

Concealed slides for
wooden drawers.

dyna pro.

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.**



The elegant and smooth movement of our slide systems makes opening and closing of your drawers a special experience every time. For as long as the furniture lasts.

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.**

grass.eu



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 Vionaro V8 and Vionaro V13 elegant 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 spaces.**

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.



Transparency is on the rise, and with that, clever furniture concepts that showcase accessories in open drawers. So it's good that there are concealed slide systems for these applications, which move the stored items safely thanks to their excellent running characteristics.

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.

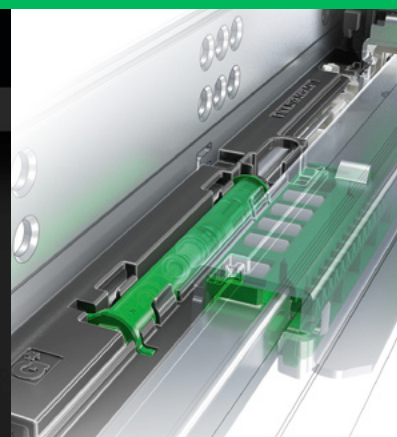
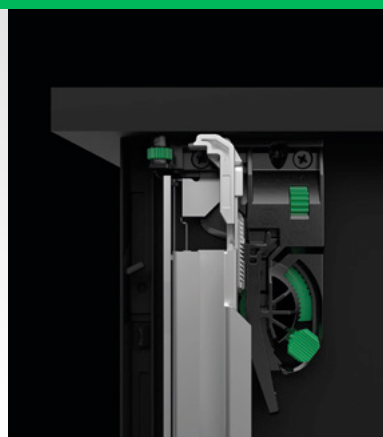
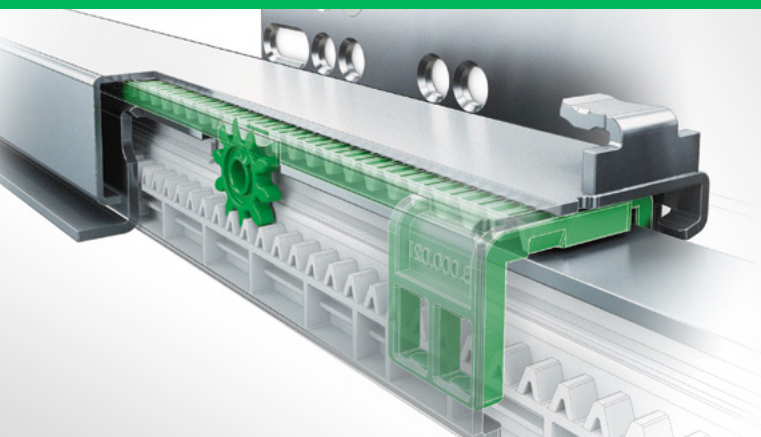
Silent.
Weightless.
Invisible.



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.

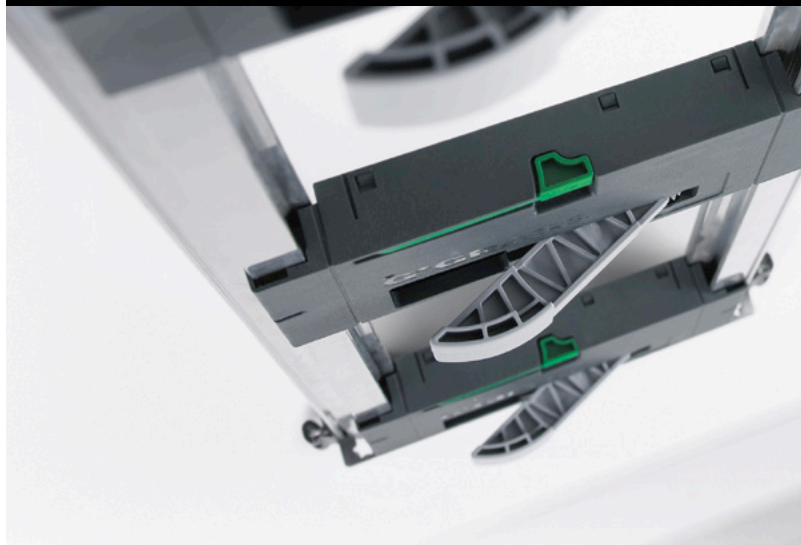
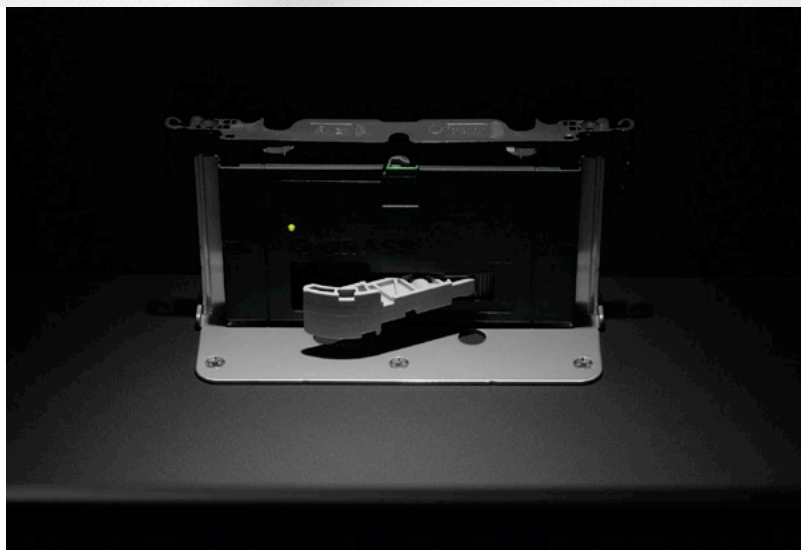
The GRASS comfort systems and Dynapro complement each other to create a harmonious multi-purpose principle. Our aim is to combine the advantages of handle-free opening with the elegance of a damped closing mechanism. The combination of these exceptional functions ensures operating comfort at the highest level.



**Sensomatic.
Electromechanical
opening system.**

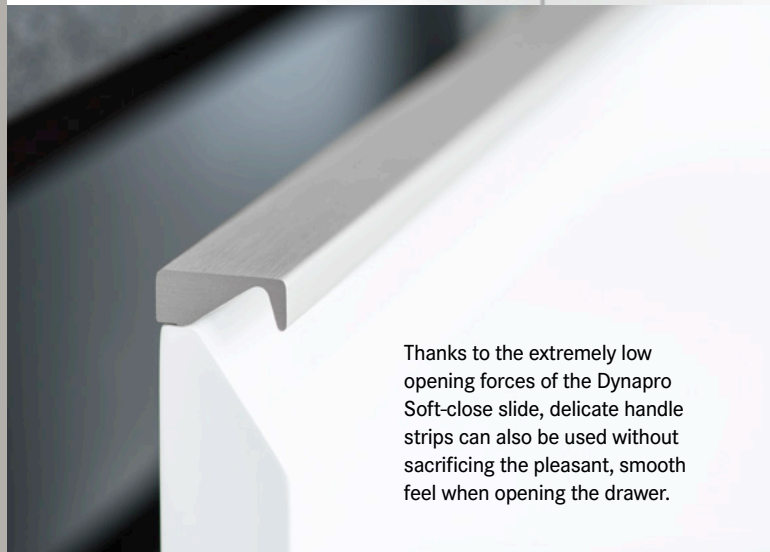
Action. Reaction. Interaction.
Thanks to the large activation zone
and the touch-activated automatic
system, a gentle tap is enough to
set handle-free fronts in motion.
Regardless of the drawer side
height, the electronic opening
system always ensures the same,
aesthetic movements - opening
furniture 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.





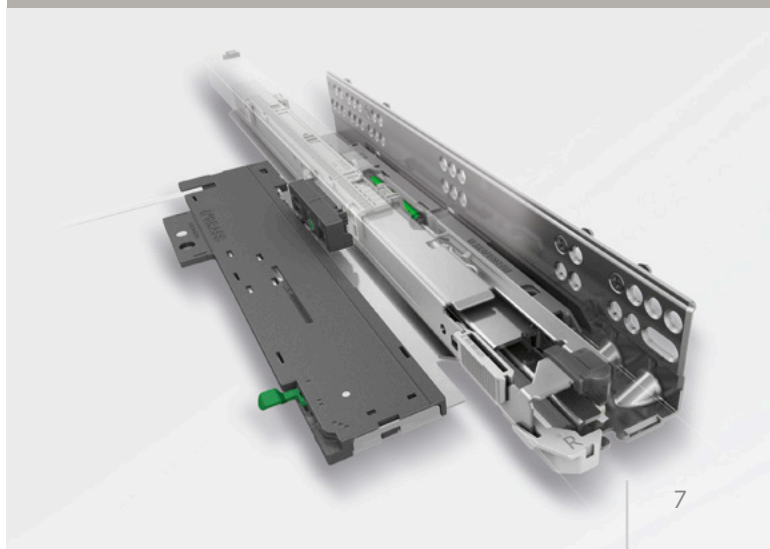
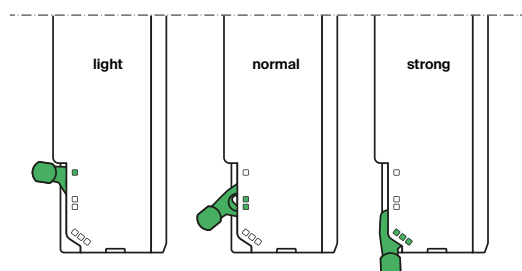
With Soft-close, the overall damping concept from GRASS, each movement becomes an experience. Closing drawers with Soft-close is something special. Soft-close brakes the front softly and gently pulls it in.



Thanks to the extremely low opening forces of the Dynapro Soft-close slide, delicate handle strips can also be used without sacrificing the pleasant, smooth feel when opening the drawer.

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.





Space for your ideas.

Let the range of options of the Dynapro slide system inspire you. Whether it's handle-free surfaces, high fronts, extra-wide drawers, unusual materials or for bottom panel mounting: Dynapro is the ideal partner when it comes to making your ideas reality.



Tavinea Sorto has a unique, functional and aesthetic effect. It dispenses with the superfluous and focuses on its actual purpose: to organise the contents of drawers. Tavinea Sorto can be used in Vionaro drawers or in classic wooden drawers.

Dynapro bottom panel mounting is suitable for a wide range of applications. In addition to the classic pull-out shelf, bottom panel mounting can also be used for additional stability with extra-wide drawers or for moving a double drawer effortlessly. Of course, this type of installation is also compatible with our opening systems.



Dynapro

Slide System

Leading technology for wooden drawers that has been proven millions of times. Invisible functionality for sophisticated kitchen, living room and bathroom areas.



Dynapro

10

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.



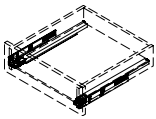
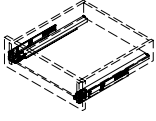
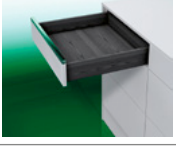
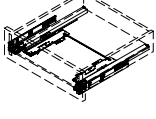
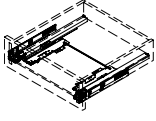
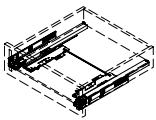
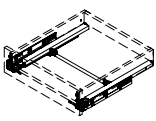
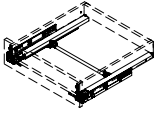
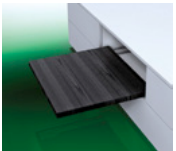
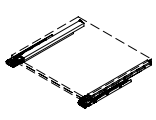
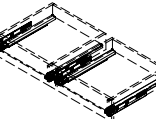
Opening systems

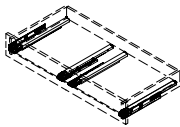
39

Sensomatic, the electro-mechanical opening system for drawers and pot drawers.

Dynapro Slide System

Leading technology for wooden drawers that has been proven millions of times.
Invisible functionality for sophisticated kitchen, living room and bathroom areas

	Description		Page
	Dynapro Soft-close EB 21 Full extension slide 40 kg • Soft-close damping system • 4-dimensional adjustment (side, height, tilt angle and depth adjustment)		12
	Dynapro Soft-close EB 21 Full extension slide 70 kg • Soft-close damping system • 4-dimensional adjustment (side, height, tilt angle and depth adjustment)		14
	Dynapro Tipmatic Soft-close EB 21 Full extension slide 40 kg • Tipmatic Soft-close opening system • 4-dimensional adjustment (side, height, tilt angle and depth adjustment)		16
	Dynapro Tipmatic Soft-close EB 21 Full extension slide 70 kg • Tipmatic Soft-close opening system • 4-dimensional adjustment (side, height, tilt angle and depth adjustment)		18
	Dynapro Tipmatic Soft-close EB 21 Full extension slide 30 kg for short and light drawers • Tipmatic Soft-close opening system for light and narrow drawers • 4-dimensional adjustment (side, height, tilt angle and depth adjustment)		20
	Dynapro Tipmatic EB 21 Full extension slide 40 kg • Tipmatic opening system • 4-dimensional adjustment (side, height, tilt angle and depth adjustment)		22
	Dynapro Tipmatic EB 21 Full extension slide 60 kg • Tipmatic opening system • 4-dimensional adjustment (side, height, tilt angle and depth adjustment)		24
	Dynapro Soft-close EB 21 Base panel mounting and pull-out shelf • Assembly on the cabinet base or shelf • Shelf clip set		26
	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		28

	Description		Page
	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		30
	Dynapro Technical information		32
	Dynapro Assembly aids		36

DYNAPRO SOFT-CLOSE EB 21

Full extension slide 40 kg

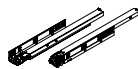


- Excellent running characteristics
- Fully synchronised slide technology
- Soft-close damping system
- Maximum side stability
- Minimum drawer deflection
- Stepless self-locking of the drawer when pushed onto the slide
- Tool-free 2D/3D/4D adjustment facility:
 - Height adjustment: + 3.5 mm
 - Side 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 Left, Right	40 kg Left	40 kg 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	

2

**Dynapro Accessories
Set: Front locking device, Adjustment adapter**



	Mounting material	Art. no.
2D	Chipboard screw (excl.)	F134117193
3D	Chipboard screw (excl.)	F134140568
4D	Chipboard screw (excl.)	F134140569

Front locking device



Adjustable	Left, Right	Left	Right
1D	F134140216	F134140217	F134140218
2D		F134140563	F134140564
3D		F134140566	F134140567

**Adjustment adapter
Piece**

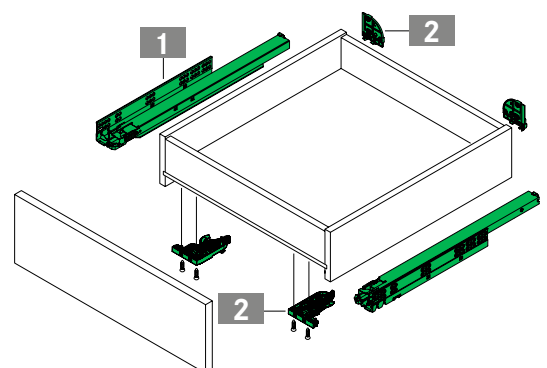


Adjustable	Left	Right	
1D	F134108953	F134108954	

1D depth adjustment for 2D front locking device



Type of assembly	Left, Right	Left	Right
To clip-on	F134108957	F134108958	F134108959



PAGE REFERENCES

Dynapro Tipmatic Soft-close	16	Application examples	28	Sensomatic	39
Dynapro Tipmatic	22	Technical information	32		
Base panel mounting	26	Assembly aids	36		

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions	Drawer	NL	SKL	MET
$LWS = (LWK - 42)^{+0}_{-1.5}$ min. LWS = 138 mm (2D/3D/4D) max. 16 min. 7 min. 38 min. 10 min. 53 max. 13 min. 10 21 LWK	$SKL = NL - 10 \pm 0.5$ min. 12 37 min. 7 MET = NL + 3	250	240	253
		270	260	273
		300	290	303
		320	310	323
		350	340	353
		380	370	383
		400	390	403
	Inset drawer	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
10 min. 35 HV +3.5 mm 3D 4D TV +3.5 mm 7.5 19 41 min. 69 SV ±1.5 mm 23 19 min. 69 2D	10 7 32 3D 4D 32 15 min. 35 NV +4 mm min. 35 2D

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 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		

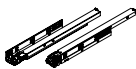
DYNAPRO SOFT-CLOSE EB 21

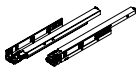
Full extension slide 70 kg



- 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 2D/3D/4D adjustment facility:
 - 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	F130107842	F130107843	
550	F130107844	F130107845	F130107846	
580	F130107847	F130107848	F130107849	
600	F130107850	F130107851	F130107852	
650	F130107853	F130107854	F130107855	

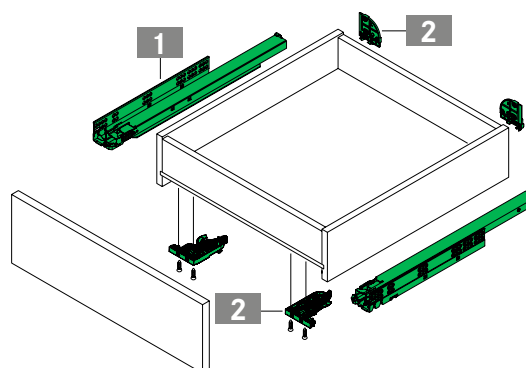
1 Dynapro Full extension slide 50 kg Soft-close EB 21 				
NL	50 kg	50 kg	50 kg	
	Left, Right	Left	Right	
700	F130107856	F130107857	F130107858	
750	F130107859	F130107860	F130107861	

2 Dynapro Accessories Set: Front locking device, Adjustment adapter 		
	Mounting material	Art. no.
2D	Chipboard screw (excl.)	F134117193
3D	Chipboard screw (excl.)	F134140568
4D	Chipboard screw (excl.)	F134140569

Front locking device 			
Adjustable	Left, Right	Left	Right
1D	F134140216	F134140217	F134140218
2D		F134140563	F134140564
3D		F134140566	F134140567

Adjustment adapter Piece 			
Adjustable	Left	Right	
1D	F134108953	F134108954	

1D depth adjustment for 2D front locking device 			
Type of assembly	Left, Right	Left	Right
To clip-on	F134108957	F134108958	F134108959



PAGE REFERENCES

Dynapro Tipmatic Soft-close	16	Application examples	28	Sensomatic	39
Dynapro Tipmatic	22	Technical information	32		
Base panel mounting	26	Assembly aids	36		

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions	Drawer	NL	SKL	MET
$LWS = (LWK - 42) \begin{smallmatrix} +0 \\ -1.5 \end{smallmatrix}$ min. LWS = 138 mm (2D/3D/4D) max. 16 min. 7 min. 38 min. 10 min. 53 max. 13 min. 10 21 LWK	$SKL = NL - 10 \pm 0.5$ min. 12 37 $MET = NL + 3$	250	240	253
		270	260	273
		300	290	303
		320	310	323
		350	340	353
		380	370	383
		400	390	403
	Inset drawer	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
10 min. 35 HV +3.5 mm 3D 4D TV +3.5 mm 7.5 19 41 min. 69 SV ±1.5 mm 23 19 min. 69 2D	10 7 32 3D 4D 32 15 min. 35 NV +4 mm min. 35 2D

Attachment positions for full extension slide	
KV 18 9 23 9 10 12 28 37 450 - 580 600 - 650 700 - 750 38 35 32 3 24 7 22 4 128 32 0 MET = NL + 3 50/70 kg	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 TIPMATIC SOFT-CLOSE EB 21

Full extension slide 40 kg



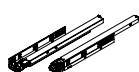
- Mechanical opening system for handle-free fronts
- Combines Tipmatic function with Soft-close damper
- Tool-free installation of the Tipmatic Soft-close unit
- Can be used with Dynapro full extension slide 40/70 kg Soft-close
- 3-stage adjustment of the opening force
- Large activation zone due to synchronisation rod
- Tool-free 4D adjustment option:
 - 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 Left, Right	40 kg Left	40 kg 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.)	F134140568

3 Dynapro Tipmatic Soft-close Set: Activator, Unit



	Type of assembly	Art. no.
	To clip-on	F134141362

4 Synchronisation rod for cutting to length Piece



KB	Length of synchronisation rod	Art. no.
1200	952	F134109410

Tipmatic Soft-close individual components Set: Left, Right



	Product type	Art. no.
	Activator	F134109325
	Unit	F134141363

Front locking device

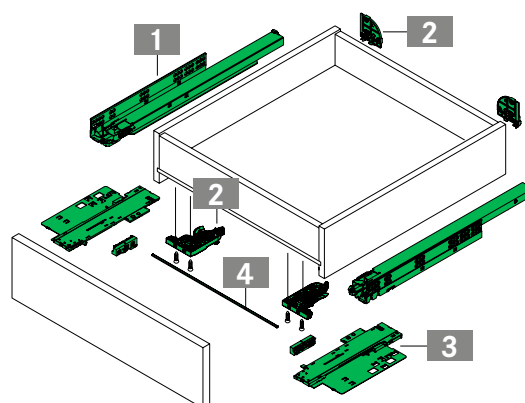


Adjustable	Left, Right	Left	Right
1D	F134140216	F134140217	F134140218
2D		F134140563	F134140564

Adjustment adapter Piece



Adjustable	Left	Right	
1D	F134108953	F134108954	

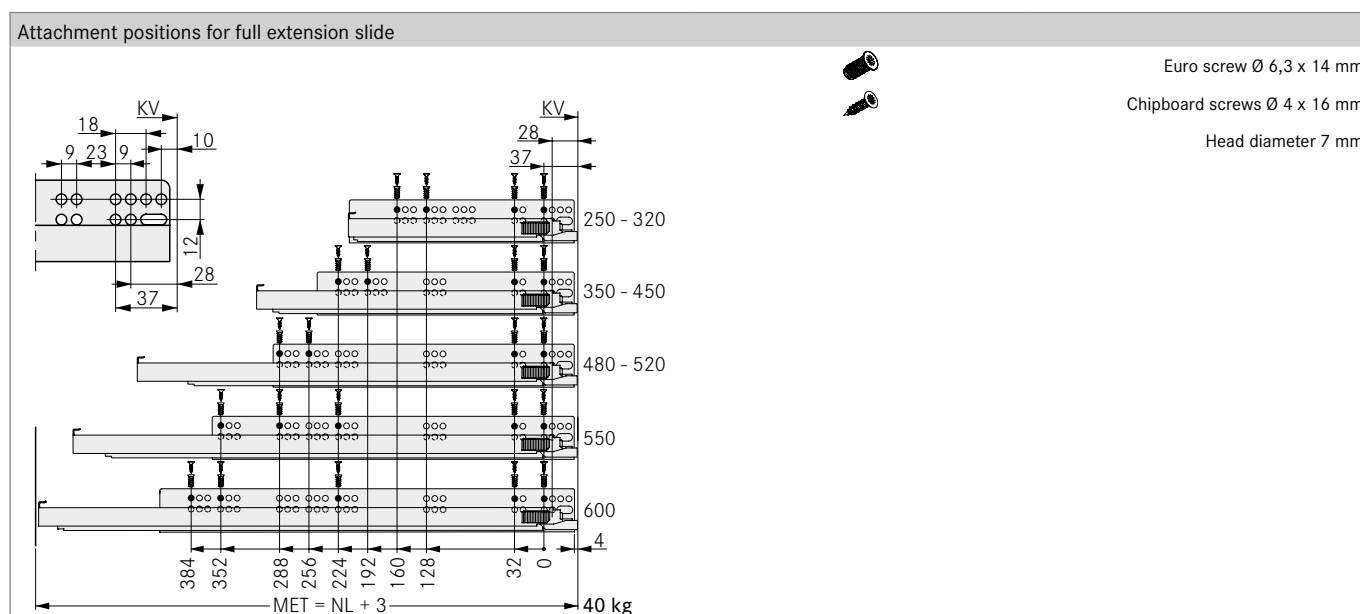
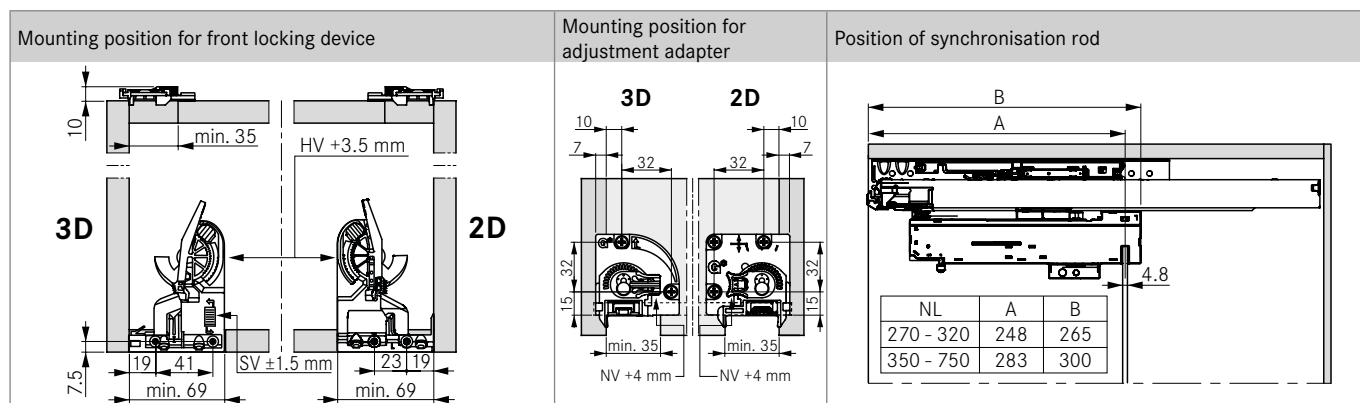
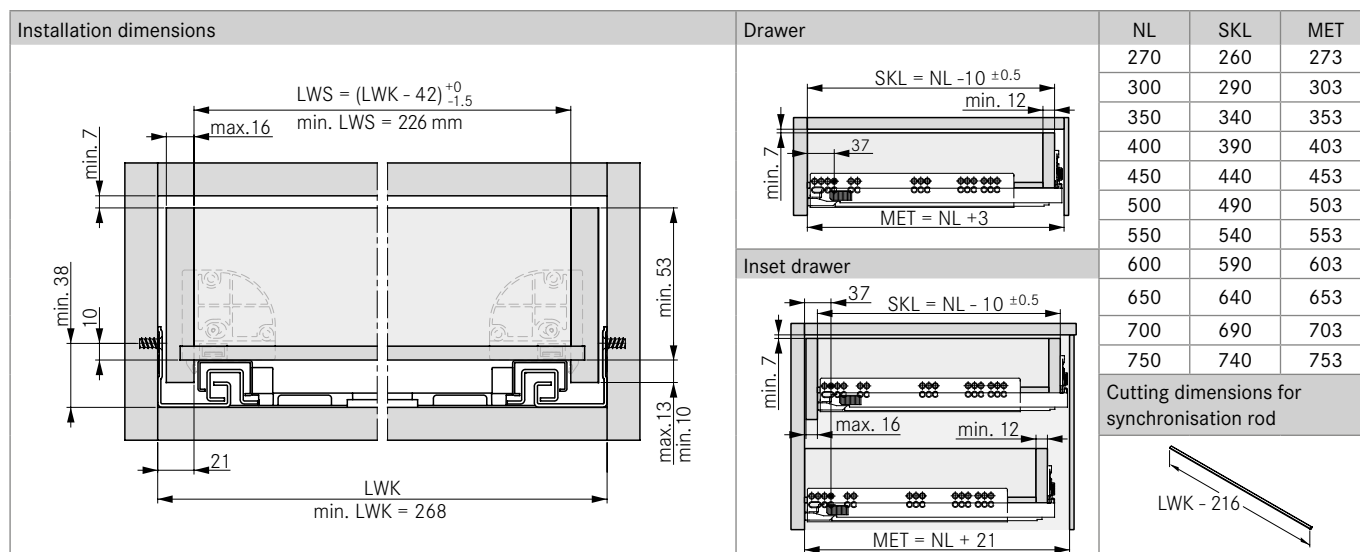


PAGE REFERENCES

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Dynapro Tipmatic	22	Technical information	32		
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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 TIPMATIC SOFT-CLOSE EB 21

Full extension slide 70 kg



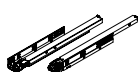
- Mechanical opening system for handle-free fronts
- Combines Tipmatic function with Soft-close damper
- Tool-free installation of the Tipmatic Soft-close unit
- Can be used with Dynapro full extension slide 40/70 kg Soft-close
- 3-stage adjustment of the opening force
- Large activation zone due to synchronisation rod
- Tool-free 4D adjustment option:
 - 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	F130107842	F130107843	
550	F130107844	F130107845	F130107846	
580	F130107847	F130107848	F130107849	
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.)	F134140568

3 Dynapro Tipmatic Soft-close Set: Activator, Unit



	Type of assembly	Art. no.
	To clip-on	F134141362

4 Synchronisation rod for cutting to length Piece



KB	Length of synchronisation rod	Art. no.
1200	952	F134109410

Tipmatic Soft-close individual components Set: Left, Right



	Product type	Art. no.
	Activator	F134109325
	Unit	F134141363

Front locking device

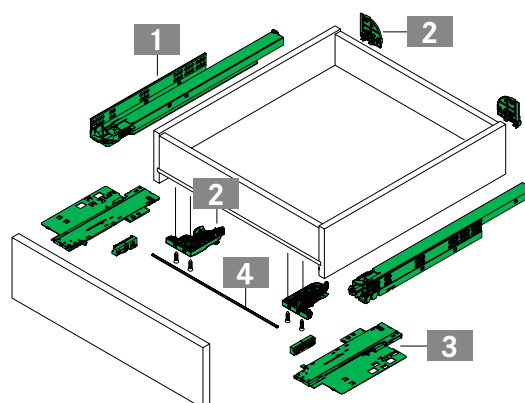


Adjustable	Left, Right	Left	Right
1D	F134140216	F134140217	F134140218
2D		F134140563	F134140564

Adjustment adapter Piece



Adjustable	Left	Right	
1D	F134108953	F134108954	

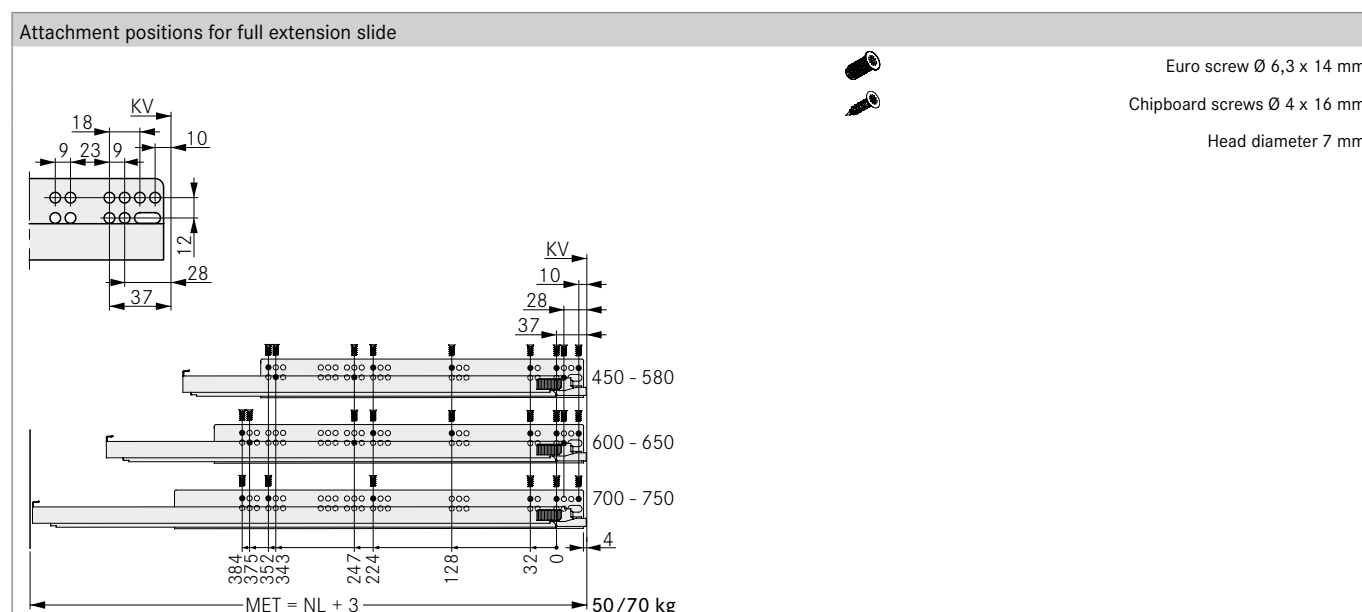
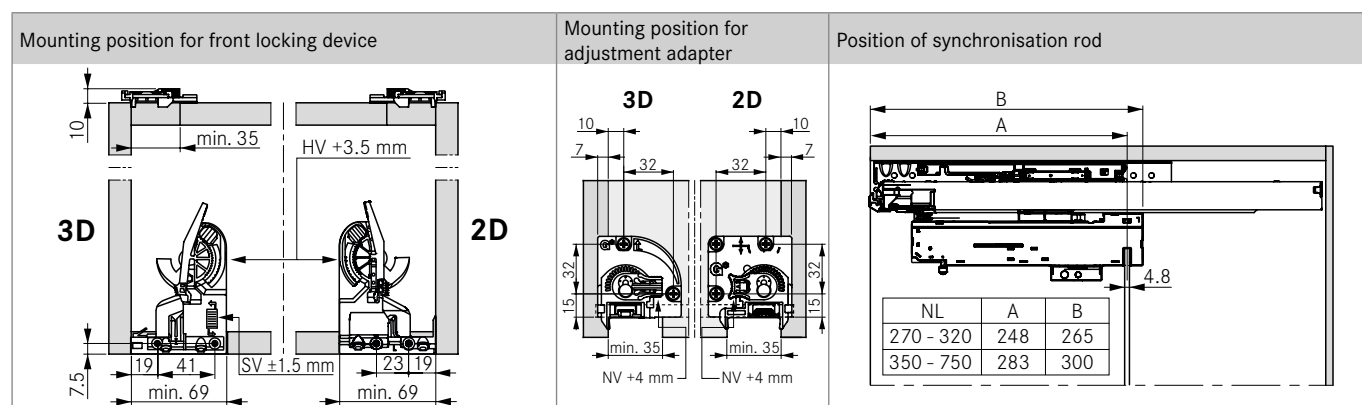
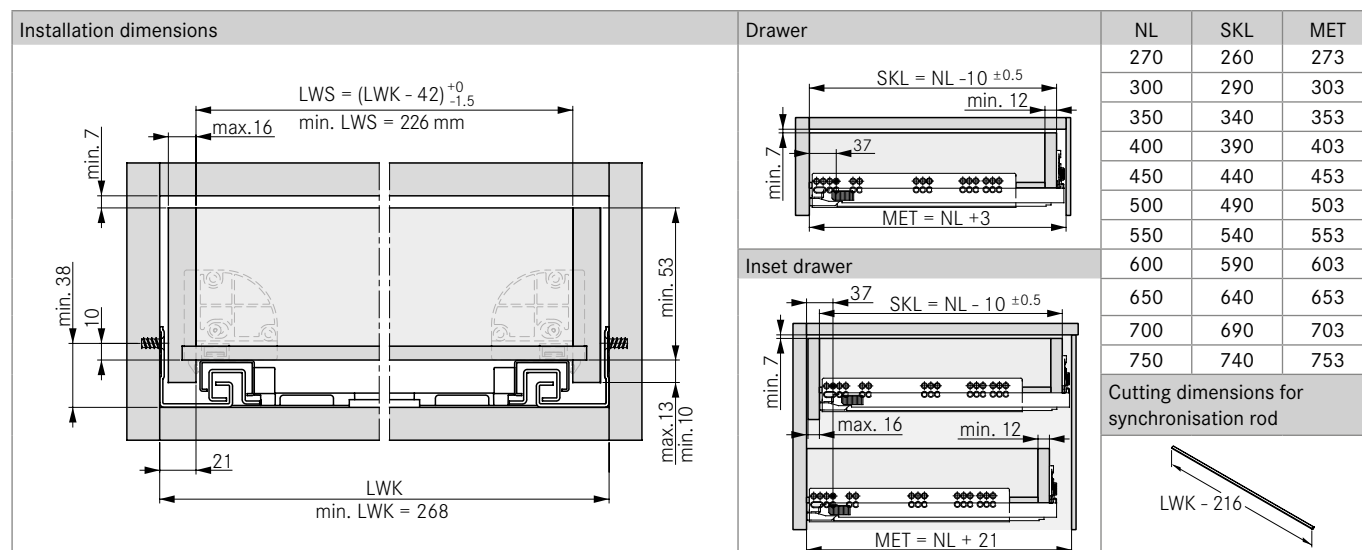


PAGE REFERENCES

Dynapro Soft-close	12	Application examples	28	Sensomatic	39
Dynapro Tipmatic	22	Technical information	32		
Base panel mounting	26	Assembly aids	36		

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 TIPMATIC SOFT-CLOSE EB 21

Full extension slide 30 kg for short and light drawers



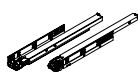
- Mechanical opening system with low closing force for light and narrow drawers with handle-free fronts
- Combines Tipmatic function with Soft-close damper
- Tool-free installation of the Tipmatic Soft-close unit
- Can be used with Dynapro full extension slide 30 kg Soft-close
- 3-stage adjustment of the opening force
- Large activation zone due to synchronisation rod
- Tool-free 4D adjustment option:
 - 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		

2 Dynapro Accessories Set: Front locking device, Adjustment adapter



	Mounting material	Art. no.
2D	Chipboard screw (excl.)	F134117193
3D	Chipboard screw (excl.)	F134140568

3 Dynapro Tipmatic Soft-close for short and light drawers Set: Activator, Unit



	Type of assembly	Art. no.
	To clip-on	F134141364

4 Synchronisation rod for cutting to length Piece



KB	Length of synchronisation rod	Art. no.
1200	952	F134109410

Dynapro Tipmatic Soft-close Individual components Set: Left, Right



	Product type	Art. no.
	Activator	F134109325
	Unit	F134141365

Front locking device

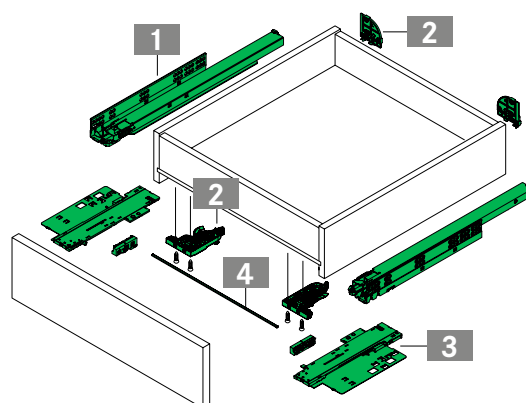


Adjustable	Left, Right	Left	Right
1D	F134140216	F134140217	F134140218
2D		F134140563	F134140564

Adjustment adapter Piece



Adjustable	Left	Right	
1D	F134108953	F134108954	

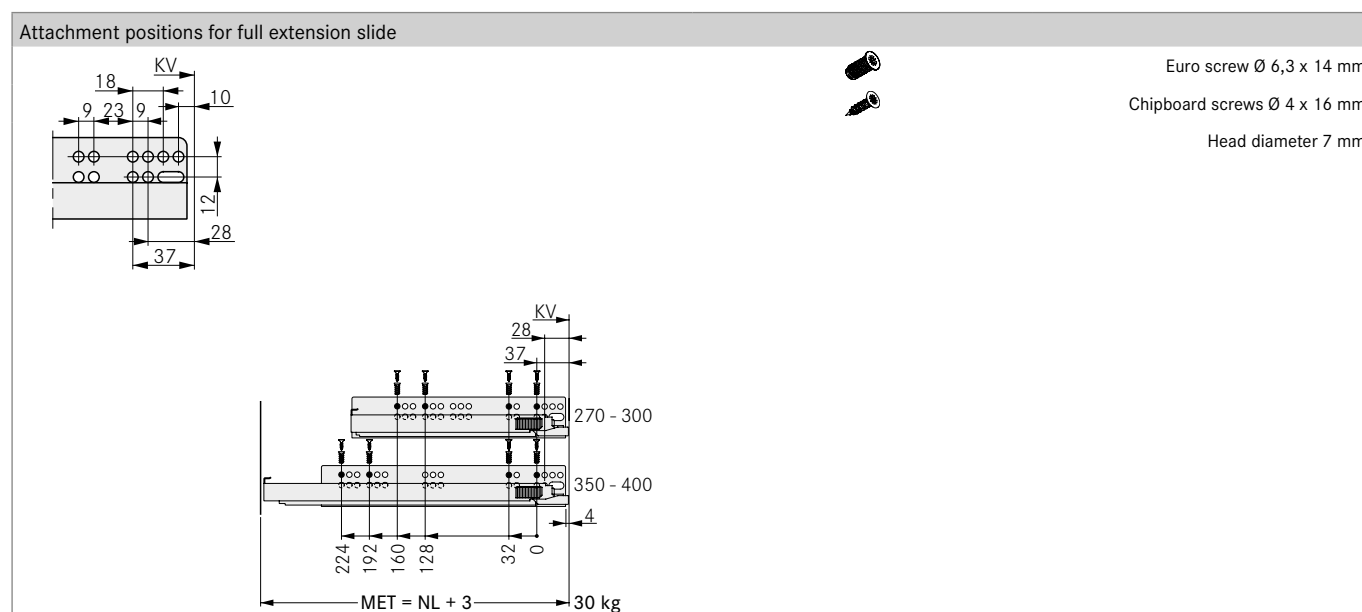
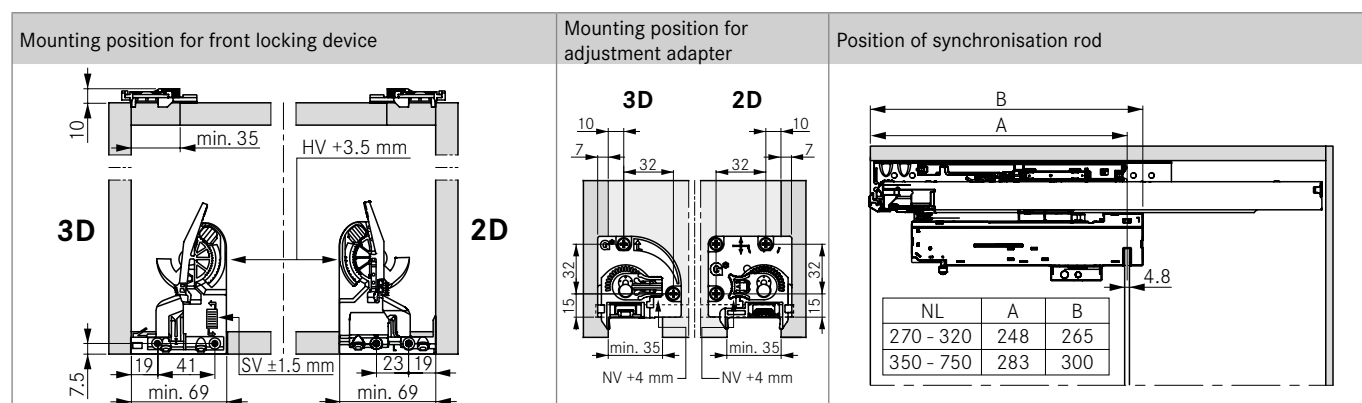
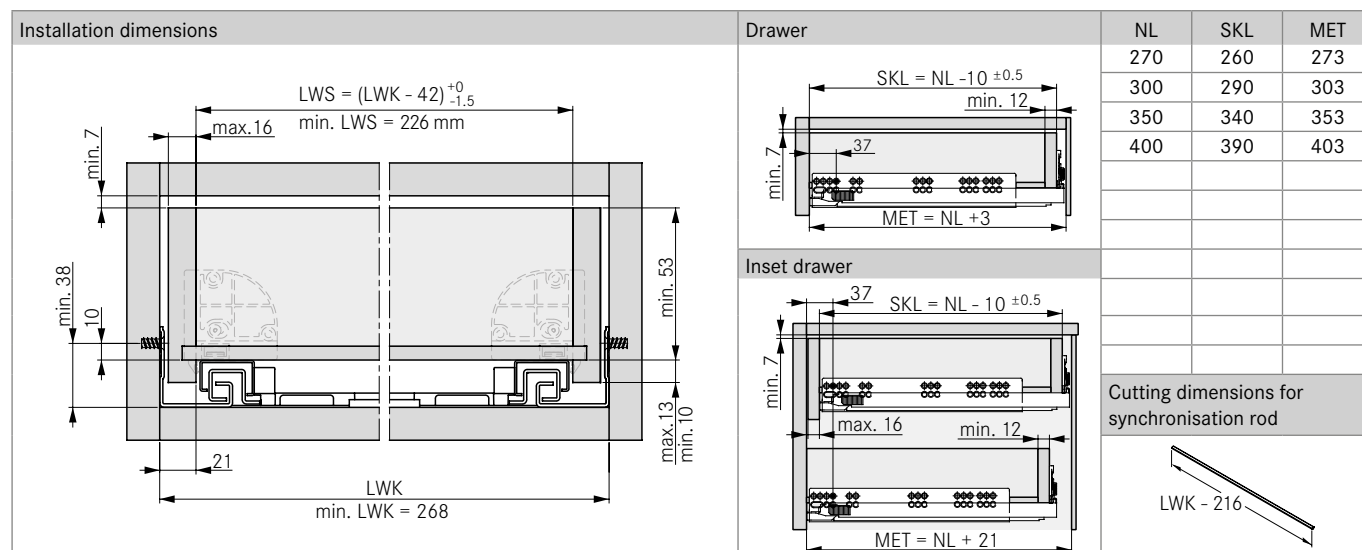


PAGE REFERENCES

Dynapro Soft-close	12	Application examples	28	Sensomatic	39
Dynapro Tipmatic	22	Technical information	32		
Base panel mounting	26	Assembly aids	36		

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		

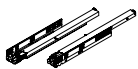
DYNAPRO TIPMATIC EB 21

Full extension slide 40 kg

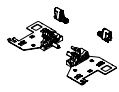


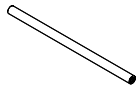
- Full extension slide Tipmatic for handle-free fronts
- Tipmatic opening unit integrated into the slide
- Excellent running characteristics
- Fully synchronised slide technology
- Maximum side stability
- Minimum drawer deflection
- 4D adjustment option:
 - Height adjustment: + 3.5 mm
 - Side adjustment ± 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				
				
NL	40 kg			
	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			

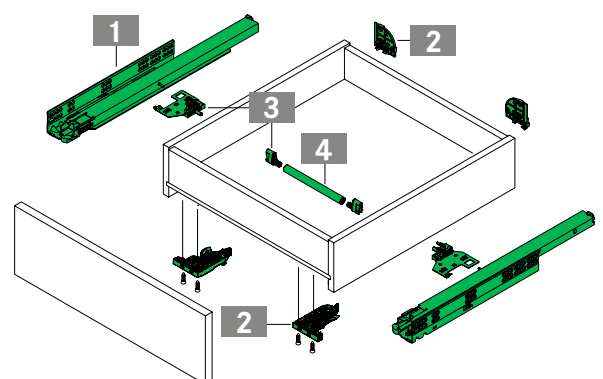
2 Dynapro Accessories Set: Front locking device, Adjustment adapter		
		
	Mounting material	Art. no.
2D	Chipboard screw (excl.)	F134117193
3D	Chipboard screw (excl.)	F134140568

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			
			
Adjustable	Left, Right	Left	Right
1D	F134140216	F134140217	F134140218
2D		F134140563	F134140564

Adjustment adapter Piece			
			
Adjustable	Left	Right	
1D	F134108953	F134108954	



PAGE REFERENCES

Dynapro Soft-close	12	Application examples	28	Sensomatic	39
Dynapro Tipmatic Soft-close	16	Technical information	32		
Base panel mounting	26	Assembly aids	36		

DYNAPRO TIPMATIC EB 21

Full extension slide 60 kg



- Full extension slide Tipmatic for handle-free fronts
- Tipmatic opening unit integrated into the slide
- Excellent running characteristics
- Fully synchronised slide technology
- Maximum side stability
- Minimum drawer deflection
- 4D adjustment option:
 - 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				
NL	60 kg			
	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				
NL	50 kg			
	Left, Right			
700	F130117534			
750	F130117535			

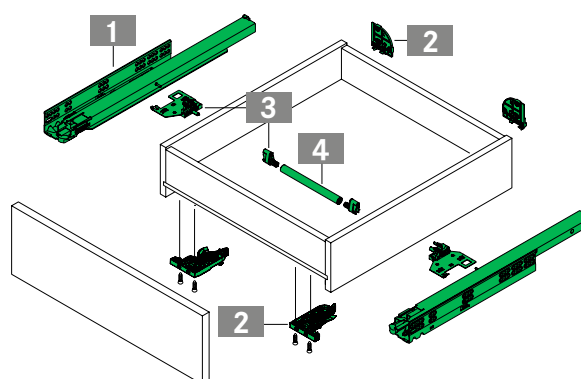
2 Dynapro Accessories Set: Front locking device, Adjustment adapter				
	Mounting material		Art. no.	
2D	Chipboard screw (excl.)		F134117193	
3D	Chipboard screw (excl.)		F134140568	

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					
Adjustable	Left, Right	Left	Right		
1D	F134140216	F134140217	F134140218		
2D		F134140563	F134140564		

Adjustment adapter Piece			
Adjustable	Left	Right	
1D	F134108953	F134108954	



PAGE REFERENCES

Dynapro Soft-close	12	Application examples	28	Sensomatic	39
Dynapro Tipmatic Soft-close	16	Technical information	32		
Base panel mounting	26	Assembly aids	36		

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions	Drawer	NL	SKL	MET
$LWS = (LWK - 42) \begin{smallmatrix} +0 \\ -1.5 \end{smallmatrix}$ min. LWS = 138 mm (2D/3D) max. 16 min. 7 min. 38 min. 10 min. 53 max. 13 min. 10 21 LWK	$SKL - NL - 10 \begin{smallmatrix} +0.5 \\ -0.5 \end{smallmatrix}$ min. 4.5 $\begin{smallmatrix} +1.5 \\ -1.5 \end{smallmatrix}$ min. 12 min. 7 37 $MET = NL + 3$	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
	Inset drawer	700	690	703
		750	740	753
Cutting dimensions for synchronisation rod				
LWK - 187				

Mounting position for front locking device	Mounting position for adjustment adapter	Position of synchronisation rod						
10 min. 35 HV +3.5 mm 3D 2D 7.5 19 41 SV ±1.5 mm 23 19 min. 69	3D 2D 10 32 15 32 min. 35 NV +4 mm	A 14 <table><tr><th>NL</th><th>A</th></tr><tr><td>250 - 320</td><td>205</td></tr><tr><td>350 - 750</td><td>241</td></tr></table>	NL	A	250 - 320	205	350 - 750	241
NL	A							
250 - 320	205							
350 - 750	241							

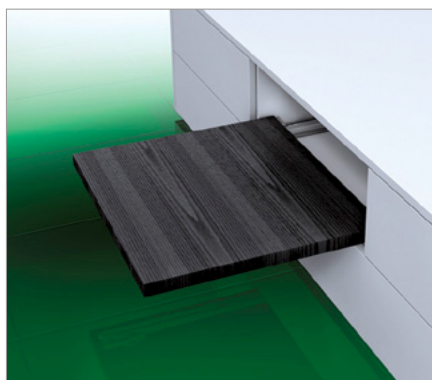
Attachment positions for full extension slide	
KV 18 9 23 9 10 12 28 37 450 500 - 580 600 - 650 700 - 750 384 352 288 256 224 MET = NL + 3 32 0 4 50/60 kg	Euro screw Ø 6,3 x 14 mm Chipboard screws Ø 4 x 16 mm Head diameter 7 mm

LEGEND

HV	Height adjustment	LWK	Inside cabinet width	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 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



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			

2 Dynapro 1D set Set: Front locking device, Shelf holder



	Mounting material	Art. no.
1D	Chipboard screw (excl.)	F134107411

Front locking device



Adjustable	Left, Right	Left	Right
1D	F134140216	F134140217	F134140218

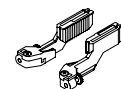
Shelf clip

Piece: Left or right back

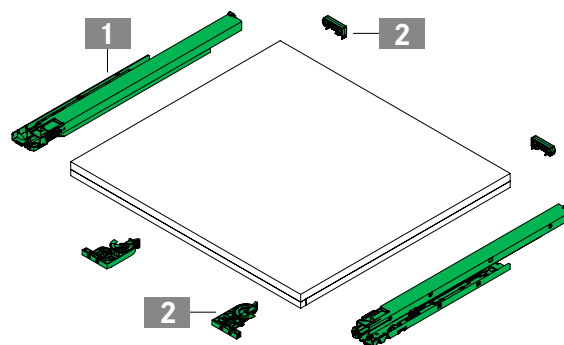


	Mounting material	Art. no.
	Chipboard screw (excl.)	F134101305

Depth adjustment (1D)



Type of assembly	Left, Right	Left	Right
To clip on	F134101313	F134101667	F134101668



PAGE REFERENCES

Dynapro Soft-close	12	Application examples	28	Sensomatic	39
Dynapro Tipmatic Soft-close	16	Technical information	32		
Dynapro Tipmatic	22	Assembly aids	36		

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions $LWTB = (LWK - 42) \begin{smallmatrix} +0 \\ -1.5 \end{smallmatrix}$ min. LWTB = 138 mm max. 16 27.5 21 16 min. 16 max. 13 min. 10 LWK MET = NL + 11 + X	Pull-out shelf $TBL = NL - 10 + X$ X (max. 16) 5 30+X MET = NL + 11 + X
Mounting position for front locking device 10 12 HV + 3.5 mm X (max. 16) 7.5 19 23 min. 69	Installation dimensions for shelf support 32 4 8
Attachment positions for base panel mounting KV 30+X 8+X 16 400 - 500 550 352 332 284 264 MET = NL + 11 + X 20 0 22 40 kg Chipboard screws $\varnothing$ 4 x 16 mm Head diameter 7 mm	

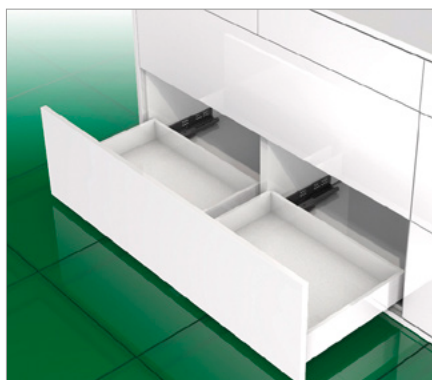
LEGEND

HV Height adjustment
KV Front edge of cabinet
LWK Inside cabinet width
LWTB Clear shelf width

MET Minimum installation depth
NL Nominal length
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

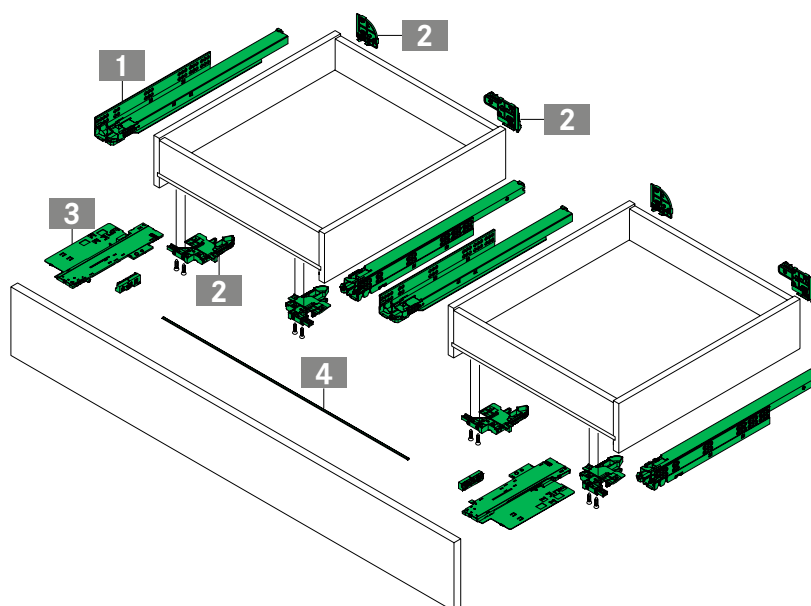
ORDER INFORMATION

1 Dynapro Full extension slide 40 kg Soft-close EB 21				
NL	40 kg Left, Right	40 kg Left	40 kg 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	F134141362

4 Synchronisation rod for cutting to length Piece		
KB	Length of synchronisation rod	Art. no.
1200	952	F134109410



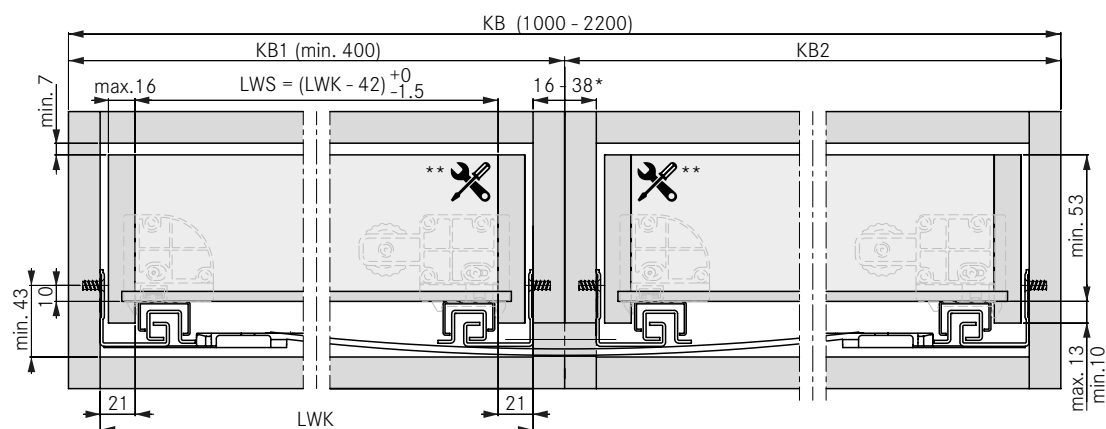
PAGE REFERENCES

Dynapro Soft-close	12	Base panel mounting	26	Sensomatic	39
Dynapro Tipmatic Soft-close	16	Technical information	32		
Dynapro Tipmatic	22	Assembly aids	36		

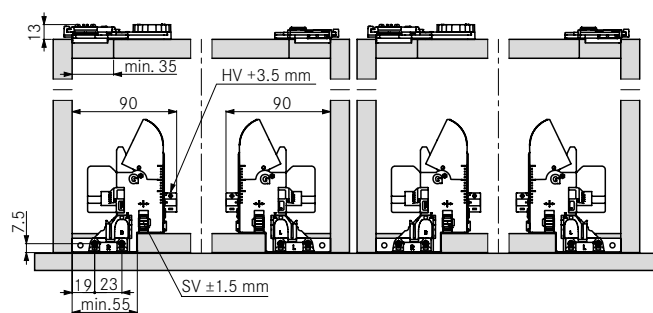
PLANNING INFORMATION

All dimensions in millimetres

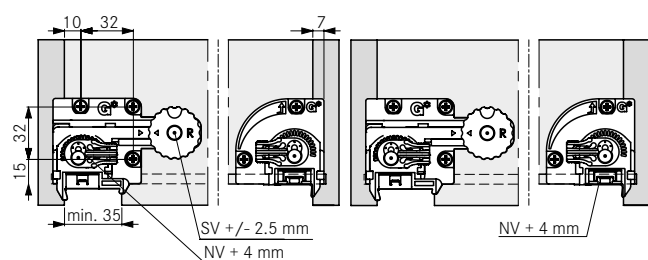
Installation dimensions



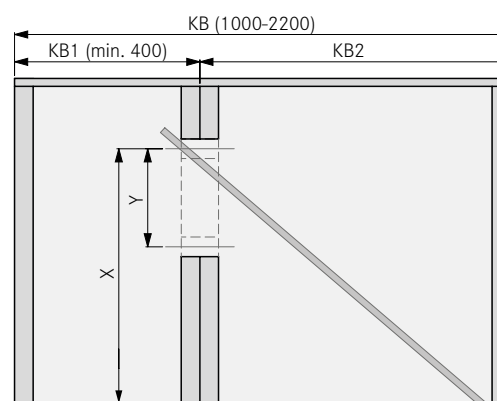
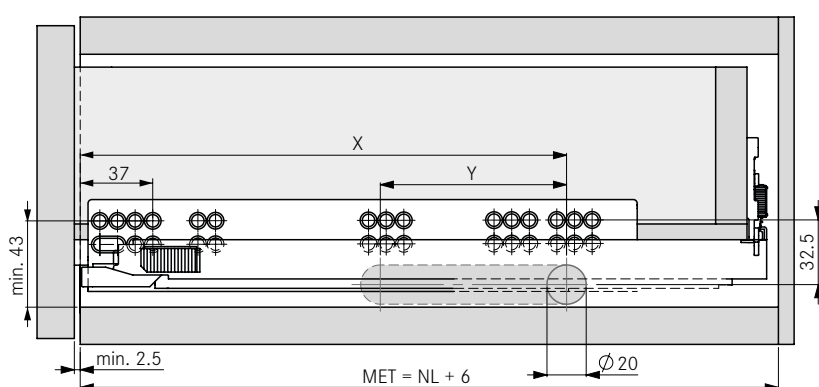
Mounting position for front locking device



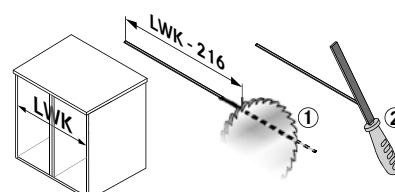
Mounting position for adjustment adapter



Hole position/cutting dimensions for synchronisation rod



NL	X	Y	MET
270 - 320	248	75	NL + 6
350 - 400	283	75	NL + 6
420 - 600	283	Ø 20	NL + 6



LEGEND

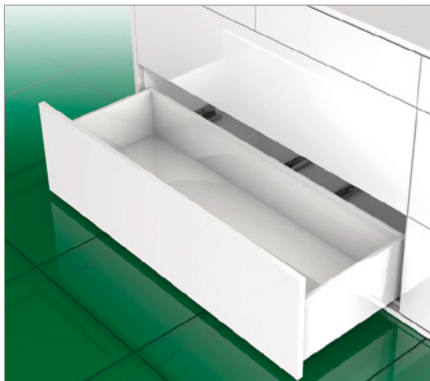
HV Height adjustment
KB Cabinet width
L Length
LWK Inside cabinet width

LWS Inside drawer width
MET Minimum installation depth
NL Nominal length
NV Tilt adjustment

SV Lateral adjustment

APPLICATION EXAMPLE

Extra-wide drawer

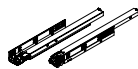


- Extra-wide drawer for cabinet without additional centre wall
- Modern furniture design with large fronts and no lost storage space
- Ideal for living room storage systems or bed drawers
- Made possible thanks to the combination of standard Dynapro slides with Dynapro for base panel mounting

ORDER INFORMATION

1

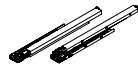
Dynapro Full extension slide 40 kg Soft-close EB 21



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

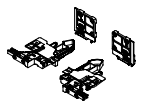


NL	40 kg	40 kg	40 kg	
	Left, Right	Left	Right	
400	F130107878	F130107879	F130107880	
450	F130107884	F130107885	F130107886	
500	F130107890	F130107891	F130107892	
550	F130107893			

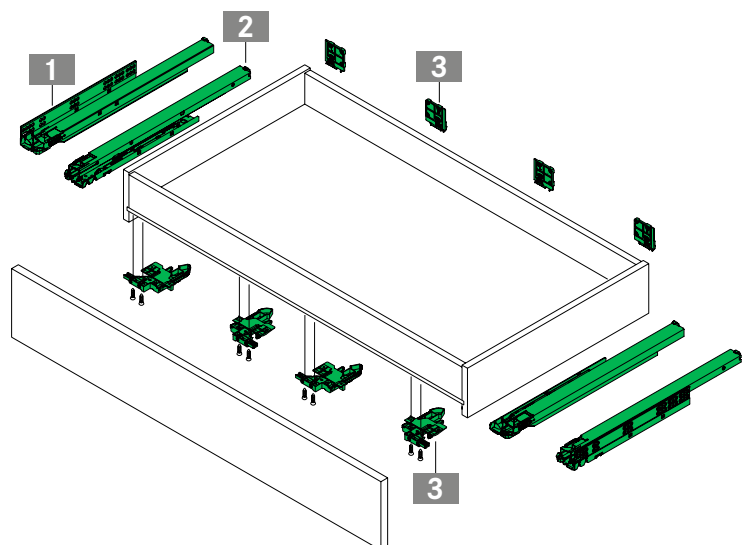
3

Dynapro Accessories

Set: Front locking device, Adjustment adapter



	Mounting material	Art. no.
3D	Chipboard screw (excl.)	F134125074

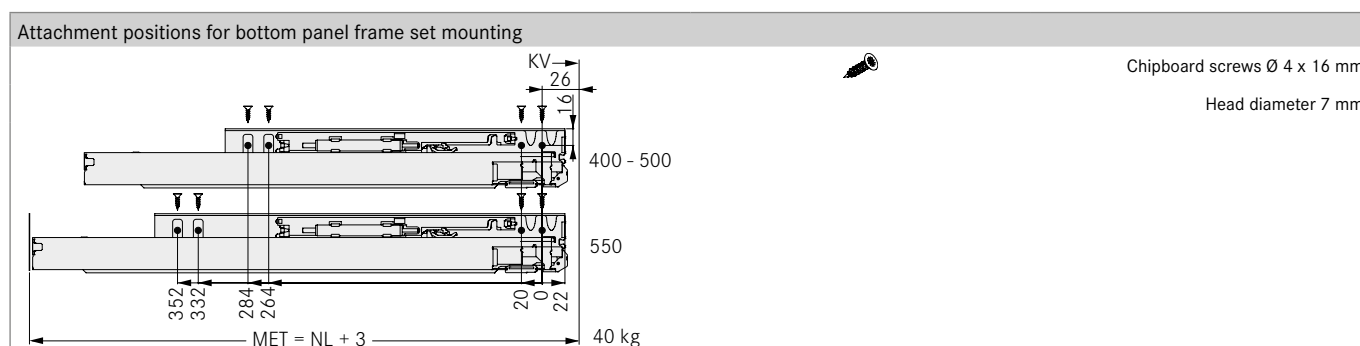
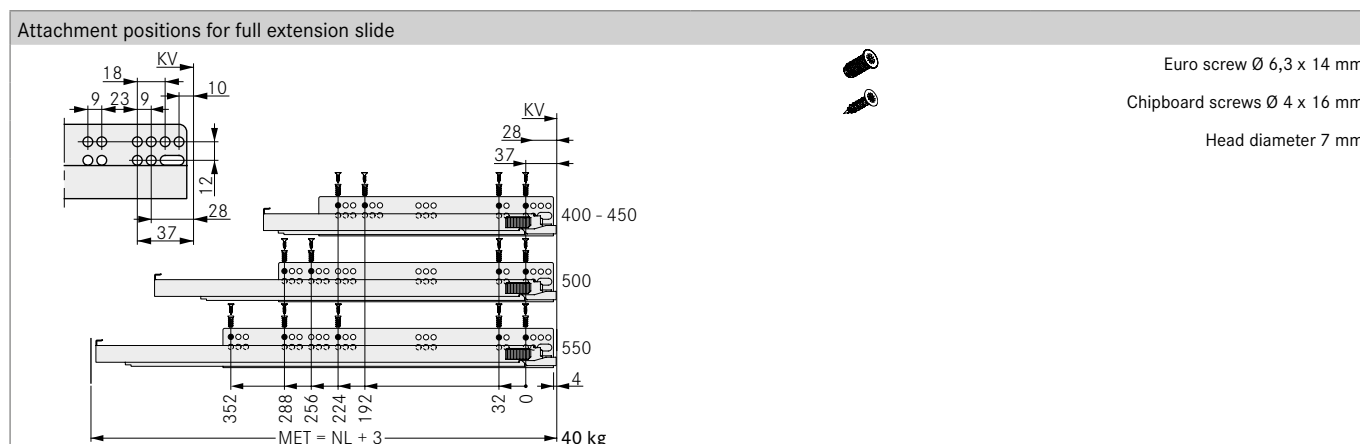
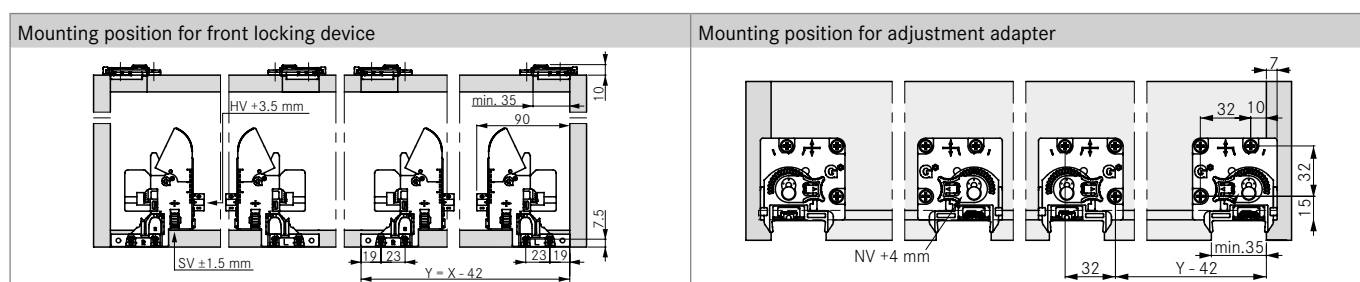
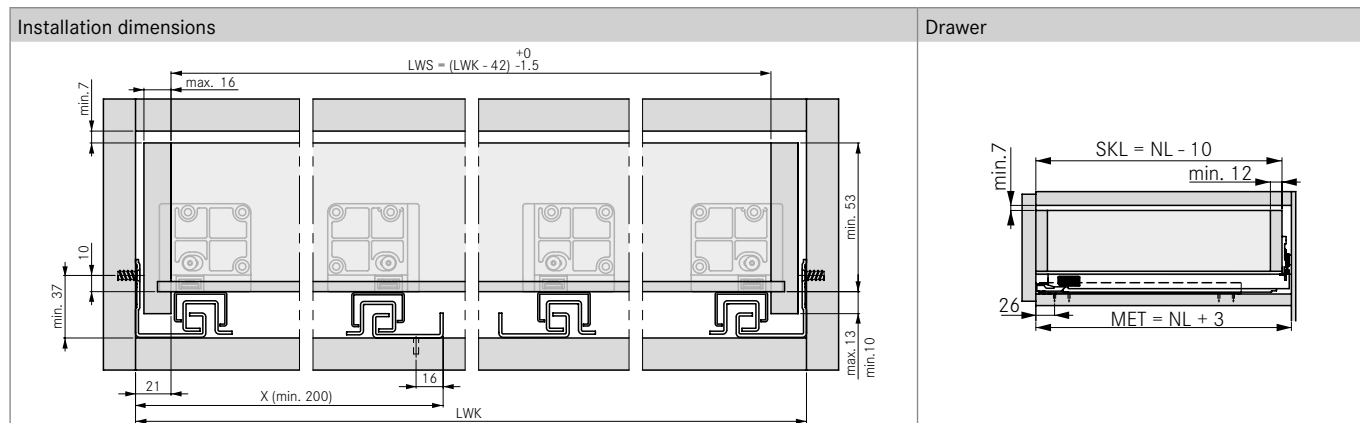


PAGE REFERENCES

Dynapro Soft-close	12	Base panel mounting	26	Sensomatic	39
Dynapro Tipmatic Soft-close	16	Technical information	32		
Dynapro Tipmatic	22	Assembly aids	36		

PLANNING INFORMATION

All dimensions in millimetres



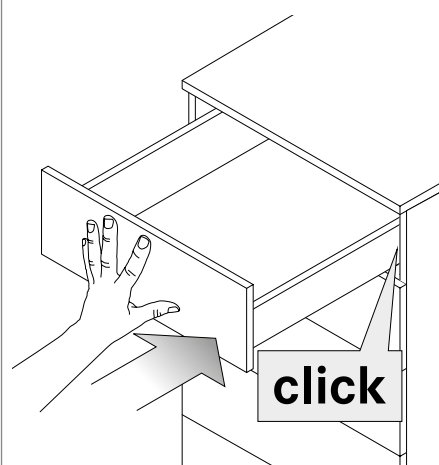
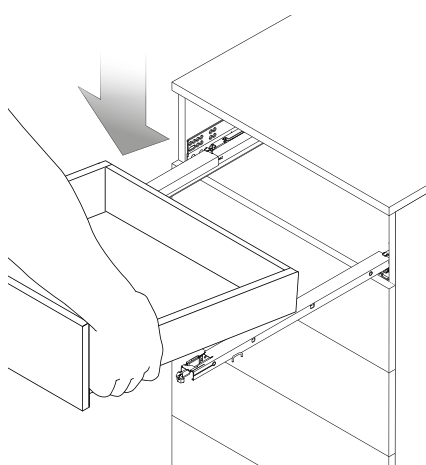
LEGEND

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		

PLANNING INFORMATION

Inserting the drawer

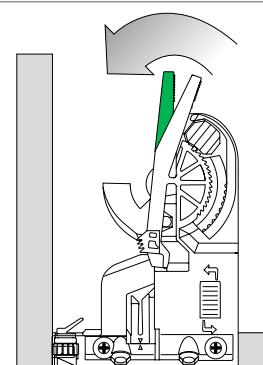
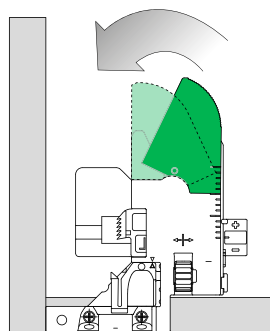
Place the drawer on the extended slides and slide in until it audibly engages.



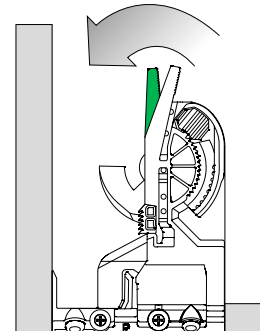
Removing the drawer

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:

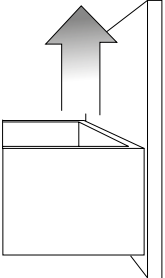
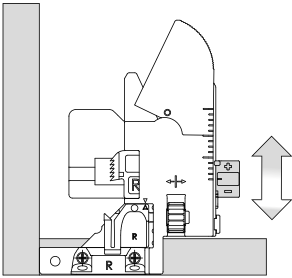
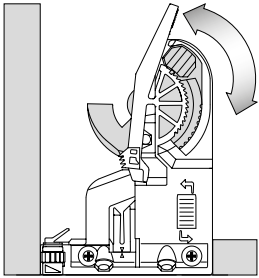
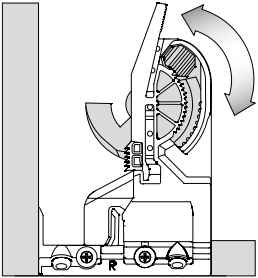
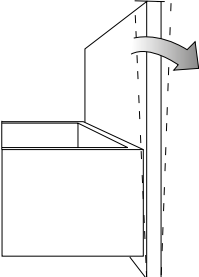
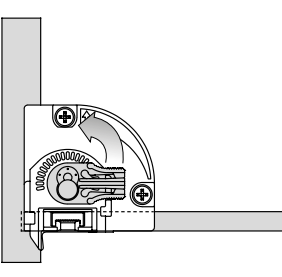
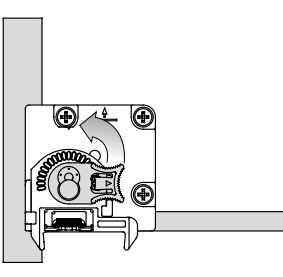
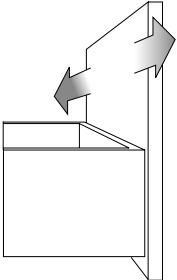
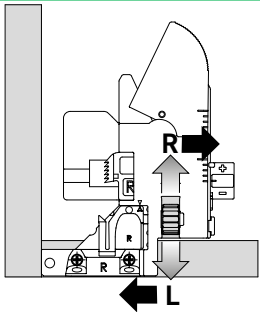
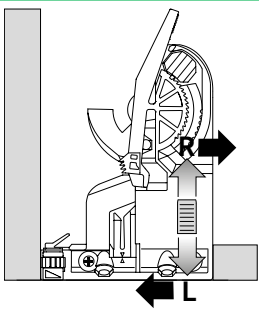
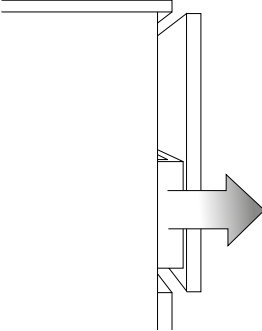
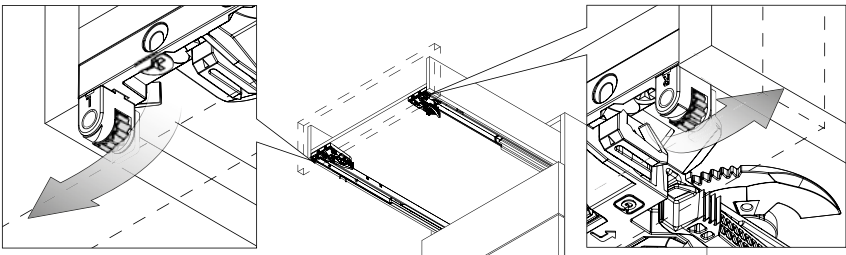
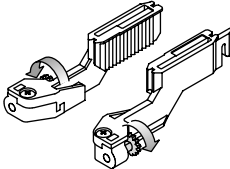
The screw recommendations are intended for reference. Screw head dia. 7 mm.

Assemblers must ensure that the substrate material is thick enough.

PAGE REFERENCES

Dynapro Soft-close	12	Base panel mounting	26	Sensomatic	39
Dynapro Tipmatic Soft-close	16	Application examples	28		
Dynapro Tipmatic	22	Assembly aids	36		

ADJUSTMENT

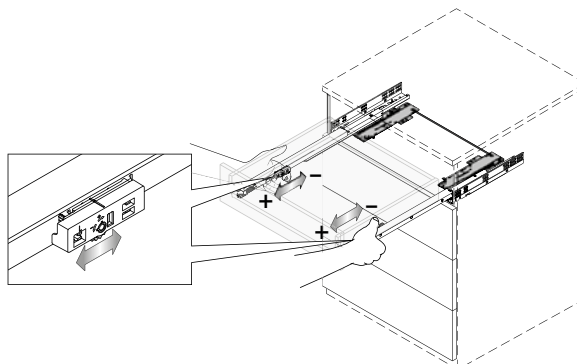
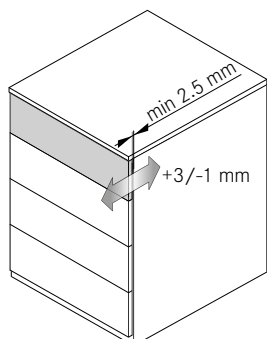
Height adjustment (max. +3.5 mm)	Dynapro 3D/4D		Dynapro 2D
			
Front tilt angle adjustment (max. +4.0 mm)	Dynapro 2D/3D/4D		
			
Side adjustment (max. ± 1.5 mm)	Dynapro 3D/4D		
			
Depth adjustment (max. +3.5 mm)	Dynapro 4D		Dynapro 2D
			
			

LEGEND

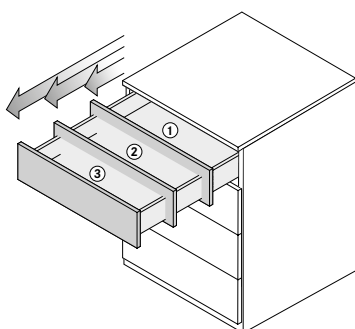
NV Tilt adjustment
SV Lateral adjustment

DYNAPRO TIPMATIC SOFT-CLOSE

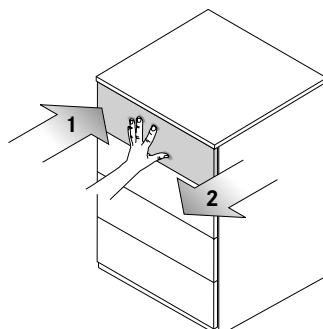
Front gap adjustment (+3 mm/-1 mm)



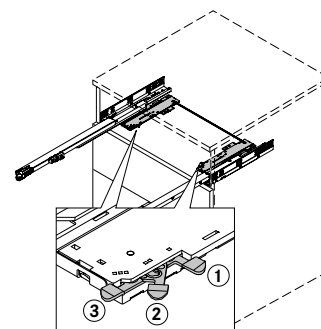
Opening force



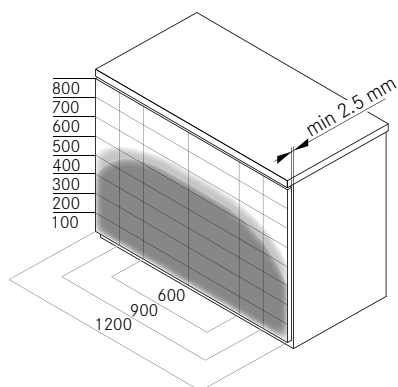
1



2



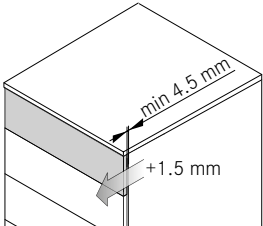
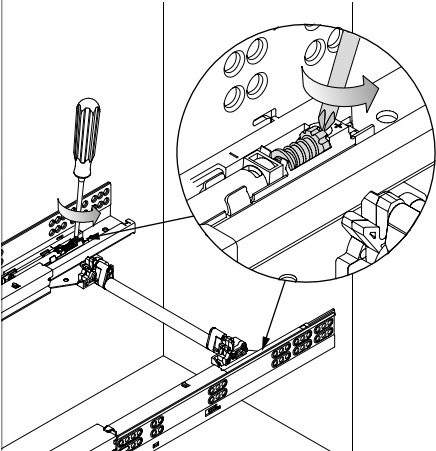
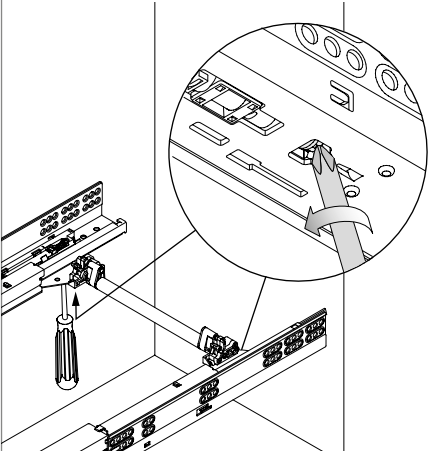
Activation zone



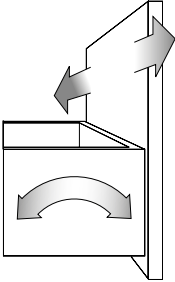
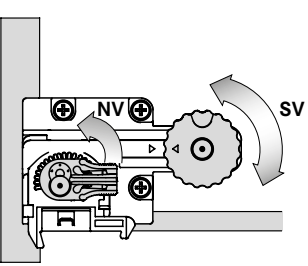
PAGE REFERENCES

Dynapro Soft-close	12	Base panel mounting	26	Sensomatic	39
Dynapro Tipmatic Soft-close	16	Application examples	28		
Dynapro Tipmatic	22	Assembly aids	36		

DYNAPRO TIPMATIC

Front gap adjustment (max. +1.5 mm)	Front gap adjustment from above	Front gap adjustment from below
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. 		

ADJUSTMENT

Tilt angle adjustment (max. +4 mm)/ side adjustment (max. ±2.5 mm)	Adjustment adapter 2D		
			

LEGEND

NV	Tilt adjustment
SV	Lateral adjustment



DRILLING JIG FOR CABINET MEMBER

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

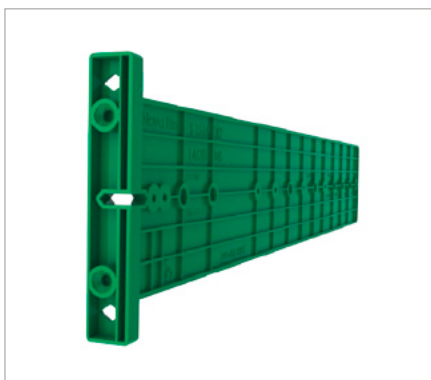
Product type	Art. no.
Drilling jig	F146094730



STOP ELEMENT INDIVIDUAL

- For extension of the drilling jig,
cabinet member F146094730

Product type	Art. no.
Individual marking element	F146094721



DRILLING JIG FOR CABINET MEMBER

- For use with pilot drill bit F146035692

Product type	Art. no.
Drilling jig	F146101348



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	12	Base panel mounting	26	Sensomatic	39
Dynapro Tipmatic Soft-close	16	Application examples	28		
Dynapro Tipmatic	22	Technical information	32		

**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**

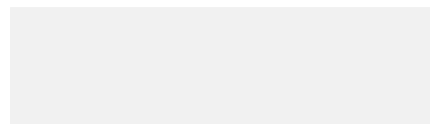
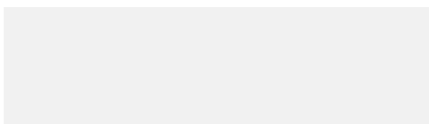
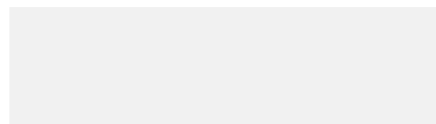
- Steel, nickel-plated, for screwing into a pre-drilled hole system dia. 5 mm (Pozidriv recessed head no. 2)

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 ELECTRIC 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 EASE OF USE AND FREEDOM OF MOVEMENT.**



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

grass.eu

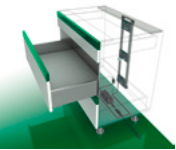
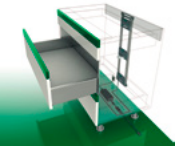
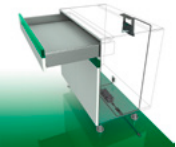
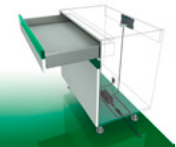
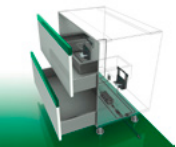
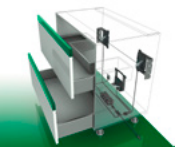
Action.
Reaction.
Interaction.



Sensomatic

Opening system

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

	Description		Page
	Sensomatic Single Set • Complete set for one drawer • For cabinet widths up to 1200 mm • Easy to assemble • Extremely simple wiring (plug and play)		40
	Sensomatic Standard cabinet, horizontal wooden stretcher • 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		42
	Sensomatic Standard cabinet, vertical wooden stretcher • 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		44
	Sensomatic Single drawer, overhead frame set mounting • 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		46
	Sensomatic Single drawer, back panel frame set mounting • 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		48
	Sensomatic Sink cabinet, bottom panel frame set mounting • 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		50
	Sensomatic Sink cabinet, side panel frame set mounting • 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		52

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

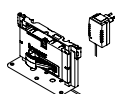
Notice:

- Other country-specific sets on request

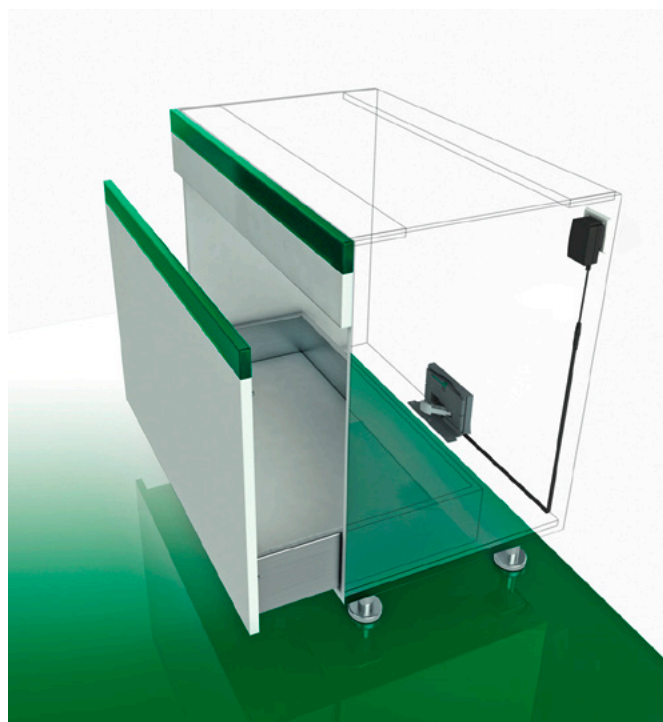
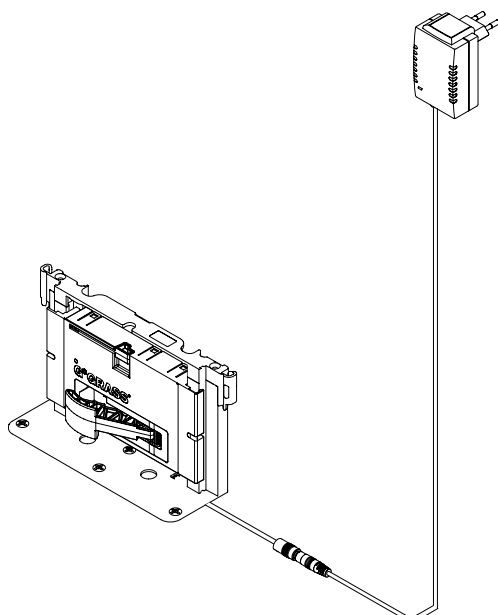
ORDER INFORMATION

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	12	Base panel mounting	26	Installation instructions	54
Dynapro Tipmatic Soft-close	16	Application examples	28		
Dynapro Tipmatic	22	Assembly aids	36		

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions															
		<table> <tr> <th>RW</th><th>min. LKW</th><th>MET</th><th>LBT</th></tr> <tr> <td>Wooden back panel</td><td>312</td><td>NL + 15</td><td>NL</td></tr> <tr> <td>Steel back panel</td><td></td><td></td><td></td></tr> </table>	RW	min. LKW	MET	LBT	Wooden back panel	312	NL + 15	NL	Steel back panel				
RW	min. LKW	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.													

LEGEND

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

LKW	Inside cabinet width
MET	Minimum installation depth
NL	Nominal length
P	Positioning aid

RW	Back panel
----	------------

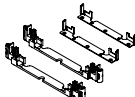
SENSOMATIC

Standard cabinet, horizontal wooden stretcher

ORDER INFORMATION

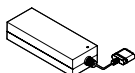
1	Drive unit Piece	
	Suitable for slide	Art. no.
	Dynapro, Nova Pro	F121131975

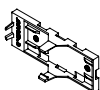
2	Length divider Pair	
	Traverse length	Art. no.
	653	F121100284
	750	F121100285
	1170	F121100286

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

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

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

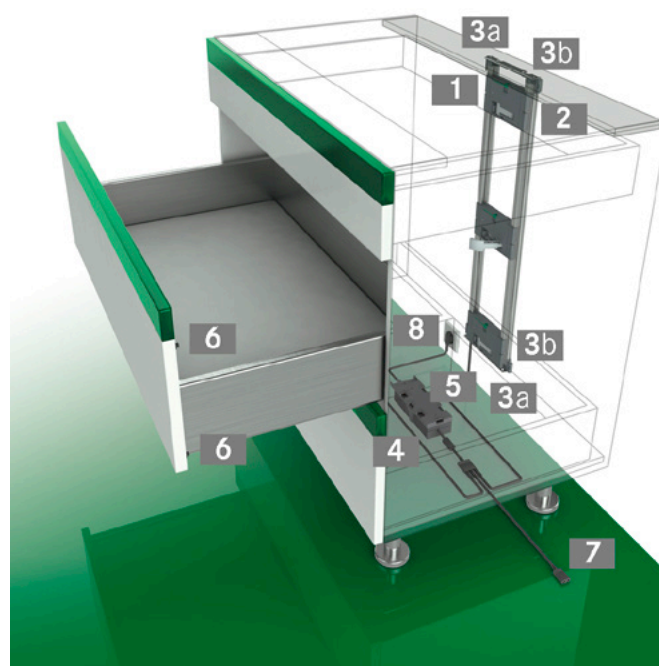
4	Power supply unit Piece	
	Opening/closing system	Art. no.
	Sensomatic	F121109970

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
8	2.2	F121100297
8	3	F121100298

7	Connection cable with 2-way adapter Piece	
	L	Art. no.
	600	F121100288
	1000	F121100289
	2000	F121100291

8	Power supply cable Piece	
	Plug type	Art. no.
		F120069767
	B: Used in: North and Central America, Japan	F120069760
	E: Used in: France, Belgium, Slovakia and Tunisia, F: Used in: Germany, Austria, the Netherlands and Spain	F120069761
	G: Used in: UK, Ireland, Cyprus, Malta, Malaysia, Singapore, Hong Kong	F120069766
	J: Used in: Switzerland and Lichtenstein	F120069765
	K: Used in: Denmark and Greenland	F120069763



PAGE REFERENCES

Dynapro Soft-close	12	Base panel mounting	26	Installation instructions	54
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Dynapro Tipmatic	22	Assembly aids	36		

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions																
		<table><tr><th>RW</th><th>min. LWK</th><th>MET</th><th>LBT</th></tr><tr><td>Wooden back panel</td><td>312</td><td>NL + 15</td><td>NL</td></tr><tr><td>Steel back panel</td><td></td><td></td><td></td></tr></table>	RW	min. LWK	MET	LBT	Wooden back panel	312	NL + 15	NL	Steel back panel					
RW	min. LWK	MET	LBT													
Wooden back panel	312	NL + 15	NL													
Steel back panel																
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

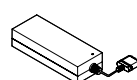
1	Drive unit Piece	
	Suitable for slide	Art. no.
	Dynapro, Nova Pro	F121131975

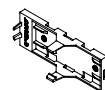
2	Length divider Pair	
	Traverse length	Art. no.
	653	F121100284
	750	F121100285
	1170	F121100286

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

3a	Fixing bracket Piece: Back	
	Opening/closing system	Art. no.
	Sensomatic	F121100275

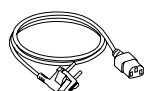
3b	Fixing bracket Piece: Top or bottom	
	Opening/closing system	Art. no.
	Sensomatic	F121100270

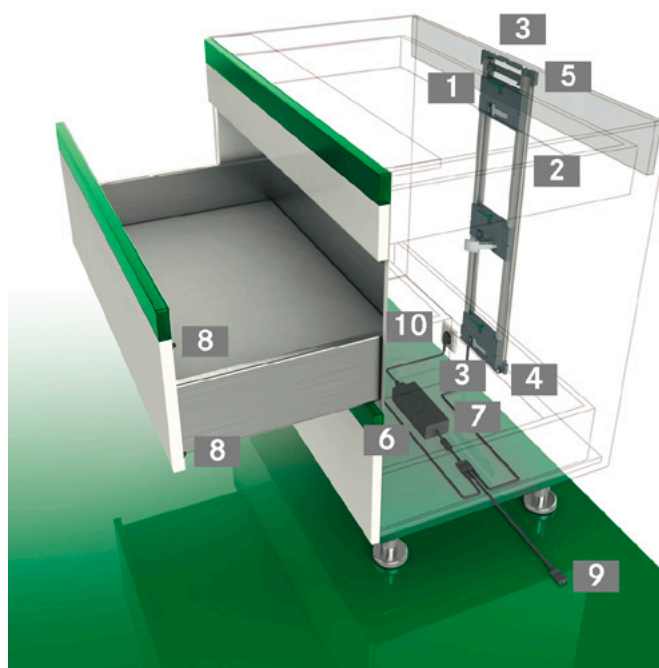
4	Power supply unit Piece	
	Opening/closing system	Art. no.
	Sensomatic	F121109970

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
8	2.2	F121100297
8	3	F121100298

7	Connection cable with 2-way adapter Piece	
	L	Art. no.
	600	F121100288
	1000	F121100289
	2000	F121100291

8	Power supply cable Piece	
	Plug type	Art. no.
		F120069767
	B: Used in: North and Central America, Japan	F120069760
	E: Used in: France, Belgium, Slovakia and Tunisia, F: Used in: Germany, Austria, the Netherlands and Spain	F120069761
	G: Used in: UK, Ireland, Cyprus, Malta, Malaysia, Singapore, Hong Kong	F120069766
	J: Used in: Switzerland and Lichtenstein	F120069765
	K: Used in: Denmark and Greenland	F120069763



PAGE REFERENCES

Dynapro Soft-close	12	Base panel mounting	26	Installation instructions	54
Dynapro Tipmatic Soft-close	16	Application examples	28		
Dynapro Tipmatic	22	Assembly aids	36		

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions															
	<table><tr><th>RW</th><th>min. LWK</th><th>MET</th><th>LBT</th></tr><tr><td>Wooden back panel</td><td>312</td><td>NL + 15</td><td>NL</td></tr><tr><td>Steel back panel</td><td></td><td></td><td></td></tr></table>	RW	min. LWK	MET	LBT	Wooden back panel	312	NL + 15	NL	Steel back panel					
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

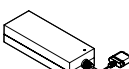
SENSOMATIC

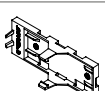
Single drawer, overhead frame set mounting

ORDER INFORMATION

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

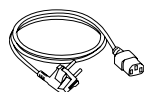
2	Installation set Set	
	Opening/closing system	Art. no.
	Sensomatic	F121100273

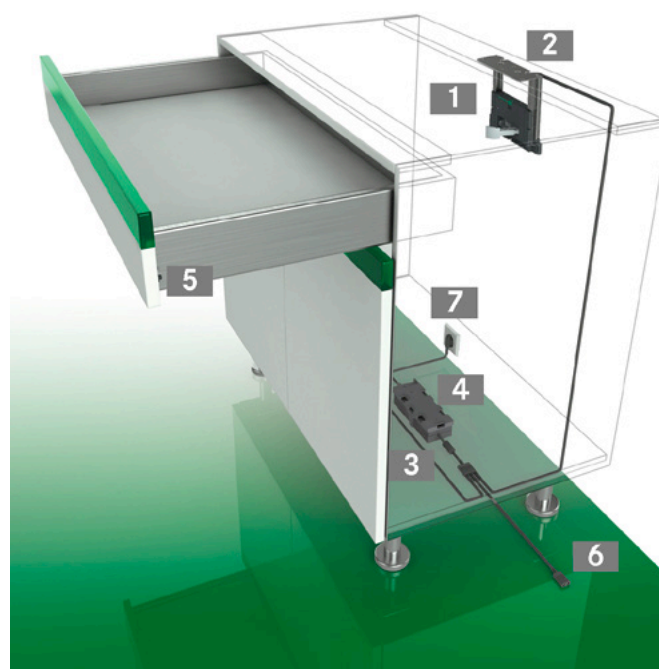
3	Power supply unit Piece	
	Opening/closing system	Art. no.
	Sensomatic	F121109970

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
8	2.2	F121100297
8	3	F121100298

6	Connection cable with 2-way adapter Piece	
	L	Art. no.
	600	F121100288
	1000	F121100289
	2000	F121100291

7	Power supply cable Piece	
	Plug type	Art. no.
	B: Used in: North and Central America, Japan	F120069767
	E: Used in: France, Belgium, Slovakia and Tunisia, F: Used in: Germany, Austria, the Netherlands and Spain	F120069761
	G: Used in: UK, Ireland, Cyprus, Malta, Malaysia, Singapore, Hong Kong	F120069766
	J: Used in: Switzerland and Lichtenstein	F120069765
	K: Used in: Denmark and Greenland	F120069763



PAGE REFERENCES

Dynapro Soft-close	12	Base panel mounting	26	Installation instructions	54
Dynapro Tipmatic Soft-close	16	Application examples	28		
Dynapro Tipmatic	22	Assembly aids	36		

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions															
	<table><tr><th>RW</th><th>min. LWK</th><th>MET</th><th>LBT</th></tr><tr><td>Wooden back panel</td><td>312</td><td>NL + 15</td><td>NL</td></tr><tr><td>Steel back panel</td><td></td><td></td><td></td></tr></table>	RW	min. LWK	MET	LBT	Wooden back panel	312	NL + 15	NL	Steel back panel					
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														

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

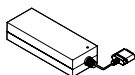
Single drawer, back panel frame set mounting

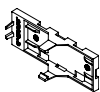
ORDER INFORMATION

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

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

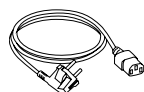
3	Frame connector Piece	
	Opening/closing system	Art. no.
	Sensomatic	F121100282

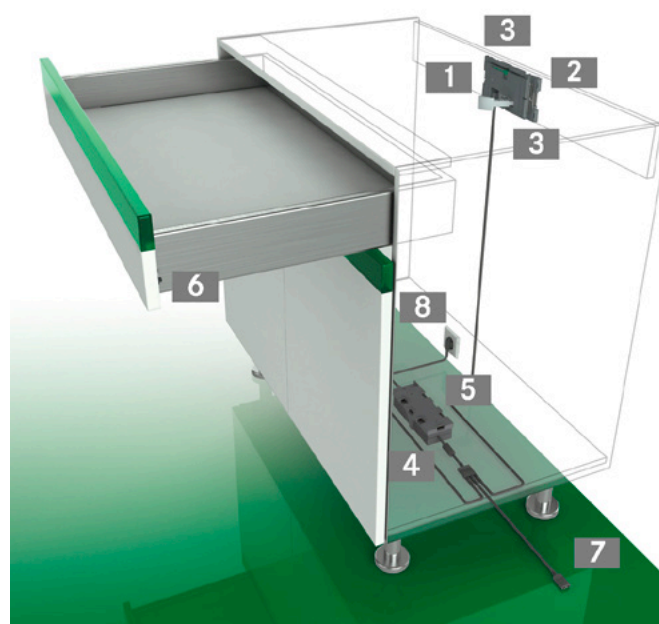
4	Power supply unit Piece	
	Opening/closing system	Art. no.
	Sensomatic	F121109970

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
8	2.2	F121100297
8	3	F121100298

7	Connection cable with 2-way adapter Piece	
	L	Art. no.
	600	F121100288
	1000	F121100289
	2000	F121100291

8	Power supply cable Piece	
	Plug type	Art. no.
	B: Used in: North and Central America, Japan	F120069767
	E: Used in: France, Belgium, Slovakia and Tunisia, F: Used in: Germany, Austria, the Netherlands and Spain	F120069761
	G: Used in: UK, Ireland, Cyprus, Malta, Malaysia, Singapore, Hong Kong	F120069766
	J: Used in: Switzerland and Lichtenstein	F120069765
	K: Used in: Denmark and Greenland	F120069763

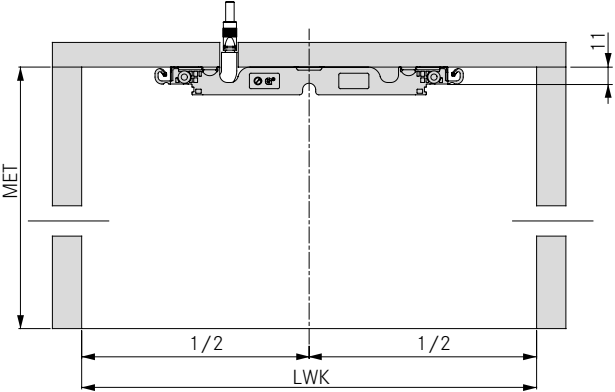
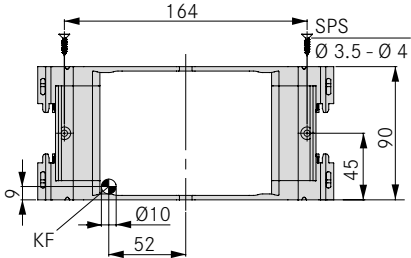
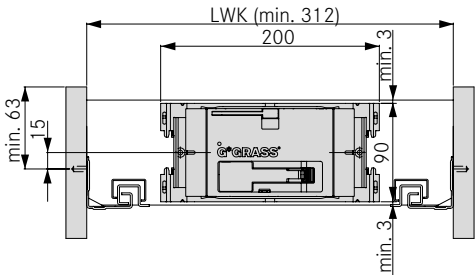
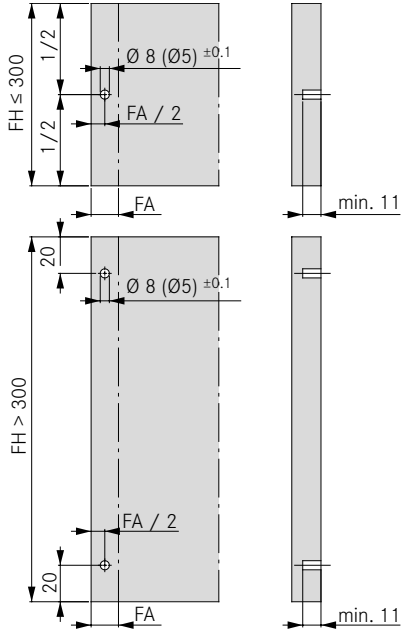


PAGE REFERENCES

Dynapro Soft-close	12	Bottom panel frame set mounting	26	Installation instructions	54
Dynapro Tipmatic Soft-close	16	Application examples	28		
Dynapro Tipmatic	22	Assembly aids	36		

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions		
	RW	min. LWK
	Wooden back panel Steel back panel	312
		MET
		NL + 20*
Frame sides		
		
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
LWK	Inside cabinet width

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

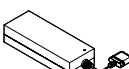
SENSOMATIC

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

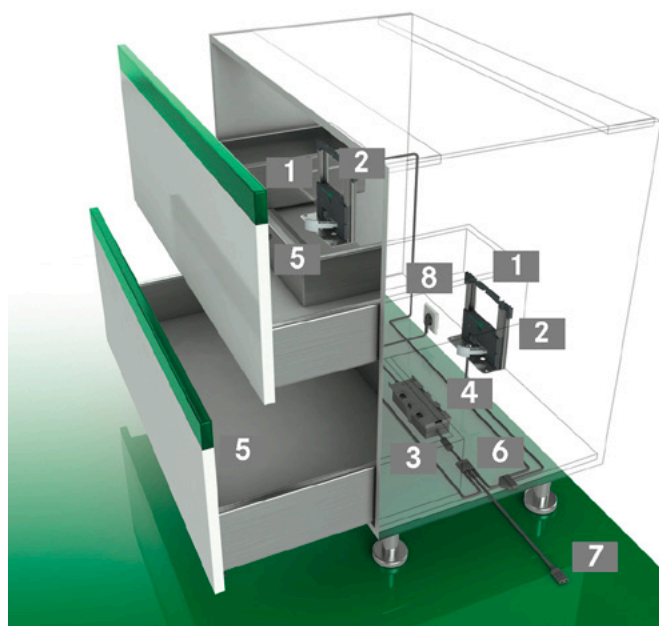
4	Power supply bracket Piece	
	Opening/closing system	Art. no.
	Sensomatic	F121100604

5	Front buffer, spring loaded Piece	
Ø	Front gap	Art. no.
5	2.2	F121100294
5	3	F121100295
8	2.2	F121100297
8	3	F121100298

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

7	Connection cable with 2-way adapter Piece	
	L	Art. no.
	600	F121100288
	1000	F121100289
	2000	F121100291

8	Power supply cable Piece	
	Plug type	Art. no.
	B: Used in: North and Central America, Japan	F120069767
	E: Used in: France, Belgium, Slovakia and Tunisia,	F120069760
	F: Used in: Germany, Austria, the Netherlands and Spain	F120069761
	G: Used in: UK, Ireland, Cyprus, Malta, Malaysia, Singapore, Hong Kong	F120069766
	J: Used in: Switzerland and Lichtenstein	F120069765
	K: Used in: Denmark and Greenland	F120069763



PAGE REFERENCES

Dynapro Soft-close	12	Base panel mounting	26	Installation instructions	54
Dynapro Tipmatic Soft-close	16	Application examples	28		
Dynapro Tipmatic	22	Assembly aids	36		

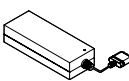
SENSOMATIC

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

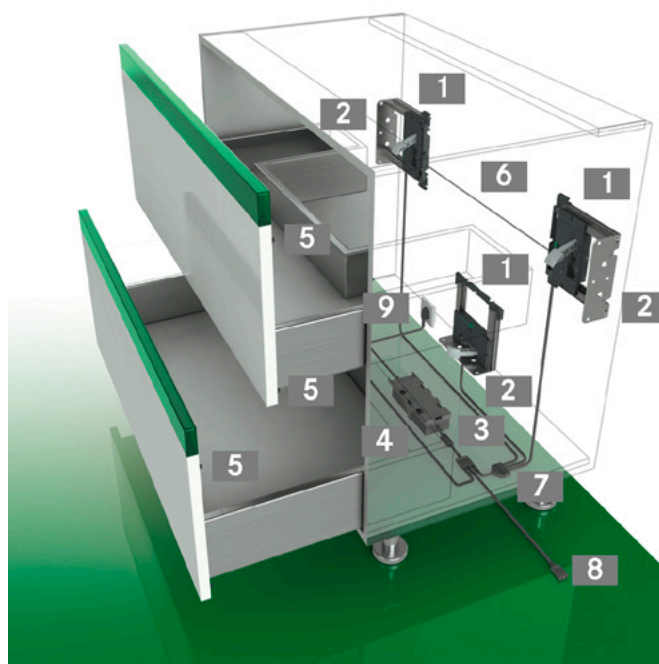
5	Front buffer, spring loaded Piece	
Ø	Front gap	Art. no.
5	2.2	F121100294
5	3	F121100295
8	2.2	F121100297
8	3	F121100298

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.
	600	F121100288
	1000	F121100289
	2000	F121100291

9	Power supply cable Piece	
	Plug type	Art. no.
	B: Used in: North and Central America, Japan	F120069767
	E: Used in: France, Belgium, Slovakia and Tunisia, F: Used in: Germany, Austria, the Netherlands and Spain	F120069760
	G: Used in: UK, Ireland, Cyprus, Malta, Malaysia, Singapore, Hong Kong	F120069761
	J: Used in: Switzerland and Lichtenstein	F120069766
	K: Used in: Denmark and Greenland	F120069765
		F120069763

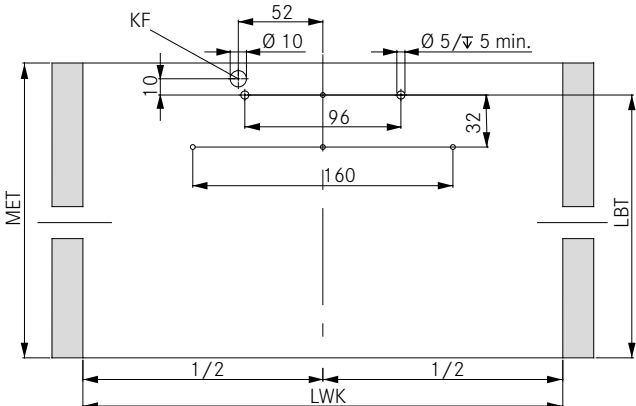
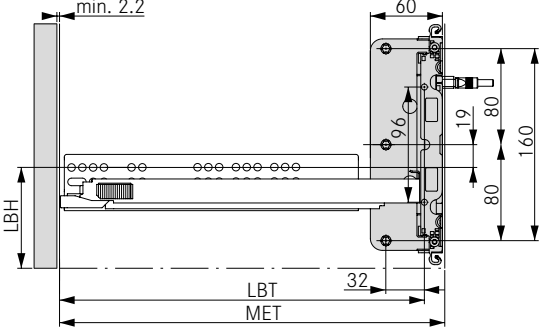
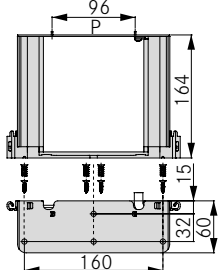
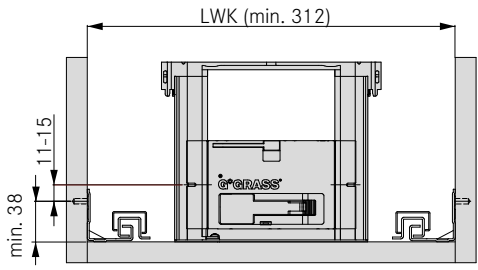
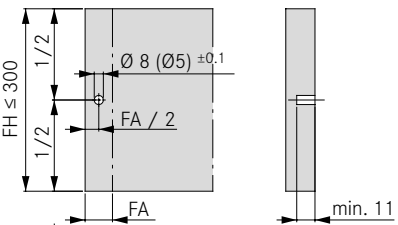
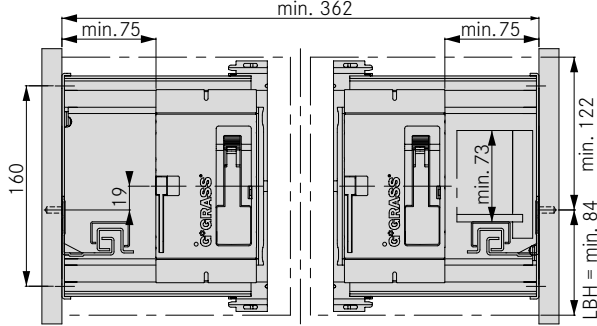
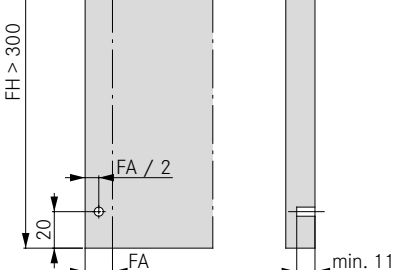


PAGE REFERENCES

Dynapro Soft-close	12	Bottom panel frame set mounting	26	Installation instructions	54
Dynapro Tipmatic Soft-close	16	Application examples	28		
Dynapro Tipmatic	22	Assembly aids	36		

PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions	Side panel frame set mounting installation dimensions									
	 <table><tr><th>RW</th><th>MET</th><th>LBT</th></tr><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></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								
Installation set										
										
Position of drive unit	Position of front buffer									
										
Position of the drive unit for side panel frame set mounting										
	 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
LBH	Height of hole pattern

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

P	Positioning aid
RW	Back panel

INSTALLATION INSTRUCTIONS

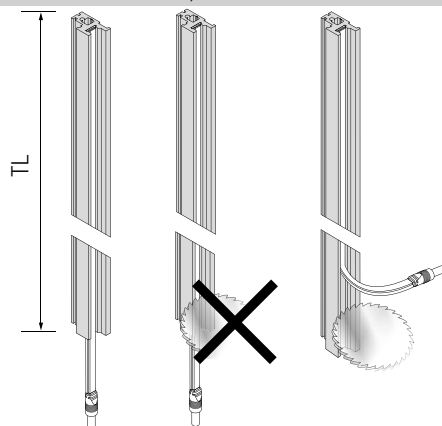
Length divider installation	Installation of standard cabinet horizontal wooden stretcher	Installation of standard cabinet vertical wooden stretcher
Overhead frame set mounting of the single drawer	Back panel frame set mounting of the single drawer	
Bottom panel frame set mounting of sink cabinet	Side panel frame set mounting of sink cabinet	

PAGE REFERENCES

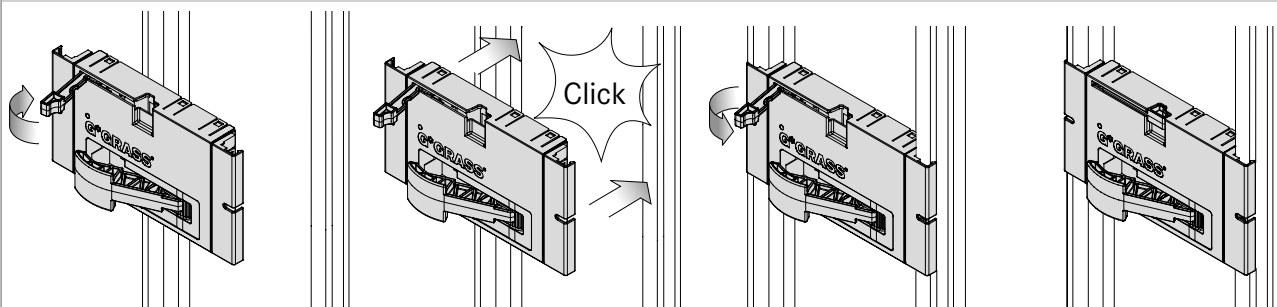
Horizontal wooden stretcher	42	Back panel frame set mounting	48		
Vertical wooden stretcher	44	Bottom panel frame set mounting	50		
Overhead frame set mounting	46	Side panel frame set mounting	52		

INSTALLATION INSTRUCTIONS

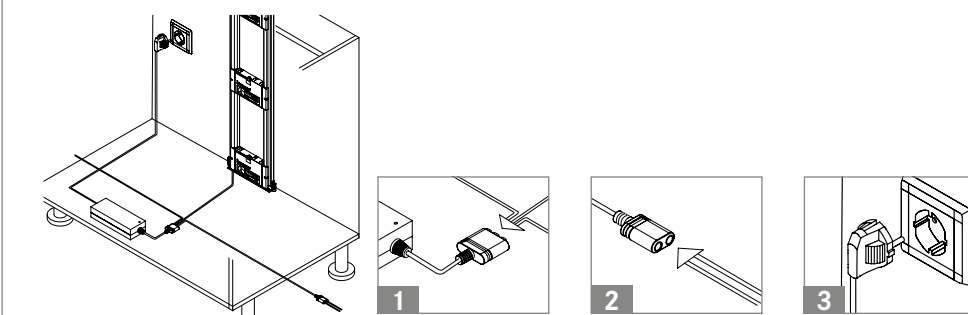
Cutting frame side to length (for horizontal and vertical wooden stretchers)



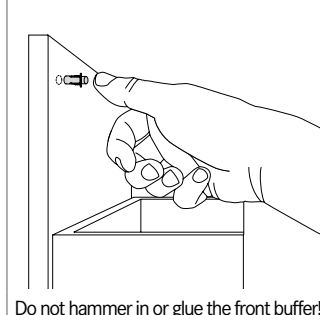
Installation of the drive unit



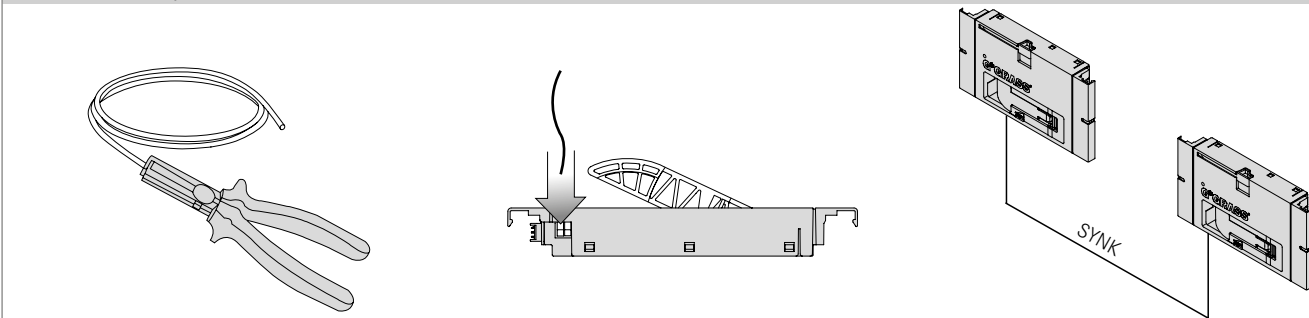
Wiring (connection sequence)



Front buffer installation



Installation of the synchronisation cable



LEGEND

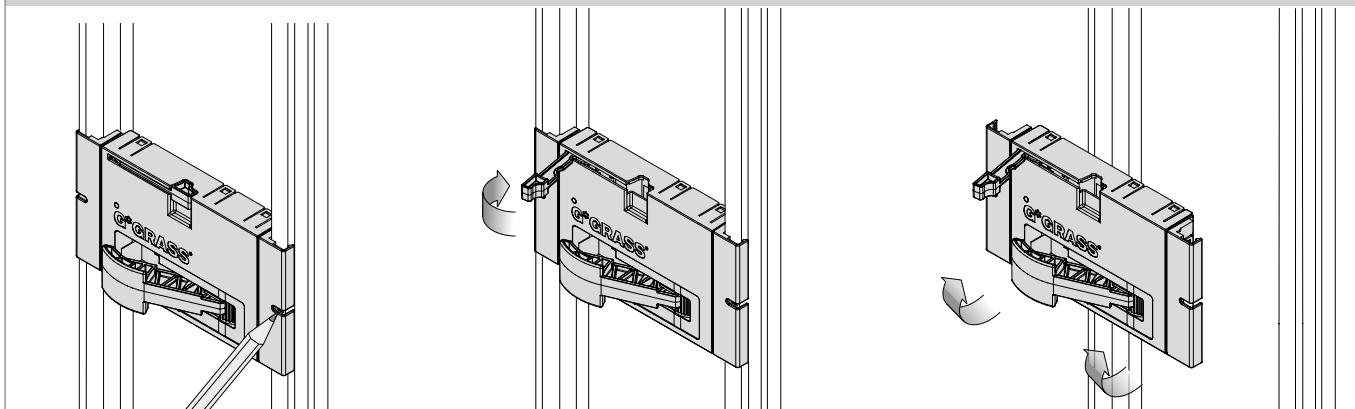
SYNK Synchronisation cable
TL Traverse length

SENSOMATIC

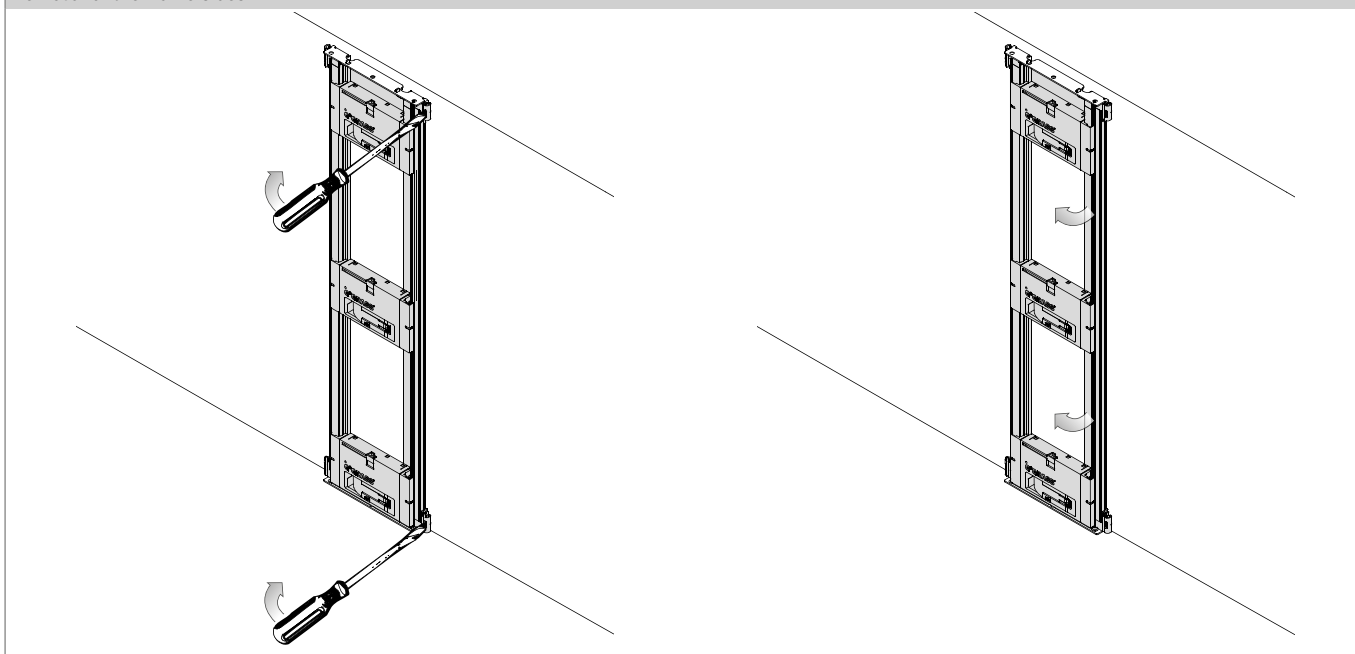
Removal instructions

DISMANTLING INSTRUCTIONS

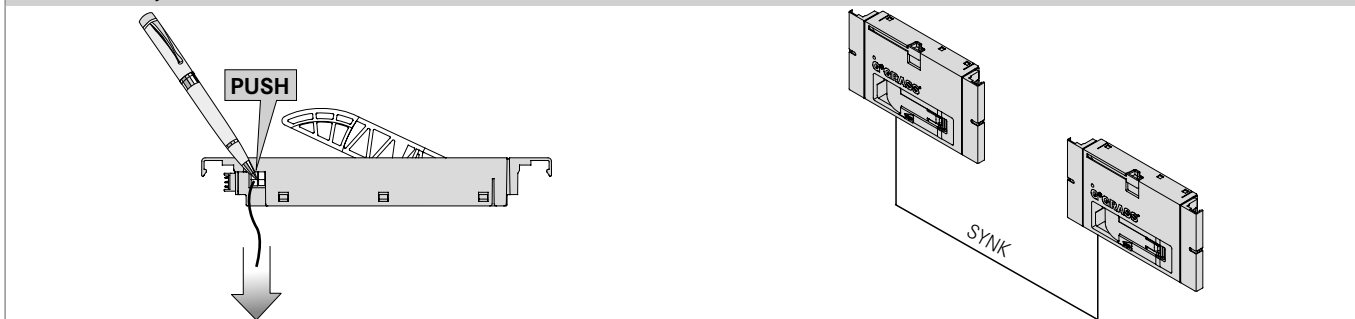
Removal of the drive unit



Removal of the frame sides



Removal of the synchronisation cable

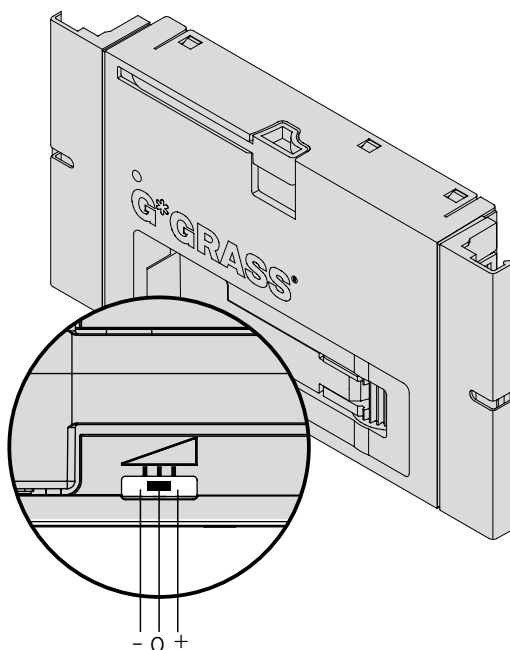


PAGE REFERENCES

Horizontal wooden stretcher	42	Back panel frame set mounting	48		
Vertical wooden stretcher	44	Bottom panel frame set mounting	50		
Overhead frame set mounting	46	Side panel frame set mounting	52		

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

ART. NO. INDEX

Article number/package code/page number

F art. no.	PU	PU	PU	Page
F120069760	207			42, 44, 46, 48, 50, 52
F120069761	207			42, 44, 46, 48, 50, 52
F120069763	207			42, 44, 46, 48, 50, 52
F121100270	211			42, 44
F121100273	207			46, 50, 52
F121100275	207			44
F121100282	211			42, 44, 48
F121100283	207			48
F121100284	507			42, 44
F121100285	507			42, 44
F121100286	507			42, 44
F121100287	207			52
F121100288	207			42, 44, 46, 48, 50, 52
F121100289	207			42, 44, 46, 48, 50, 52
F121100291	207			42, 44, 46, 48, 50, 52
F121100293	207			50, 52
F121100294	223			42, 44, 46, 48, 50, 52
F121100295	223			42, 44, 46, 48, 50, 52
F121100297	223			42, 44, 46, 48, 50, 52
F121100298	223			42, 44, 46, 48, 50, 52
F121100604	507			42, 44, 46, 48, 50, 52
F121100610	507			42
F121100983	201			40
F121109970	607			42, 44, 46, 48, 50, 52
F121131975	607			42, 44, 46, 48, 50, 52
F130107790	604			12
F130107791	211			12
F130107792	211			12
F130107793	604			12, 16, 28
F130107794	211			12, 16, 28
F130107795	211			12, 16, 28
F130107796	604			12, 16, 28
F130107797	211			12, 16, 28
F130107798	211			12, 16, 28
F130107799	604			12, 16, 28
F130107800	211			12, 16, 28
F130107801	211			12, 16, 28
F130107802	604			12, 16, 28
F130107803	211			12, 16, 28
F130107804	211			12, 16, 28
F130107805	604			12, 16, 28
F130107806	211			12, 16, 28
F130107807	211			12, 16, 28
F130107808	604			12, 16, 28, 30
F130107809	211			12, 16, 28, 30
F130107810	211			12, 16, 28, 30
F130107811	604			12, 16, 28
F130107812	211			12, 16, 28
F130107813	211			12, 16, 28
F130107814	604			12, 16, 28, 30
F130107815	210			12, 16, 28, 30
F130107816	210			12, 16, 28, 30
F130107817	604			12, 16, 28
F130107818	210			12, 16, 28
F130107819	210			12, 16, 28
F130107820	604			12, 16, 28, 30
F130107821	210			12, 16, 28, 30
F130107822	210			12, 16, 28, 30
F130107823	604			12, 16, 28
F130107824	210			12, 16, 28
F130107825	210			12, 16, 28
F130107826	604			12, 16, 28, 30
F130107827	210			12, 16, 28, 30
F130107828	210			12, 16, 28, 30
F130107829	604			12, 16, 28
F130107830	208			12, 16, 28

F art. no.	PU	PU	PU	Page
F130107831	208			12, 16, 28
F130107832	604			14, 18
F130107833	210			14, 18
F130107834	210			14, 18
F130107838	604			14, 18
F130107839	210			14, 18
F130107840	210			14, 18
F130107841	604			14, 18
F130107842	210			14, 18
F130107843	210			14, 18
F130107844	604			14, 18
F130107845	210			14, 18
F130107846	210			14, 18
F130107847	604			14, 18
F130107848	208			14, 18
F130107849	208			14, 18
F130107850	604			14, 18
F130107851	208			14, 18
F130107852	208			14, 18
F130107853	604			14, 18
F130107854	208			14, 18
F130107855	208			14, 18
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F130136513	211			20
F130136515	211			20
F130136516	211			20
F130136518	211			20
F130136519	211			20

Article number/packaging code/page number

[illegible]

Article number

Packaging code

F123456789

201

Packaging type

—Packaging unit

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)



Lined writing area with horizontal lines.



Lined writing area with horizontal lines.



Lined writing area with horizontal lines.



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