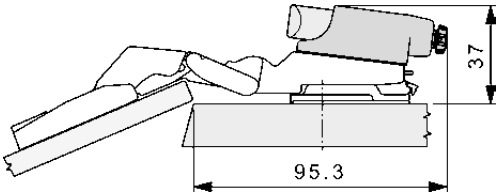
Description			Art. no.
<ul style="list-style-type: none"> • Soft-close adapter with pre-assembled Soft-close damper for Nexis Click-on Mirro and Mirro -15° hinges 			F069073711

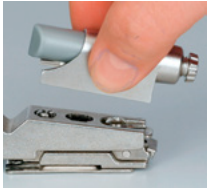

PAGE REFERENCES

Nexis Click-on	478				
Assembly technology	575				
Assembly aids	580				

PLANNING INFORMATION

All dimensions in millimetres

<p>Mirro dimensions</p>  <p>Drawing with mounting plate height 2</p>	<p>Position for Soft-close Mirro</p>  <p>● Recommended position for Soft-close Mirro ○ Position for additional Soft-close Mirro (if required)</p>
<p>Mirro -15° dimensions</p>  <p>Drawing with mounting plate height 2</p>	

<p>Assembly</p> <p>1 </p> <p>2 </p>	<p>Soft-close Mirro - quick and easy to use</p> <ol style="list-style-type: none"> 1 Insert the Soft-close Mirro adapter into the recess in the hinge arm with the hook on the bottom. 2 Slide the adapter back until it engages with an audible „click“. <p>Notice</p> <p>When installing the furniture fittings, the specifications of GRASS from the applicable sales literature must be observed precisely, otherwise no liability will be assumed.</p> <p>If you require further information on installation and assembly, please contact one of our factories directly.</p> <p>Thank you for your understanding.</p>
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LEGEND

<p>SA Number of hinges</p>		
---------------------------------	--	--



SOFT-CLOSE PIN

Pneumatic damper for doors



- Suitable for all door sizes, door shapes and materials
- Can also be retrofitted
- For drilling or for installation with adapter plate

SOFT-CLOSE PIN

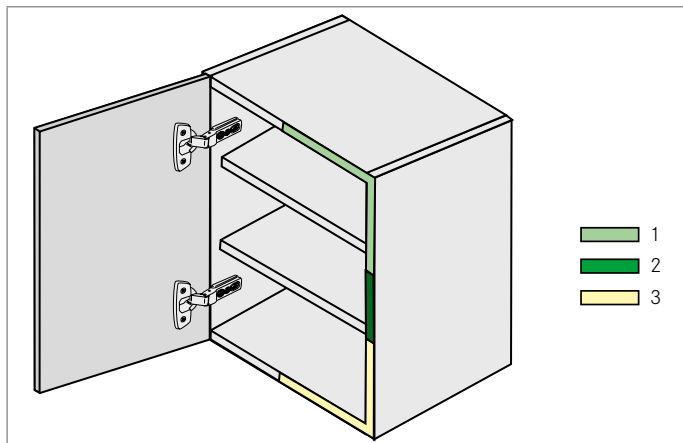
Description			Colour	Art. no.
<ul style="list-style-type: none"> • Drill hole on front edge • For perfect appearance • Housing: Plastic 			Light grey	F069066528

PAGE REFERENCES

Nexis Click-on	478	Single-joint hinges	559		
Nexis Slide-on	521	Assembly technology	575		
Special hinges	547	Assembly aids	580		

PLANNING INFORMATION

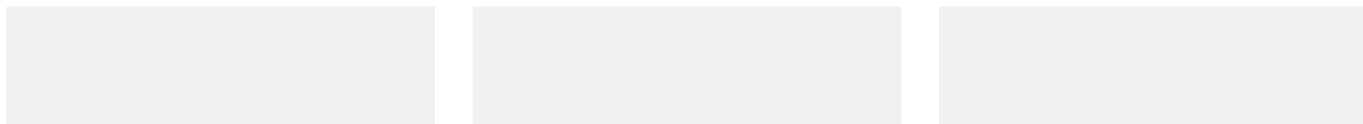
All dimensions in millimetres



- Possible damper position for a standard door:
 - 1 Good position
 - 2 Optimal position
 - 3 Possible position
- For larger doors, we recommend using an additional damper.



LEGEND



TIPMATIC

For handle-free wooden/aluminium frame doors and glass/mirror doors



- The doors open with a comfortable opening angle by lightly tapping the front
- All hinges without self-closing mechanism can be used
- Large magnet catch area – reliable door closing
- Front gap compensation from 2.5 to 5.5 mm through integrated, self-locking and tool-free depth adjustment.
- Installation in the cabinet front edge or with adapter plate

TIPMATIC PIN, SHORT

Description			Colour	Art. no.
<ul style="list-style-type: none"> • Drill edge cover 1 mm • Drill hole on front edge • Includes adhesive plate, screw-on plate and screw 			Black	F069 149391
			Light grey	F069 149392
			White	F069 149390

LINEAR ADAPTER PLATE, SHORT

Description			Colour	Art. no.
<ul style="list-style-type: none"> • Design solution - also in conjunction with inset doors • Fixing with chipboard screws (dia. 3.5 x 13 mm) 			Black	F069 149397
			Light grey	F069 149398
			White	F069 149396

TIPMATIC PIN, LONG

Description			Colour	Art. no.
<ul style="list-style-type: none"> • For heavy and wide doors • Drill edge cover 1 mm • Drill hole on front edge • Includes adhesive plate, screw-on plate and screw 			Black	F069 149388
			Light grey	F069 149389
			White	F069 149387

LINEAR ADAPTER PLATE, LONG

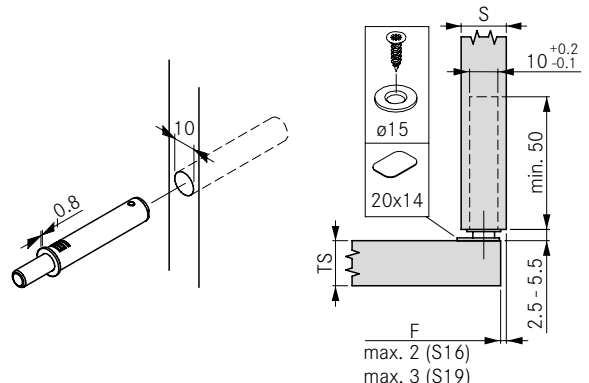
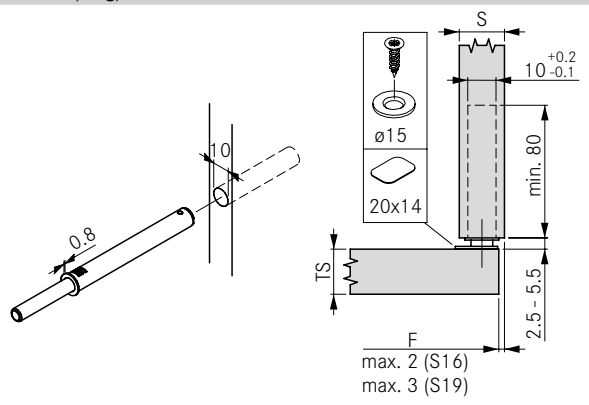
Description			Colour	Art. no.
<ul style="list-style-type: none"> • Design solution - also in conjunction with inset doors • Fixing with chipboard screws (dia. 3.5 x 13 mm) 			Black	F069 149394
			Light grey	F069 149395
			White	F069 149393

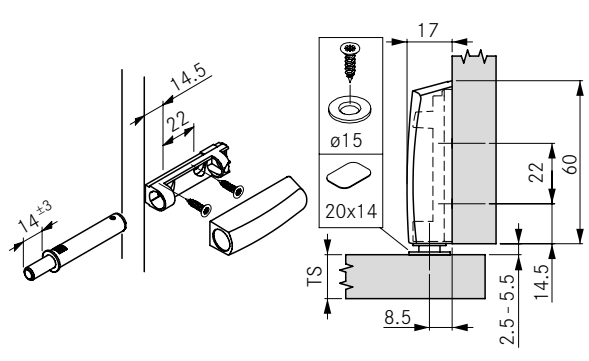
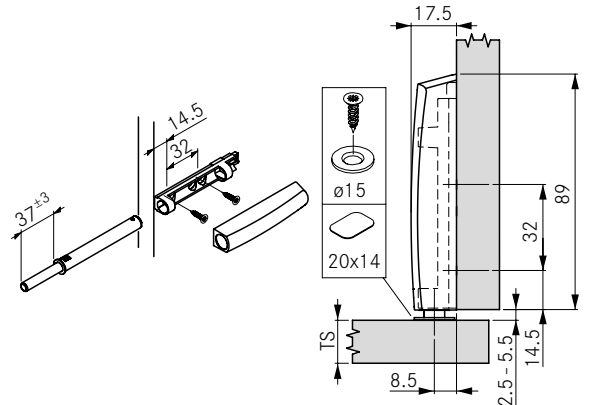
PAGE REFERENCES

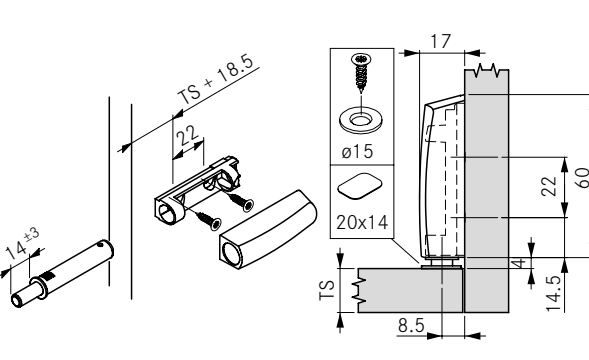
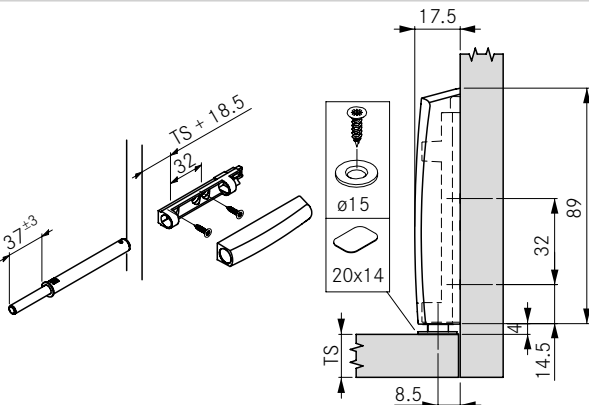
Tiomos	387	Installation instructions	544		
Nexis Click-on	478	Assembly technology	575		
Nexis Slide-on	521	Assembly aids	580		

PLANNING INFORMATION

All dimensions in millimetres

<p>Tipmatic Pin (short)</p>  <p>Do not use a door buffer. Self-adhesive or screw-mounted counter plate.</p>	<p>Tipmatic Pin (long)</p>  <p>Do not use a door buffer. Self-adhesive or screw-mounted counter plate.</p>
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<p>Linear adapter plate (short) overlay</p>  <p>Do not use a door buffer. Self-adhesive or screw-mounted counter plate.</p>	<p>Linear adapter plate (long) overlay</p>  <p>Do not use a door buffer. Self-adhesive or screw-mounted counter plate.</p>
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<p>Linear adapter plate (short) inset</p>  <p>Do not use a door buffer. Self-adhesive or screw-mounted counter plate.</p>	<p>Linear adapter plate (long) inset</p>  <p>Do not use a door buffer. Self-adhesive or screw-mounted counter plate.</p>
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LEGEND

F	Reveal
S	Side wall thickness
TS	Door thickness

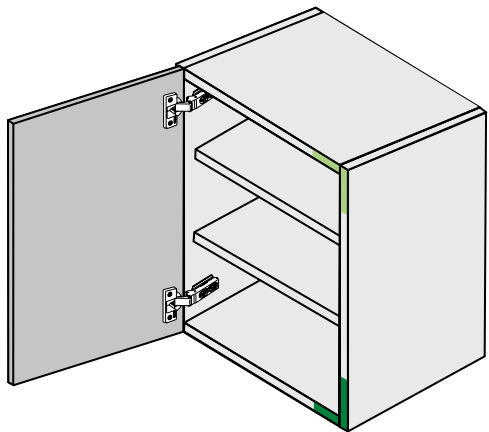


TIPMATIC

Installation instructions

INSTALLATION INSTRUCTIONS

Recommended positions

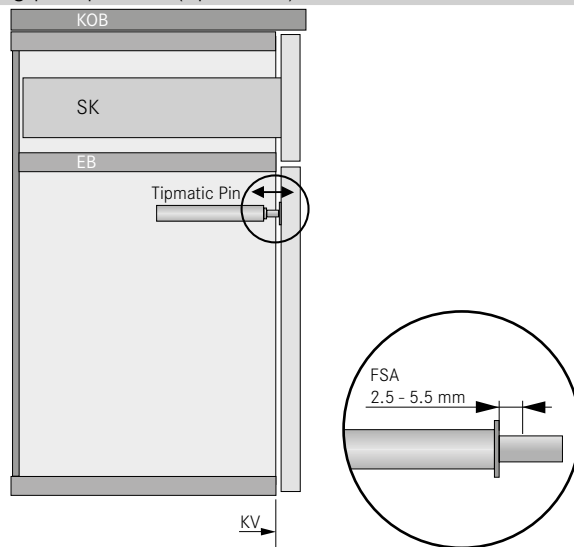


- Position in the upper corner opposite the hinge in the base cabinet
- Position in the lower corner opposite the hinge in the wall cabinet

General note on installation position:

The Tipmatic element is mounted opposite the hinge, either via a front-edge hole in the furniture cabinet or using our adapter plates, which are available in different versions.

Front gap compensation (Tipmatic Pin)



Front gap compensation with integrated, tool-free depth adjustment:
The front gap can be adjusted with the Tipmatic drawer.

PAGE REFERENCES

Tipmatic	542			
Assembly technology	575			
Assembly aids	580			

1

2

3

4

LEGEND

EB	Shelf
FSA	Front gap compensation
KOB	Cabinet top panel
KV	Front edge of cabinet

SK	Drawer
----	--------

When individual special solutions are required.

Special Hinges.

grass.eu



FOLLOW US



The functional flap hinge integrates beautifully into elegant furniture with drinks compartment flaps. The extremely flat flap hinge discreetly connects the bottom panel and flap and enables creates an almost flush opening of the drinks compartment flap.


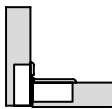

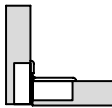

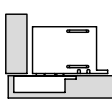

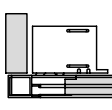

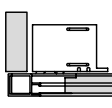
The recessed Tiomos Hidden hinge removes itself from the spotlight and emphasises the design of the furniture piece. The range of design options is expanded by the Nickel and Night surfaces.



**Almost invisible.
Tiomos Hidden.**

Special Hinges for Special Applications

The sleek appearance of the Tiomos Hidden special hinge and flap hinge is a striking feature. They integrate elegantly into the cabinet and emphasise the design of the furniture piece.

Opening angle		Description	Overlay	Page
90°		Tiomos flap hinge <ul style="list-style-type: none"> • Flap thickness from 14 to 21 mm • Cup hole 35 mm • 3-dimensional adjustment 		548
90°		Tiomos flap hinge <ul style="list-style-type: none"> • Flap thickness from 22 to 30 mm • Cup hole 35 mm • 3-dimensional adjustment 		550
105°		Tiomos H <ul style="list-style-type: none"> • Concealed hinge system for wooden doors • With integrated damper • 3-dimensional adjustment 		552
105°		Tiomos H AL <ul style="list-style-type: none"> • Concealed hinge system for aluminium frame doors • With integrated damper • 3-dimensional adjustment 		554
105°		Tiomos H AL <ul style="list-style-type: none"> • Concealed hinge system for Schüco aluminium frame • With integrated damper • 3-dimensional adjustment 		556

1

2

3

4


TIOMOS FLAP HINGE

90° hinge (flap thickness from 14 to 21 mm)





- Modern design
- 90° opening angle
- For flap thicknesses up to 21 mm
- Narrow reveals
- High overlay up to 19 mm
- Cup depth 12 mm
- 3-dimensional adjustment
- Very suitable for combination with the Kinvaro D flap stays

ORDER INFORMATION

Door position		Colour	Included in delivery	Material	Screw-on		
Overlay		Nickel	Hinge arm (1x), hinge cup (1x), cover cap (1x)	Zamak	F053 139690		
		Night	Hinge arm (1x), hinge cup (1x), cover cap (1x)	Zamak	F053 139692		

ADAPTER PLATES

	Designation	Colour	Art. no.
	adapter plate; 1.5 mm	Nickel	F053 139676
	adapter plate; 1.5 mm	Night	F053 139684
	adapter plate; 7 mm	Nickel	F053 139688

PAGE REFERENCES

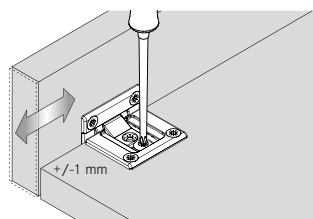
Assembly technology	575				
Assembly aids	580				

PLANNING INFORMATION

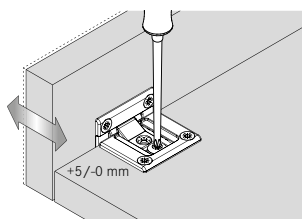
All dimensions in millimetres

Overlay, without adapter plate	Overlay, with adapter plate (1.5 mm, 1x)	Overlay, with adapter plate (1.5 mm, 2x)	Half overlay, with adapter plate (7 mm)																																																																								
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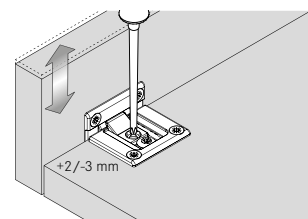
SIDE ADJUSTMENT



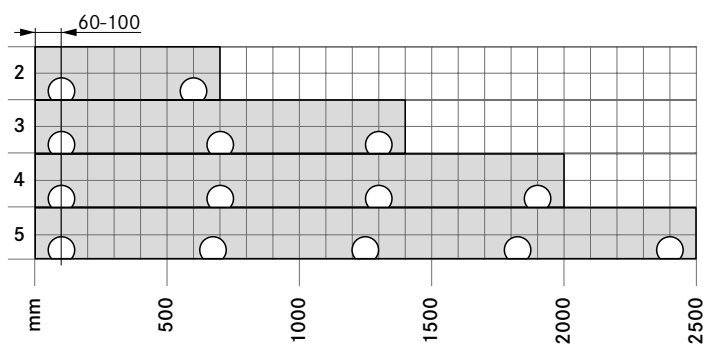
DEPTH ADJUSTMENT



HEIGHT ADJUSTMENT



NUMBER OF HINGES

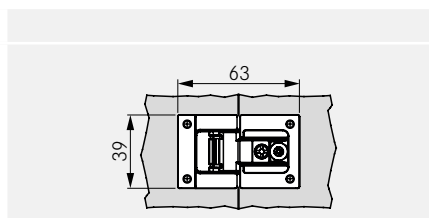
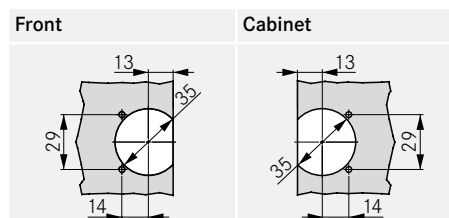


NOTICE

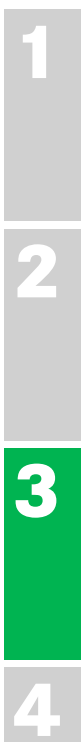
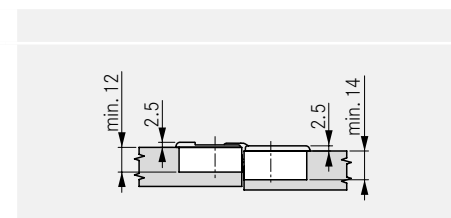
Fixing of flap and base parts with chipboard screws dia. 3.5 x 15 mm (screws are not supplied).

Hinge dimensions and reveal calculation with factory setting.

DRILLING PATTERNS



CUP DIMENSIONS




TIOMOS FLAP HINGE

90° hinge (flap thickness from 22 to 30 mm)





- Modern design
- 90° opening angle
- For flap thicknesses up to 30 mm
- Narrow reveals
- High overlay up to 19 mm
- Cup depth 17 mm
- 3-dimensional adjustment
- Very suitable for combination with the Kinvaro D flap stays

ORDER INFORMATION

Door position		Colour	Included in delivery	Material	Screw-on		
Overlay		Nickel	Hinge arm (1x), hinge cup (1x), cover cap (1x)	Zamak	F053 139691		

ADAPTER PLATES

	Designation	Colour	Art. no.
	adapter plate; 1.5 mm	Nickel	F053 139676
	adapter plate; 7 mm	Nickel	F053 139688

PAGE REFERENCES

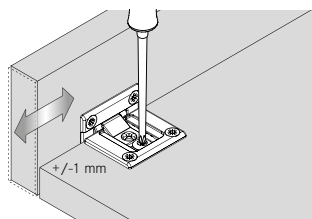
Assembly technology	575				
Assembly aids	580				

PLANNING INFORMATION

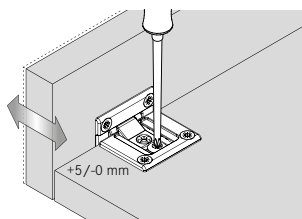
All dimensions in millimetres

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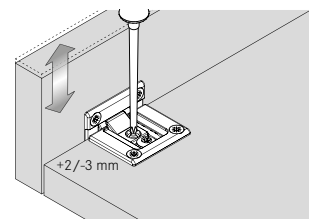
SIDE ADJUSTMENT



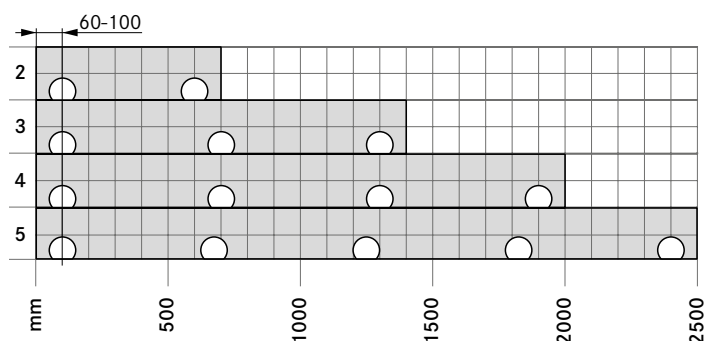
DEPTH ADJUSTMENT



HEIGHT ADJUSTMENT



NUMBER OF HINGES

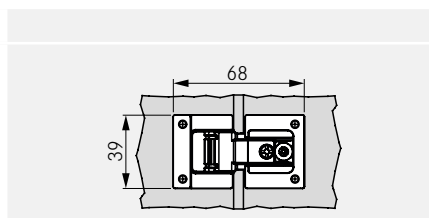
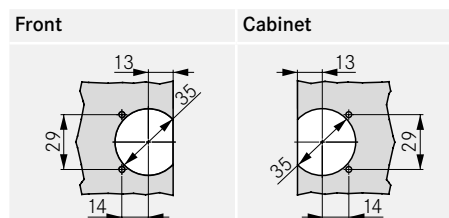


NOTICE

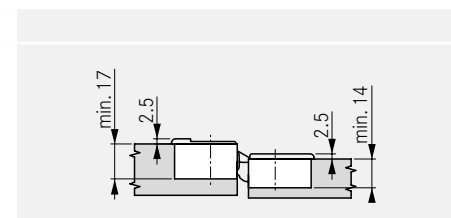
Fixing of flap and base parts with chipboard screws fixing dia. 3.5 x 15 mm (screws are not supplied).

Hinge dimensions and reveal calculation with factory setting.

DRILLING PATTERNS



CUP DIMENSIONS



TIOMOS H

105° hinge - set



- Inset hinge system concealed in the top and bottom cabinet panels
- No need to machine the cabinet sides
- No space lost in the cabinet due to lateral hinge connections
- Enables modern, open furniture designs, e.g. with intermediate glass walls
- 105° opening angle
- 3-dimensional adjustment
- For door thicknesses from 18 mm
- Surfaces: nickel-plated or Night
- Load capacity up to 17 kg

ORDER INFORMATION

Door position		Colour	Included in delivery	Opening spring	Material	Soft-close	Tipmatic Plus	
Overlay		Nickel	Hinge (2x), cover cap (2x), screw set (1x)	-	Zamak	F05 1139126		
		Night	Hinge (2x), cover cap (2x), screw set (1x)	-	Zamak	F05 1139125		
		Night	Hinge (2x), cover cap (2x), screw set (1x)	■	Zamak		F05 140927¹	

¹Additionally Tipmatic Pin required

ACCESSORIES

	Designation	Art. no.
	Tipmatic pin, short, Black	F069 149391

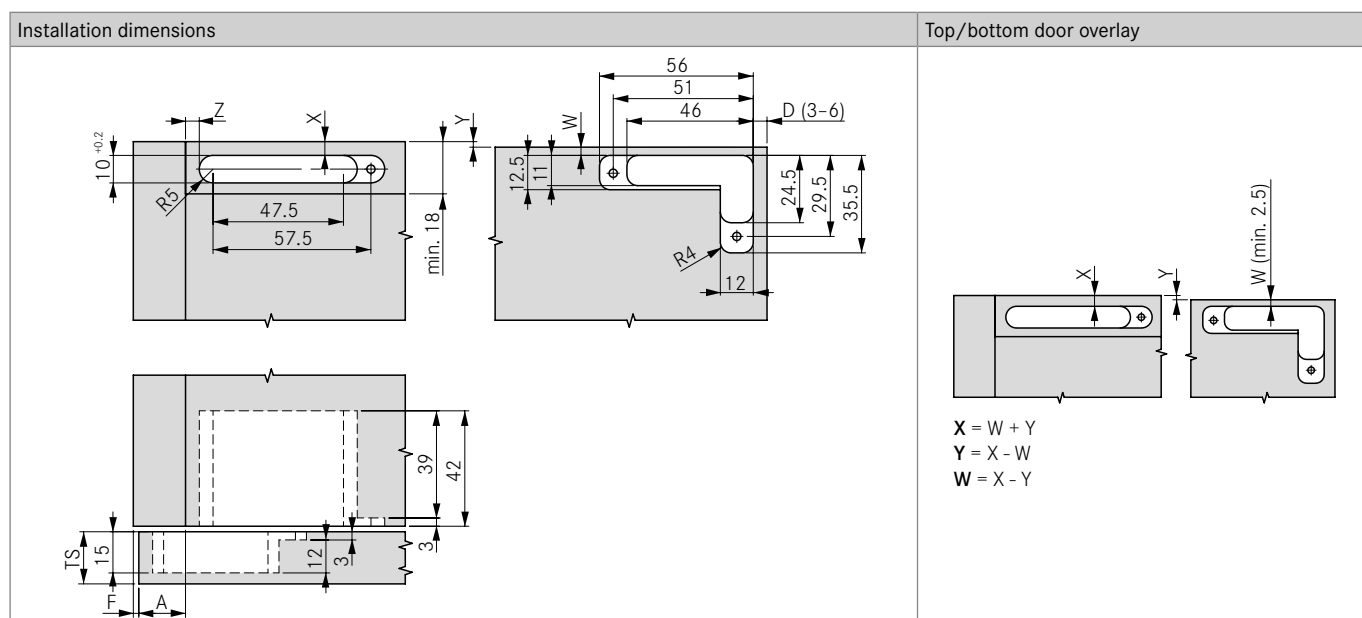
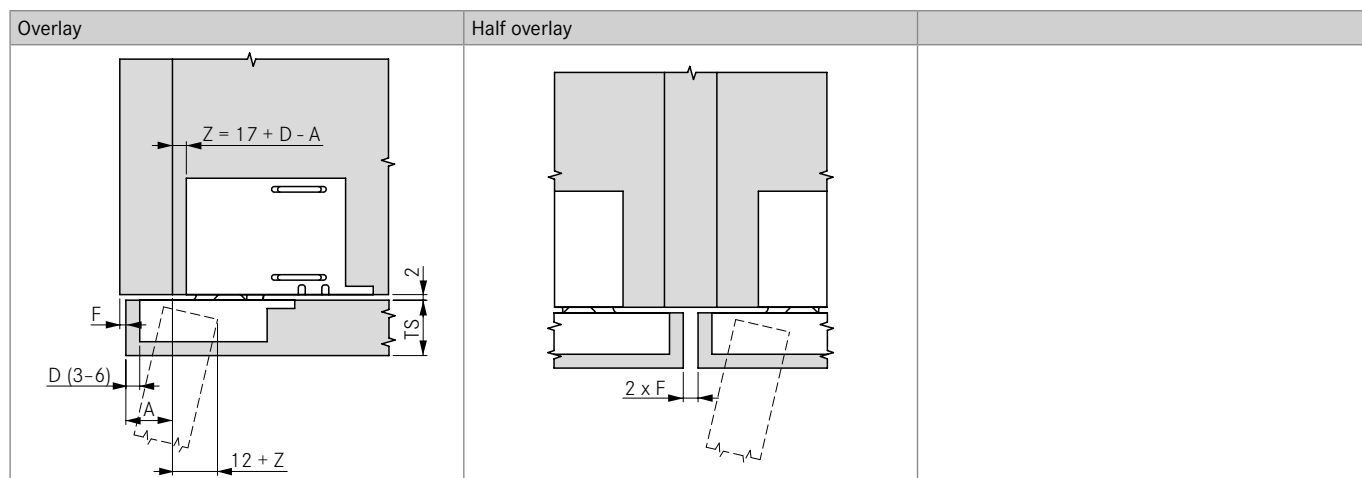
	Designation	Art. no.
	Tipmatic pin, long, Black	F069 149388

PAGE REFERENCES

Tipmatic	542				
Assembly technology	575				
Assembly aids	580				

PLANNING INFORMATION

All dimensions in millimetres



$X = W + Y$
 $Y = X - W$
 $W = X - Y$

MINIMUM JOINT (F)

Door thickness (TS)	D			
	3	4	5	6
32.0	4.7	4.2	3.9	3.7
30.0	3.1	2.9	2.8	2.7
28.0	2.1	2.0	2.0	1.9
26.0	1.4	1.4	1.3	1.3
24.0	0.9	0.9	0.8	0.8
22.0	0.5	0.5	0.5	0.5
20.0	0.2	0.2	0.2	0.2
18.0	0.0	0.0	0.0	0.0

Minimum joint (F)

DOOR OVERLAY SIDE

Door overlay (A)	D			
	3	4	5	6
23.0				0
22.0			0	1
21.0		0	1	2
20.0	0	1	2	3
19.0	1	2	3	4
18.0	2	3	4	5
17.0	3	4	5	6
16.0	4	5	6	
15.0	5	6		
14.0	6			

Z (Z = 17 + D - A)

NOTICE

For heavy doors up to 17 kg, we recommend a cabinet thickness of at least 22 mm.



TIOMOS H AL

105° hinge - set



- Inset hinge system concealed in the top and bottom cabinet panels
- No need to machine the cabinet sides
- No space lost in the cabinet due to lateral hinge connections
- Enables modern, open furniture designs, e.g. with intermediate glass walls
- 105° opening angle
- 3-dimensional adjustment
- Surfaces: nickel-plated or Night
- Load capacity up to 17 kg

ORDER INFORMATION

Door position		Colour	Included in delivery	Opening spring	Material	Soft-close	Tipmatic Plus	
Overlay		Nickel	Hinge (2x), corner connector (4x), cover cap (2x), screw set (1x)	-	Zamak	F05 1139128		
		Night	Hinge (2x), corner connector (4x), cover cap (2x), screw set (1x)	-	Zamak	F05 1139148		
		Night	Hinge (2x), corner connector (4x), cover cap (2x), screw set (1x)	■	Zamak		F05 1140925¹	

¹Additionally Tipmatic Pin required

ALUMINIUM FRAMES

	Designation	Colour	Art. no.
	Tiomos H AL; Aluminium profile; 3000 mm; Aluminium; Tin coloured anodised; Incl. seal	Peltro	F05 1139127
	Tiomos H AL; Aluminium profile; 3000 mm; Aluminium; Untreated; Incl. seal	Aluminium metallic	F05 1140922

ACCESSORIES

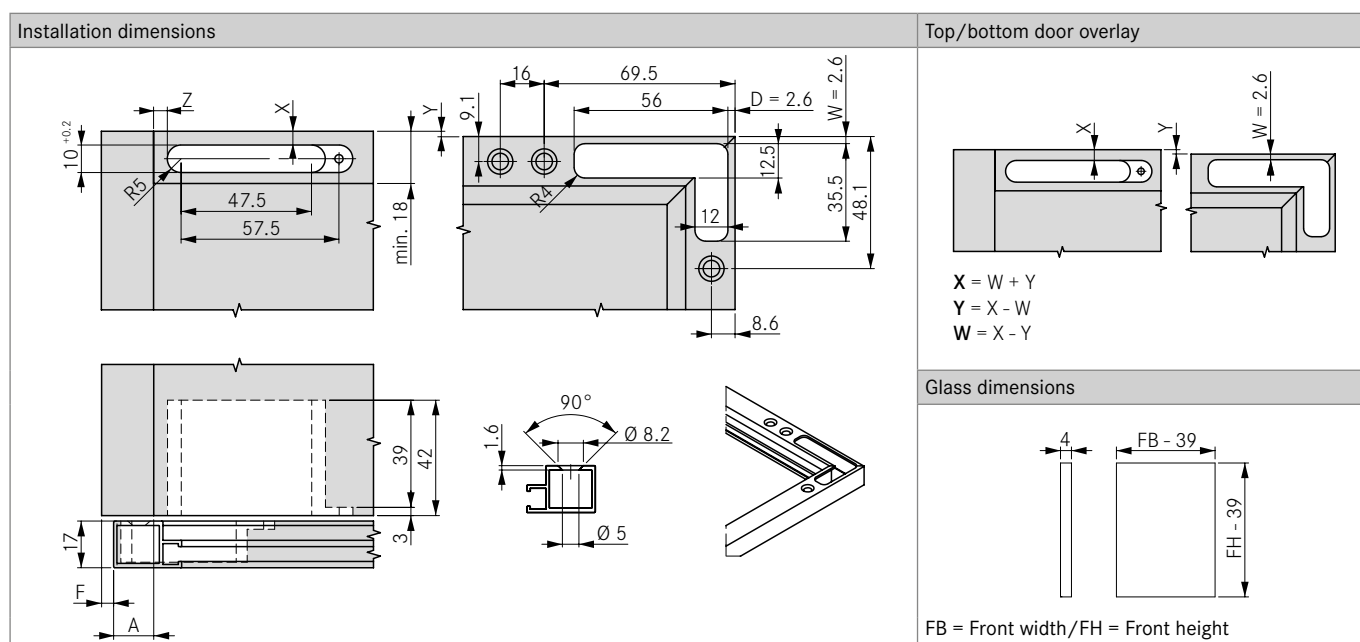
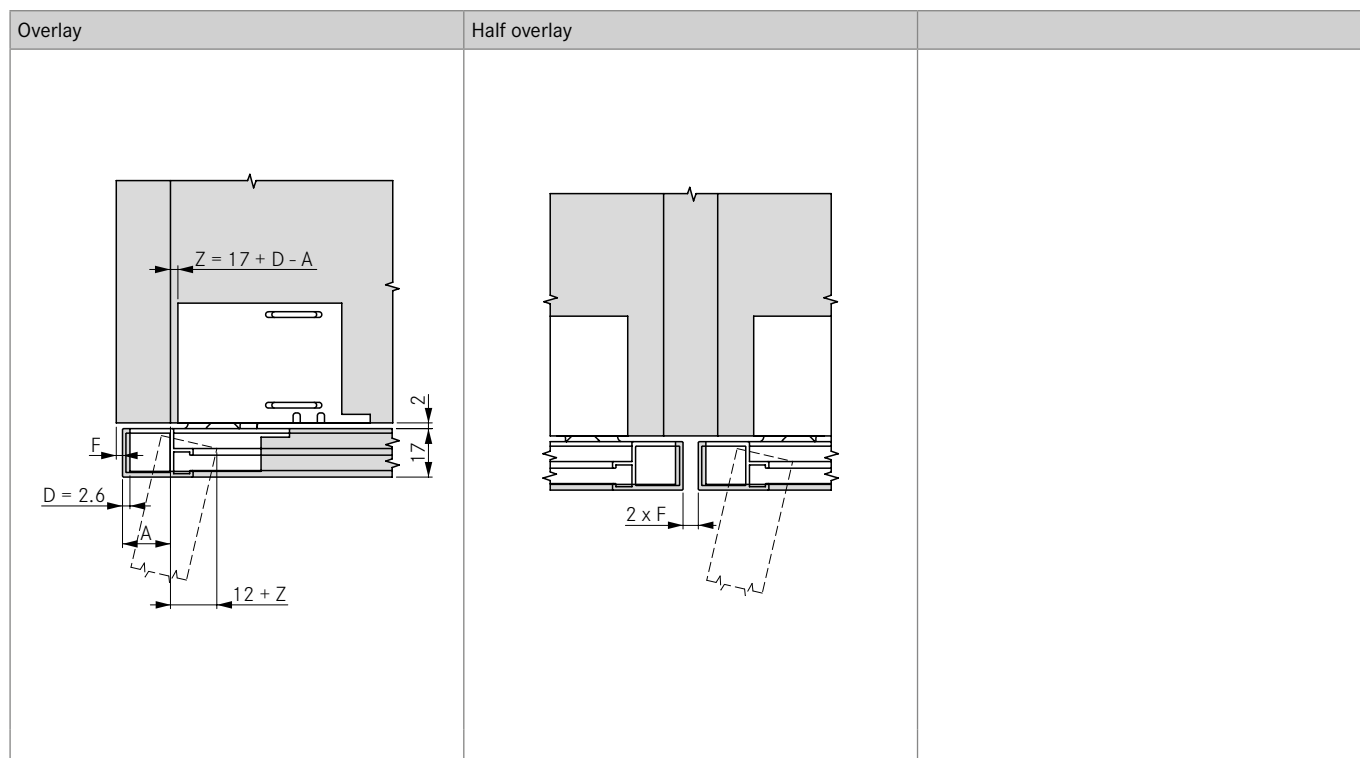
	Designation	Art. no.		Designation	Art. no.
	Tipmatic pin, short, Black	F069149391		Tipmatic pin, long, Black	F069149388

PAGE REFERENCES

Tipmatic	542				
Assembly technology	575				
Assembly aids	580				

PLANNING INFORMATION

All dimensions in millimetres



MINIMUM JOINT (F)

Door thickness (TS)	D			
	2.6			
	32.0	4.7		
	30.0	3.1		
	28.0	2.1		
	26.0	1.4		
	24.0	0.9		
	22.0	0.5		
	20.0	0.2		
	18.0	0.0		
Minimum joint (F)				

DOOR OVERLAY SIDE

Door overlay (A)	D			
	2.6			
	17.0	2.6		
	16.0	3.6		
	15.0	4.6		
	14.0	5.6		
	13.0	6.6		
	12.0	7.6		
	11.0	8.6		
$Z (Z = 17 + D - A)$				

NOTICE

For heavy doors up to 17 kg, we recommend a cabinet thickness of at least 22 mm.

TIOMOS H AL

105° hinge - set for Schüco aluminium frame



- Inset hinge system concealed in the top and bottom cabinet panels
- No need to machine the cabinet sides
- No space lost in the cabinet due to lateral hinge connections
- Enables modern, open furniture designs, e.g. with intermediate glass walls
- For cabinet panel thicknesses from 18 mm
- 105° opening angle
- 3-dimensional adjustment
- Surfaces: nickel-plated or Night
- Load capacity up to 17 kg
- In combination with Schüco aluminium profile (see below)

ORDER INFORMATION

Door position		Colour	Included in delivery	Opening spring	Material	Soft-close	Tipmatic Plus	
Overlay		Night	Hinge (2x), corner connector (4x), cover cap (2x), screw set (1x)	-	Zamak	F051140897		
		Night	Hinge (2x), corner connector (4x), cover cap (2x), screw set (1x)	■	Zamak		F051140895¹	

¹Additionally Tipmatic Pin required

ALUMINIUM FRAMES

	Designation	Colour	Art. no.
	Tiomos H AL; Aluminium profile; 5000 mm; Aluminium	Stainless steel	980037.64.00
	Tiomos H AL; Aluminium profile; 5000 mm; Aluminium	Black	980037.65.00
	Tiomos H AL; Aluminium profile; 5000 mm; Aluminium	Inox	980037.67.00

ACCESSORIES

	Designation	Art. no.
	Rattle protection for Schüco aluminium profile	532917.00.00
	Tipmatic pin, short, Black	F069149391

	Designation	Art. no.
	Tipmatic pin, long, Black	F069149388

NOTICE

Aluminium frames and accessories can be ordered from the distributor, quoting the respective Schüco article number. The distributor also supplies precisely dimensioned prefabricated glass aluminium frames.

PAGE REFERENCES

Tipmatic	542				
Assembly technology	575				
Assembly aids	580				

PLANNING INFORMATION

All dimensions in millimetres

Overlay	Half overlay	Drilling position for aluminium frame corner connector
<p>Minimum reveal (F) = 0.2</p>		<p>Countersunk screw M5 x 8 mm</p>

Installation dimensions	Top/bottom door overlay
<p>Countersunk screw M4 x 10 mm</p>	<p> $X = W + Y + 1.4$ $Y = X - W - 1.4$ $W = X - Y - 1.4$ </p>
<p>FB = Front width / FH = Front height</p>	<p>Glass dimensions</p>

DOOR OVERLAY SIDE

Door overlay (A)	D			
	1.2			
17.0	2.6			
16.0	3.6			
15.0	4.6			
14.0	5.6			
13.0	6.6			
12.0	7.6			
11.0	8.6			
Z (Z = 18.4 + D - A)				

NOTICE

For heavy doors up to 17 kg, we recommend a cabinet thickness of at least 22 mm.

**Space-saving. Flexible.
Functional.**

Single-Joint Hinges.

Whether for extremely narrow front panel alignments, heavy doors, rebated doors or with direct height adjustment, the single-joint hinges from the MB series with tool-free door clip fitting are always the ideal solution.

FOR US, REDUCING TO THE ESSENTIALS MEANS CONCENTRATING ON QUALITY AND FUNCTION. OUR RANGE OF HINGES FOR FURNITURE IN OFFICES AND PUBLIC BUILDINGS IS THE BEST EXAMPLE OF THAT. WE OFFER THE PERFECT SINGLE-JOINT HINGE FOR ANY APPLICATION. QUALITY MATERIALS, EXCELLENT WORKMANSHIP AND HIGH QUALITY ARE JUST AS IMPORTANT TO US AS RELIABLE OPERATING COMFORT.



FOLLOW US




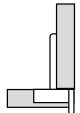



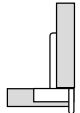

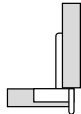
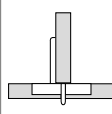

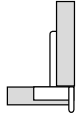

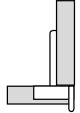
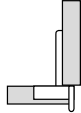
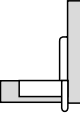
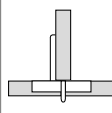
**Functional
single-joint hinges.**
Reduced to the
essentials.



Single-Joint Hinges

for Furniture for Offices and Public Buildings

Wide-opening solid metal hinges for individual or continuous cabinet construction.

Opening angle		Description	Full overlay	Half overlay	Inset	Twin fitting	Page
270°		Single-joint hinge MB-6010 <ul style="list-style-type: none"> • Very narrow reveals (3 mm) • Tool-free door clip fitting • Direct reveal and height adjustment 				-	560
270°		Single-joint hinge MB-8010 <ul style="list-style-type: none"> • Narrow reveals (4 mm) • Tool-free door clip fitting • Direct reveal and height adjustment 		-	-	-	562
230°		Single-joint hinge MB-8010 <ul style="list-style-type: none"> • Reveals (8/13.5 mm) • Tool-free door clip fitting • Direct reveal and height adjustment 	-		-		564
270°		Single-joint hinge MB-8320 <ul style="list-style-type: none"> • Reveals (4 mm) • Tool-free door clip fitting • Height adjustment via cam 		-	-	-	566
230°		Single-joint hinge MB-20 <ul style="list-style-type: none"> • Reveals (7.5/8/13.5 mm) • Height adjustment 					568
Technical information							572

1

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SINGLE-JOINT HINGE MB-60 10



With narrow front panel alignment



- 270° or 180° opening angle
- Reveal 3 mm
- Tool-free door clip fitting
- Cup edge cover
- Side adjustment -2 mm
- Height adjustment by means of slots ± 2 mm
- Visible joint
- Supplied with black cover caps, neutral
- Hinge arms and cups must be ordered separately

ORDER INFORMATION





HINGE ARM

Door position		Opening angle	Side wall thickness	Joint width	Colour	Material	To clip on		
Inset		180	-	3	Nickel	Zamak	F150000007		
Full overlay		270	16	3	Nickel	Zamak	F150000008		
		270	19	3	Nickel	Zamak	F150000009		

HINGE POT

	Suitable for hinge	Screw-on	Press-fit
Hinge cup, 45/9.5 mm, Nickel	MB-6000 MB-8000	F150000006	F150000021

ACCESSORIES

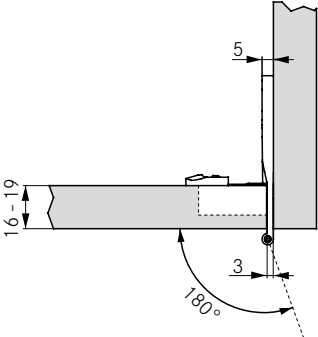
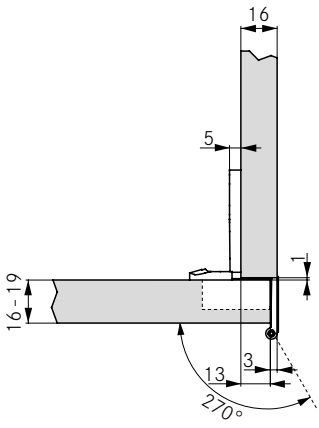
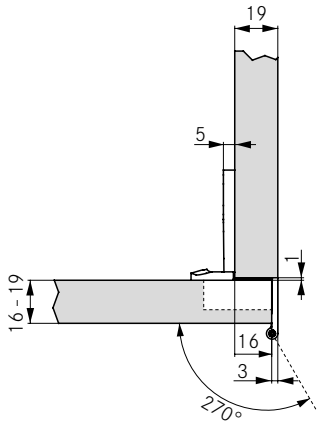
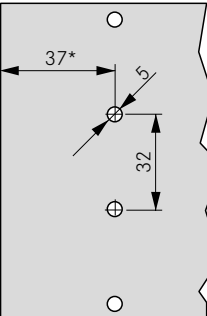
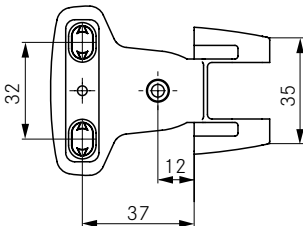
	Designation	Art. no.		Designation	Art. no.
	MB Decorative panels, For use as a glass door hinge. For glass thicknesses of 5 to 6 mm. Set complete with plastic spacers and connecting screws.	F150000018		MB Opening angle reduction clip 110°/120°, For all single-joint hinges, except inset applications	F150000020
	Clothes protector, Prevents damage and soiling through trapping, to be used with all single-joint hinges	F150000017		Euro collar screw, Nickel, 6.3 x 13.5 mm	F150145234

PAGE REFERENCES

Soft-close Pin	540	Assembly aids	580		
Technical information	572				
Assembly technology	575				

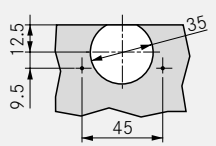
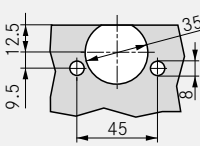
PLANNING INFORMATION

All dimensions in millimetres

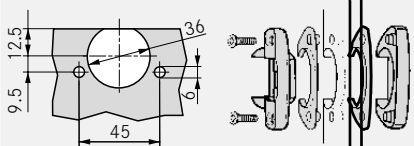
Inset	Full overlay (16 mm cabinet side)	Full overlay (19 mm cabinet side)
 <p>Door protrusion 3 mm with 180° opening angle</p>	 <p>Door overlay 13</p> <p>Door protrusion 0 mm with 180° opening angle</p>	 <p>Door overlay 16</p> <p>Door protrusion 0 mm with 180° opening angle</p>
Cabinet holes for hinge mounting	Hinge arm dimensions	
 <p>* = 39 mm + door thickness with inset fitting</p>		



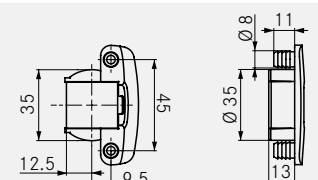
DRILLING PATTERNS

For screw fitting	For press fitting
	

Glass hole for decorative cover cap installation set



CUP DIMENSIONS



SINGLE-JOINT HINGE MB-80 10


With narrow front panel alignment



- 270° opening angle
- Reveal 4 mm
- Tool-free door clip fitting
- Cup edge cover
- Side adjustment -2 mm
- Height adjustment by means of slots ± 2 mm
- Visible joint
- Supplied with black cover caps, neutral
- Hinge arms and cups must be ordered separately

ORDER INFORMATION





HINGE ARM

Door position		Opening angle	Side wall thickness	Joint width	Colour	Material	To clip on		
Full overlay		270	19	4	Nickel	Zamak	F150000014		

HINGE POT

	Suitable for hinge	Screw-on	Press-fit
Hinge cup, 45/9.5 mm, Nickel	MB-6000 MB-8000	F150000006	F150000021

ACCESSORIES

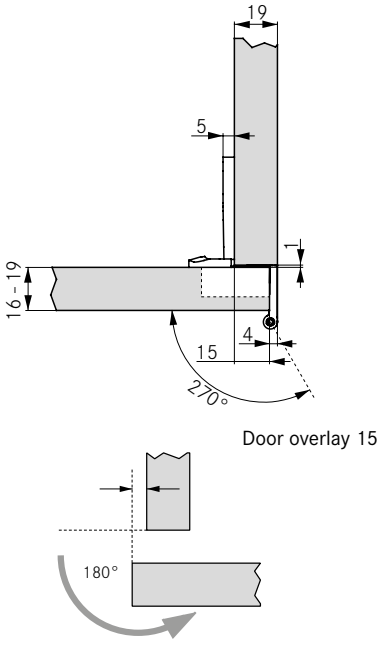
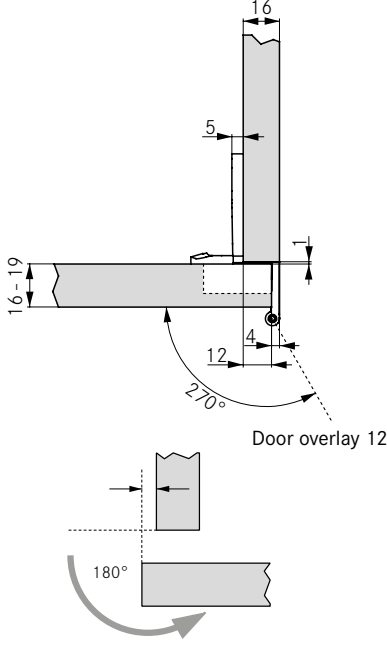
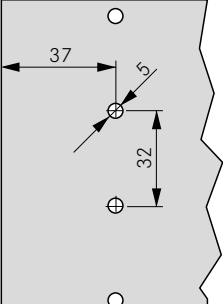
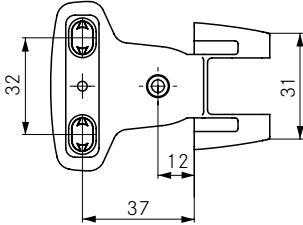
	Designation	Art. no.		Designation	Art. no.
	MB Decorative panels, For use as a glass door hinge. For glass thicknesses of 5 to 6 mm. Set complete with plastic spacers and connecting screws.	F150000018		MB Opening angle reduction clip 110° / 120°, For all single-joint hinges, except inset applications	F150000020
	Clothes protector, Prevents damage and soiling through trapping, to be used with all single-joint hinges	F150000017		Euro collar screw, Nickel, 6.3 x 13.5 mm	F150145234

PAGE REFERENCES

Soft-close Pin	540	Assembly aids	580		
Technical information	572				
Assembly technology	575				

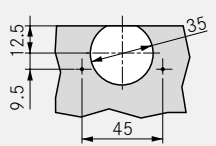
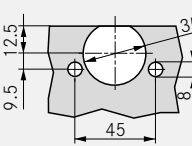
PLANNING INFORMATION

All dimensions in millimetres

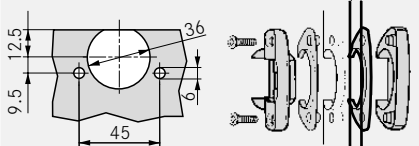
<p>MB-8310 full overlay (19 mm cabinet side)</p>  <p>Door overlay 15</p> <p>Door protrusion 0 mm with 180° opening angle</p>	<p>MB-8210 full overlay (16 mm cabinet side)</p>  <p>Door overlay 12</p> <p>Door protrusion 0 mm with 180° opening angle</p>	
<p>Cabinet holes for hinge mounting</p> 	<p>Hinge arm dimensions</p> 	

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- 2
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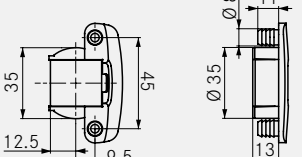
DRILLING PATTERNS

<p>For screw fitting</p> 	<p>For press fitting</p> 
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Glass hole for decorative cover cap installation set



CUP DIMENSIONS



SINGLE-JOINT HINGE MB-80 10

Suitable for heavy doors



- 230° / 180° opening angle
- Reveal 8 / 13.5 mm
- Tool-free door clip fitting
- Cup edge cover
- Side adjustment -2 mm
- Height adjustment by means of slots ± 2 mm
- Visible joint
- Supplied with black cover caps, neutral
- Hinge arms and cups must be ordered separately
- Two cups required for one hinge arm in the case of twin application

ORDER INFORMATION

HINGE ARM

Door position		Opening angle	Side wall thickness	Joint width	Colour	Material	To clip on		
Twin		180	19	8	Nickel	Zamak	F150000016		
Half overlay		230	19	13.5	Nickel	Zamak	F150000015		

HINGE POT

	Suitable for hinge	Screw-on	Press-fit
Hinge cup, 45/9.5 mm, Nickel	MB-6000 MB-8000	F150000006	F150000021

ACCESSORIES

	Designation	Art. no.		Designation	Art. no.
	MB Decorative panels, For use as a glass door hinge. For glass thicknesses of 5 to 6 mm. Set complete with plastic spacers and connecting screws.	F150000018		MB Opening angle reduction clip 110° / 120°, For all single-joint hinges, except inset applications	F150000020
	Clothes protector, Prevents damage and soiling through trapping, to be used with all single-joint hinges	F150000017		Euro collar screw, Nickel, 6.3 x 13.5 mm	F150145234

PAGE REFERENCES

Soft-close Pin	540	Assembly aids	580		
Technical information	572				
Assembly technology	575				

PLANNING INFORMATION

All dimensions in millimetres

<p>MB-8610 twin fitting</p> <p>Door overlay 5.5</p> <p>Door protrusion 0 mm with 180° opening angle</p>	<p>MB-8510 half overlay</p> <p>Door overlay 5.5</p> <p>Door protrusion 0 mm with 180° opening angle</p>	
<p>Cabinet holes for hinge mounting</p>	<p>Hinge arm dimensions</p>	

- 1
- 2
- 3
- 4

DRILLING PATTERNS

<p>For screw fitting</p>	<p>For press fitting</p>
---------------------------------	---------------------------------

Glass hole for decorative cover cap installation set

CUP DIMENSIONS

SINGLE-JOINT HINGE MB-8320

With direct height adjustment



- 270° opening angle
- Reveal 4 mm
- Tool-free door clip fitting
- Cup edge cover
- Side adjustment -2 mm
- Height adjustment via cam ± 2 mm
- Visible joint
- Supplied with black cover caps, neutral
- Hinge arms and cups must be ordered separately

ORDER INFORMATION

HINGE ARM

Door position		Opening angle	Side wall thickness	Joint width	Colour	Material	To clip on		
Full overlay		270	19	4	Nickel	Zamak	F150145167		

HINGE POT

	Suitable for hinge	Screw-on	Press-fit
Hinge cup, 45/9.5 mm, Nickel	MB-6000 MB-8000	F15000006	F15000021

ACCESSORIES

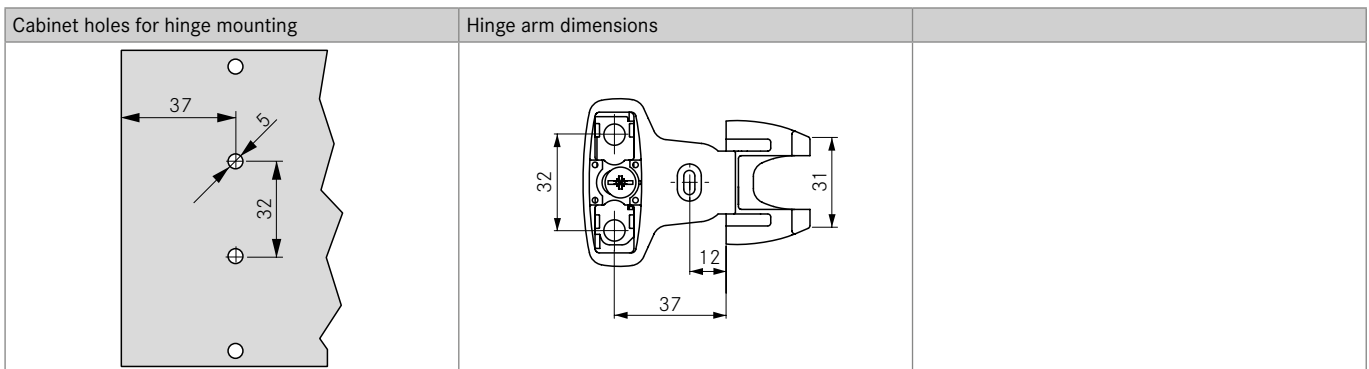
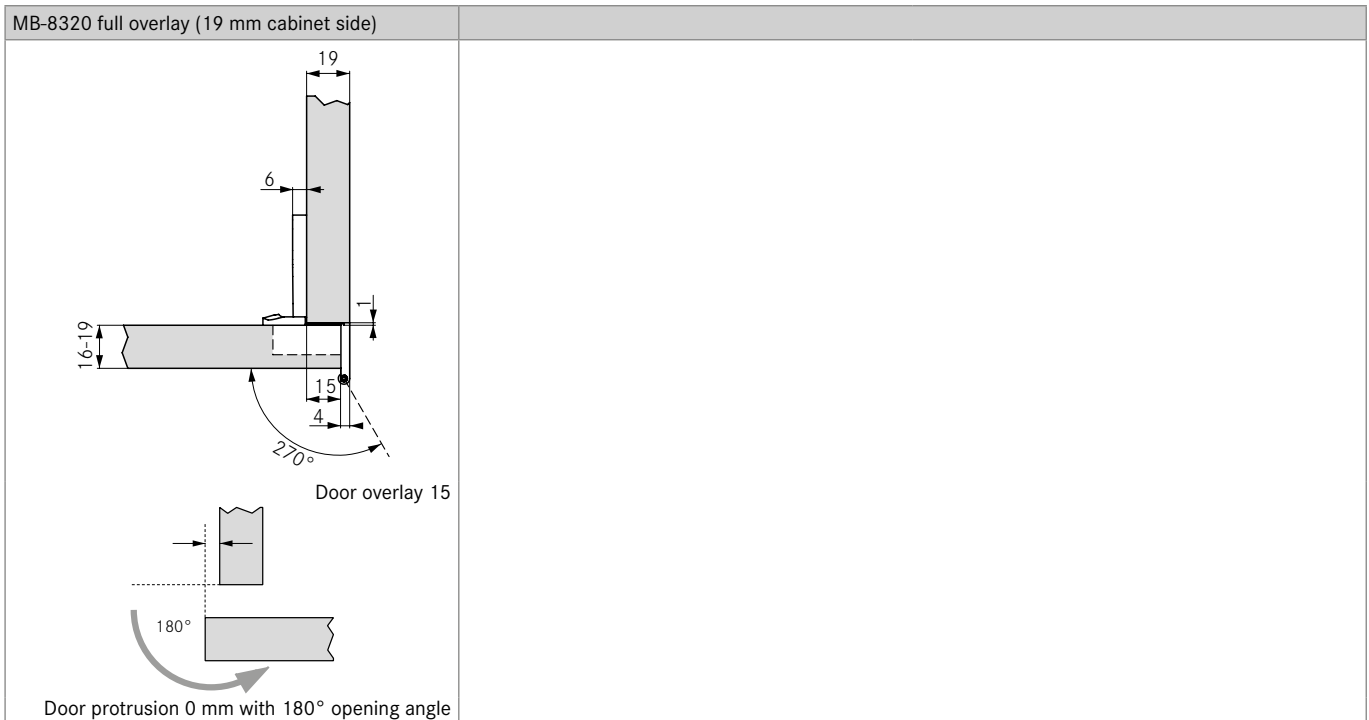
	Designation	Art. no.		Designation	Art. no.
	MB Decorative panels, For use as a glass door hinge. For glass thicknesses of 5 to 6 mm. Set complete with plastic spacers and connecting screws.	F150000018		MB Opening angle reduction clip 110° / 120°, For all single-joint hinges, except inset applications	F150000020
	Clothes protector, Prevents damage and soiling through trapping, to be used with all single-joint hinges	F150000017		Euro collar screw, Nickel, 6.3 x 13.5 mm	F150145234

PAGE REFERENCES

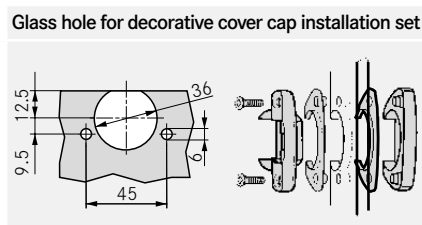
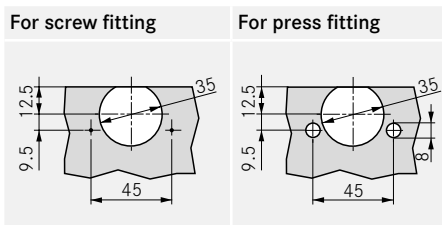
Soft-close Pin	540	Assembly aids	580		
Technical information	572				
Assembly technology	575				

PLANNING INFORMATION

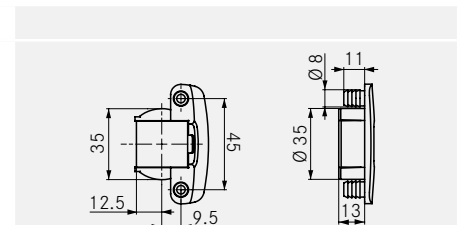
All dimensions in millimetres



DRILLING PATTERNS



CUP DIMENSIONS



1

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SINGLE-JOINT HINGE MB-20

With plug-in connector



- 230° or 180° opening angle
- Reveal 7.5/8/13.5 mm
- Strong plug connection
- Side adjustment -2 mm
- Height adjustment by means of slots ± 2 mm
- Visible joint
- Two cups required for one hinge arm in the case of twin application
- Hinge arms and cups must be ordered separately

ORDER INFORMATION

HINGE ARM

Door position		Opening angle	Side wall thickness	Joint width	Colour	Material	To tighten		
Twin		180	19	8	Nickel	Zamak	F150000004		
Inset		230	-	1	Nickel	Zamak	F150146068		
Half overlay		230	19	13.5	Nickel	Zamak	F150000003		
Full overlay		230	19	7	Nickel	Zamak	F150000005		

HINGE POT

	Suitable for hinge	Press-fit	Screw-on
Hinge cup, 52/5.5 mm, Nickel	MB-20	F150000001	F150000002
Hinge cup, 45/9.5 mm, Nickel	MB-20	-	F150146079

ACCESSORIES

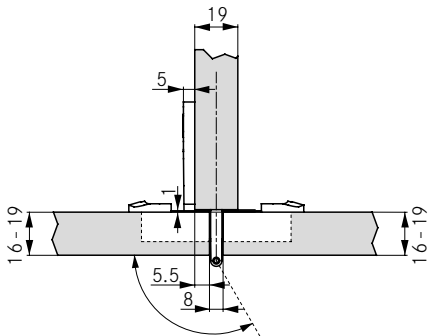
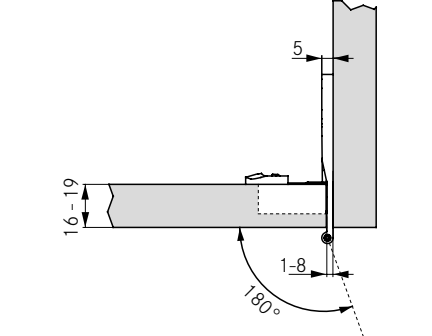
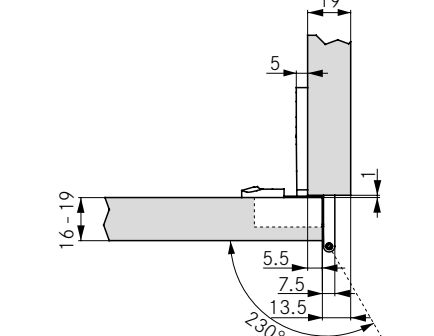
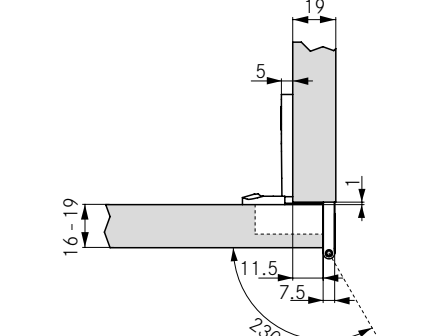
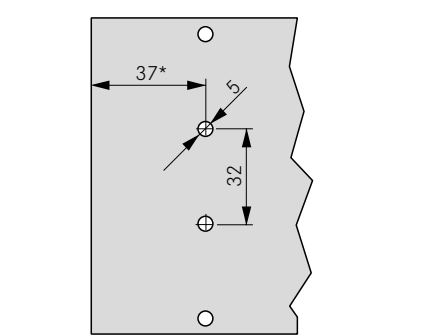
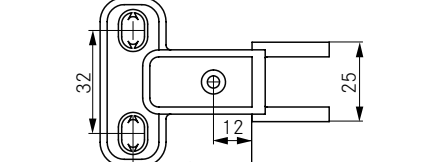
	Designation	Art. no.		Designation	Art. no.
	Euro collar screw, Nickel, 6.3 x 13.5 mm	F150145234			

PAGE REFERENCES

Soft-close Pin	540	Assembly aids	580		
Technical information	572				
Assembly technology	575				

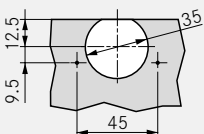
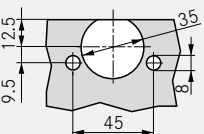
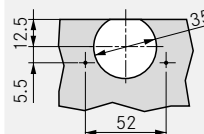
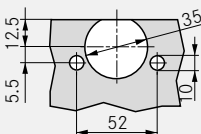
PLANNING INFORMATION

All dimensions in millimetres

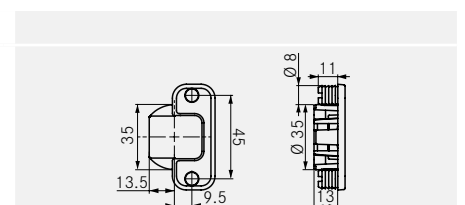
Twin fitting (19 mm cabinet side)	Inset	Half overlay (19 mm cabinet side)
 <p>Door overlay 5.5</p> <p>Door protrusion 0 mm with 180° opening angle</p>	 <p>Door protrusion 3 mm with 180° opening angle</p>	 <p>Door overlay 5.5</p> <p>Door protrusion 0 mm with 180° opening angle</p>
Full overlay (19 mm cabinet side)	Cabinet holes for hinge mounting	
 <p>Door overlay 11.5</p> <p>Door protrusion 0 mm with 180° opening angle</p>	 <p>* = 39 mm + door thickness with inset fitting</p>	
Hinge arm dimensions		
		

- 1
- 2
- 3
- 4

DRILLING PATTERNS

For screw fitting	For press fitting	For screw fitting	For press fitting
			

CUP DIMENSIONS



SOFT-CLOSE PIN

Pneumatic damper for doors



- Suitable for all door sizes, door shapes and materials
- Can also be retrofitted
- For drilling or for installation with adapter plate

SOFT-CLOSE PIN

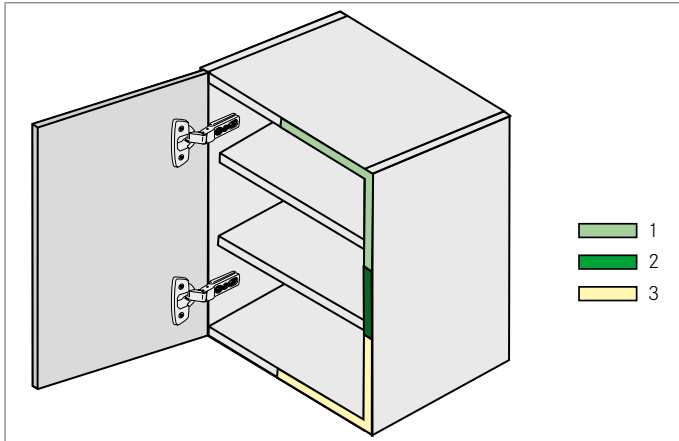
Description			Colour	Art. no.
<ul style="list-style-type: none"> • Drill hole on front edge • For perfect appearance • Housing: Plastic 			Light grey	F069066528

PAGE REFERENCES

Nexis Click-on	478	Single-joint hinges	559		
Nexis Slide-on	521	Assembly technology	575		
Special hinges	547	Assembly aids	580		

PLANNING INFORMATION

All dimensions in millimetres



- Possible damper position for a standard door:

- 1 Good position
- 2 Optimal position
- 3 Possible position

- For larger doors, we recommend using an additional damper.

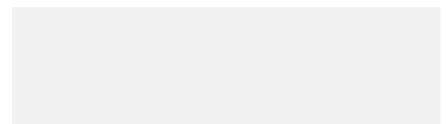
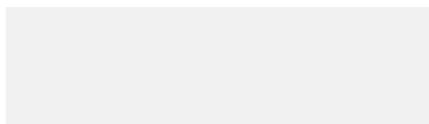
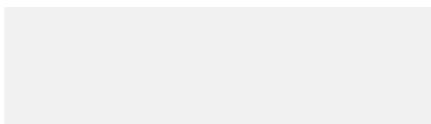
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LEGEND



SINGLE-JOINT HINGES

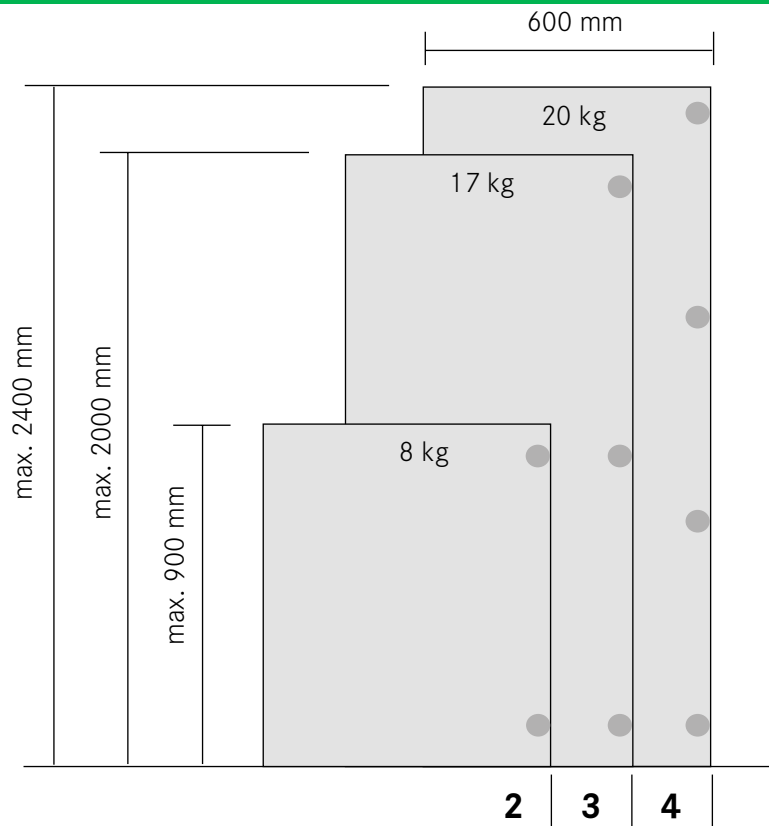
Technical information

NUMBER OF HINGES

Number of hinges

Applies to 19 mm thick chipboard.

The width of the doors must not be greater than the height.



INSERTION/REMOVAL

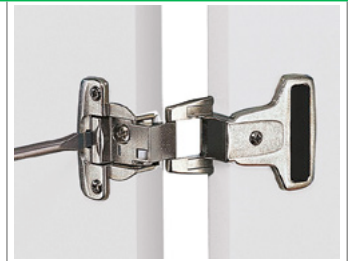
Assembly

Just pressing down the hinge with the finger is enough to firmly and securely connect the cabinet and door.



Removal

The hinge connection can be released with a twist of a flat-blade screwdriver. This means that unintentional dismounting is not possible.



ARM MOUNTING

Screws for arm mounting

2 Euro collar screws
(6.3 x 10.5 mm or 6.3 x 13.5 mm)

1 chipboard screw
(3.5 x 13 mm, Pozidriv size 2)
This screw must be set for safety reasons.



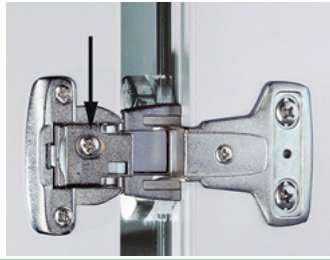
PAGE REFERENCES

Assembly technology	575				
Assembly aids	580				

ADJUSTMENTS

Side adjustment MB-6010, MB-8010

The reveal can be adjusted directly via this screw. Adjustment range -2 mm.



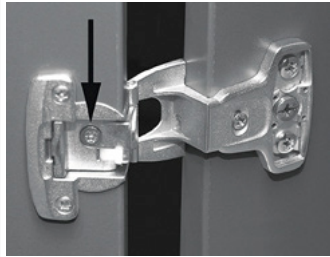
Height adjustment MB-6010, MB-8010

Adjustment by means of slots (break out the fixing pins). Adjustment range +/- 2 mm. After adjustment, fit the third screw.



Side adjustment MB-8320

The reveal can be adjusted directly via this screw. Adjustment range -2 mm.



Direct height adjustment MB-8320

Adjustment via screw. Adjustment range +/- 2 mm. Before adjustment, loosen the third fixing screw, then tighten again.



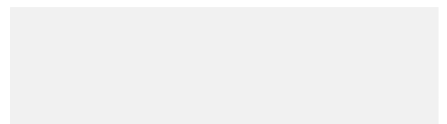
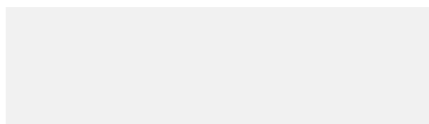
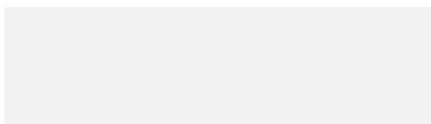
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LEGEND





SOPHISTICATED AND WELL-TESTED TECHNOLOGY FOR FAST, SAFE WORKING. THE VALUE OF A MOVEMENT SYSTEM IS MADE UP OF MANY INFLUENCING FACTORS. IN ADDITION TO VISUAL AND FUNCTIONAL PROPERTIES, THE FOCUS IS ON PERMANENTLY CONSISTENT QUALITY AND THE POSSIBILITIES FOR EFFICIENT PROCESSING. GRASS OFFERS PROFESSIONAL INSTALLATION AND ASSEMBLY AIDS FOR ALL PRODUCT FAMILIES, TAILORED TO THE MANUFACTURING TECHNOLOGY OF OUR SATISFIED CUSTOMERS.

Tecmator.
Strong. Fast.
Economical.



Along with the Tecmator drawer presses for the professional assembly of our drawer systems and the Tecmator drilling and insertion machines, GRASS offers a variety of useful accessories for trade and industry.

Tecmator

Assembly Technology

Tried-and-tested installation and assembly aids for the professional and cost-effective assembly of GRASS movement systems.

Product description	Page
Tecmator RM Ideal for cabinet makers	576
Tecmator RP Ideal for cabinet makers, shop fitters and small-scale series manufacturers	578
Assembly aids Hinge systems	580

1

2

3

4

TECMATOR RM

Ideal for cabinet makers



- Robust and practical construction
- Quick setup
- 3-spindle drill head for hinge holes

Standard equipment

- 3-spindle drill head
- 1 tool set
- 1 stop guide 600 mm
- 2 flip stops with clamping lever
- 1 machine table

Standard equipment does not include side lever, insertion die or drill bit. Please order separately.

ORDER INFORMATION

	Model variant	Number of spindles vertical drilling gear	Hole drilling	Nominal voltage	Nominal voltage 2	Nominal voltage 3	Frequency	Art. no.
	RM	3 PCS	45/9.5 mm	110 V	0 V	0 V	60 Hz	F146135851
				230 V			50 Hz	F146135852

DRILL BIT WITH SHANK DIA. 10 MM

Description			Direction of rotation	Art. no.
• Drill length 50 mm; dia. 2.7 mm; Black			Clockwise rotation	F146135823
• Drill length 50 mm; dia. 2.7 mm; Red			Anti-clockwise rotation	F146135822
• Drill length 57 mm; dia. 5 mm; Black			Clockwise rotation	F146135825
• Drill length 57 mm; dia. 5 mm; Red			Anti-clockwise rotation	F146135824
• Drill length 57 mm; dia. 8 mm; Black			Clockwise rotation	F146135827
• Drill length 57 mm; dia. 8 mm; Red			Anti-clockwise rotation	F146135826
• Drill length 57 mm; dia. 10 mm; Black			Clockwise rotation	F146135829
• Drill length 57 mm; dia. 10 mm; Red			Anti-clockwise rotation	F146135828
• Drill length 57 mm; dia. 35 mm; Black			Clockwise rotation	F146135830

PAGE REFERENCES

Tiomos	387	Special hinges	547		
Nexis Click-on	478	Single-joint hinges	559		
Nexis Slide-on	521	Assembly aids	580		

TECMATOR RM IDEAL FOR CABINET MAKERS

Description				Art. no.
<ul style="list-style-type: none"> Left-hand or right-hand side stop 				F146135810
<ul style="list-style-type: none"> Quick-change drill chuck, left 				F146135835
<ul style="list-style-type: none"> Quick-change drill chuck, right 				F146135836
<ul style="list-style-type: none"> Scale extension 800 mm, left 				F146135957
<ul style="list-style-type: none"> Scale extension 800 mm, right 				F146135958
<ul style="list-style-type: none"> Swivelling lever for insertion die 				F146135861
<ul style="list-style-type: none"> Universal insertion die for Nexis and Tiomos hinges (additional dies on request) 				F146135821

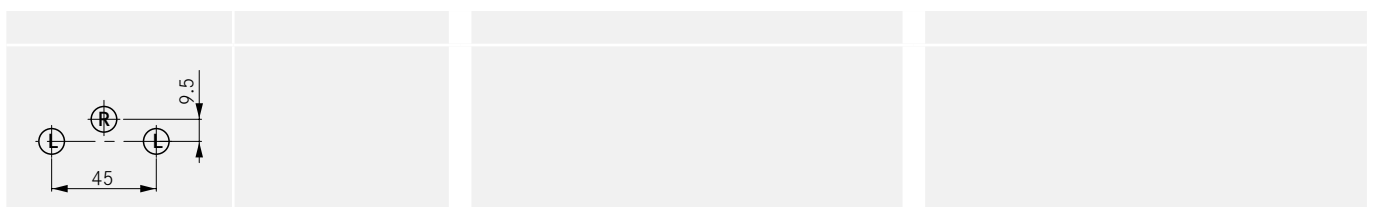
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DRILLING PATTERN



TECMATOR RP

Ideal for cabinet makers, shop fitters and small-scale series manufacturers



- Robust and practical construction
- Simple and straightforward replacement of spindle head
- Certified, type-tested design
- Pneumatic two-hand control for fast, safe working
- 6-spindle drill head for hinge, mounting plate and connection fitting holes
- Useful special accessories provide enhanced machining options for furniture parts

Standard equipment

- 6-spindle drill head including drill bits
- 1 insertion die for Nexis and Tiomos hinges
- 1 tool set
- 1 stop guide 600 mm
- 2 flip stops with clamping lever
- 1 machine table

ORDER INFORMATION

	Model variant	Number of spindles vertical drilling gear	Hole drilling	Nominal voltage	Nominal voltage 2	Nominal voltage 3	Frequency	Art. no.
	RP	6 PCS	45/9.5 mm	110 V	0 V	0 V	60 Hz	F146135838
				220 V				F146135839
				230 V			F146135840	
				380 V	380 V	380 V	50 Hz	F146135841

DRILL BIT WITH SHANK DIA. 10 MM

Description			Direction of rotation	Art. no.
• Drill length 50 mm; dia. 2.7 mm; Black			Clockwise rotation	F146135823
• Drill length 50 mm; dia. 2.7 mm; Red			Anti-clockwise rotation	F146135822
• Drill length 57 mm; dia. 5 mm; Black			Clockwise rotation	F146135825
• Drill length 57 mm; dia. 5 mm; Red			Anti-clockwise rotation	F146135824
• Drill length 57 mm; dia. 8 mm; Black			Clockwise rotation	F146135827
• Drill length 57 mm; dia. 8 mm; Red			Anti-clockwise rotation	F146135826
• Drill length 57 mm; dia. 10 mm; Black			Clockwise rotation	F146135829
• Drill length 57 mm; dia. 10 mm; Red			Anti-clockwise rotation	F146135828
• Drill length 57 mm; dia. 35 mm; Black			Clockwise rotation	F146135830

PAGE REFERENCES

Tiomos	387	Special hinges	547		
Nexis Click-on	478	Single-joint hinges	559		
Nexis Slide-on	521	Assembly aids	580		

ACCESSORIES

Description				Art. no.
<ul style="list-style-type: none"> Left-hand or right-hand side stop 				F146135810
<ul style="list-style-type: none"> Quick-change drill chuck, left 				F146135835
<ul style="list-style-type: none"> Quick-change drill chuck, right 				F146135836
<ul style="list-style-type: none"> Scale extension 800 mm, left 				F146135957
<ul style="list-style-type: none"> Scale extension 800 mm, right 				F146135958
<ul style="list-style-type: none"> Seven-spindle vertical drilling gear with integrated marking pins for rows of holes in the 32 mm system (drill bits are not supplied) 				F146135811
<ul style="list-style-type: none"> Universal insertion die for Nexis and Tiomos hinges (additional dies on request) 				F146135821

ADVANTAGES

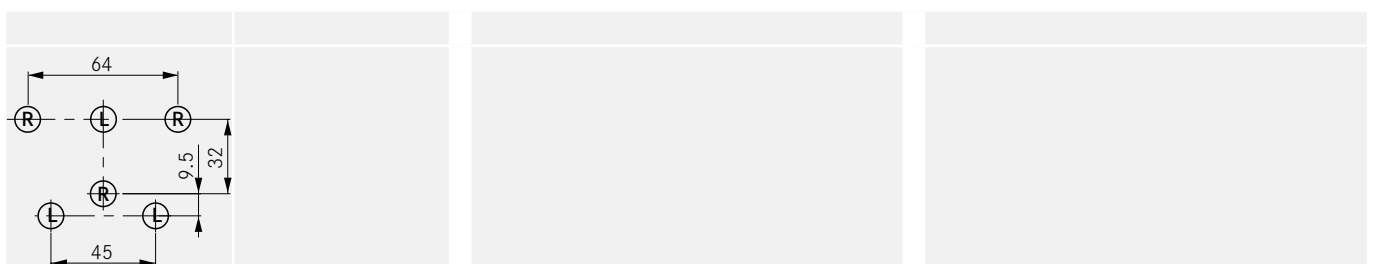
Optimal fixing using pneumatic hold-down devices. Pneumatic two-hand control for fast, safe working. 6-spindle drill head for hinge, mounting plate and connector fitting holes.



TECHNICAL INFORMATION

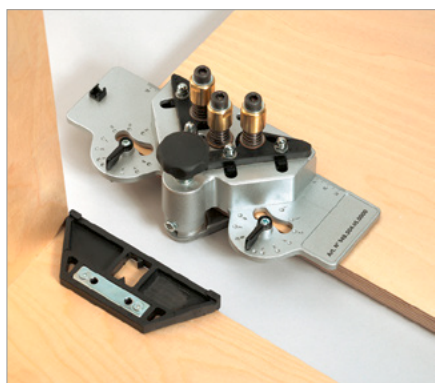
Connections		Dimensions		Weight	
Power rating	1.5 kW	Width	0.80 m	Weight	65 kg
Compressed air supply	6 bar	Depth	0.60 m		
Dust suction diameter	100 mm	Height	0.78 m		

DRILLING PATTERNS



ASSEMBLY AIDS

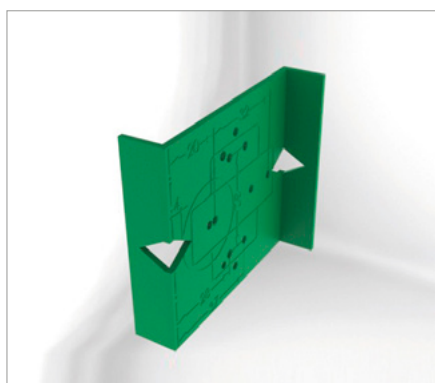
Hinge systems



HINGE DRILLING JIG JIG 500

- Drilling jig for Nexis and Tiomos hinges with wood screw fastening, pre-assembled dowels or Impresso hinges and for cross mounting plates

	Art. no.
	F146135776



TIOMOS MARKING JIG

- Simple centre punching or pre-drilling of holes for Tiomos hinges, mini-hinges, cross and linear mounting plates.

Hole drilling	Art. no.
45/9.5 mm	F146135787



TIOMOS COMFORT MARKING JIG

- Easy to use
- Cup distance 3–5 mm
- Hinge cup positioning
- Linear mounting plate positioning
- Cross mounting plate positioning

	Art. no.
	F146135865



WOOD DRILL BIT WITH STOP RING

- Used for pre-drilling holes for Euro screws
- Length 85 mm
- With stop ring

Diameter	Art. no.
5 mm	F146092594

PAGE REFERENCES

Tiomos	387	Special hinges	547		
Nexis Click-on	478	Single-joint hinges	559		
Nexis Slide-on	521	Assembly technology	575		



PILOT DRILL BIT

- The pilot drill bit is used for pre-drilling holes for countersunk chipboard screws

Diameter	Art. no.
3.5 mm	F146035692



SCREWDRIVER

- GRASS cross-head screwdriver (Pozidriv no. 2)

Product type	Art. no.
Screwdriver	F147010256

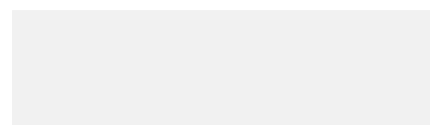
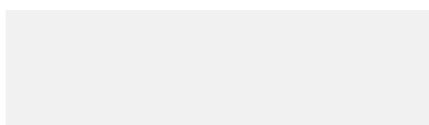
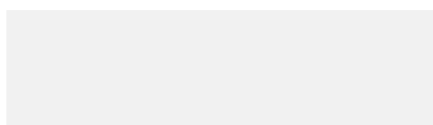
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LEGEND



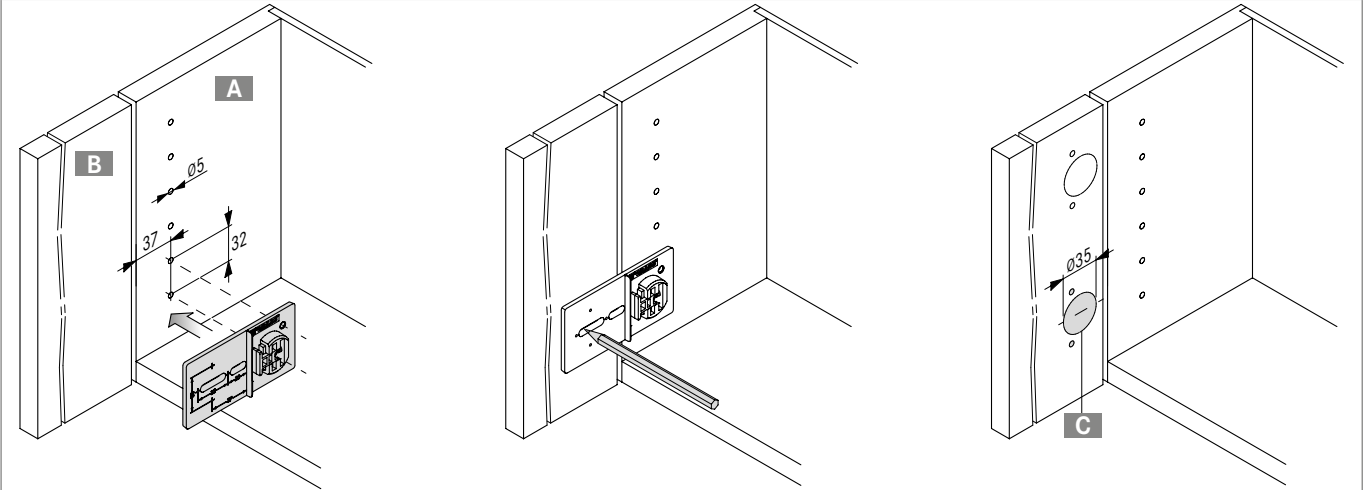
ASSEMBLY AIDS

Hinge systems

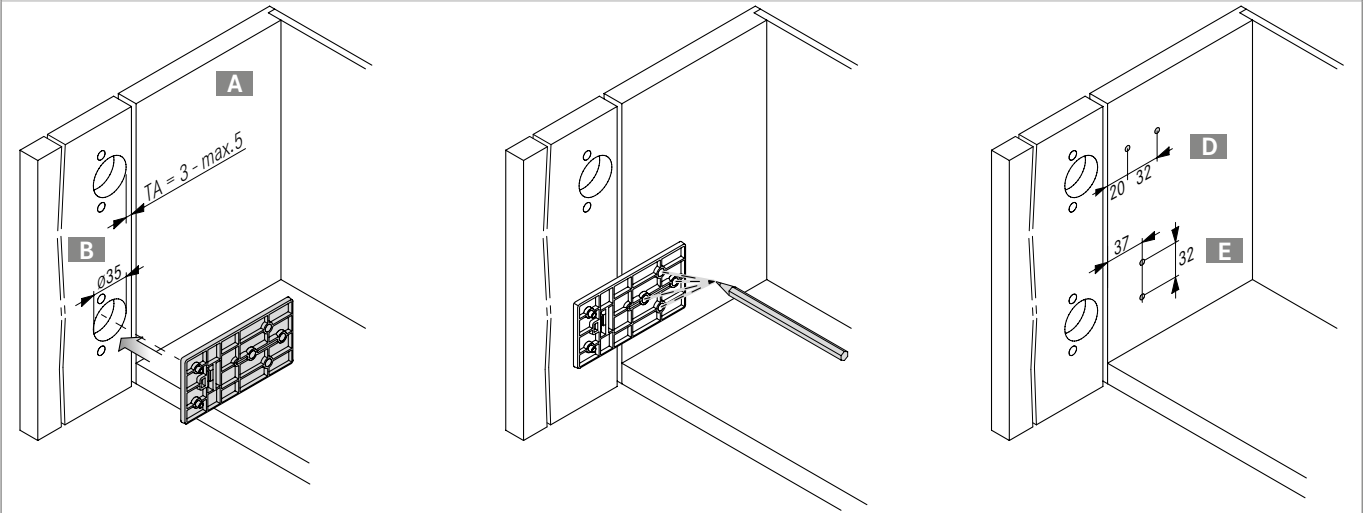
INSTALLATION INSTRUCTIONS

Tiomos marking jig, comfort

Use with existing hole distance 37



Use with existing cup hole



PAGE REFERENCES

Tiomos	387	Special hinges	547		
Nexis Click-on	478	Single-joint hinges	559		
Nexis Slide-on	521	Assembly technology	575		

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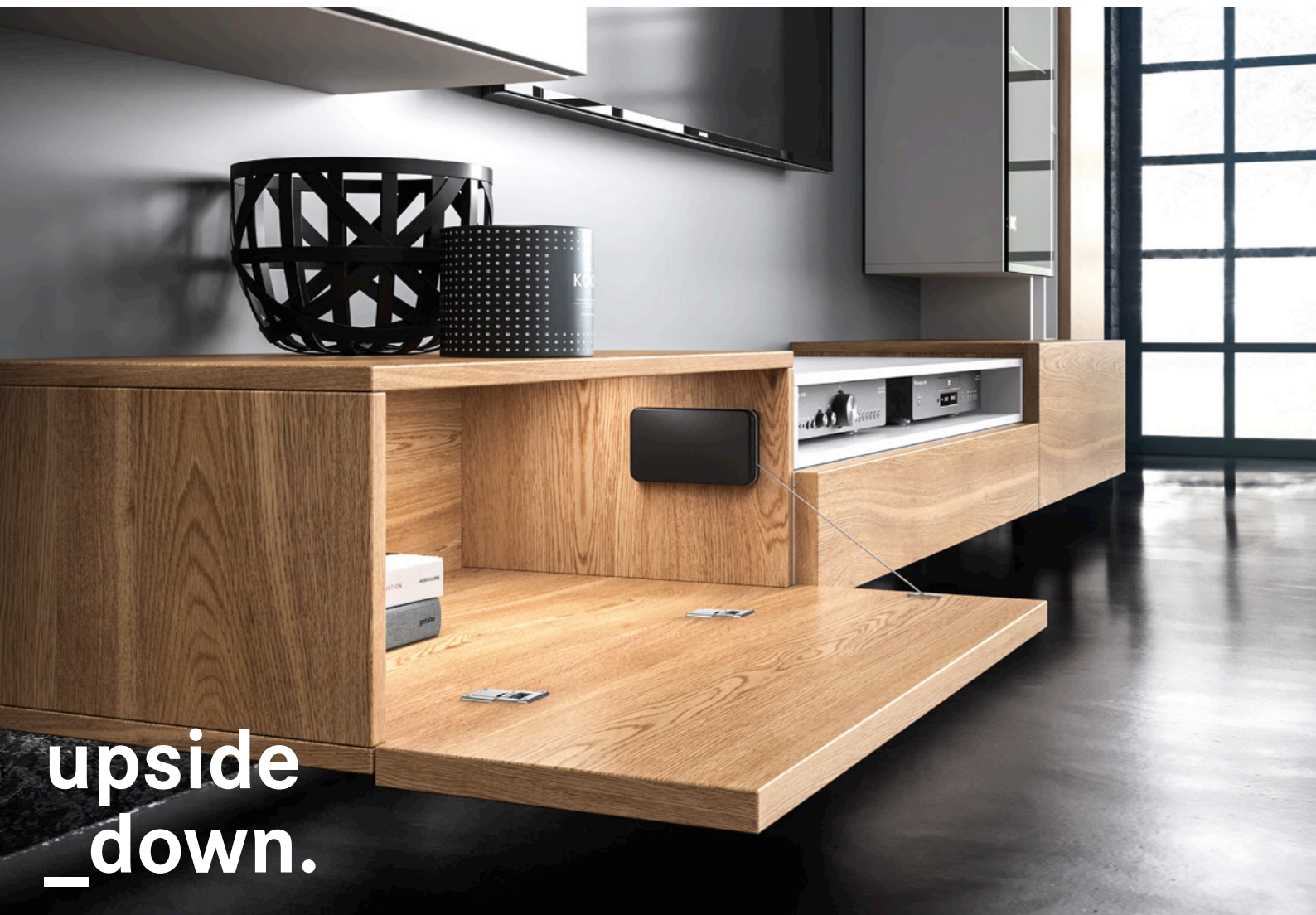
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LEGEND

A	Cabinet side
B	Door
C	Cup hole
D	Linear mounting plate

E	Cross mounting plate
TA	Cup distance



upside
_down.

KINVARO D TRANSFORMS DRINKS COMPARTMENTS INTO STATEMENT PIECES. THE DISCREET FLAP STAY WITH PULL CABLE OPENS DRINKS COMPARTMENTS DOWNWARDS TO CREATE A FLUSH OPENING AND GIVES AN AESTHETIC OVERALL LOOK. KINVARO D CAN BE FITTED HORIZONTALLY OR VERTICALLY ON BOTH SIDES AND IS AVAILABLE IN TWO MODELS FOR DIFFERENT DEPTHS, FLAP SIZES AND WEIGHTS. WITH INTEGRATED DAMPING AND AVAILABLE IN THREE COLOURS, IT IS AN ELEGANT FITTING FOR PERFECT FURNITURE DESIGN.

The perfect duo for drinks compartment flaps.
Kinvaro D and Tiomos flap hinge.



The optimal interplay of the Tiomos flap hinge and Kinvaro D drinks compartment flap opens up new design possibilities. The extremely flat flap hinge discreetly connects the base panel and flap and creates an almost flush opening, while Kinvaro D with pull cable holds the flap securely.


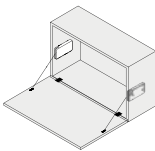

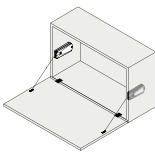






The colours White, Night and Smoke have been chosen for the Kinvaro D to create an aesthetic overall look. Kinvaro D is suitable for flap weights of up to 11 kg and is fitted with an integrated damper.

Kinvaro D

Drinks compartment flap

The slim flap system with pull cable integrates beautifully into elegant furniture with drinks compartment flaps.

	Description		Page
	Kinvaro D-M flap stay with pull cable <ul style="list-style-type: none"> • Damped opening and gentle closing • Opening angle adjustable via length of pull cable • Spring force adjustment • Can be used with shallow cabinets from 110 mm depth • Flap height 200–480 mm 		586
	Kinvaro D-S flap stay with pull cable <ul style="list-style-type: none"> • Damped opening • Opening angle adjustable via length of pull cable • Can be used with shallow cabinets from 82 mm depth • Flap height 200–480 mm 		588
	Tiomos flap hinge 90° hinge (flap thickness from 14 to 21 mm) <ul style="list-style-type: none"> • Flap thickness from 14 to 21 mm • Cup hole 35 mm • 3-dimensional adjustment 		592
	Tiomos flap hinge 90° hinge (flap thickness from 22 to 30 mm) <ul style="list-style-type: none"> • Flap thickness from 22 to 30 mm • Cup hole 35 mm • 3-dimensional adjustment 		594

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KINVARO

D-M flap stay with pull cable



- Damped opening and gentle closing
- Opening angle adjustable via length of pull cable
- Spring force adjustment
- Can be used with shallow cabinets from 110 mm depth
- Flap height 200–480 mm
- Can be used on left/right
- Easy to install horizontally or vertically
- Colours White, Night and Smoke
- Designed for combination with Tiomos flap hinge

Notice:

- Tiomos flap hinges must be ordered separately

AREA OF APPLICATION

Front height (FH)	V1								V2							
	Flap weight incl. handle (kg)								Flap weight incl. handle (kg)							
	Lift mechanism 60N		Lift mechanism 100N		Lift mechanism 160N		Lift mechanism 200N		Lift mechanism 60N		Lift mechanism 100N		Lift mechanism 160N		Lift mechanism 200N	
	1 x	2 x	1 x	2 x	1 x	2 x	1 x	2 x	1 x	2 x	1 x	2 x	1 x	2 x	1 x	2 x
200-230	4.0-4.8	-	4.2-6.2	-	5.8-8.0	-	7.2-10.4	-	4.1-5.9	-	5.3-7.3	-	-	-	-	-
230-270	3.0-4.4	6.0-8.4	3.6-5.2	6.8-9.6	5.2-7.0	-	6.8-8.6	-	3.3-4.8	6.8-9.6	4.2-6.0	9.6-12.8	-	-	-	-
270-330	2.9-3.8	5.6-7.8	3.0-4.6	6.4-8.8	4.6-6.0	8.6-11.8	6.4-7.8	-	3.2-4.5	6.3-8.1	3.8-5.1	7.9-11.1	6.1-8.0	12.9-15.5	-	-
330-380	2.7-3.7	5.0-7.0	3.2-4.3	6.5-8.5	4.3-5.7	8.7-11.1	5.5-7.1	11.9-13.5	2.6-3.4	5.0-6.5	3.3-4.5	7.3-8.5	5.3-6.5	10.7-12.9	6.7-7.3	13.3-14.9
380-430	2.9-3.6	4.5-6.1	3.1-3.9	5.7-7.3	4.5-6.1	8.5-10.1	5.4-6.9	10.9-12.5	2.5-3.4	5.0-6.2	3.2-4.2	6.2-8.2	4.8-5.6	9.8-11.4	5.9-6.6	11.8-13.0
430-460	2.7-3.1	4.3-6.1	2.7-3.9	5.9-8.3	4.1-4.9	8.3-9.5	5.3-5.7	10.1-11.5	2.3-3.0	4.6-6.2	3.0-3.8	6.2-7.8	4.6-5.4	9.0-10.4	5.6-6.0	11.4-12.2
460-480	2.5-2.9	4.1-5.7	2.8-3.8	5.3-7.7	3.8-4.8	7.2-9.6	5.4-5.6	2.0-5.5	2.4-3.2	4.6-6.0	2.8-4.0	5.6-7.8	4.5-5.4	8.8-10.4	5.4-6.0	10.8-11.6

ORDER INFORMATION

Kinvaro D-M flap holder with pull cable		
Set: Incl. front holder and fixing screws		
	Lift mechanism	Art. no.
	60 N	F053139661
	100 N	F053139662
	160 N	F053139686
	200 N	F053139687

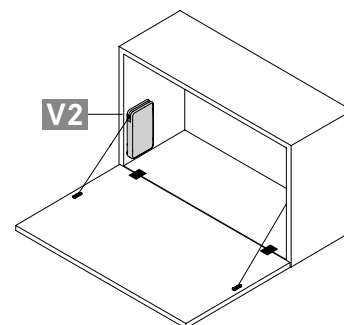
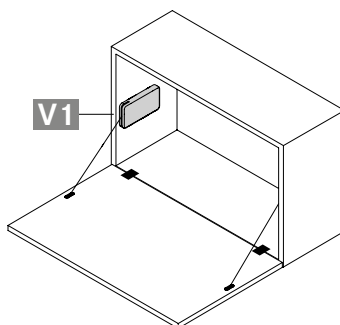


Kinvaro D-M cover cap		
Piece: Left or right		
	Colour	Art. no.
	Night	F053139669
	Smoke	F053139670
	White	F053139668



Note:

Tiomos flap hinges must be ordered separately.



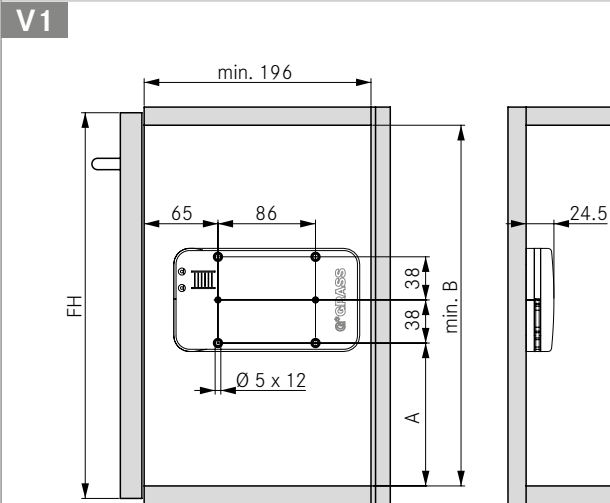
PAGE REFERENCES

Kinvaro D-M adjustment options	590			

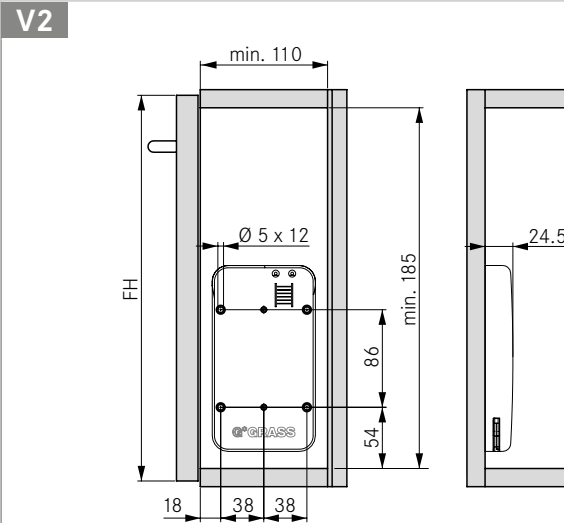
PLANNING INFORMATION

All dimensions in millimetres

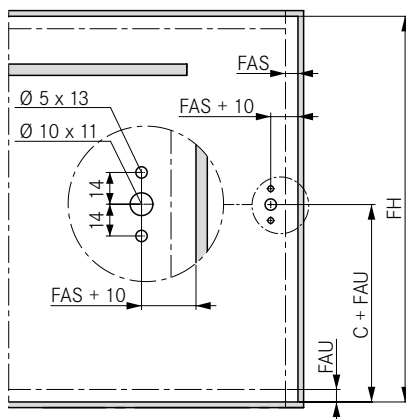
Drilling position and space required



FH	A	B
200 - 330	102	194
330 - 430	126	218
430 - 480	136	228



Front mounting for wooden flaps



FH	C (V1)	C (V2)
200 - 330	137	161
330 - 430	161	161
430 - 480	171	161

Minimum reveal and door protrusion depend on the hinge fitted.
You can find suitable hinges in the hinge systems product catalogue.

Calculation of flap weight

Flap width x flap height x flap thickness x density ¹ + weight of handle ² = weight of flap

¹ Densities: MDF board 0.85 kg/dm³, chipboard 0.65 kg/dm³, spruce/pine 0.45 kg/dm³

² For bar handles, allow 0.1 kg per 100 mm of the handle length. We recommend a trial fitting

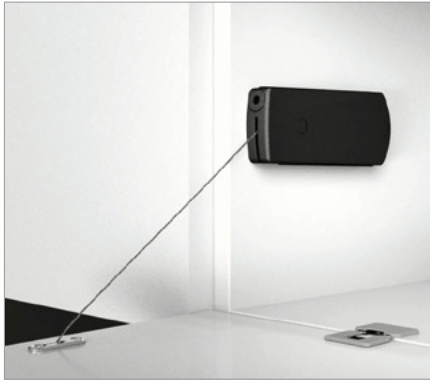
WARNING

LEGEND

FAS Front overlay, side
FAU Front overlay, bottom
FH Front height

KINVARO

D-S flap stay with pull cable



- Damped opening
- Opening angle adjustable via length of pull cable
- Can be used with shallow cabinets from 82 mm depth
- Flap height 200–480 mm
- Can be used on left/right
- Easy to install horizontally or vertically
- Colours White and Night
- Designed for combination with Tiomos flap hinge

Notice:

- Tiomos flap hinges must be ordered separately

AREA OF APPLICATION

Front height (FH)	V1				V2			
	Flap weight incl. handle (kg)							
	Lift mechanism 40N		Lift mechanism 60N		Lift mechanism 40N		Lift mechanism 60N	
	1 x	2 x	1 x	2 x	1 x	2 x	1 x	2 x
200 – 270	1.7 – 3.0	3.9 – 4.5	3.1 – 4.0	7.5 – 8.0	2.5 – 3.8	4.3 – 5.6	3.9 – 4.9	–
270 – 330	1.7 – 3.0	3.3 – 4.5	3.1 – 4.0	6.1 – 7.4	2.3 – 3.1	4.2 – 5.0	3.2 – 4.1	7.0 – 7.5
330 – 380	1.7 – 1.9	3.2 – 3.5	2.9 – 3.5	5.1 – 6.8	1.8 – 2.6	3.4 – 3.9	3.0 – 3.8	5.6 – 6.5
380 – 430	1.5 – 1.8	2.7 – 3.3	2.5 – 3.3	4.8 – 6.6	1.7 – 2.3	2.9 – 4.2	2.8 – 3.5	4.7 – 6.2
430 – 460	1.2 – 1.7	2.5 – 3.1	2.3 – 3.3	4.6 – 6.0	1.5 – 2.0	3.1 – 4.0	2.5 – 3.2	4.4 – 6.1
460 – 480	–	–	2.2 – 2.8	4.4 – 5.3	–	2.8 – 3.8	2.3 – 2.6	4.1 – 5.8

ORDER INFORMATION

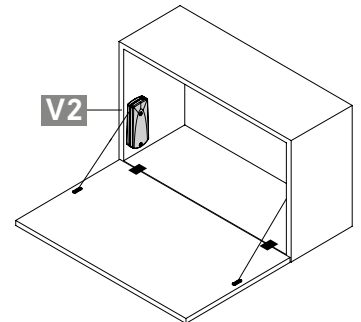
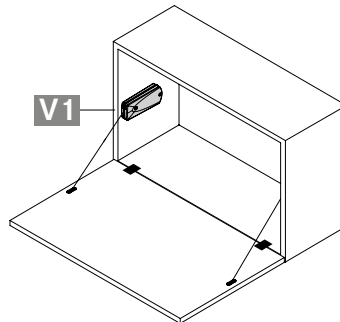
Kinvaro D-S flap holder with pull cable
Piece: Incl. front holder and fixing screws



Lift mechanism	Night	White	
40 N	F053139665	F053139664	
60 N	F053139667	F053139666	

Note:

Tiomos flap hinges must be ordered separately.



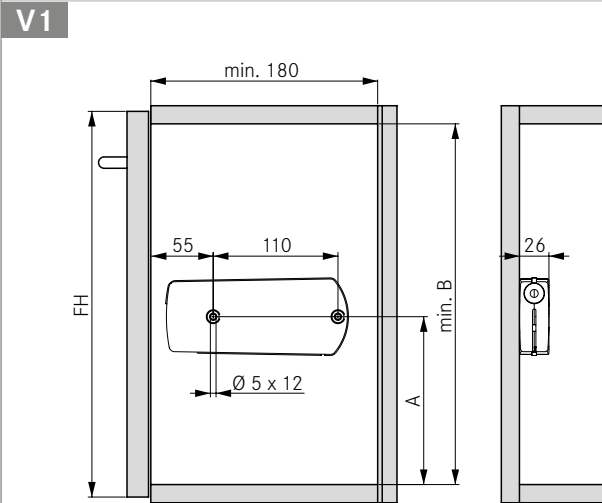
PAGE REFERENCES

Kinvaro D-S adjustment options	591				

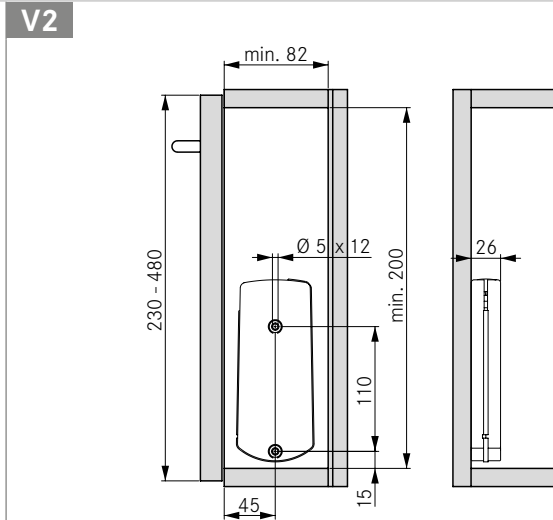
PLANNING INFORMATION

All dimensions in millimetres

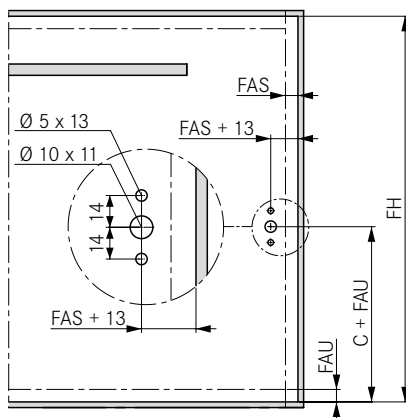
Drilling position and space required



FH	A	B
200 - 270	135	173
270 - 480	148	186



Front mounting for wooden flaps



FH	C (V1)	C (V2)
200 - 270	123	-
270 - 480	144	-
230 - 480	-	123

Minimum reveal and door protrusion depend on the hinge fitted.
You can find suitable hinges in the hinge systems product catalogue.

Calculation of flap weight

Flap width x flap height x flap thickness x density ¹ + weight of handle ² = weight of flap

¹ Densities: MDF board 0.85 kg/dm³, chipboard 0.65 kg/dm³, spruce/pine 0.45 kg/dm³

² For bar handles, allow 0.1 kg per 100 mm of the handle length. We recommend a trial fitting

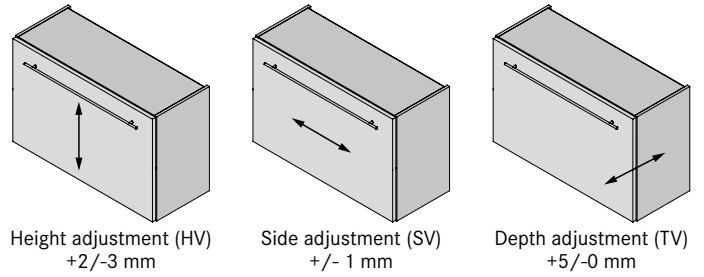
WARNING

LEGEND

- FAS Front overlay, side
- FAU Front overlay, bottom
- FH Front height

KINVARO

D-M adjustment facilities



All adjustments can be carried out independently of each other.

ADJUSTMENT OPTIONS, HINGE IN THE CABINET BASE

Height adjustment (HV)	Side adjustment (SV)	Depth adjustment (TV)
<p>The adjustment options shown here refer to the Tiomos flap hinge. You can find these in the hinge systems product catalogue.</p>		

ADJUSTMENTS

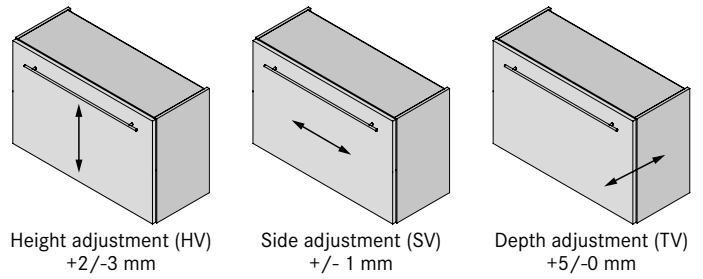
Adjusting the opening angle	Adjusting the opening speed
<p>Easing the weight of the door during adjustment.</p>	

WARNING

Note

PAGE REFERENCES

Kinvaro flap system	585			



All adjustments can be carried out independently of each other.

ADJUSTMENT OPTIONS, HINGE IN THE CABINET BASE

Height adjustment (HV)	Side adjustment (SV)	Depth adjustment (TV)
<p>The adjustment options shown here refer to the Tiomos flap hinge. You can find these in the hinge systems product catalogue.</p>		

ADJUSTMENTS

Adjusting the opening angle		
Easing the weight of the door during adjustment.		

WARNING

		Note

LEGEND

HV	Height adjustment
SV	Lateral adjustment
TV	Depth adjustment

1

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
TIOMOS FLAP HINGE

90° hinge (flap thickness from 14 to 21 mm)





- Modern design
- 90° opening angle
- For flap thicknesses up to 21 mm
- Narrow reveals
- High overlay up to 19 mm
- Cup depth 12 mm
- 3-dimensional adjustment
- Very suitable for combination with the Kinvaro D flap stays

ORDER INFORMATION

Door position		Colour	Included in delivery	Material	Screw-on		
Overlay		Nickel	Hinge arm (1x), hinge cup (1x), cover cap (1x)	Zamak	F053 139690		
		Night	Hinge arm (1x), hinge cup (1x), cover cap (1x)	Zamak	F053 139692		

ADAPTER PLATES

	Designation	Colour	Art. no.
	adapter plate; 1.5 mm	Nickel	F053 139676
	adapter plate; 1.5 mm	Night	F053 139684
	adapter plate; 7 mm	Nickel	F053 139688

PAGE REFERENCES

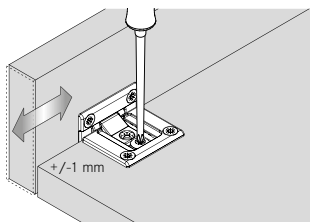
Assembly technology	575				
Assembly aids	580				

PLANNING INFORMATION

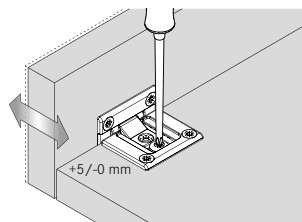
All dimensions in millimetres

Overlay, without adapter plate	Overlay, with adapter plate (1.5 mm, 1x)	Overlay, with adapter plate (1.5 mm, 2x)	Half overlay, with adapter plate (7 mm)																																																																								
<table border="1"> <thead> <tr> <th colspan="2">Minimum joint (F)</th> </tr> </thead> <tbody> <tr><td>14</td><td>1</td></tr> <tr><td>15</td><td>1</td></tr> <tr><td>16</td><td>1</td></tr> <tr><td>17</td><td>1</td></tr> <tr><td>18</td><td>1</td></tr> <tr><td>19</td><td>1</td></tr> <tr><td>20</td><td>1.5</td></tr> <tr><td>21</td><td>2.5</td></tr> </tbody> </table>	Minimum joint (F)		14	1	15	1	16	1	17	1	18	1	19	1	20	1.5	21	2.5	<table border="1"> <thead> <tr> <th colspan="2">Minimum joint (F)</th> </tr> </thead> <tbody> <tr><td>14</td><td>1</td></tr> <tr><td>15</td><td>1</td></tr> <tr><td>16</td><td>1</td></tr> <tr><td>17</td><td>1</td></tr> <tr><td>18</td><td>1</td></tr> <tr><td>19</td><td>1</td></tr> <tr><td>20</td><td>1.5</td></tr> <tr><td>21</td><td>2.5</td></tr> </tbody> </table>	Minimum joint (F)		14	1	15	1	16	1	17	1	18	1	19	1	20	1.5	21	2.5	<table border="1"> <thead> <tr> <th colspan="2">Minimum joint (F)</th> </tr> </thead> <tbody> <tr><td>14</td><td>1</td></tr> <tr><td>15</td><td>1</td></tr> <tr><td>16</td><td>1</td></tr> <tr><td>17</td><td>1</td></tr> <tr><td>18</td><td>1</td></tr> <tr><td>19</td><td>1</td></tr> <tr><td>20</td><td>1.5</td></tr> <tr><td>21</td><td>2.5</td></tr> </tbody> </table>	Minimum joint (F)		14	1	15	1	16	1	17	1	18	1	19	1	20	1.5	21	2.5	<table border="1"> <thead> <tr> <th colspan="2">Minimum joint (F)</th> </tr> </thead> <tbody> <tr><td>14</td><td>1</td></tr> <tr><td>15</td><td>1</td></tr> <tr><td>16</td><td>1</td></tr> <tr><td>17</td><td>1</td></tr> <tr><td>18</td><td>1</td></tr> <tr><td>19</td><td>1</td></tr> <tr><td>20</td><td>1.5</td></tr> <tr><td>21</td><td>2.5</td></tr> </tbody> </table>	Minimum joint (F)		14	1	15	1	16	1	17	1	18	1	19	1	20	1.5	21	2.5
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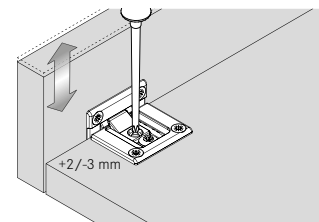
SIDE ADJUSTMENT



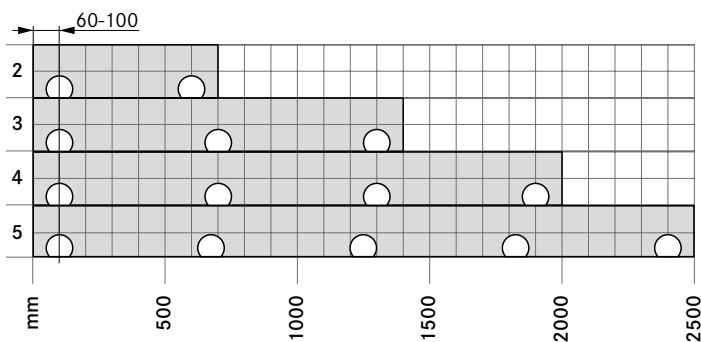
DEPTH ADJUSTMENT



HEIGHT ADJUSTMENT



NUMBER OF HINGES

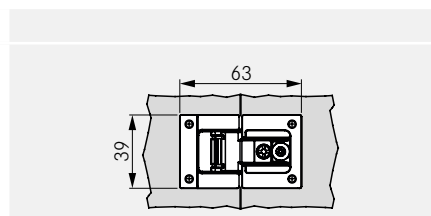
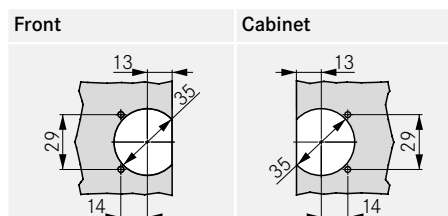


NOTICE

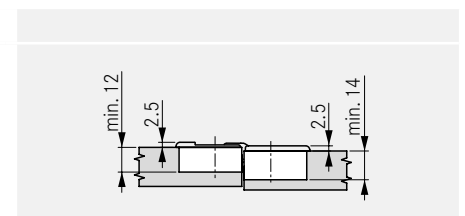
Fixing of flap and base parts with chipboard screws dia. 3.5 x 15 mm (screws are not supplied).

Hinge dimensions and reveal calculation with factory setting.

DRILLING PATTERNS



CUP DIMENSIONS



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
TIOMOS FLAP HINGE

90° hinge (flap thickness from 22 to 30 mm)





- Modern design
- 90° opening angle
- For flap thicknesses up to 30 mm
- Narrow reveals
- High overlay up to 19 mm
- Cup depth 17 mm
- 3-dimensional adjustment
- Very suitable for combination with the Kinvaro D flap stays

ORDER INFORMATION

Door position		Colour	Included in delivery	Material	Screw-on		
Overlay		Nickel	Hinge arm (1x), hinge cup (1x), cover cap (1x)	Zamak	F053 139691		

ADAPTER PLATES

	Designation	Colour	Art. no.
	adapter plate; 1.5 mm	Nickel	F053 139676
	adapter plate; 7 mm	Nickel	F053 139688

PAGE REFERENCES

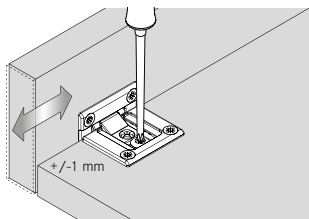
Assembly technology	575				
Assembly aids	580				

PLANNING INFORMATION

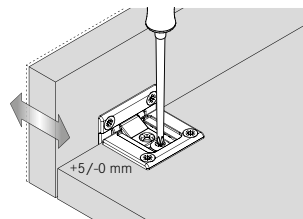
All dimensions in millimetres

Overlay, without adapter plate	Overlay, with adapter plate (1.5 mm, 1x)	Overlay, with adapter plate (1.5 mm, 2x)	Half overlay, with adapter plate (7 mm)																																																																																
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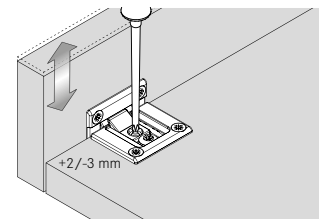
SIDE ADJUSTMENT



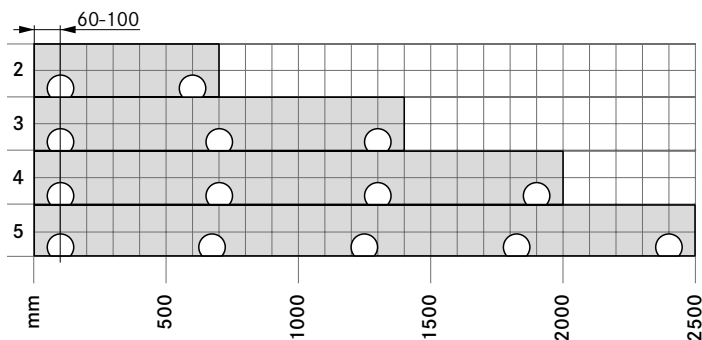
DEPTH ADJUSTMENT



HEIGHT ADJUSTMENT



NUMBER OF HINGES

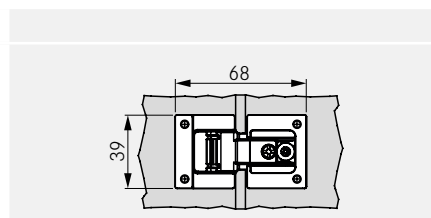
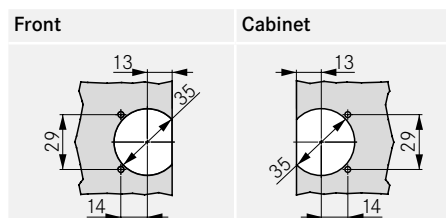


NOTICE

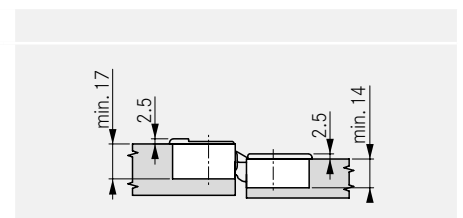
Fixing of flap and base parts with chipboard screws fixing dia. 3.5 x 15 mm (screws are not supplied).

Hinge dimensions and reveal calculation with factory setting.

DRILLING PATTERNS



CUP DIMENSIONS



1

2

3

4



The GRASS shelf supports keep everything firm and stable, no matter whether they are used for solid shelves or shelves with a more delicate design. For as long as the furniture lasts.





Small components. Big impact.

Robust cam lock connectors and shelf supports for increased stability and a long furniture life.

The strong FixoGRASS 9000 and 9200 connector systems keep the sidewalls with worktops, base panels or shelves securely and firmly in shape. Even when they are loaded with heavy goods.



Cabinet Making Accessories for Firm and Stable Support

	Description		Page
	FixoGRASS 9000 shelf support		598
	Eccentric connector FixoGRASS 9200		600

CABINET MAKING ACCESSORIES

FixoGRASS 9000 shelf support



- Connecting shelf support FixoGRASS 9000
- Prevents any „buckling“ of the cabinet side walls
- For heavily loaded shelves
- For shelves with a minimum thickness of 19 mm
- Clip prevents fitting from working loose

SHELF SUPPORT FOR SCREWING ON WITH WOOD SCREWS

Description			Material/surface	Art. no.
<ul style="list-style-type: none"> • Shelf support for screwing on with wood screws (Length 13 mm, dia. 3.5 mm) • Prevents any „buckling“ of the cabinet side walls • For heavily loaded shelves • For shelves with a minimum thickness of 19 mm • Clip prevents fitting from working loose 			Zamak/Zinc plated	F148043028

SHELF SUPPORT FOR SCREWING ON WITH EURO SCREWS

Description			Material/surface	Art. no.
<ul style="list-style-type: none"> • Shelf support for screwing on with Euro screws (Length 13 mm, dia. 6 mm) • Prevents any „buckling“ of the cabinet side walls • For heavily loaded shelves • For shelves with a minimum thickness of 19 mm • Clip prevents fitting from working loose 			Zamak/Zinc plated	F148043036

HOUSING

Description			Material/color	Art. no.
			Plastic/White	F148043056

EXPANDING PIN FOR HOUSING

Description			Material/surface	Art. no.
			Die-cast zinc/ Zinc plated	F148043053

PAGE REFERENCES

CABINET MAKING ACCESSORIES

Eccentric connector FixoGRASS 9200



- For connecting the side walls with worktops, base panels or shelves
- Small but sturdy connection fitting
- A range of steel bolts for different application options
- Easy to install
- Eccentric installation with hex size 5 Allen key

ECCENTRIC

Description			Material/surface	Art. no.
• Eccentric for board thickness 14-16 mm			Zamak/ Nickel plated	F148043000
• Eccentric for board thickness 17-20 mm				F148043007
• Eccentric for board thickness 21-23 mm				F148043015

FIXOGRASS 9200 CORNER BOLT FOR FIXING WITH EURO THREAD


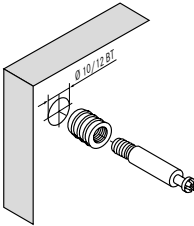

Description			Material/surface	Art. no.
• Corner bolt for fixing with Euro thread dia. 6 mm			Die-cast zinc/ Zinc plated	F148044883

FIXOGRASS 9200 CORNER BOLT FOR FIXING WITH DOWEL DIA. 8 MM/M5


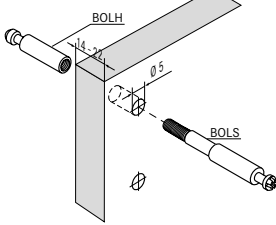

Description			Material/surface	Art. no.
• Corner bolt for fixing with dowel dia. 8 mm/M5			Die-cast zinc/ Zinc plated	F148044748
• Dowel dia.8 mm/M5			Plastic/Plastic	F071085142

PAGE REFERENCES

FIXOGRASS 9200 CORNER BOLT FOR FIXING WITH DOWEL DIA. 10 MM/M6

Description			Material/surface	Art. no.
• Corner bolt for fixing with dowel dia. 10 mm/M6			Die-cast zinc/ Zinc plated	F148043024
• Dowel dia. 10 mm/M6				

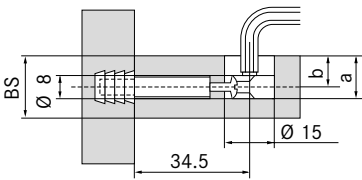
FIXOGRASS 9200 TWIN BOLTS FOR SCREWING IN A ROW OF HOLES

Description			Material/surface	Art. no.
• Twin bolts for fitting in dia. 5 mm holes			Die-cast zinc/ Zinc plated	F148044841
				F148044842

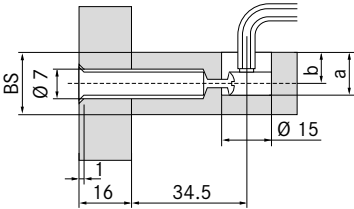
PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions



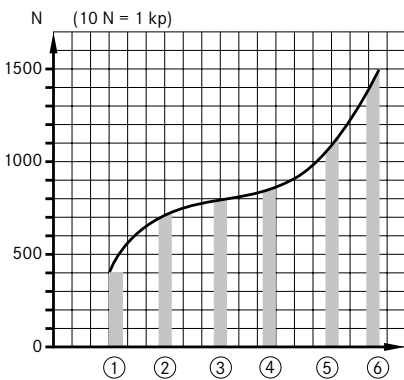
Installation drawing with corner bolt



Installation drawing with countersunk bolt or twin bolt

Plate thickness			
	14 - 16	17 - 20	21 - 23
a	12.5	15.0	16.2
b	8.0	9.5	11.0

LOADING WEIGHT



- 1 Dowel dia. 8/M5 (not glued)
- 2 Dowel dia. 8/M5 (glued)
- 3 Euro screw dia. 6 x 11
- 4 Dowel dia. 10/M6 (not glued)
- 5 Dowel dia. 10/M6 (glued)
- 6 Twin bolts

NOTICE

The maximum load shown in the diagram is intended for reference and is based on the axial pull-out resistance (of the bolt on the cabinet side).

The key factors are the material quality and bore diameter.

In case of doubt, the pull-out resistance must be determined by means of a trial fitting.

LEGEND

- BOLH** Bolt sleeve
- BOLS** Bolt screw
- BS** Base thickness
- BT** Drilling depth

- kp** Kilopond
- N** Newton

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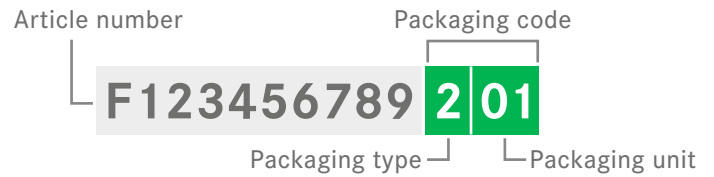
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PACKAGING TYPE

Code	Explanation
1	PE (bag, film or band)
2	Cardboard box
3	Reusable packaging (cardboard)
4	Reusable packaging (different containers)
5	PE (bag, film or band) in cardboard box
6	Cardboard box in cardboard box
7	Cardboard box in various containers
8	PE (bag, film or band) in different containers

PACKAGING UNIT

Code	Units	Code	Units	Code	Units
01	01	27	140	53	2500
02	02	28	150	54	3000
03	04	29	170	55	4000
04	05	30	175	56	5000
05	06	31	180	57	6000
06	08	32	190	58	7000
07	10	33	200	59	8000
08	12	34	225	60	9000
09	14	35	240	61	10000
10	15	36	250	62	15000
11	20	37	275	63	20000
12	24	38	300	64	30000
13	25	39	400	65	16
14	30	40	500	66	21
15	35	41	550	67	22
16	40	42	600	68	18
17	50	43	700	69	160
18	60	44	750	70	45
19	70	45	800	71	9
20	75	46	900	72	36
21	80	47	1000	73	44
22	85	48	1100	74	1250
23	100	49	1200	75	360
24	120	50	1500	99	x
25	125	51	2000		
26	136	52	2200		

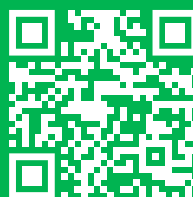
TERMS AND DEFINITIONS

Unit	X pieces/sets in specific packaging
Pieces	X parts of one type (e.g. installation hooks)
Set	X parts of different types (e.g. railing, railing clip [front/back] and cover cap, one each left/right)

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