



G*GRASS®

SLIDE SYSTEMS

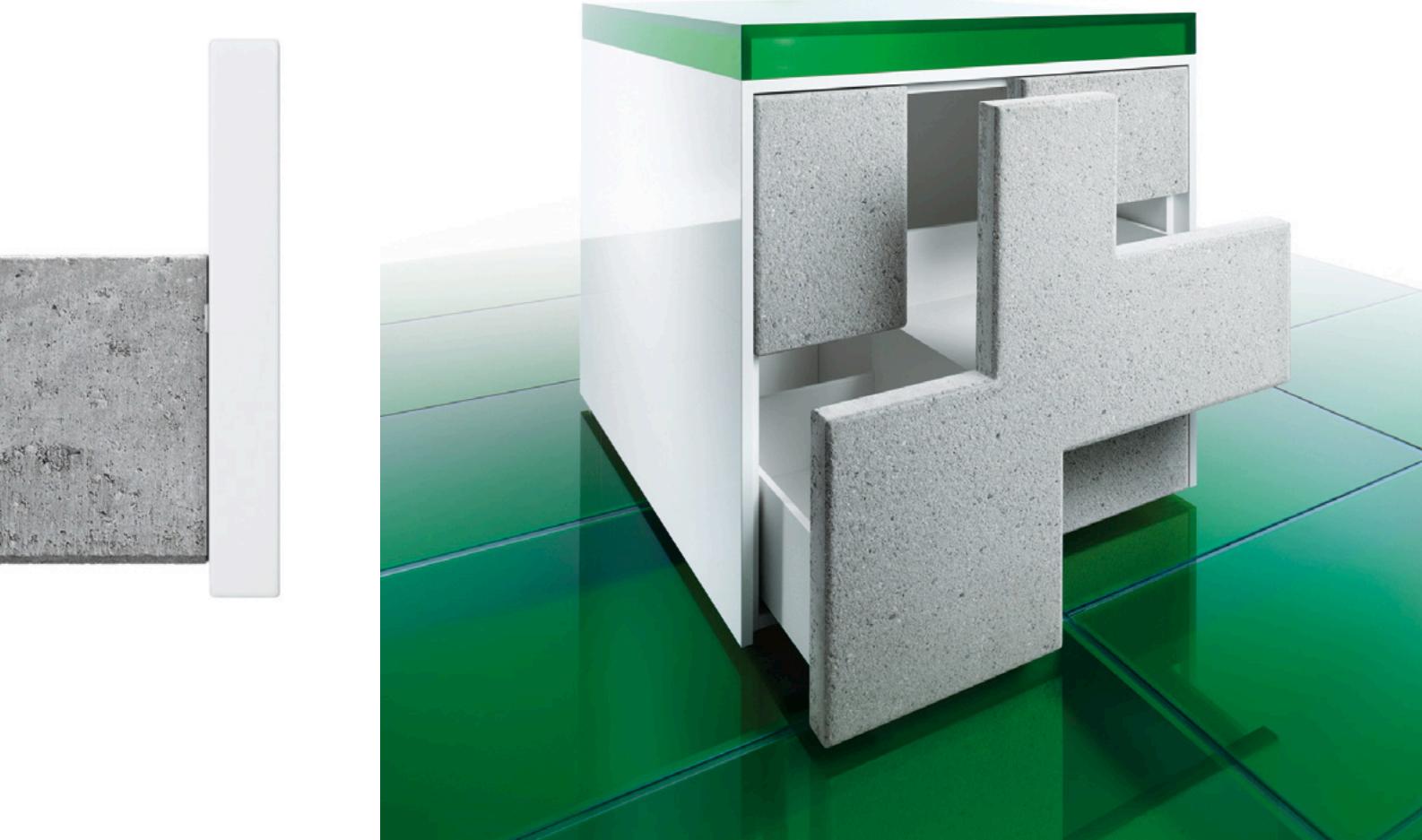
Optimum movement for all drawers - either as invisible concealed slides for maximum comfort or as track-proven roller slides.





Concealed functionality
for the utmost individuality
in drawer design.





DYNAPRO SLIDE SYSTEM

**High load capacity. Synchronised movement.
4D adjustment. The multitude of special qualities makes
Dynapro a unique movement system for individualists.**

**reddot design award
winner 2010**

If you prefer unusual design and expect a concealed drawer slide to offer excellent running performance, high stability, precision and exceptional operating comfort – then Dynapro is exactly right for you. Handle-free surfaces, high fronts, wide drawers or unusual materials – the slide system for full-extension drawers offers unlimited design options.



Dynapro – the powerful precision slide for absolute design freedom.

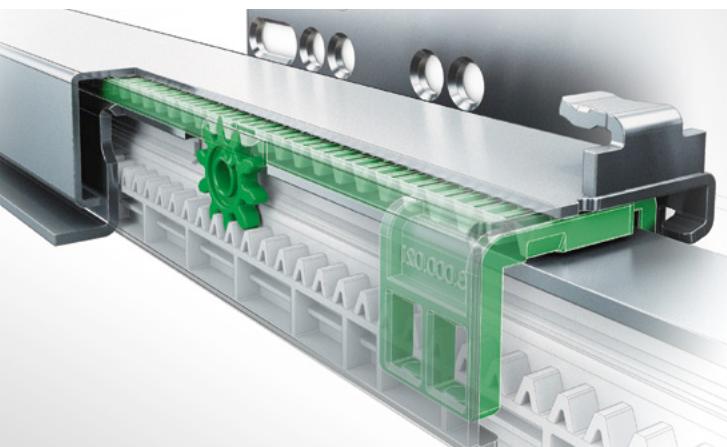
The perfect combination: **Vionaro drawer system**

Dynapro – the slide that offers greater modularity. This concealed slide system serves as a basis for wooden drawers as well as for the GRASS Vionaro drawer system. The minimalist drawer sides in aluminium or steel add elegant visual design to the Dynapro slide technology.

DYNAPRO SLIDE SYSTEM

Whether you are dealing with wood, aluminium, glass, natural stone or concrete – let Dynapro provide the inspiration for new ideas.

Innovating means adopting new approaches. That applies just as much to the creation of new furniture designs as it does to the development of new movement systems. The more offbeat the idea, the more vital it becomes to have intelligent function characteristics. To cater for even the most exceptional requirements, GRASS has developed a completely new slide system that combines concealed functionality and outstanding running performance. For furniture designers, this opens up entirely new perspectives.



Synchronisation for excellent running characteristics.

Unlike conventional concealed slide systems, Dynapro is the only fitting worldwide that features a synchronisation mechanism. Even under high load, the excellent running performance of Dynapro remains unchanged. Load forces of up to 70 kg present no problem for the system. Abrasion-resistant plastic rollers ensure a smooth, even glide every time.

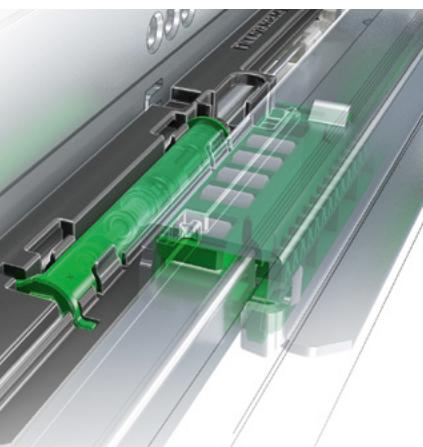
Four dimensions for perfect alignment.

Dynapro offers integrated height adjustment, side adjustment, tilt angle adjustment and depth adjustment. All adjustments are tool-free, readily accessible and easy to handle. In short, it takes just a few tweaks to achieve optimal alignment.



Four options for the utmost in operating comfort.

Soft-close, the successful damping system, closes Dynapro drawers gently and quietly. With Tipmatic, the mechanical opening system, it is possible to operate large handle-free fronts which will open with a gentle tap. The new Tipmatic Soft-close opening system combines the advantages of mechanical opening with the comfort of the track-proven Soft-close damping. In addition, GRASS is rounding off its range with Sensomatic – the electronically supported opening system.





Good to know the movement is not only technically functional, but also extremely comfortable. Opening and closing is an experience every time.

It was never easier to open drawers. And it was never more satisfying to close them. The GRASS comfort systems and our movement solutions complement each other to form a harmonious multi-functional unit. We want to combine the advantages of handle-free opening with the elegance of damped closing, as the combination of these exceptional functions guarantees the highest possible level of operating comfort.

It's good to find things that were simply made for each other.



TIPMATIC SOFT-CLOSE OPENING SYSTEM

The new Tipmatic Soft-close opening system combines the advantages of a mechanical system with the comfort of the tried-and-tested Soft-close damper and, with the 3-way adjustable ejection force, ensures elegant movement, irrespective of the weight and size of the furniture fronts.

TIPMATIC OPENING SYSTEM

Mechanical opening of regular and pot drawers.

Tipmatic offers optimal design options for beautiful and elegant furniture. Thanks to the touch-activated mechanics and the synchronisation option, it is possible to open large, handle-free fronts with just a light touch.



SOFT-CLOSE DAMPING SYSTEM

With the GRASS Soft-close damping concept, each movement becomes an experience. Because closing drawers with Soft-close is something special. Soft-close gently slows the fronts and pulls them to the fully closed position.

With the very low pull-out forces, slender handles are also possible.

SENSOMATIC OPENING SYSTEM

Electro-mechanical opening of drawers for maximum operating comfort.

Action. Reaction. Interaction. Comfort cannot be more fascinating. Thanks to Sensomatic's automatic touch-sensitive function, a gentle trigger is enough to initiate the movement of regular and pot drawers with handle-free fronts.





GRASS SLIDE SYSTEMS

Concealed functionality for the utmost individuality.

CHARACTERISTICS	DYNAPRO	DYNAMOOV
30 kg load capacity	-	■
40 kg load capacity	■	-
70 kg load capacity	■	-
Full extension drawer for optimal access	■	■
Synchronisation without mid-way knock	■	■
Height adjustment	■	■
Side adjustment	■	-
Tilt angle adjustment	■	-
Depth adjustment	■	■
Soft-close damping system	■	■
Self-close closing system	-	■
Tipmatic Opening system	-	■
Tipmatic Opening system with optional synchronisation	■	-
Tipmatic Soft-close Opening system	■	-
Sensomatic opening system	■	-

SLIDE SYSTEMS

Concealed slide systems for all applications.
Elegant, convenient, concealed and extremely effective.

	DYNAPRO SLIDE SYSTEM	11
	Synchronised full extension slide with four-dimensional adjustment for 40 kg and 70 kg load capacities. Slide-on mounting.	
	DYNAPRO TIPMATIC SOFT-CLOSE	14
	Mechanical opening system for handle-free fronts.	
	DYNAPRO SENSOMATIC	27
	Electromechanical opening system for regular and pot drawers.	
	DYNAMOOV SLIDE SYSTEM	49
	Synchronised full extension slide with integrated height adjustment and 30 kg load capacity. Slide-on mounting.	
	ROLLER SLIDES	63
	Sturdy single and full extension drawer slides of tried-and-tested quality.	



DYNAPRO SLIDE SYSTEM

The multitude of special qualities makes Dynapro a unique movement system for individualists.

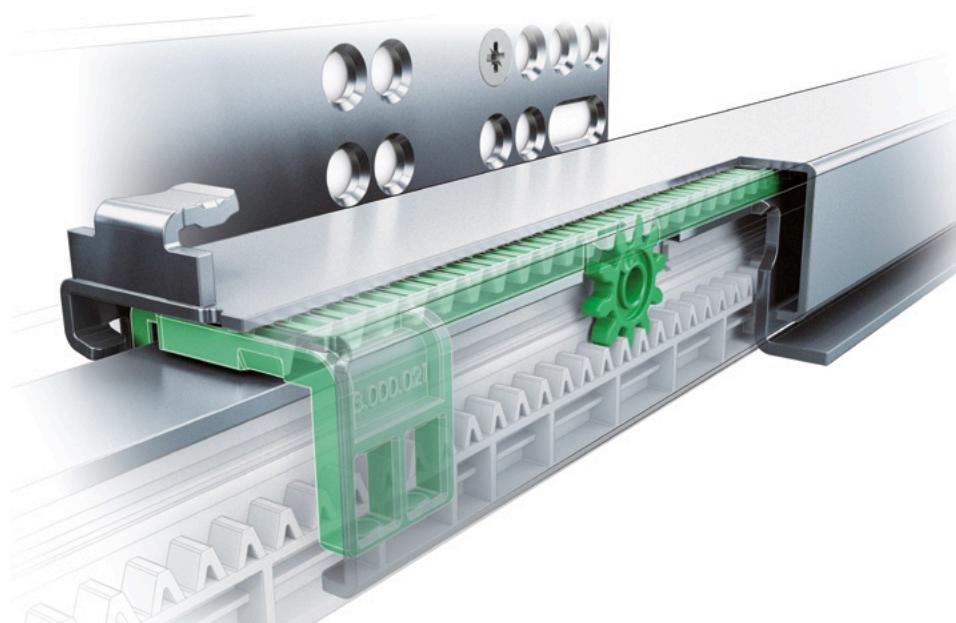
QUALITY CERTIFICATE



Excellent running characteristics, synchronised movement, 4D adjustment for perfectly aligned gaps and high load capacity are only some of the special features for which the million-fold tried-and-tested slide system received the Red Dot Design Award.

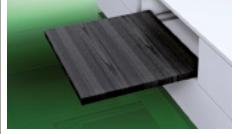


reddot design award
winner 2010



DYNAPRO SLIDE SYSTEM

A new slide generation for wooden drawers.
The powerful precision slide for absolute design freedom.

	Product description	Page
	Dynapro full extension slide 40/70 kg Soft-close <ul style="list-style-type: none">• Soft-close damping system• 4-dimensional adjustment (side, height, tilt angle and depth adjustment)	12
	Dynapro full extension slide 40/70 kg Tipmatic Soft-close <ul style="list-style-type: none">• Tipmatic Soft-close opening system• 4-dimensional adjustment (side, height, tilt angle and depth adjustment)	14
	Dynapro full extension slide 40/60 kg Tipmatic <ul style="list-style-type: none">• Tipmatic opening system• 4-dimensional adjustment (side, height, tilt angle and depth adjustment)	16
	Dynapro for base panel mounting and pull-out shelf <ul style="list-style-type: none">• Installation on the cabinet base or additional base panel• Shelf holder set	18
	Technical information	20
	Assembly aids	24

DYNAPRO SOFT-CLOSE

Full extension slide 40/70 kg



- Excellent running characteristics
- Fully synchronised slide technology
- Soft-close damping system
- Utmost lateral stability
- Minimum drawer deflection
- Stepless self-locking of the drawer when placed on the slide
- Tool-free 4D adjustment facility:
 - Height adjustment +3.5 mm
 - Side adjustment ± 1.5 mm
 - Tilt angle adjustment +4 mm
 - Depth adjustment +3.5 mm

Packaging unit (PU):

204 = 5 units in a cardboard box
 208 = 12 units in a cardboard box
 210 = 15 units in a cardboard box
 211 = 20 units in a cardboard box
 233 = 200 units in a cardboard box
 517 = 50 units in PE in a cardboard box
 533 = 200 units in PE in a cardboard box

ORDER INFORMATION

1 Dynapro full extension slide Soft-close Set: One left, one right



NL	40 kg		70 kg	
	Art.-no.	PU	Art.-no.	PU
250	F130107790	204	211	-
270	F130107793	204	211	-
300	F130107796	204	211	-
320	F130107799	204	211	-
350	F130107802	204	211	-
380	F130107805	204	211	-
400	F130107808	204	211	-
420	F130107811	204	211	-
450	F130107814	204	210	F130107832 204 210
480	F130107817	204	210	-
500	F130107820	204	210	F130107838 204 210
520	F130107823	204	210	F130107841 204 210
550	F130107826	204	210	F130107844 204 210
580	-			F130107847 204 208
600	F130107829	204	208	F130107850 204 208
650	-			F130107853 204 208
700*	-			F130107856 204 208
750*	-			F130107859 204 208

* Load capacity 50 kg

2a Dynapro 4D set Front locking device (3D) and adjustment adapter (1D), one of each left/right



	Art.-no.	PU			
	F134108955	517			

2b Dynapro 3D-Set Front locking device (2D) and adjustment adapter (1D), one of each left/right



	Art.-no.	PU			
	F134108956	517			

2c Dynapro 2D set Front locking device (1D) and adjustment adapter (1D), one of each left/right



	Art.-no.	PU			
	F134117193	517			

Individual components

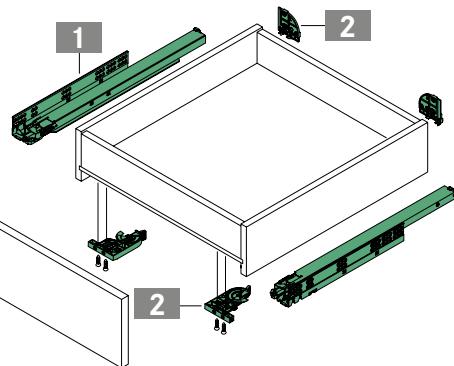


Description	Art.-no.	PU
Front locking device (1D) Set: One left, one right	F134101220	233 517
Front locking device (2D) Set: One left, one right	F134108949	233
Front locking device (3D) Set: One left, one right	F134108946	233
Adjustment adapter (1D) Set: One left, one right	F134108952	233

Optional: Depth adjustment (1D) for front locking device (2D) Set: One left, one right



	Art.-no.	PU		
	F134108957	533		



PAGE REFERENCES

Pull-out shelf	18	Assembly aids	24	Packaging code	75
Technical information	20	Sensomatic	27		

PLANNING DIMENSIONS

All dimensions in millimetres

Installation dimensions		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

Locking device fixing position	Adjustment adapter fixing position

Fixing positions for full extension slide		Euro screw Ø 6.3 x 14 mm Chipboard screw Ø 4 x 16 mm Screw head Ø 7 mm

LEGEND

HV	Height adjustment	MET	Minimum installation depth
KV	Front edge of cabinet	NL	Nominal length
LWK	Inside cabinet width	NV	Tilt angle adjustment
LWS	Internal drawer width	SKL	Length of drawer

DYNAPRO TIPMATIC SOFT-CLOSE

Full extension slide 40/70 kg



- Mechanical opening system for handle-free fronts
- Combines Tipmatic function with Soft-close damping
- Tool-free assembly of the Tipmatic Soft-close unit
- Can be used for Dynapro Soft-close full extension slides
- One unit for all nominal lengths and weight classes
- 3-stage adjustment of the opening force
- Wide trigger range due to synchronisation rod

Packaging unit (PU):

204 = 5 units in a cardboard box
 207 = 10 units in a cardboard box
 208 = 12 units in a cardboard box
 210 = 15 units in a cardboard box
 211 = 20 units in a cardboard box
 213 = 25 units in a cardboard box
 223 = 100 units in a cardboard box
 233 = 200 units in a cardboard box
 517 = 50 units in PE in a cardboard box
 607 = 10 units in a cardboard box in a cardboard box

Note:

- Dynapro Tipmatic Soft-close can be used from nominal length (NL) 270

ORDER INFORMATION

1 Dynapro full extension slide Soft-close Set: One left, one right					
NL	40 kg		70 kg		PU
	Art.-no.	PU	Art.-no.	PU	
270	F130107793	204	211	—	
300	F130107796	204	211	—	
320	F130107799	204	211	—	
350	F130107802	204	211	—	
380	F130107805	204	211	—	
400	F130107808	204	211	—	
420	F130107811	204	211	—	
450	F130107814	204	210	F130107832	204 210
480	F130107817	204	210	—	
500	F130107820	204	210	F130107838	204 210
520	F130107823	204	210	F130107841	204 210
550	F130107826	204	210	F130107844	204 210
580	—			F130107847	204 208
600	F130107829	204	208	F130107850	204 208
650	—			F130107853	204 208
700*	—			F130107856	204 208
750*	—			F130107859	204 208

* Load capacity 50 kg

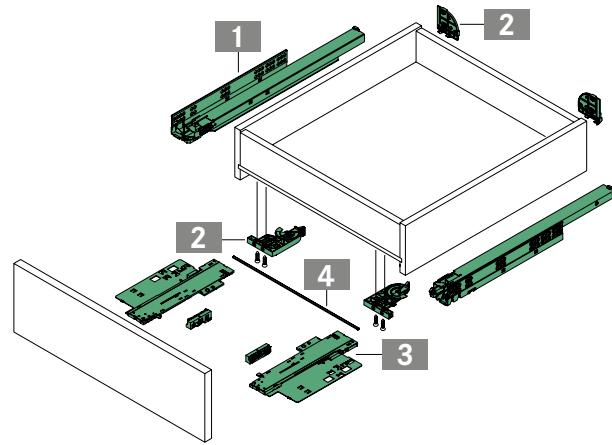
2a Dynapro 3D-Set Front locking device (2D) and adjustment adapter (1D), one of each left/right					
	Art.-no.	PU			
	F134108956	517			

2b Dynapro 2D set Front locking device (1D) and adjustment adapter (1D), one of each left/right					
	Art.-no.	PU			
	F134117193	517			

3 Dynapro Tipmatic Soft-close Set: Unit and activator, one of each left/right					
	Art.-no.	PU			
	F134109323	607			

4 Synchronisation rod Single item: For cutting to length			
L	Art.-no.	PU	
952	F134109410	207	

Individual components			
Description	Art.-no.	PU	
Dynapro Tipmatic Soft-close unit Set: One left, one right	F134109324	213	
Dynapro Tipmatic Soft-close activator Set: One left, one right	F134109325	223	
Front locking device (1D) Set: One left, one right	F134101220	233 517	
Front locking device (2D) Set: One left, one right	F134108949	233	
Adjustment adapter (1D) Set: One left, one right	F134108952	233	



PAGE REFERENCES

Pull-out shelf	18	Assembly aids	24
Technical information	20	Packaging code	75

PLANNING DIMENSIONS

All dimensions in millimetres

Installation dimensions		Drawer	NL	SKL	MET
LWS = (LWK - 42) $^{+0}_{-1.5}$	max. 16	SKL = NL - 10 ± 0.5	270	260	273
min. LWS = 138 mm (3D)	145 mm (2D)	min. 2.5	300	290	303
10	37	min. 12	320	310	323
min. 37	21	MET = NL + 3	350	340	353
10	37	min. 7	380	370	383
min. 10	21	37	400	390	403
13	10	37	420	410	423
53	10	37	450	440	453
10	10	37	480	470	483
10	10	37	500	490	503
10	10	37	520	510	523
10	10	37	550	540	553
10	10	37	580	570	583
10	10	37	600	590	603
10	10	37	650	640	653
10	10	37	700	690	703
10	10	37	750	740	753
Inset drawer		Synchronisation rod cutting dimension			
		LWK - 216			

Locking device fixing position	Adjustment adapter fixing position	Position of the synchronisation rod

Fixing positions for full extension slide		Euro screw Ø 6.3 x 14 mm Chipboard screw Ø 4 x 16 mm Screw head Ø 7 mm
	MET = NL + 3	
	MET = NL + 3	

LEGEND

HV	Height adjustment	LWS	Internal drawer width	SKL	Length of drawer
KV	Front edge of cabinet	MET	Minimum installation depth	SV	Side adjustment
L	Length	NL	Nominal length		
LWK	Inside cabinet width	NV	Tilt angle adjustment		

DYNAPRO TIPMATIC

Full extension slide 40/60 kg



- Full extension slide Tipmatic for handle-free fronts
- Tipmatic ejector unit integrated into the slide
- Excellent running characteristics
- Fully-synchronised slide technology
- Utmost lateral stability
- Minimum drawer deflection
- 4D adjustment facility:
 - Height adjustment +3.5 mm
 - Side adjustment ± 1.5 mm
 - Tilt angle adjustment +4 mm
 - Front gap adjustment +1.5 mm

Packaging unit (PU):

204 = 5 units in a cardboard box
 207 = 10 units in a cardboard box
 210 = 15 units in a cardboard box
 211 = 20 units in a cardboard box
 212 = 24 units in a cardboard box
 233 = 200 units in a cardboard box
 517 = 50 units in PE in a cardboard box

ORDER INFORMATION

1 Dynapro full extension slide
Tipmatic
Set: One left, one right



NL	40 kg		60 kg	
	Art.-no.	PU	Art.-no.	PU
250	F130117458	204	211	-
270	F130117459	204	211	-
300	F130117460	204	211	-
320	F130117461	204	211	-
350	F130117462	204	211	-
380	F130116955	204	-	-
400	F130117463	204	211	-
420	F130117464	204	210	-
450	F130117465	204	210	F130117470 204 210
480	F130117466	204	210	-
500	F130117467	204	210	F130117471 204 210
520	F130116956	204	-	F130116957 204
550	F130117468	204	210	F130117472 204 210
580	-	-	-	F130117473 204
600	-	-	-	F130116941 204
650	-	-	-	F130117474 204
700*	-	-	-	F130117534 204
750*	-	-	-	F130117535 204

* Load capacity 50 kg

2a Dynapro 3D-Set
Front locking device (2D) and
adjustment adapter (1D),
one of each left/right



	Art.-no.	PU
	F134108956	517

2b Dynapro 2D set
Front locking device (1D) and
adjustment adapter (1D),
one of each left/right



	Art.-no.	PU
	F134117193	517

3 Synchronisation unit
Set: Synchronisation module
and synchronisation lever,
one of each left/right



	40 kg		60 kg	
	Art.-no.	PU	Art.-no.	PU
	F134117475	517	F134117476	517

4 Synchronisation rod
Single item: For cutting to length

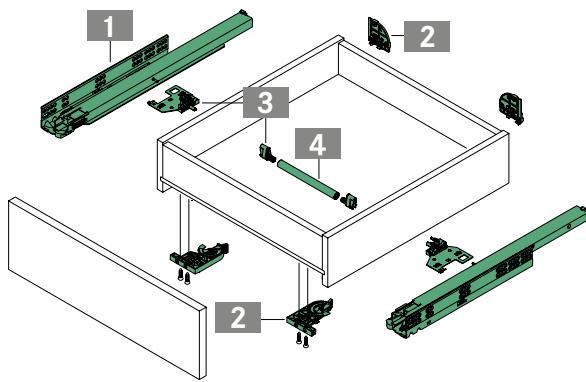


L	Art.-no.	PU
981	F134116947	207 211

Individual components



Description	Art.-no.	PU
Synchronisation module, 40 kg Set: One left, one right	F134117114	212
Synchronisation module, 60 kg Set: One left, one right	F134117115	212
Synchronisation lever Single item: Can be used on left/right	F134125079	233
Front locking device (1D) Set: One left, one right	F134101220	233 517
Front locking device (2D) Set: One left, one right	F134108949	233
Adjustment adapter (1D) Set: One left, one right	F134108952	233



PLANNING DIMENSIONS

All dimensions in millimetres

Installation dimensions			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
Synchronisation rod cutting dimension						

Locking device fixing position	Adjustment adapter fixing position	Position of the synchronisation rod

Fixing positions for full extension slide			Euro screw Ø 6.3 x 14 mm Chipboard screw Ø 4 x 16 mm Screw head Ø 7 mm	
			250 - 320	
			350 - 450	
			480 - 520	
			550	
			40 kg	
			MET = NL + 3	
			KV 10 28 37 450	
			500 - 580 600 - 650 700* - 750 *50 kg	
			384 352 288 256 0 32 4	
			60 kg	
			MET = NL + 3	

LEGEND

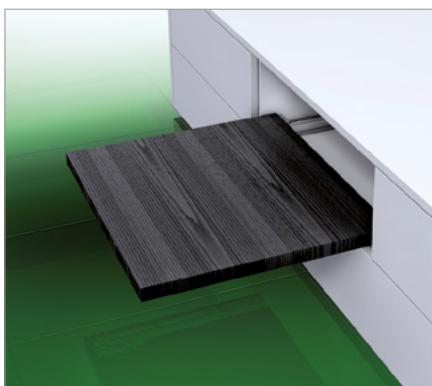
HV Height adjustment
KV Front edge of cabinet
L Length
LWK Inside cabinet width

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

SKL Length of drawer
SV Side adjustment

DYNAPRO

Base panel mounting and pull-out shelf



Dynapro for base panel mounting:

- Full extension drawer synchronised, 40 kg load capacity
- Soft-close damping system
- Assembly on cabinet base or additional base panel
- Particularly suitable for pull-out shelves (no screw-on bracket at side)

Packaging unit (PU):

- 204 = 5 units in a cardboard box
- 210 = 15 units in cardboard box
- 211 = 20 units in cardboard box
- 233 = 200 units in a cardboard box
- 517 = 50 units in PE in a cardboard box
- 533 = 200 units in PE in a cardboard box

Shelf holder set for shelves:

- Height adjustment +3.5 mm
- Optional depth adjustment +3.5 mm
- Stepless shelf self-locking
- Compatible with all Dynapro slides

ORDER INFORMATION

1	Dynapro full extension slide Soft-close for base panel mounting Set: One left, one right	
NL	40 kg	
	Art.-no.	PU
400	F130107878	204 211
450	F130107884	204 210
500	F130107890	204 210
550	F130107893	204

2	Dynapro 1D set Front locking device (1D) and shelf holder, one of each left/right	
	Art.-no.	PU
	F134107411	517

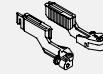
Individual components



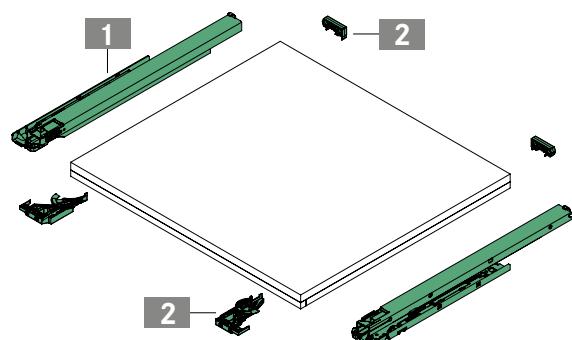
Description	Art.-no.	PU
Front locking device (1D) Set: One left, one right	F134101220	517 233
Shelf holder Set: One left, one right	F134101305	533

Optional: Depth adjustment (1D)

Set: One left, one right



	Art.-no.	PU
	F134101313	533

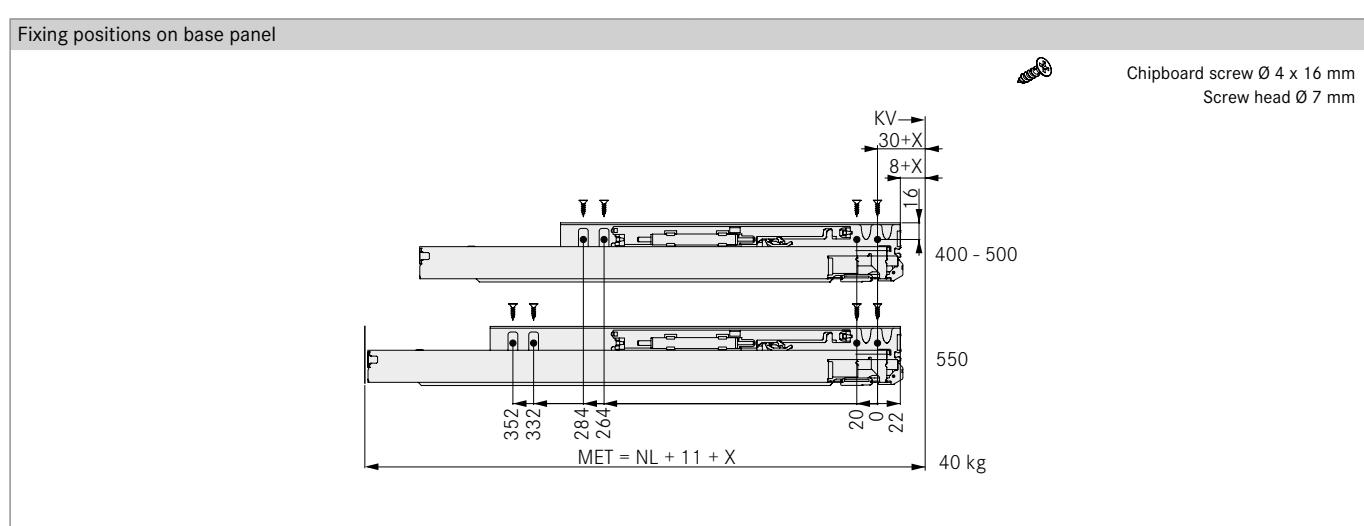
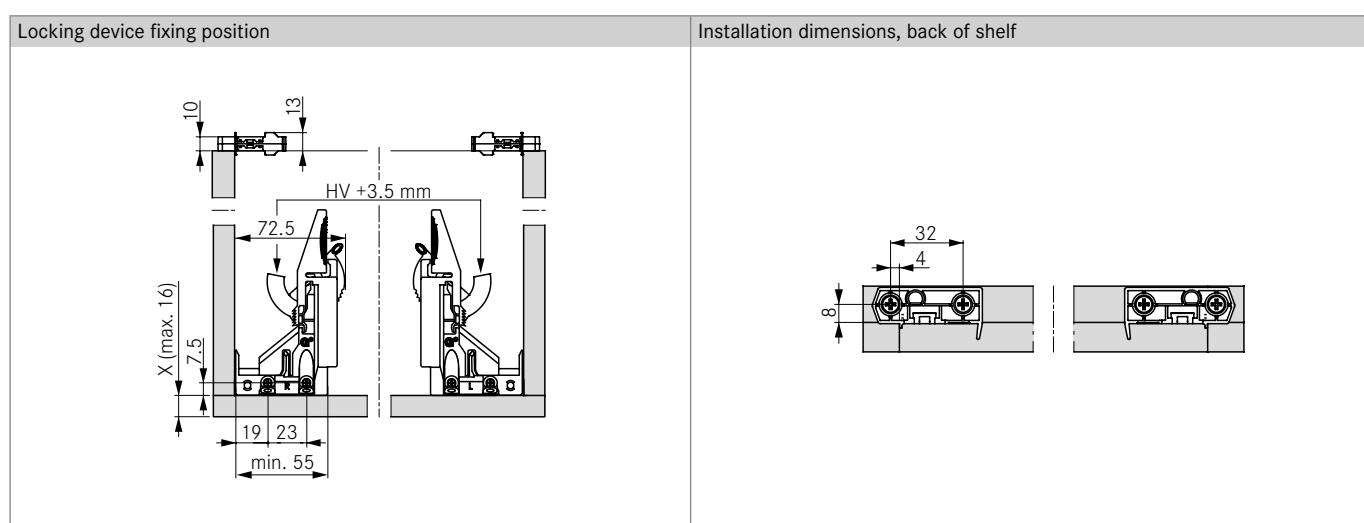
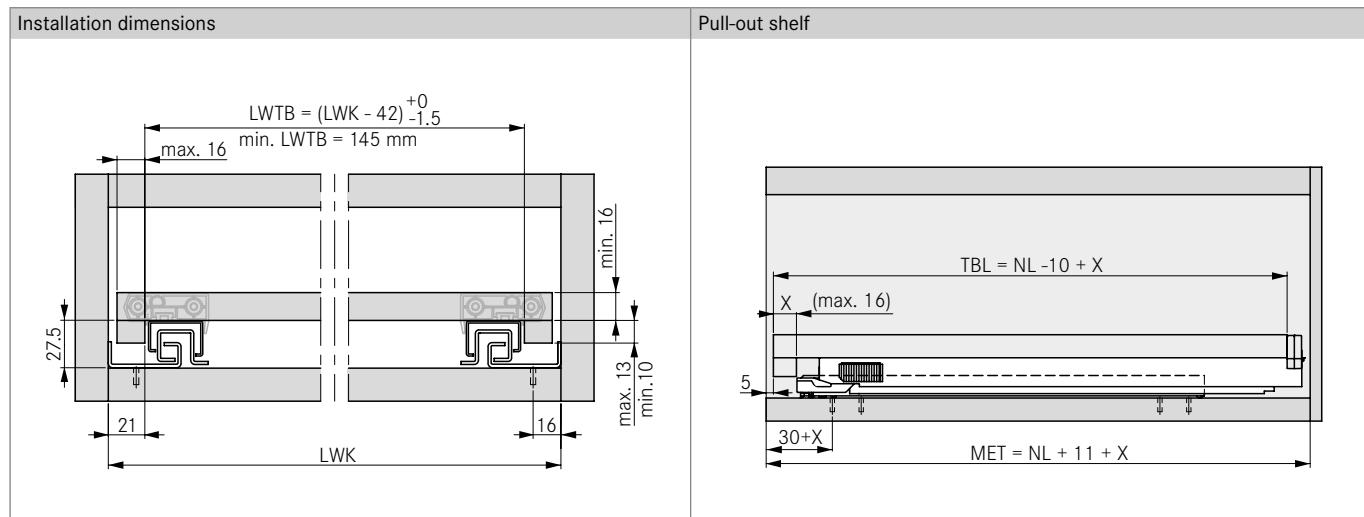


PAGE REFERENCES

Dynapro Soft-close	12	Dynapro Tipmatic	16	Assembly aids	24
Dynapro Tipmatic Soft-close	14	Technical information	20	Packaging code	75

INSTALLATION INFORMATION

All dimensions in millimetres



LEGEND

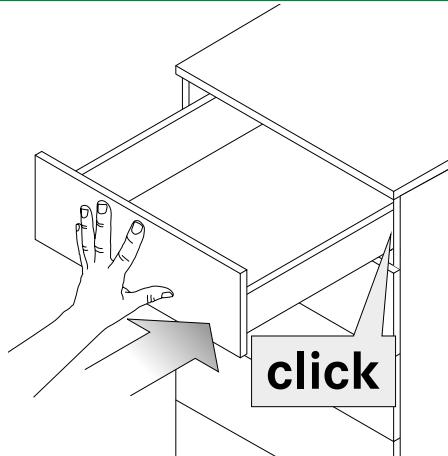
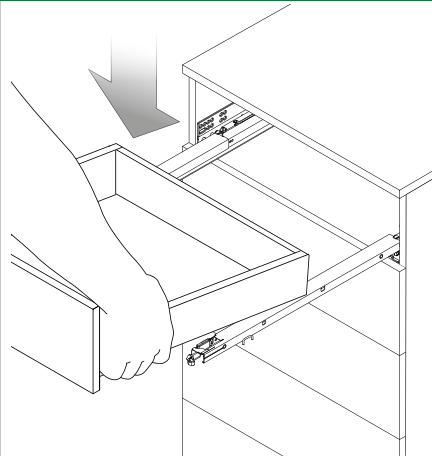
HV	Height adjustment
LWK	Inside cabinet width
LWTB	Clear shelf width
MET	Minimum installation depth

NL	Nominal length
TBL	Shelf length

INSTALLATION INFORMATION

Inserting the drawer

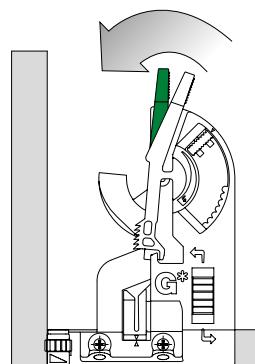
Place the drawer on the extended Dynapro slides and push in until it audibly engages.



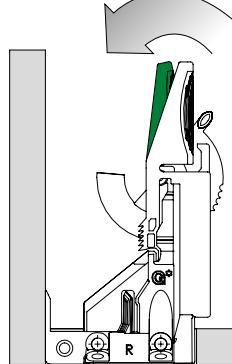
Removing the drawer

Pull out the drawer, actuate the lever of the front locking device on both sides and pull the drawer off the slide towards the front.

Dynapro 3D/4D



Dynapro 2D



NOTES

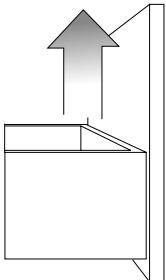
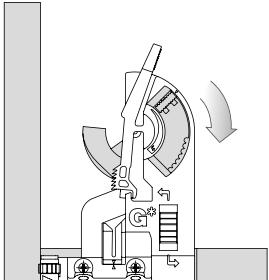
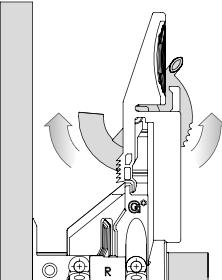
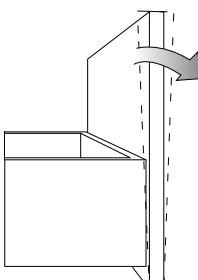
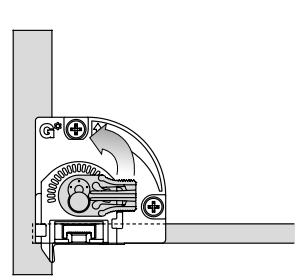
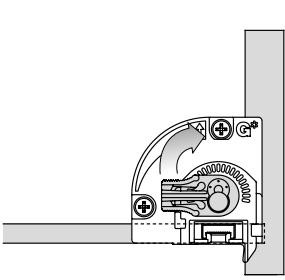
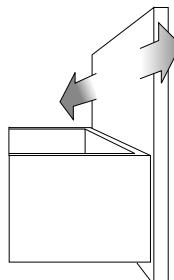
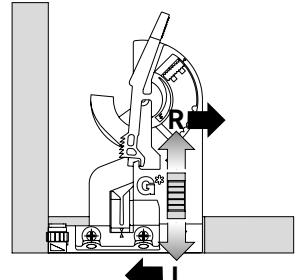
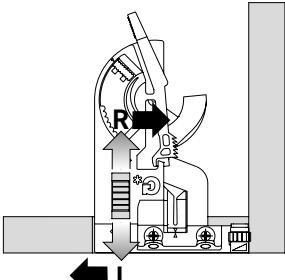
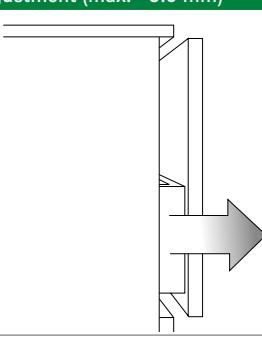
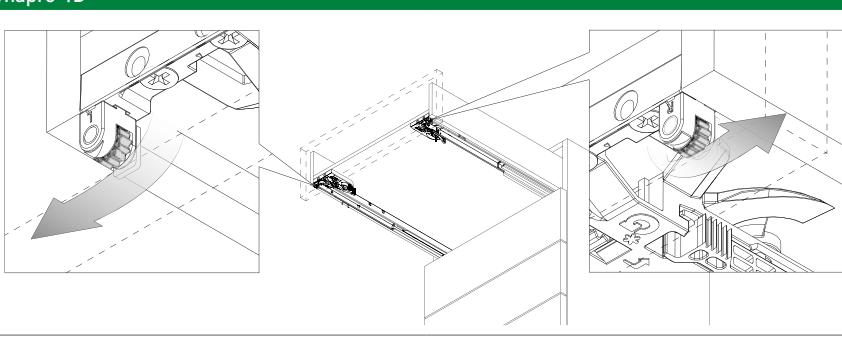
Fixing the cabinet rails:

The screw recommendations are guide values only. Screw head Ø 7 mm.
Assemblers must ensure that the substrate material is thick enough.

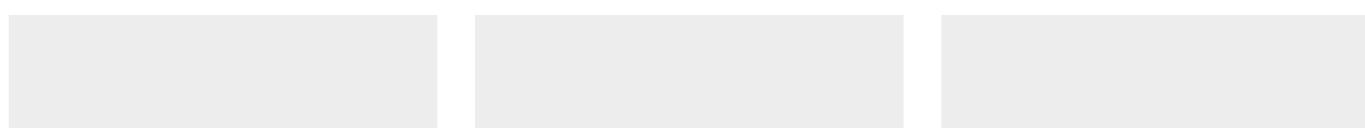
PAGE REFERENCES

Dynapro Soft-close	12	Dynapro Tipmatic	16	Assembly aids	24
Dynapro Tipmatic Soft-close	14	Pull-out shelf	18	Sensomatic	27

ADJUSTMENT

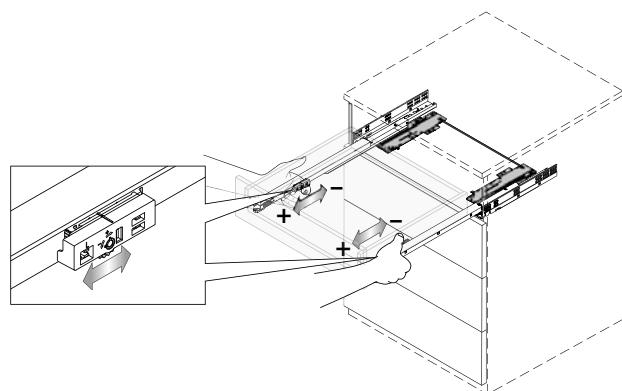
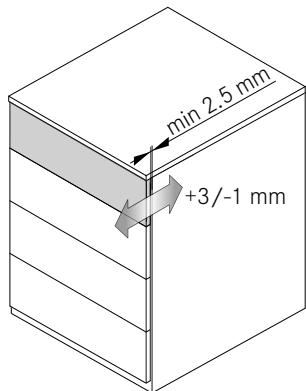
Height adjustment (max. +3.5 mm)	Dynapro 3D/4D	Dynapro 2D
		
Tilt angle adjustment of front (max. +4.0 mm)	Dynapro 2D/3D/4D	
		
Side adjustment (max. ±1.5 mm)	Dynapro 3D/4D	
		
Depth adjustment (max. +3.5 mm)	Dynapro 4D	
		

LEGEND

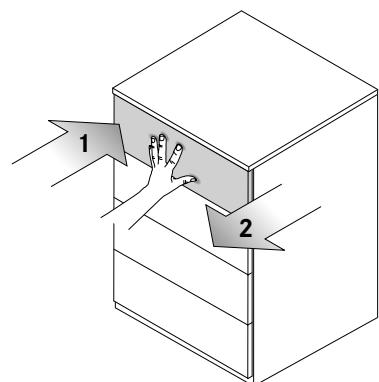
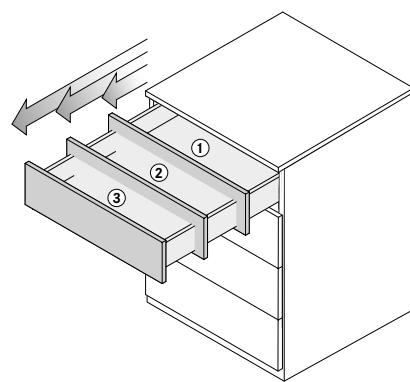
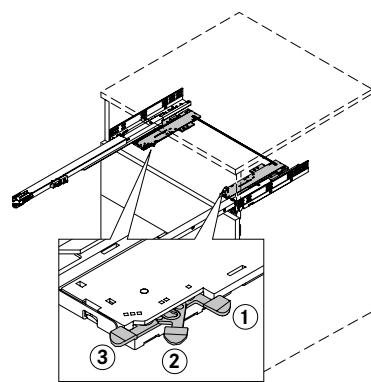


DYNAPRO TIPMATIC SOFT-CLOSE

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



Opening force

A**B****C**

PAGE REFERENCES

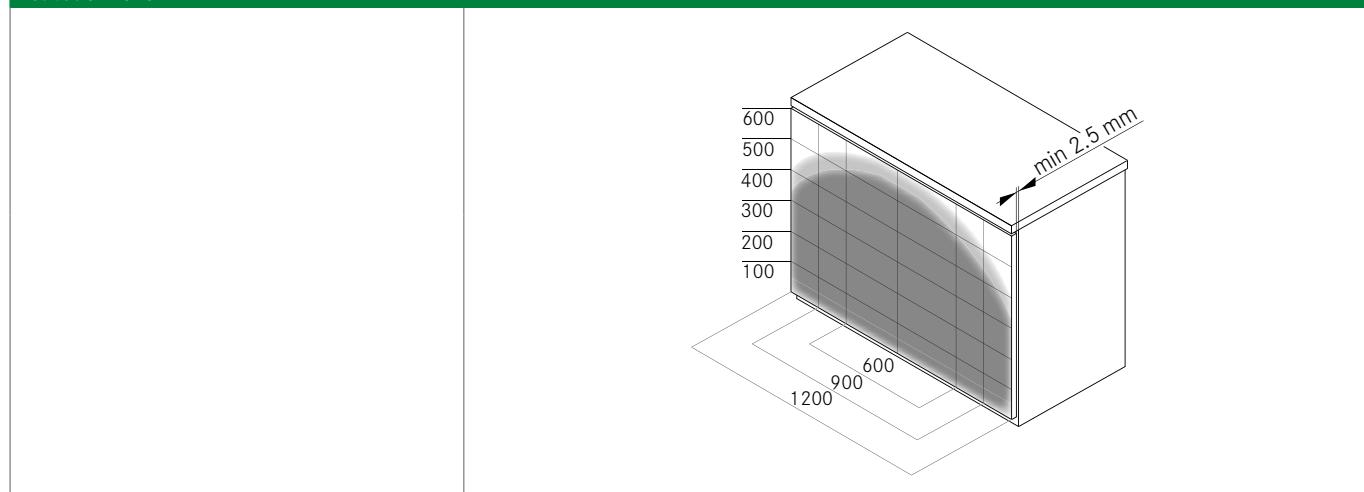
Dynapro Soft-close	12
Dynapro Tipmatic Soft-close	14

Dynapro Tipmatic	16
Pull-out shelf	18

Assembly aids	24
Sensomatic	27

DYNAPRO TIPMATIC SOFT-CLOSE

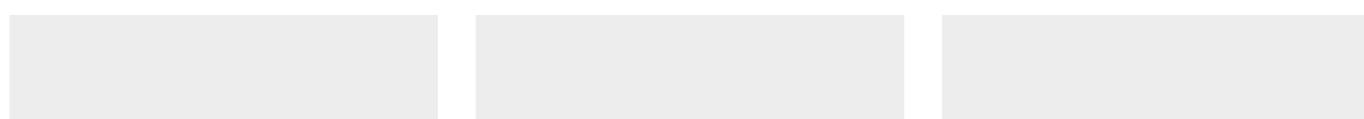
Activation zone



DYNAPRO TIPMATIC

Front gap adjustment (max. +1.5 mm)	Front gap adjustment from above	Front gap adjustment from below
<p>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 6 mm.</p>		

LEGEND



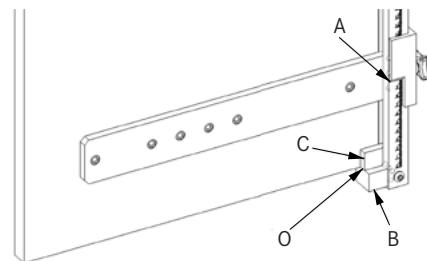


DRILLING JIG FOR CABINET MEMBER

One set includes:

- Guide rule (1x)
- Marking elements (4x)
- Stop plates B + C (1 each)

A. Reading edge = centre of holes
 B. Stop plate for loose cabinet parts
 C. Stop plate for assembled cabinet
 O. Zero scale position



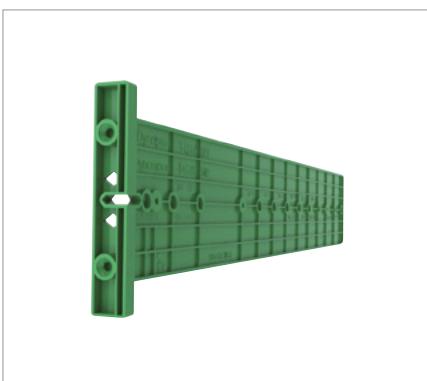
	Art.-no.	PU
	F146094730	501



INDIVIDUAL MARKING ELEMENT

For extending the drilling jig
 for cabinet member F146094730

	Art.-no.	PU
	F146094721	299



DRILLING JIG FOR CABINET MEMBER

For use with pilot drill bit F146035692

	Art.-no.	PU
	F146101348	507



DRILLING JIG FOR DRAWER

Pre-drilling the holes for:

- Locking coupler
- Adjustment adapter for Dynapro
- 37 mm cabinet member hole
- For use with pilot drill bit F146035692

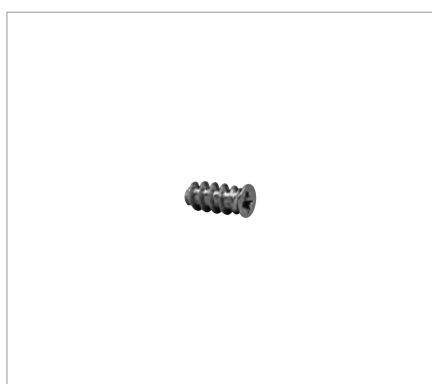
	Art.-no.	PU
	F146109874	299

PAGE REFERENCES

Dynapro Soft-close	12
Dynapro Tipmatic Soft-close	14

Dynapro Tipmatic	16
Pull-out shelf	18

Technical information	20
Sensomatic	27



EURO SCREW

	Art.-no.	PU
Ø 6.3 x 14 mm Screw head Ø 7 mm	F148115049	147



SCREWDRIVER

GRASS cross head screwdriver
(Pozidriv No. 2)

	Art.-no.	PU
	F147010256	001



PILOT DRILL BIT

The pilot drill bit is used for
pre-drilling holes for countersunk
chipboard screws Ø 3.5 mm

	Art.-no.	PU
Pilot drill bit	F146035692	299

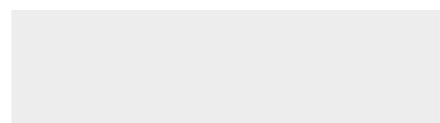
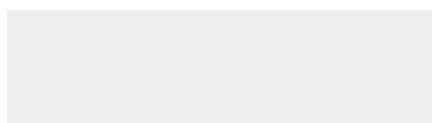
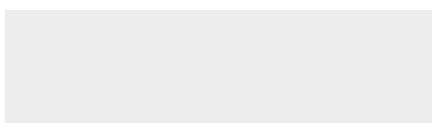


DRILLING JIG FOR SENOMATIC

For pre-drilling the holes for fixing brackets
at the assembled cabinet or loose bottom
or top panel, for the Sensomatic system

	Art.-no.	PU
	F146109850	299

LEGEND





SENSOMATIC OPENING SYSTEM

**Small lever. Large effect.
Functional technology starts with the detail.**

QUALITY CERTIFICATE



The development of new movement systems ideally means dealing directly with the people who will be using them. Sensomatic is the best reference in this respect.

The electro-mechanical system supports the opening process with a small lever which gently starts the drawer movement. Sensomatic is, however, very undemanding. This is true of both the consumption of electricity and the space required by the drive unit behind the drawer.

The fact that the opening system can be triggered anywhere on the front surface means that it is a perfect movement system that already now meets the functional requirements of the future.

DYNAPRO SENSOMATIC

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

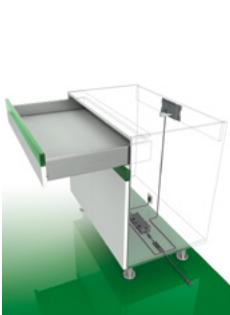
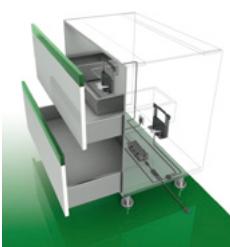
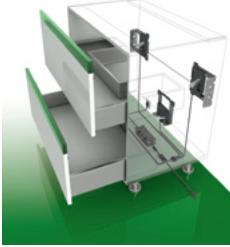
Product designation	Page
Dynapro Sensomatic single set	30
Standard cabinet with horizontal wooden stretcher	32
Standard cabinet with vertical wooden stretcher	34
Single drawer with overhead frame set mounting	36
Single drawer with back panel frame set mounting	38
Sink cabinet with bottom panel frame set mounting	40
Sink cabinet with side panel frame set mounting	42

Installation instructions	44
Assembly aids	25

DYNAPRO SENSOMATIC

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

	Product description	Page
	Dynapro Sensomatic single set <ul style="list-style-type: none">• Complete set for a single drawer• For cabinet widths of up to 1200 mm• Easy to install• Very simple wiring (plug and play)	30
	Standard cabinet with horizontal wooden stretcher <ul style="list-style-type: none">• Minimal additional space requirement between drawer back panel and cabinet• Very simple wiring (plug and play)• Just one drive unit for cabinet widths of up to 1200 mm• Large trigger range	32
	Standard cabinet with vertical wooden stretcher <ul style="list-style-type: none">• Minimal additional space requirement between drawer back panel and cabinet• Very simple wiring (plug and play)• Just one drive unit for cabinet widths of up to 1200 mm• Large trigger range	34
	Single drawer with overhead frame set mounting <ul style="list-style-type: none">• Minimal additional space requirement between drawer back panel and cabinet• Very simple wiring (plug and play)• Just one drive unit for cabinet widths of up to 1200 mm• Large trigger range	36

	Product description	Page
	<p>Single drawer with back panel frame set mounting</p> <ul style="list-style-type: none"> • Minimal additional space requirement between drawer back panel and cabinet • Very simple wiring (plug and play) • Just one drive unit for cabinet widths of up to 1200 mm • Large trigger range 	38
	<p>Sink cabinet with bottom panel frame set mounting</p> <ul style="list-style-type: none"> • Minimal additional space requirement between drawer back panel and cabinet • Very simple wiring (plug and play) • Just one drive unit for cabinet widths of up to 1200 mm • Large trigger range 	40
	<p>Sink cabinet with side panel frame set mounting</p> <ul style="list-style-type: none"> • Minimal additional space requirement between drawer back panel and cabinet • Very simple wiring (plug and play) • Just one drive unit for cabinet widths of up to 1200 mm • Large trigger range 	42

DYNAPRO SENOMATIC

Single set



- Electro-mechanical opening system
- Combines handle-free opening with Soft-close damping system
- 1 drive unit for all weight classes
- Easy to fit
- Simple plug and play wiring
- Small additional installation depth
- Single sets include all components necessary for installation
- Ideal for heavy pot drawers and waste separating systems

- **Note:**

Sets for other countries available on request

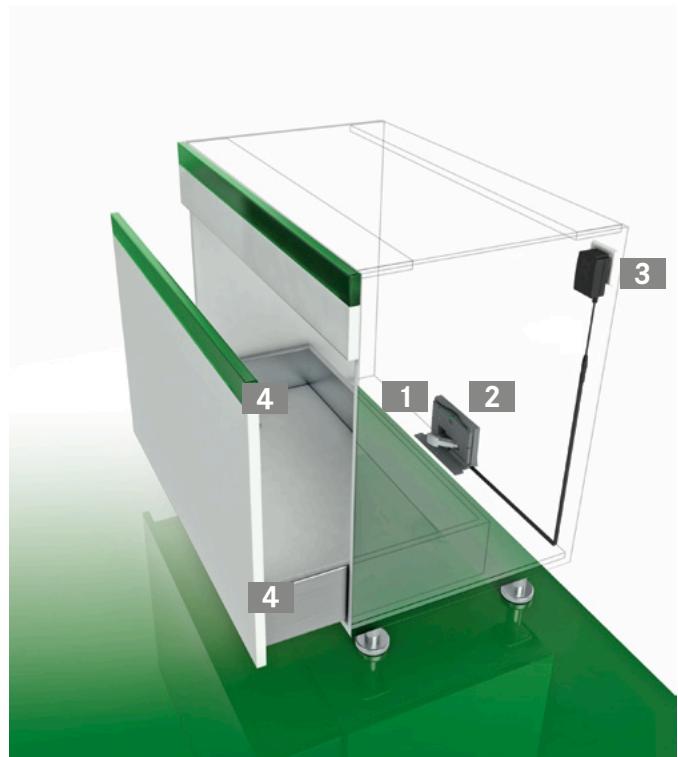
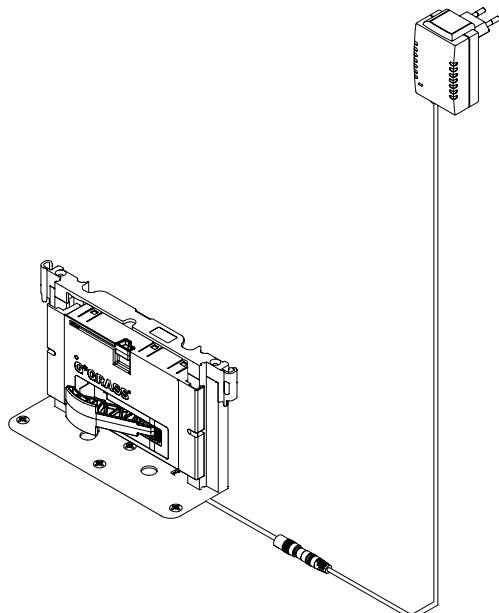
ORDER INFORMATION

Sensomatic single set		
	Art.-no.	PU
for Dynapro	F121101208	201

1 set includes:

- 1 drive unit (1x)
- 2 installation set (1x)
- 3 power supply unit with plug (1x)
(Central Europe, DE, FR, IT, CH, ES, RU, PT, NL)
- 4 spring-loaded front buffers (4x)

drilling and installation instructions (1x)



PAGE REFERENCES

Dynapro Soft-close	12	Installation instructions	44
Technical information	25	Packaging code	75

INSTALLATION INFORMATION

Installation dimensions

RW	MET	LBT
Wood	NL + 15	NL

Installation set

Position of drive unit

Position of front buffer

Note:
When installing Dynapro slides 70 kg, 4 front buffers must be inserted into the front.

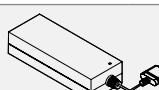
LEGEND

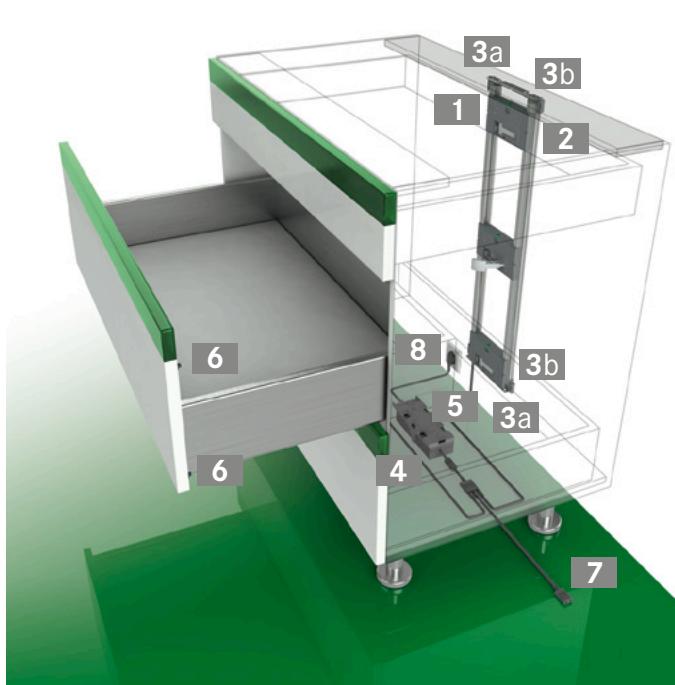
FA	Front overlay	LWK	Inside cabinet width	RW	Back panel
FH	Height of front	MET	Minimum installation depth		
KF	Cable routing	NL	Nominal length		
LBT	Depth of hole pattern	P	Positioning aid		

DYNAPRO SENOMATIC

Standard cabinet horizontal wooden stretcher

ORDER INFORMATION

1 Drive unit			
		Art.-no.	PU
for Dynapro		F121101195	607
2 Frame sides including frame side cable			
		Length	Art.-no.
	653	F121100284	207
	750	F121100285	207
	1170	F121100286	207
3 Fastening set consisting of: items 3a (2x) and 3b (2x)			
		Art.-no.	PU
		F121100610	507
3b Fixing brackets top/bottom			
		Art.-no.	PU
		F121100270	211
5 Power supply unit holder			
		Art.-no.	PU
		F121100604	507
4 Power supply unit			
		Art.-no.	PU
		F121100269	607
6 Front buffer, spring-loaded			
		Ø	Front gap
	5	2.2	F121100294
		3	F121100295
	8	2.2	F121100297
		3	F121100298
7 Connection cable with 2-way adapter			
		Length	Art.-no.
	600	F121100288	207
	1000	F121100289	207
	2000	F121100291	207
8 Power supply cable			
		Plug	Art.-no.
	Power supply cable K (USA, CAN)	F120069760	207
	Power supply cable K (JP)	F120072445	207
	Power supply cable A (DE, ES, FR, IT, RU, NL, SE)	F120069761	207
	Power supply cable E (DK)	F120069763	207
	Power supply cable L (CH)	F120069765	207
	Power supply cable D (UK, AE, MY)	F120069766	207
	Mains cable C (AU, NZ)	F120078669	207
	without plug	F120069767	207

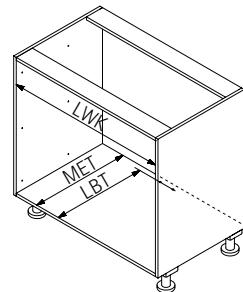
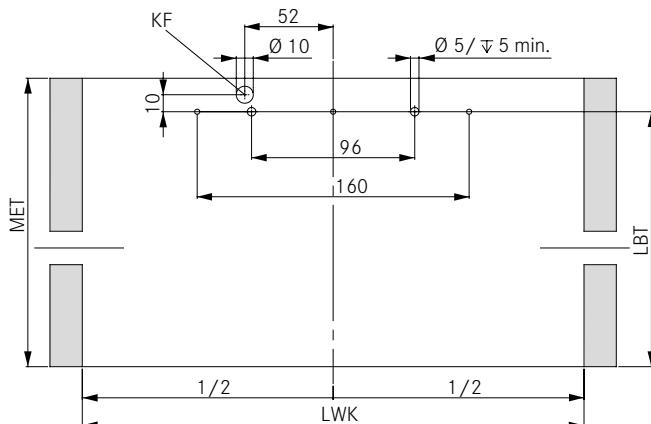


PAGE REFERENCES

Dynapro Soft-close	12	Installation instructions	44	
Technical information	25	Packaging code	75	

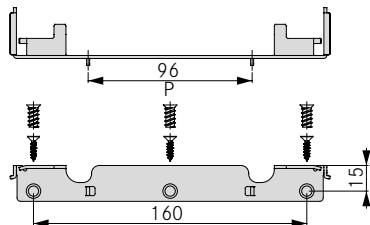
INSTALLATION INFORMATION

Installation dimensions

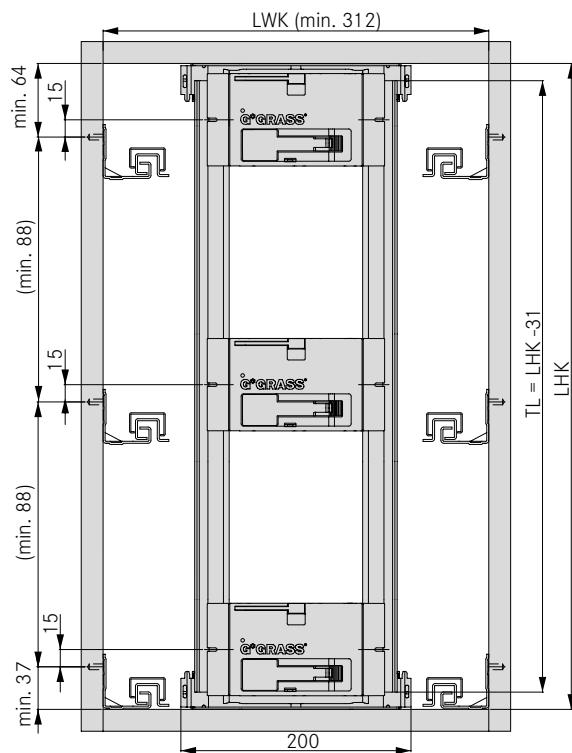


RW	MET	LBT
Wood	NL + 15	NL

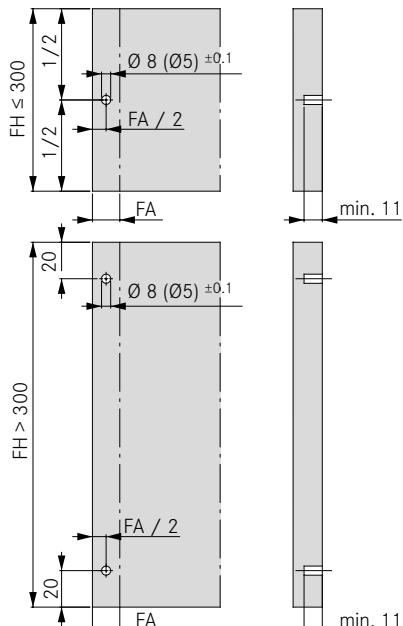
Fixing brackets top/bottom



Position of drive unit



Position of front buffer



Note:

Note: When installing Dynapro slides 70 kg, 4 front buffers must be inserted into the front.

LEGEND

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

DYNAPRO SENSOMATIC

Standard cabinet vertical wooden stretcher

ORDER INFORMATION

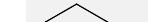
1	Drive unit	
for Dynapro	Art.-no.	PU

2	Frame sides including frame side cable	
Length	Art.-no.	PU
653	F121100284	207
750	F121100285	207
1170	F121100286	207

3	Frame connector	
		Art.-no. E121100282 211

4	Fixing brackets top/bottom							
		<table border="1"> <tr> <td></td><td>Art.-no.</td><td>PU</td></tr> <tr> <td></td><td>E121100270</td><td>211</td></tr> </table>		Art.-no.	PU		E121100270	211
	Art.-no.	PU						
	E121100270	211						

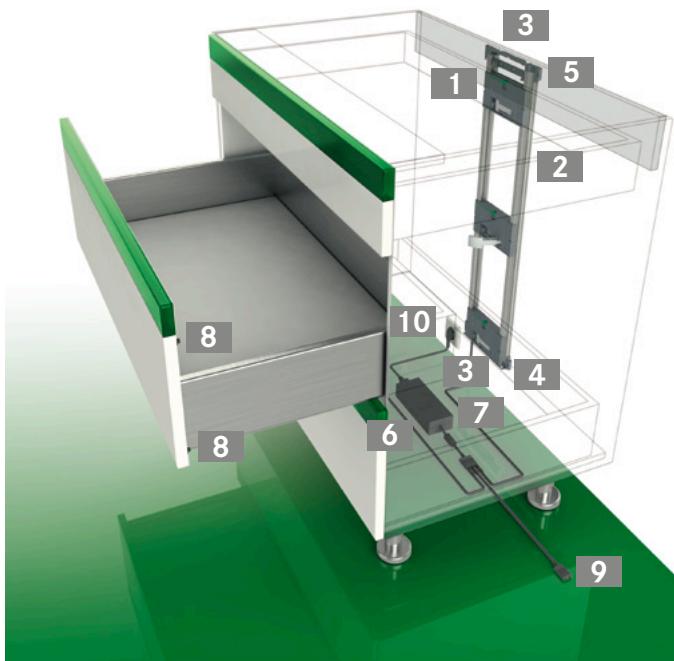
5	Fixing bracket, back inside mounted							
		<table border="1"> <thead> <tr> <th></th> <th>Art.-no.</th> <th>PU</th> </tr> </thead> <tbody> <tr> <td></td> <td>E121100275</td> <td>207</td> </tr> </tbody> </table>		Art.-no.	PU		E121100275	207
	Art.-no.	PU						
	E121100275	207						

6	Power supply unit	
		Art.-no. PU

7	Power supply unit holder	
	Art.-no.	PU

8	Front buffer, spring-loaded	
Ø	Front gap	Art.-no.
5	2.2	F121100294 223
	3	F121100295 223
8	2.2	F121100297 223
	3	F121100298 223

9	Connection cable with 2-way adapter	
	Length	Art.-no.
	600	F121100288
	1000	F121100289
	2000	F121100291



10	Power supply cable		
Plug		Art.-no.	PU
Power supply cable K (USA, CAN)		F120069760	207
Power supply cable K (JP)		F120072445	207
Power supply cable A (DE, ES, FR, IT, RU, NL, SE)		F120069761	207
Power supply cable E (DK)		F120069763	207
Power supply cable L (CH)		F120069765	207
Power supply cable D (UK, AE, MY)		F120069766	207
Mains cable C (AU, NZ)		F120078669	207
without plug		F120069767	207

PAGE REFERENCES

Dynapro Soft-close	12	Installation instructions	44	
Technical information	25	Packaging code	75	

INSTALLATION INFORMATION

Installation dimensions

RW	MET	LBT
Wood	NL + 15	NL

Fixing brackets top/bottom

Fixing bracket, back inside mounted

Position of drive unit

Position of front buffer

Note:
When installing Dynapro slides 70 kg, 4 front buffers must be inserted into the front.

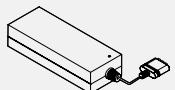
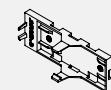
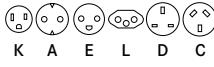
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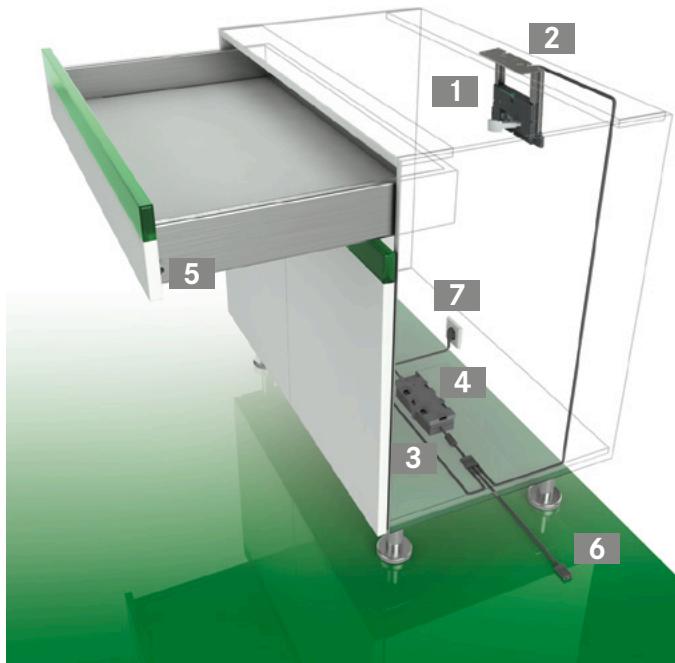
FA	Front overlay	LHK	Inside cabinet height	P	Positioning aid
FH	Height of front	LWK	Inside cabinet width	RW	Back panel
KF	Cable routing	MET	Minimum installation depth	TL	Length of frame side
LBT	Depth of hole pattern	NL	Nominal length		

DYNAPRO SENOMATIC

Single drawer with overhead frame set mounting

ORDER INFORMATION

1 Drive unit		2 Installation set	
for Dynapro		Art.-no.	PU
		F121101195	607
3 Power supply unit		4 Power supply unit holder	
		Art.-no.	PU
		F121100269	607
5 Front buffer, spring-loaded		6 Connection cable with 2-way adapter	
Ø	Front gap	Art.-no.	PU
5	2.2	F121100294	223
	3	F121100295	223
8	2.2	F121100297	223
	3	F121100298	223
7 Power supply cable			
Plug		Art.-no.	PU
Power supply cable K (USA, CAN)		F120069760	207
Power supply cable K (JP)		F120072445	207
Power supply cable A (DE, ES, FR, IT, RU, NL, SE)		F120069761	207
Power supply cable E (DK)		F120069763	207
Power supply cable L (CH)		F120069765	207
Power supply cable D (UK, AE, MY)		F120069766	207
Mains cable C (AU, NZ)		F120078669	207
without plug		F120069767	207



PAGE REFERENCES

Dynapro Soft-close	12	Installation instructions	44	
Technical information	25	Packaging code	75	

INSTALLATION INFORMATION

Installation dimensions

RW	MET	LBT
Wood	NL + 15	NL

Installation set

Position of drive unit

Position of front buffer

Note:
When installing Dynapro slides 70 kg, 4 front buffers must be inserted into the front.

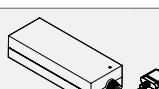
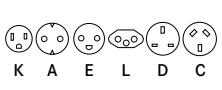
LEGEND

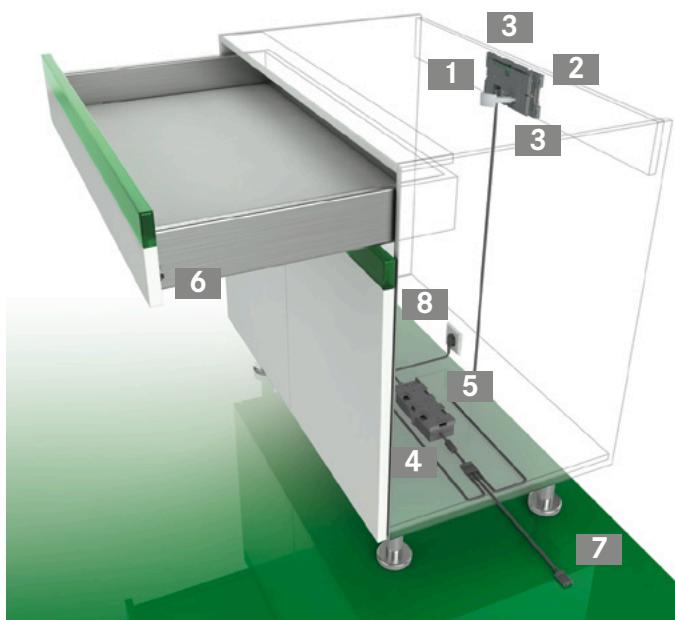
FA	Front overlay	LBT	Depth of hole pattern	P	Positioning aid
FH	Height of front	LWK	Inside cabinet width	RW	Back panel
KF	Cable routing	MET	Minimum installation depth		
KUB	Cabinet base	NL	Nominal length		

DYNAPRO SENOMATIC

Single drawer with back panel frame set mounting

ORDER INFORMATION

1 Drive unit				
	Art.-no.	PU		
for Dynapro	F121101195	607		
2 Frame sides for back panel frame set mounting including hole drilling				
	Art.-no.	PU		
	F121100283	207		
3 Frame connector				
	Art.-no.	PU		
	F121100282	211		
4 Power supply unit				
	Art.-no.	PU		
	F121100269	607		
5 Power supply unit holder				
	Art.-no.	PU		
	F121100604	507		
6 Front buffer, spring-loaded				
	Ø	Front gap	Art.-no.	PU
5		2.2	F121100294	223
		3	F121100295	223
8		2.2	F121100297	223
		3	F121100298	223
7 Connection cable with 2-way adapter				
Length	Art.-no.	PU		
600	F121100288	207		
1000	F121100289	207		
2000	F121100291	207		
8 Power supply cable				
Plug	Art.-no.	PU		
Power supply cable K (USA, CAN)	F120069760	207		
Power supply cable K (JP)	F120072445	207		
Power supply cable A (DE, ES, FR, IT, RU, NL, SE)	F120069761	207		
Power supply cable E (DK)	F120069763	207		
Power supply cable L (CH)	F120069765	207		
Power supply cable D (UK, AE, MY)	F120069766	207		
Mains cable C (AU, NZ)	F120078669	207		
without plug	F120069767	207		



PAGE REFERENCES

Dynapro Soft-close	12	Installation instructions	44	
Technical information	25	Packaging code	75	

INSTALLATION INFORMATION

Installation dimensions

RW	MET
Wood	NL + 15

Frame sides

Position of drive unit

Position of front buffer

Note:
When installing Dynapro slides 70 kg, 4 front buffers must be inserted into the front.

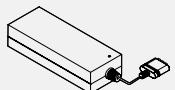
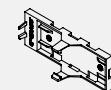
LEGEND

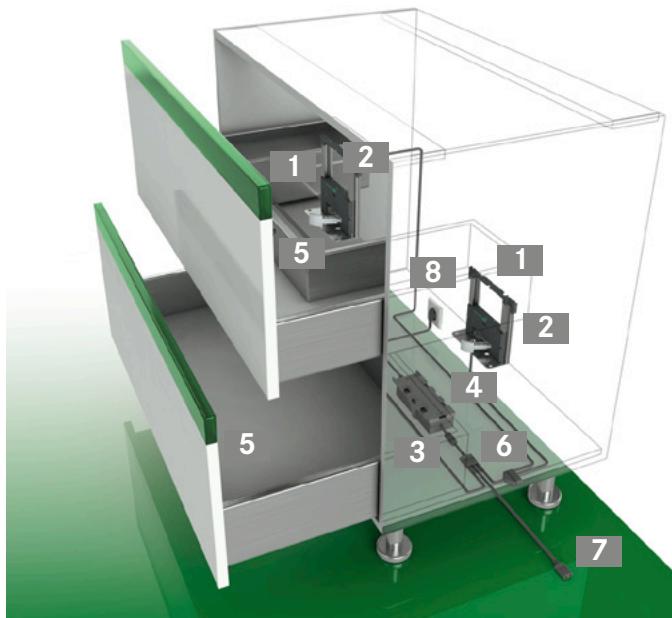
FA	Front overlay	MET	Minimum installation depth
FH	Height of front	NL	Nominal length
KF	Cable routing	RW	Back panel
LWK	Inside cabinet width	SPS	Chipboard screw

DYNAPRO SENOMATIC

Sink cabinet with bottom panel frame set mounting

ORDER INFORMATION

1 Drive unit		2 Installation set	
for Dynapro		Art.-no.	PU
		F121101195	607
3 Power supply unit		4 Power supply unit holder	
		Art.-no.	PU
		F121100269	607
5 Front buffer, spring-loaded		6 4-way adapter	
Ø	Front gap	Art.-no.	PU
5	2.2	F121100294	223
	3	F121100295	223
8	2.2	F121100297	223
	3	F121100298	223
7 Connection cable with 2-way adapter			
Length		Art.-no.	PU
600		F121100288	207
1000		F121100289	207
2000		F121100291	207
8 Power supply cable			
Plug		Art.-no.	PU
Power supply cable K (USA, CAN)		F120069760	207
Power supply cable K (JP)		F120072445	207
Power supply cable A (DE, ES, FR, IT, RU, NL, SE)		F120069761	207
Power supply cable E (DK)		F120069763	207
Power supply cable L (CH)		F120069765	207
Power supply cable D (UK, AE, MY)		F120069766	207
Mains cable C (AU, NZ)		F120078669	207
without plug		F120069767	207



PAGE REFERENCES

Dynapro Soft-close	12	Installation instructions	44	
Technical information	25	Packaging code	75	

INSTALLATION INFORMATION

Installation dimensions - bottom panel frame set mounting

RW	MET	LBT	LBTS
Wood	NL + 15	NL	NL(A) - NL(B) + 9

Installation set

Sink cabinet installation

Position of drive unit

Position of front buffer

Note:
When installing Dynapro slides 70 kg, 4 front buffers must be inserted into the front.

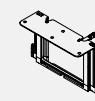
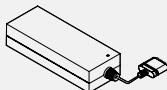
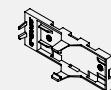
LEGEND

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

DYNAPRO SENOMATIC

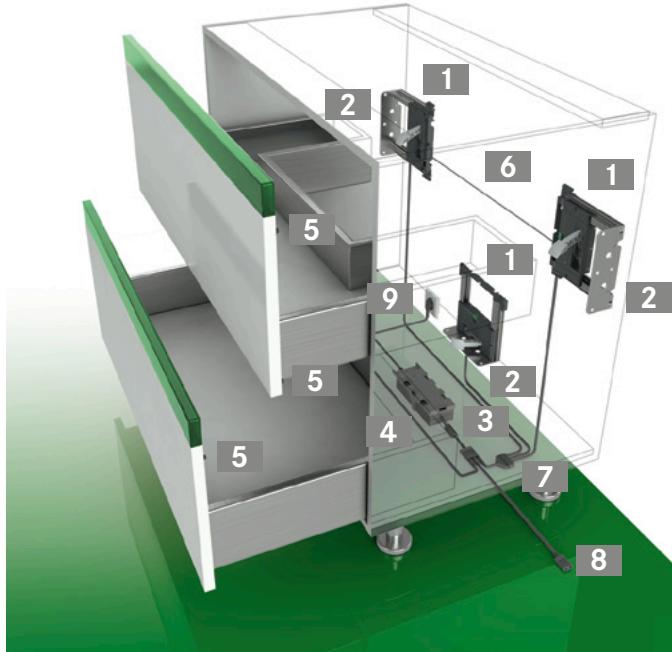
Sink cabinet with side panel frame set mounting

ORDER INFORMATION

1 Drive unit			
	Art.-no.	PU	
for Dynapro	F121101195	607	
2 Installation set			
	Art.-no.	PU	
	F121100273	207	
3 Power supply unit			
	Art.-no.	PU	
	F121100269	607	
4 Power supply unit holder			
	Art.-no.	PU	
	F121100604	507	
5 Front buffer, spring-loaded			
Ø	Front gap	Art.-no.	PU
5	2.2	F121100294	223
	3	F121100295	223
8	2.2	F121100297	223
	3	F121100298	223
6 Synchronisation cable 10 m			
	Art.-no.	PU	
	F121100287	207	
7 4-way adapter			
	Art.-no.	PU	
	F121100293	207	
8 Connection cable with 2-way adapter			
Length	Art.-no.	PU	
600	F121100288	207	
1000	F121100289	207	
2000	F121100291	207	
9 Power supply cable			
Plug	Art.-no.	PU	
Power supply cable K (USA, CAN)	F120069760	207	
Power supply cable K (JP)	F120072445	207	
Power supply cable A (DE, ES, FR, IT, RU, NL, SE)	F120069761	207	
Power supply cable E (DK)	F120069763	207	
Power supply cable L (CH)	F120069765	207	
Power supply cable D (UK, AE, MY)	F120069766	207	
Mains cable C (AU, NZ)	F120078669	207	
without plug	F120069767	207	

NOTE

Suitable from NL 350



PAGE REFERENCES

Dynapro Soft-close	12	Installation instructions	44
Technical information	25	Packaging code	75

INSTALLATION INFORMATION

Installation dimensions – bottom panel frame set mounting	Installation dimensions – side panel frame set mounting						
	<table border="1"> <tr> <td>RW</td><td>MET</td><td>LBT</td></tr> <tr> <td>Wood</td><td>NL + 15</td><td>NL</td></tr> </table>	RW	MET	LBT	Wood	NL + 15	NL
RW	MET	LBT					
Wood	NL + 15	NL					
Installation set							
Position of drive unit, bottom panel frame set mounting	Position of front buffer						
Position of drive unit, side panel frame set mounting							
<p>Note: When installing 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	Height of front	LWK	Inside cabinet width	RW	Back panel
KF	Cable routing	MET	Minimum installation depth		
LBH	Height of hole pattern	NL	Nominal length		

DYNAPRO SENOMATIC

Installation instructions

INSTALLATION INSTRUCTIONS

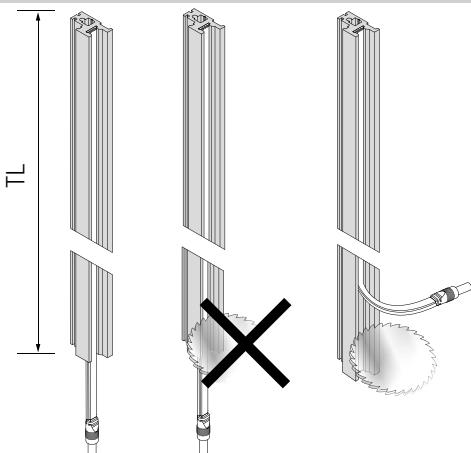
Stretcher installation	Standard cabinet installation with horizontal wooden stretcher	Standard cabinet installation with vertical wooden stretcher
Overhead frame set mounting, single drawer		Back panel frame set mounting, single drawer
Bottom panel frame set mounting, sink cabinet		Side panel frame set mounting, sink cabinet

PAGE REFERENCES

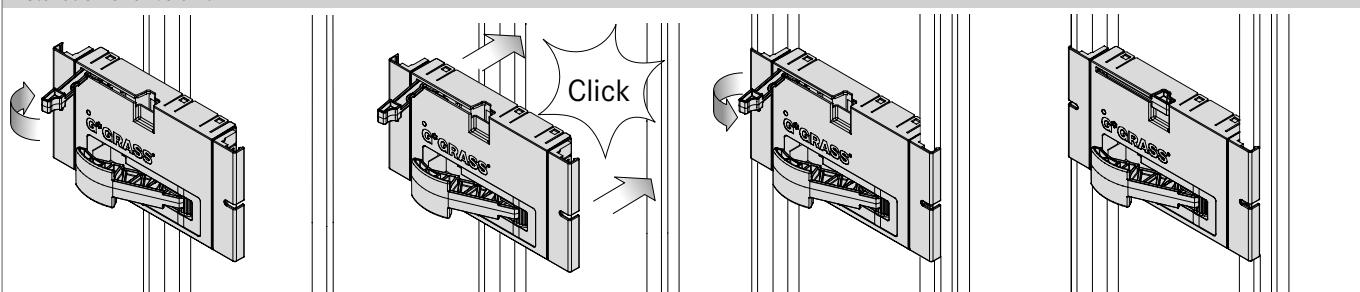
Horizontal wooden stretcher	32	Overhead frame set mounting	36	Bottom panel frame set mounting	40
Vertical wooden stretcher	34	Back panel frame set mounting	38	Side panel frame set mounting	42

INSTALLATION INSTRUCTIONS

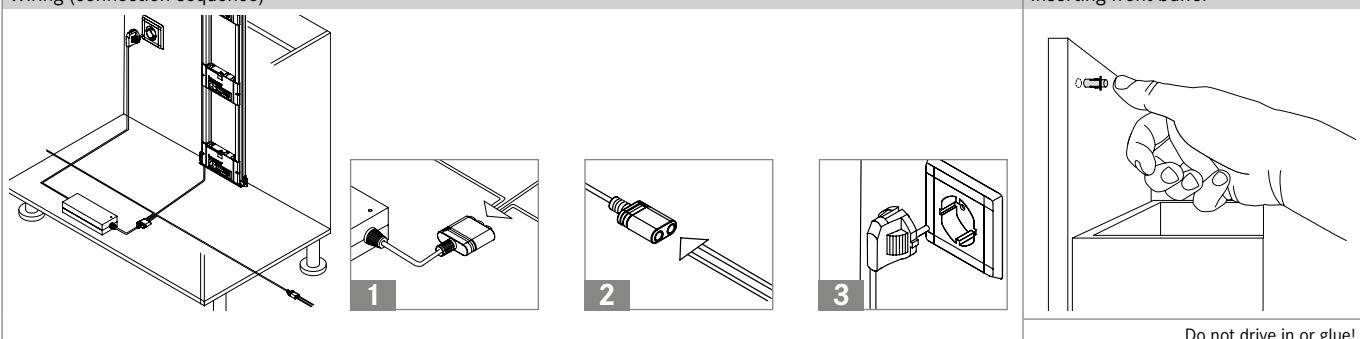
Cutting stretcher to length (horizontal and vertical wooden stretcher)



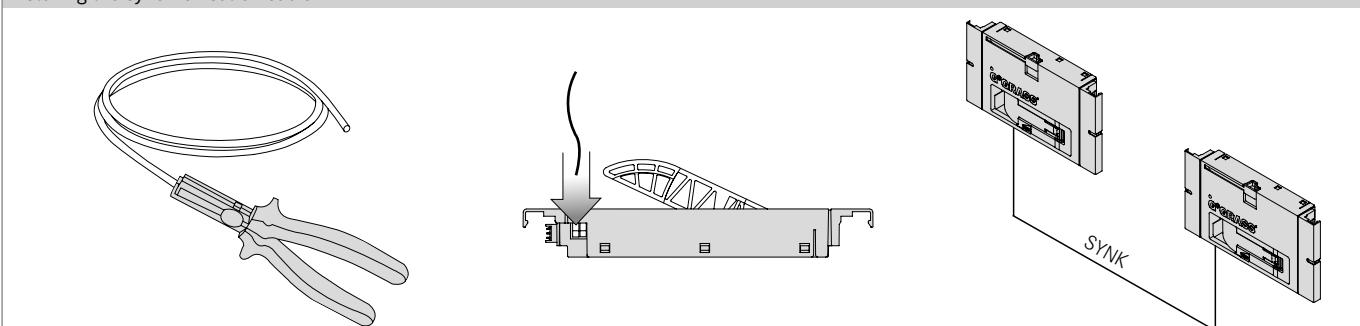
Installation of drive unit



Wiring (connection sequence)



Installing the synchronisation cable



LEGEND

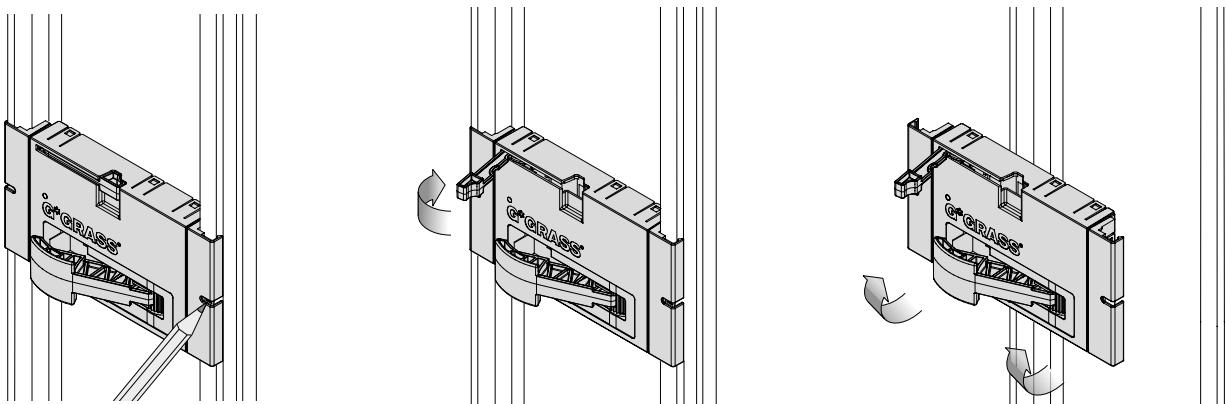
SYNK	Synchronisation cable
TL	Length of frame side

DYNAPRO SENOMATIC

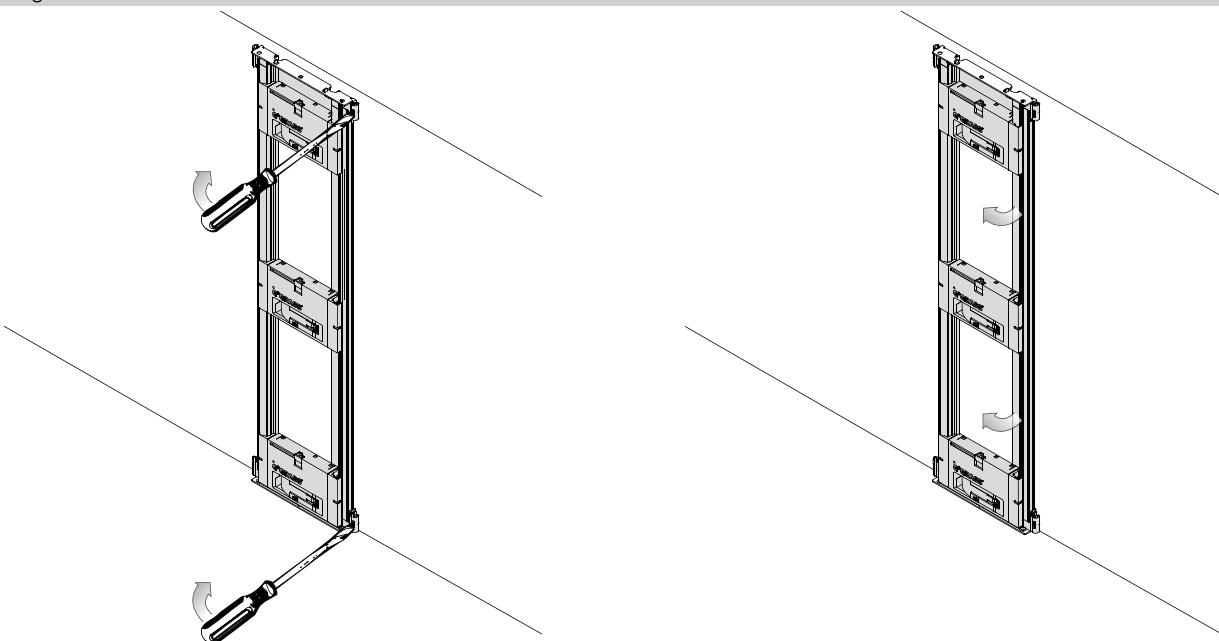
Dismantling instructions

DISMOUNTING

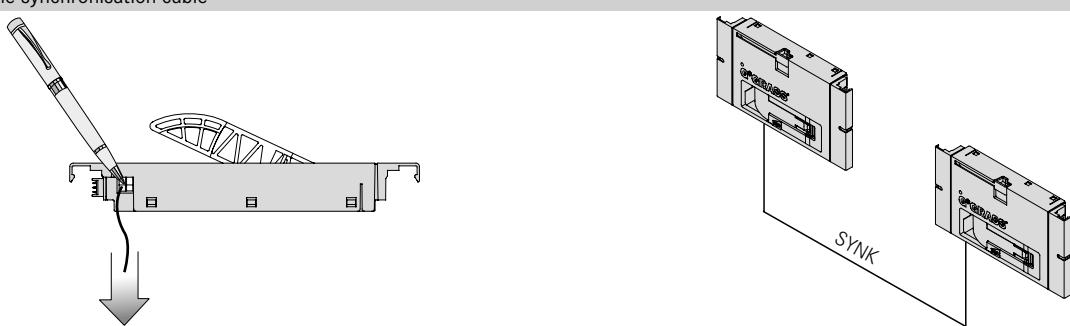
Dismantling the drive unit



Dismantling the frame sides



Dismantling the synchronisation cable

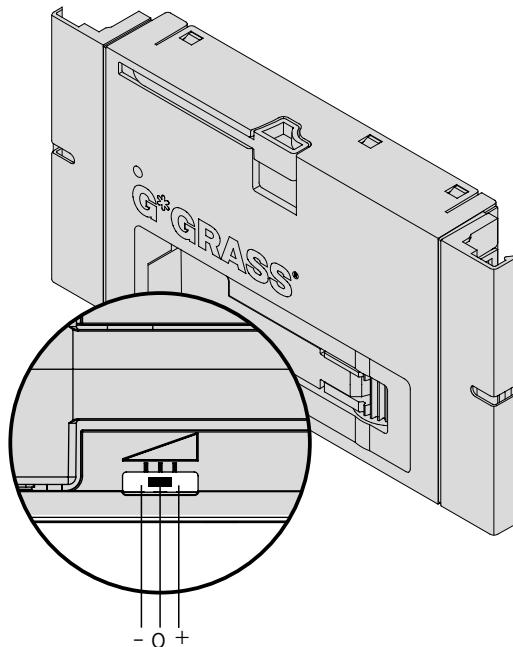


PAGE REFERENCES

Horizontal wooden stretcher	32	Overhead frame set mounting	36	Bottom panel frame set mounting	40
Vertical wooden stretcher	34	Back panel frame set mounting	38	Side panel frame set mounting	42

ADJUSTMENT

Variable drive force



NOTES

- Cabinet must be level
- System must be disconnected for installation and dismantling!
- Provide switched sockets
- From a cabinet width of 1200 mm we recommend the installation of 2 drive units. The synchronisation cable ensures that these units are activated simultaneously
- **Important:**
In the area of the drive lever, no screws must be inserted into the drawer back panel
- Per power supply unit it is possible to operate up to 30 drive units

TECHNICAL DATA

- **Application area**
only in dry, indoor rooms
- **Power supply unit**
Voltage supply: 100 to 240 V
Power supply frequency: 50 to 60 Hz
Max. power output: 230 W
- **Drive unit**
Voltage supply: 24 V
- **Operating conditions**
Temperature: 0 to 50 °C
Relative humidity: 15 to 90 %
non-condensing

LEGEND

SYNK Synchronisation cable



DYNAMOOV SLIDE SYSTEM

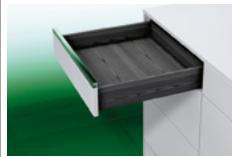
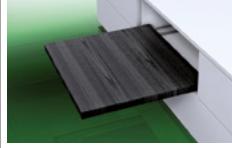
The economical alternative for those who do not want to make any compromises when it comes to running characteristics.

QUALITY CERTIFICATE
LGAD



DYNAMOOV SLIDE SYSTEM

The highly efficient movement system
for the future.

	Product description	Page
	Dynamooov full extension slide 30 kg Soft-close <ul style="list-style-type: none">• Soft-close damping system• Integrated height adjustment without tools + 3.5 mm	50
	Dynamooov full extension slide 30 kg Self-close <ul style="list-style-type: none">• Self-close closing system• Integrated height adjustment without tools + 3.5 mm	52
	Dynamooov full extension slide 30 kg Tipmatic <ul style="list-style-type: none">• Tipmatic opening system• Integrated height adjustment without tools + 3.5 mm• Integrated front gap adjustment + 2 mm	54
	Dynamooov for base panel mounting and pull-out shelf <ul style="list-style-type: none">• Installation on the cabinet base or additional base panel• Shelf holder set	56
	Technical information	58
	Assembly aids	60

DYNAMOOV SOFT-CLOSE

Full extension slide 30 kg



- Excellent running characteristics
- Fully synchronised slide technology
- Soft-close damping system
- Stepless self-locking of the drawer when placed on the slide
- Integrated height adjustment, tool-free +3.5 mm
- Optional depth adjustment +3.5 mm

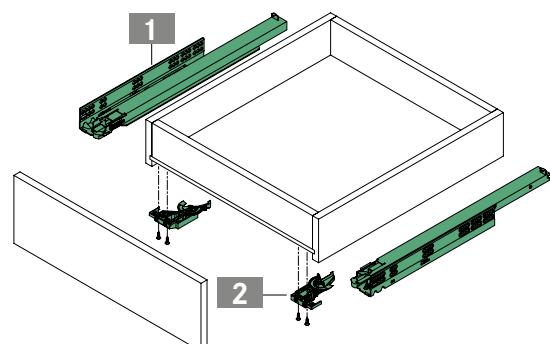
Packaging unit (PU):

204 = 5 units in a cardboard box
 208 = 12 units in a cardboard box
 210 = 15 units in cardboard box
 211 = 20 units in cardboard box
 233 = 200 units in a cardboard box
 517 = 50 units in PE in a cardboard box
 533 = 200 units in PE in a cardboard box

ORDER INFORMATION

1 Dynamoov full extension slide Soft-close Set: One left, one right			
30 kg			
NL	Art.-no.	PU	
250	F130107760	204	
270	F130107761	204	211
300	F130107764	204	211
320	F130107767	204	
350	F130107768	204	211
380	F130107771	204	
400	F130107772	204	211
420	F130107775	204	
450	F130107776	204	210
480	F130107779	204	
500	F130107780	204	210
520	F130107783	204	
550	F130107784	204	210
600	F130107787	204	208

2 Front locking device (1D) Set: One left, one right			
	Art.-no.	PU	
	F134101220	517	233
Optional: Depth adjustment (1D) Set: One left, one right			
	F134101313	533	

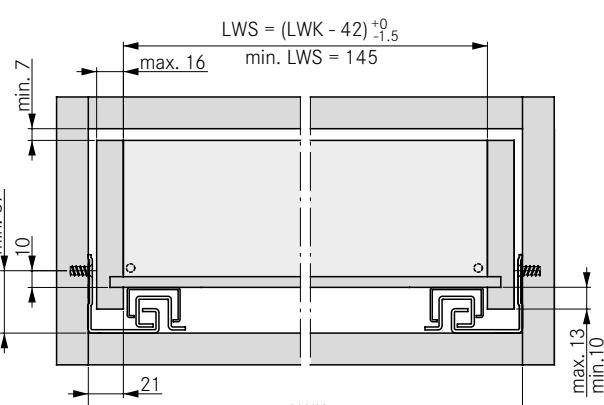
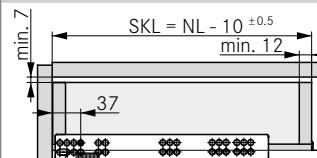
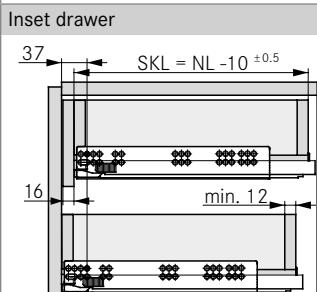


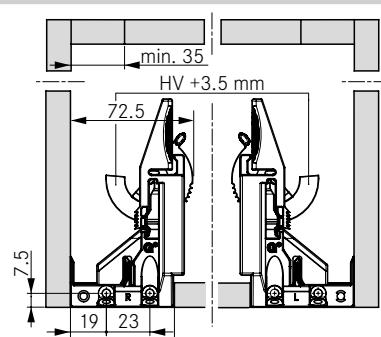
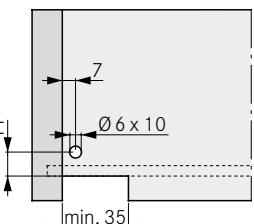
PAGE REFERENCES

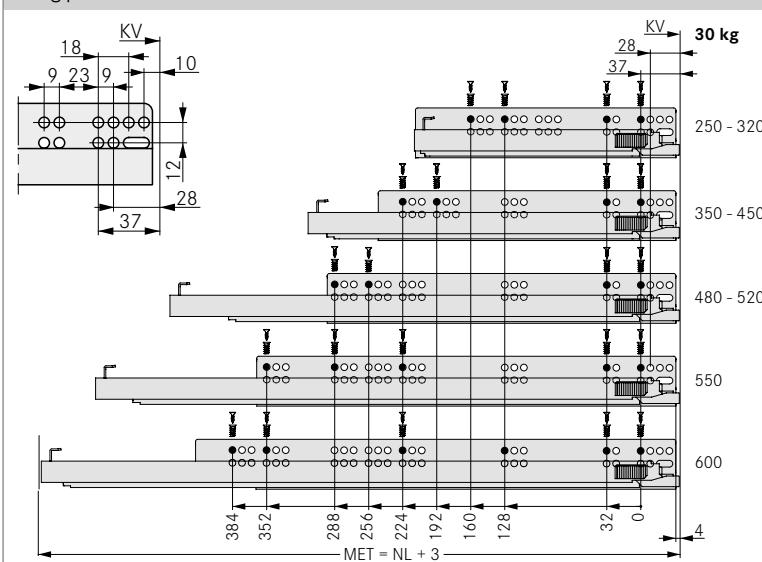
Pull-out shelf	56	Assembly aids	60	
Technical information	58	Packaging code	75	

PLANNING DIMENSIONS

All dimensions in millimetres

Installation dimensions		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
			600	590	603

Locking device fixing position	Back panel hole
	

Fixing positions for full extension drawer	Euro screw Ø 6.3 x 14 mm
	Chipboard screw Ø 4 x 16 mm
	Screw head Ø 7 mm
	

LEGEND

HV Height adjustment
KV Front edge of cabinet
LWK Inside cabinet width
LWS Internal drawer width

MET Minimum installation depth
NL Nominal length
SKL Length of drawer

DYNAMOOV SELF-CLOSE

Full extension slide 30 kg



- Excellent running characteristics
- Fully synchronised slide technology
- Self-close closing system
- Stepless self-locking of the drawer when placed on the slide
- Integrated height adjustment, tool-free +3.5 mm
- Optional depth adjustment +3.5 mm

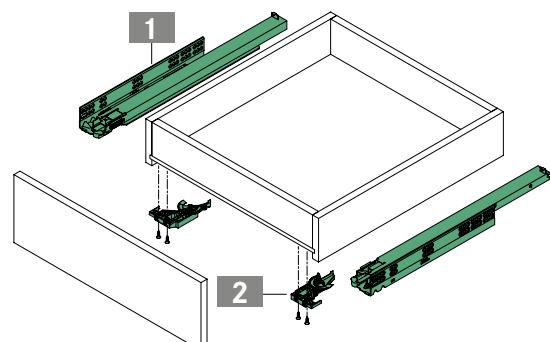
Packaging unit (PU):

204 = 5 units in a cardboard box
233 = 200 units in a cardboard box
517 = 50 units in PE in a cardboard box
533 = 200 units in PE in a cardboard box

ORDER INFORMATION

1 Dynamoov full extension slide Self-close Set: One left, one right			
NL	30 kg		
	Art.-no.	PU	
270	F130101161	204	
300	F130101162	204	
350	F130101164	204	
400	F130101166	204	
450	F130101168	204	
500	F130101170	204	
550	F130101172	204	

2 Front locking device (1D) Set: One left, one right			
	Art.-no.	PU	
	F134101220	517	233
Optional: Depth adjustment (1D) Set: One left, one right			
	F134101313	533	



PAGE REFERENCES

Pull-out shelf	56	Assembly aids	60	
Technical information	58	Packaging code	75	

PLANNING DIMENSIONS

All dimensions in millimetres

Installation dimensions		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

Locking device fixing position	Back panel hole

Fixing positions for full extension drawer	Euro screw Ø 6.3 x 14 mm
	Chipboard screw Ø 4 x 16 mm
	Screw head Ø 7 mm

LEGEND

HV Height adjustment
KV Front edge of cabinet
LWK Inside cabinet width
LWS Internal drawer width

MET Minimum installation depth
NL Nominal length
SKL Length of drawer

DYNAMOOV TIPMATIC

Full extension slide 30 kg



- Tipmatic full extension slide for handle-free fronts
- Tipmatic ejector unit integrated into the slide
- Excellent running characteristics
- Fully synchronised slide technology
- Integrated height adjustment, tool-free +3.5 mm
- Integrated front gap adjustment +1.5 mm
- The Tipmatic unit will not suffer damage when the drawer is pulled open in the conventional way
- Pressing within the central third of the front produces optimum opening action

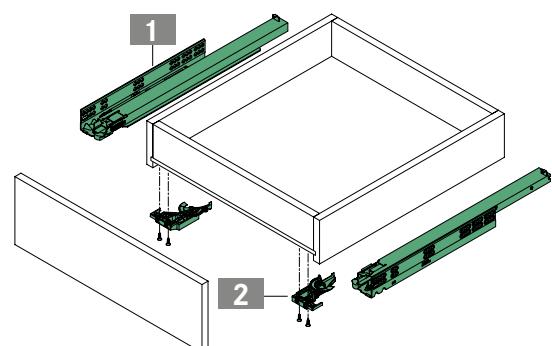
Packaging unit (PU):

204 = 5 units in a cardboard box
 210 = 15 units in cardboard box
 211 = 20 units in cardboard box
 233 = 200 units in a cardboard box
 517 = 50 units in PE in a cardboard box

ORDER INFORMATION

1 Dynamoov full extension slide Tipmatic Set: One left, one right			
NL	30 kg		
	Art.-no.	PU	
270	F130101114	204	211
300	F130101115	204	211
350	F130101117	204	211
400	F130101119	204	211
450	F130101121	204	210
500	F130101123	204	210
550	F130101125	204	210

2 Front locking device (1D) Set: One left, one right			
	Art.-no.	PU	
	F134101220	517	233



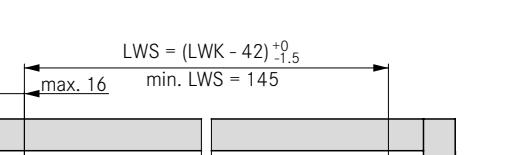
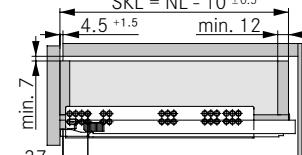
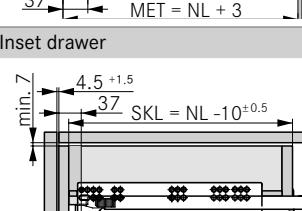
PAGE REFERENCES

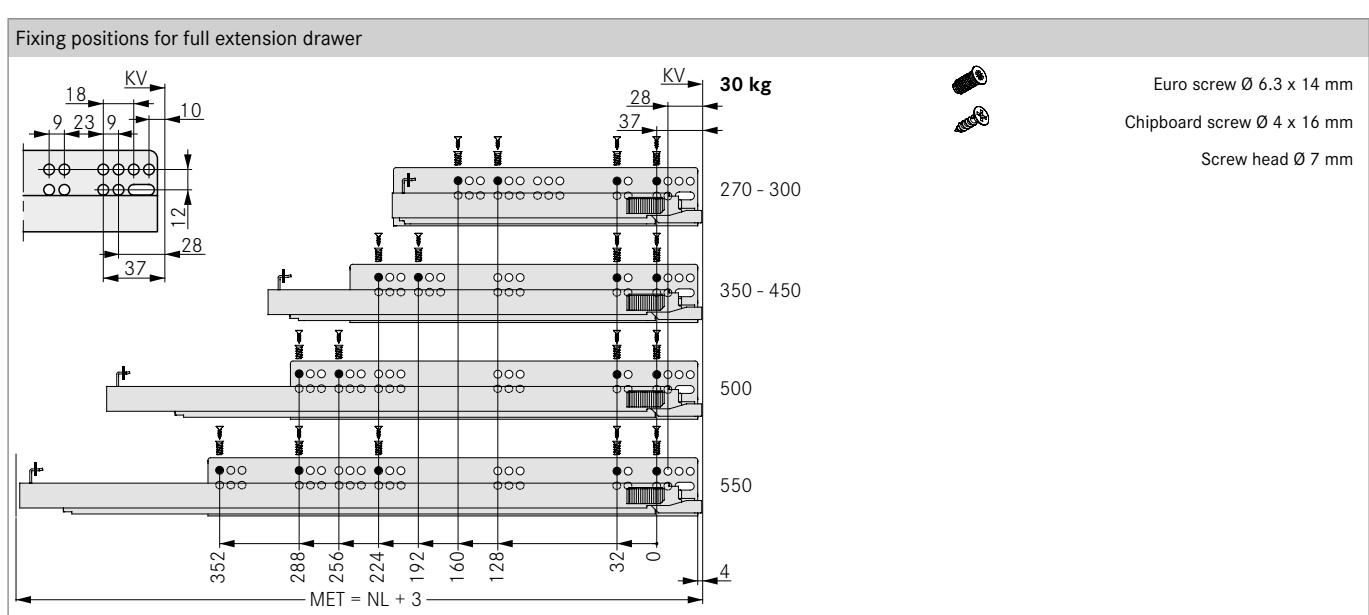
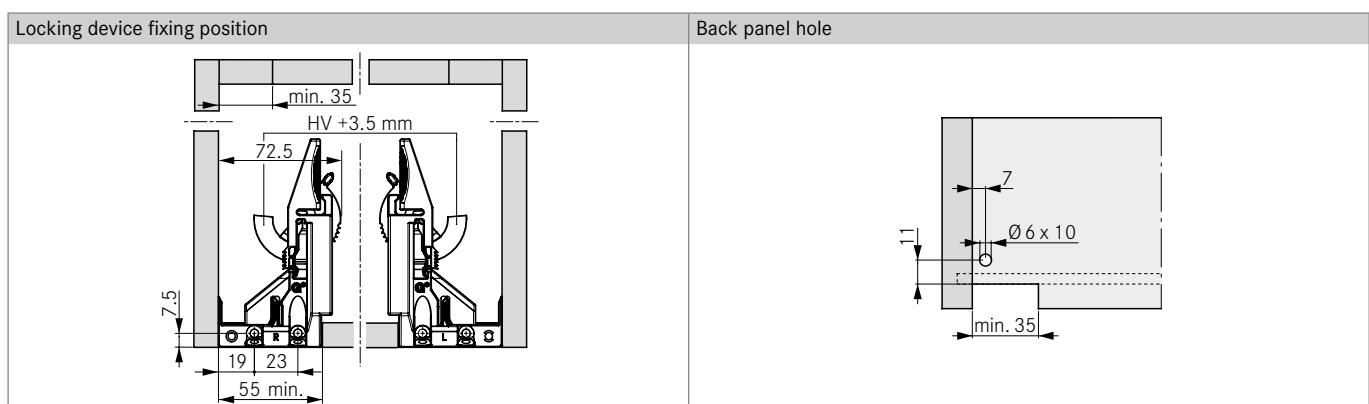
Pull-out shelf	56
Technical information	58

Assembly aids	60
Packaging code	75

PLANNING DIMENSIONS

All dimensions in millimetres

Installation dimensions	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



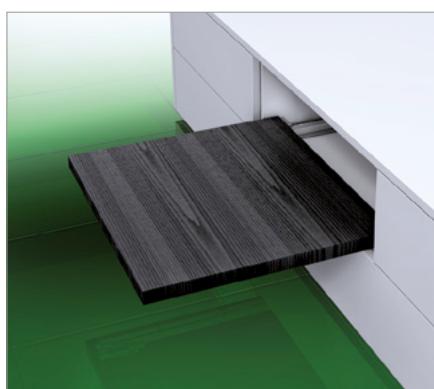
LEGEND

HV	Height adjustment
KV	Front edge of cabinet
LWK	Inside cabinet width
LWS	Internal drawer width

MET	Minimum installation depth
NL	Nominal length
SKL	Length of drawer

DYNAMOOV

Base panel mounting and pull-out shelf



Dynamoov for base panel mounting:

- Full extension drawer synchronised, 30 kg load capacity
- Soft-close damping system
- Assembly on cabinet base or additional base panel
- Particularly suitable for pull-out shelves (no screw-on bracket at side)

Packaging unit (PU):

- 210 = 15 units in cardboard box
- 211 = 20 units in cardboard box
- 233 = 200 units in a cardboard box
- 517 = 50 units in PE in a cardboard box
- 533 = 200 units in PE in a cardboard box

Shelf holder set for shelves:

- Height adjustment +3.5 mm
- Optional depth adjustment +3.5 mm
- Stepless shelf self-locking
- Compatible with all Dynamoov slides

ORDER INFORMATION

1 Dynamoov full extension slide Soft-close for base panel mounting Set: One left, one right



NL*	30 kg		
	Art.-no.	PU	
400	F130107917	211	
450	F130107920	210	
500	F130107923	210	
550	F130107929	210	

* upon request

2 Dynamoov 1D set Front locking device (1D) and shelf holder, one of each left/right



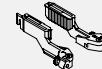
	Art.-no.	PU		
	F134107411	517		

Individual components

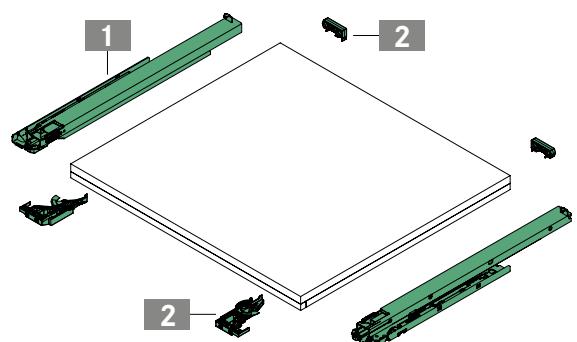


Description	Art.-no.	PU
Front locking device (1D) Set: One left, one right	F134101220	517 233
Shelf holder Set: One left, one right	F134101305	533

Optional: Depth adjustment (1D) Set: One left, one right



	Art.-no.	PU		
	F134101313	533		

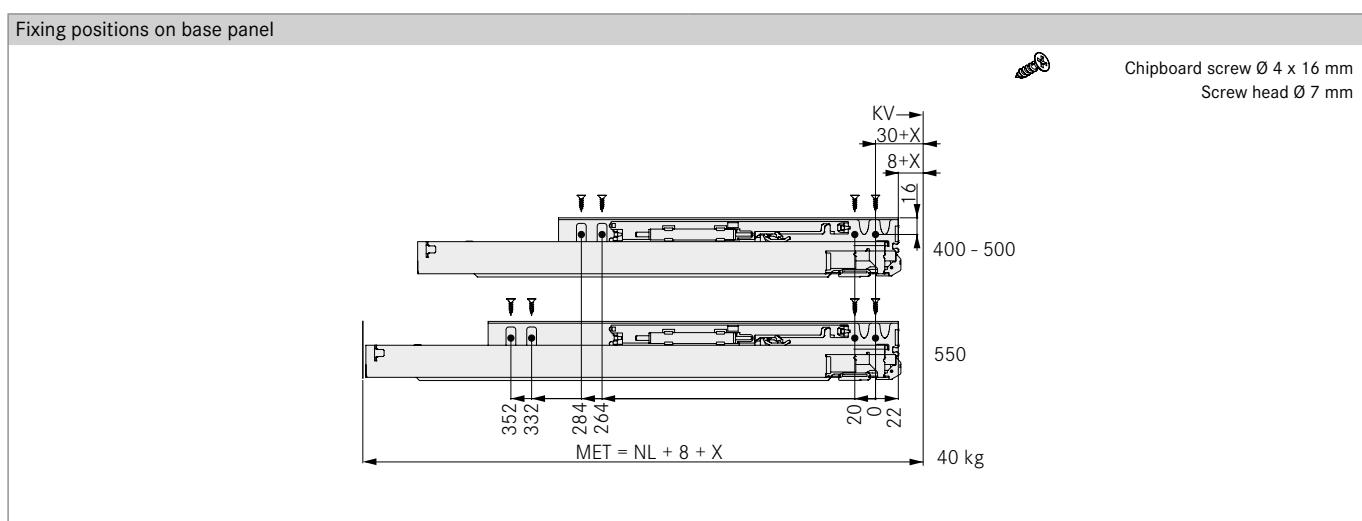
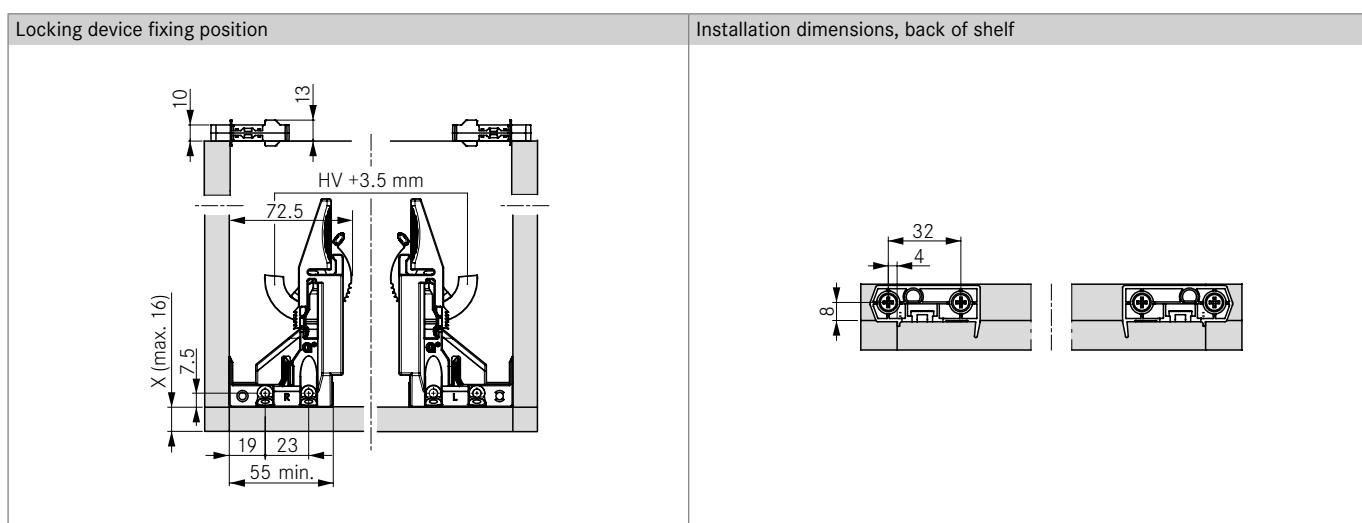
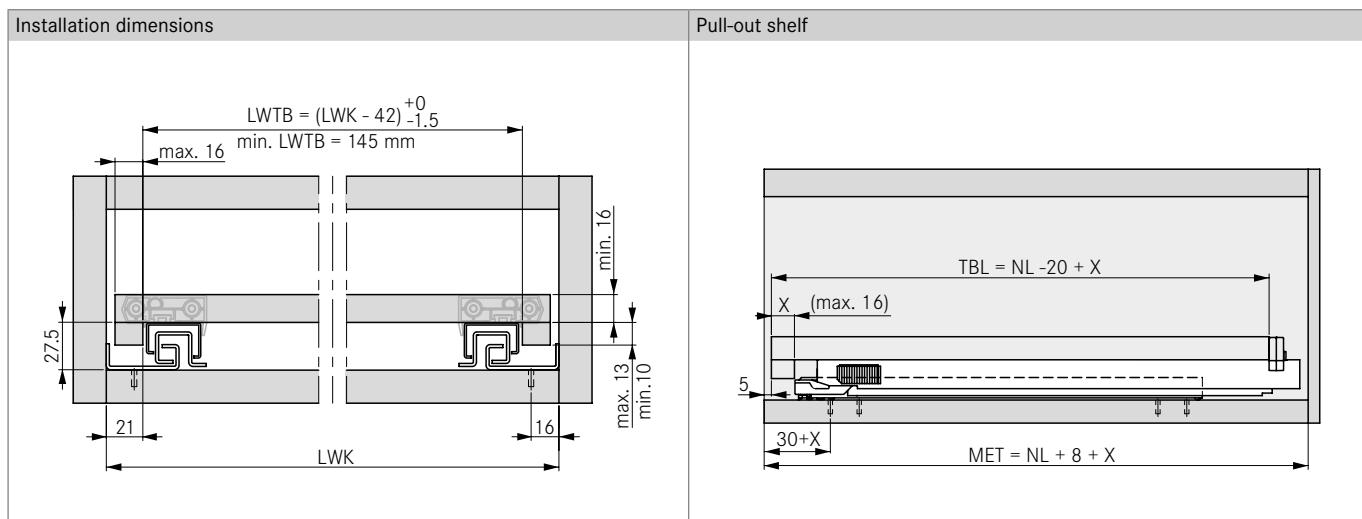


PAGE REFERENCES

Dynamoov Soft-close	50	Dynamoov Tipmatic	54	Assembly aids	60
Dynamoov Self-close	52	Technical information	58	Packaging code	75

INSTALLATION INFORMATION

All dimensions in millimetres



LEGEND

HV	Height adjustment
LWK	Inside cabinet width
LWTB	Clear shelf width
MET	Minimum installation depth

NL	Nominal length
TBL	Shelf length

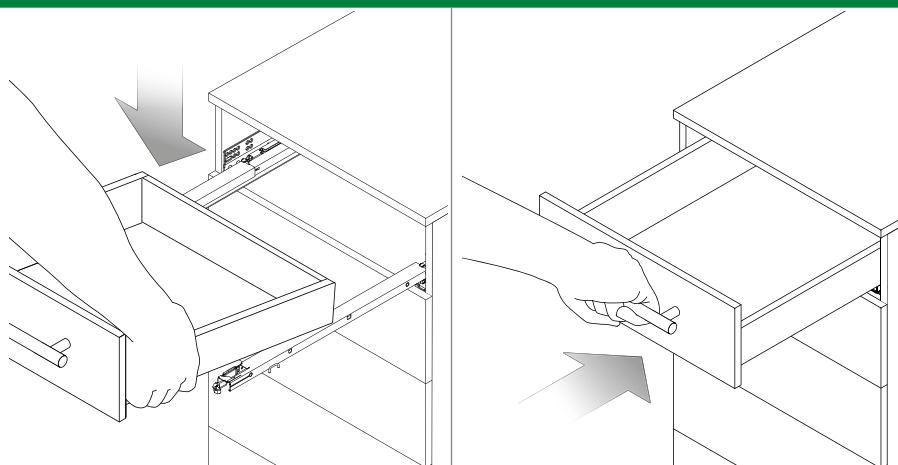
DYNAMOOV

Technical information

INSTALLATION INFORMATION

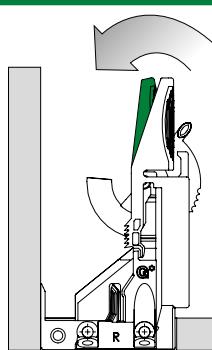
Inserting the drawer

Drawer on extended Dynamoov slides and push in until it audibly engages.



Removing the drawer

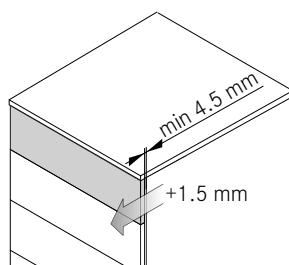
Pull out the drawer, actuate the lever of the front locking device on both sides and pull the drawer off the slide towards the front.



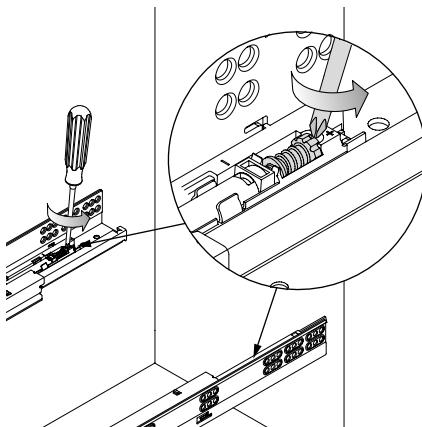
DYNAMOOV TIPMATIC

Front gap adjustment (max. +1.5 mm)

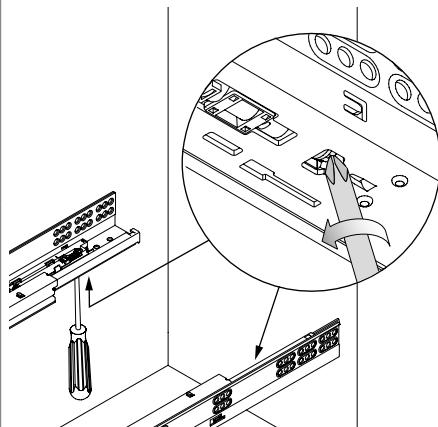
Reliable opening and closing of the drawer depends on the front gap adjustment (min. 4.5 mm = factory setting). If the front height is greater than 300 mm the front gap must be increased to the maximum 6 mm.



Front gap adjustment from above



Front gap adjustment from below



NOTES

Fixing the cabinet rails:

The screw recommendations are guide values only.

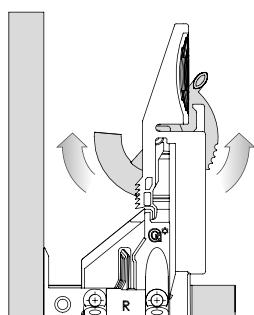
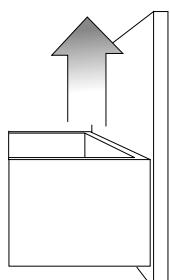
Assemblers must ensure that the substrate material is thick enough.

PAGE REFERENCES

Dynamoov Soft-close	50	Dynamoov Tipmatic	54	Assembly aids	60
Dynamoov Self-close	52	Pull-out shelf	56	Packaging code	75

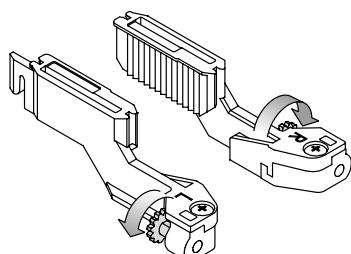
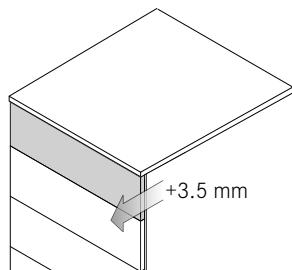
ADJUSTMENT

Height adjustment (max. +3.5 mm)

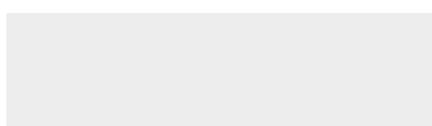
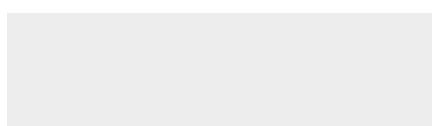
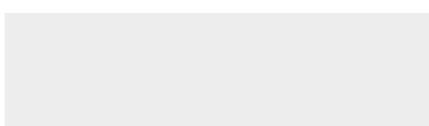


Depth adjustment (max. +3.5 mm)

Can be used for Dynamoov Soft-close/Self-close.



LEGEND



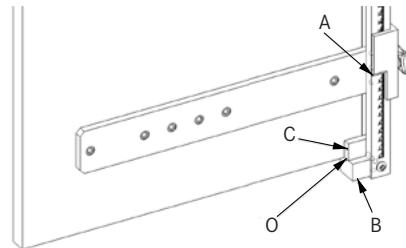


DRILLING JIG FOR CABINET MEMBER

One set includes:

- Guide rule (1x)
- Marking elements (4x)
- Stop plates B + C (1 each)

A. Reading edge = centre of holes
 B. Stop plate for loose cabinet parts
 C. Stop plate for assembled cabinet
 O. Zero scale position



	Art.-no.	PU
	F146094730	501



INDIVIDUAL MARKING ELEMENT

For extending the drilling jig
 for cabinet member F146094730

	Art.-no.	PU
	F146094721	299



DRILLING JIG FOR CABINET MEMBER

For use with pilot drill bit F146035692

	Art.-no.	PU
	F146101348	507



DRILLING JIG FOR DRAWER

Pre-drilling the holes for:

- Locking coupler
- Hook placement
- 37 mm cabinet member hole
- For use with pilot drill bit F146035692

	Art.-no.	PU
	F146109874	299

PAGE REFERENCES

Dynamoov Soft-close	50
Dynamoov Self-close	52

Dynamoov Tipmatic	54
Pull-out shelf	56

Technical information	58
Packaging code	75

EURO SCREW



Art.-no.	PU
Ø 6.3 x 14 mm Screw head Ø 7 mm	F148115049 147

SCREWDRIVER

GRASS cross head screwdriver
(Pozidriv No. 2)



Art.-no.	PU
F147010256	001

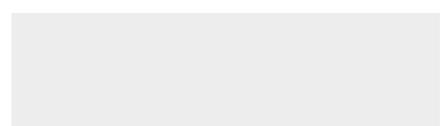
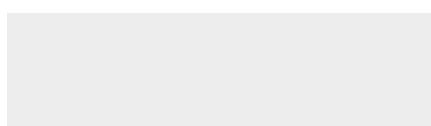
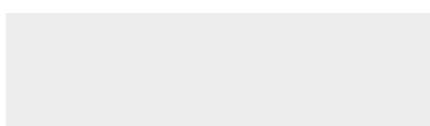
PILOT DRILL BIT

The pilot drill bit is used for
pre-drilling holes for countersunk
chipboard screws Ø 3.5 mm



Art.-no.	PU
Pilot drill bit	F146035692 299

LEGEND





ROLLER SLIDES

The classic standard range
for domestic and commercial furniture
with track-proven quality and benefits.

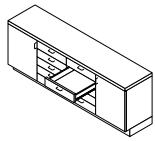
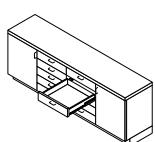
Standard roller slides for a number of furniture applications.

With its wide range of roller slides, GRASS covers a large part of classic furniture construction. Single or full extension drawer slides with different load capacities and sophisticated technical details ensure high quality standards. Silent running, minimum drawer deflection, excellent lateral stability and edge clearance are some of the features of the GRASS slides.



ROLLER SLIDES

Sturdy single and full extension drawer slides of tried-and-tested quality for demanding specifications.

	Product description		Page
	Single extension drawer slide 30 kg <ul style="list-style-type: none">• With plastic rollers• Installation width 12.5 mm• Bottom mounting		64
	Full extension drawer slide 50 kg <ul style="list-style-type: none">• With plastic rollers• Installation width 12.5 mm• Bottom mounting		66
	Accessories		68
	Technical information		70
	Assembly aids		72

ROLLER SLIDES

Single extension drawer slide 30 kg



- Single extension drawer slide with plastic rollers, 30 kg, installation width 12.5 mm, bottom mounting
- Parallel closing action
- Reliable closing, minimal gap widths
- Bottom edge clearance
- Clearance of screw heads in the cabinet rail
- Double stop
- Secure stop in open state is possible

Packaging unit (PU):

213 = 25 items in a cardboard box

223 = 100 items in a cardboard box

511 = 20 items in PE in a cardboard box

ORDER INFORMATION

1 Single extension drawer slide 30 kg Set: One left, one right								
NL	White			Cream white		Brown		
	Art.-no.	PU		Art.-no.	PU	Art.-no.	PU	
250	F080115434	511		F080073981	511		F080073983	213
300	F080115435	511	223	F080073984	511	223	F080073986	213
350	F080115436	511		F080073987	511		F080073990	213
400	F080115437	511	223	F080073991	511	223	F080073993	213
450	F080115438	511		F080073994	511		F080073996	213
500	F080115439	511	223	F080073997	511	223	F080073999	213
550	F080115440	511	223	F080074000	511		F080074002	213
600	F080115432	511	213	F080074276	511	223	—	
650	F080074280	511	223	F080074279	511		—	
700	F080074282	511	223	F080074281	511	223	—	
750	F080074285	511		F080074284	511		—	
800	F080074287	511		F080074286	511		—	

PAGE REFERENCES

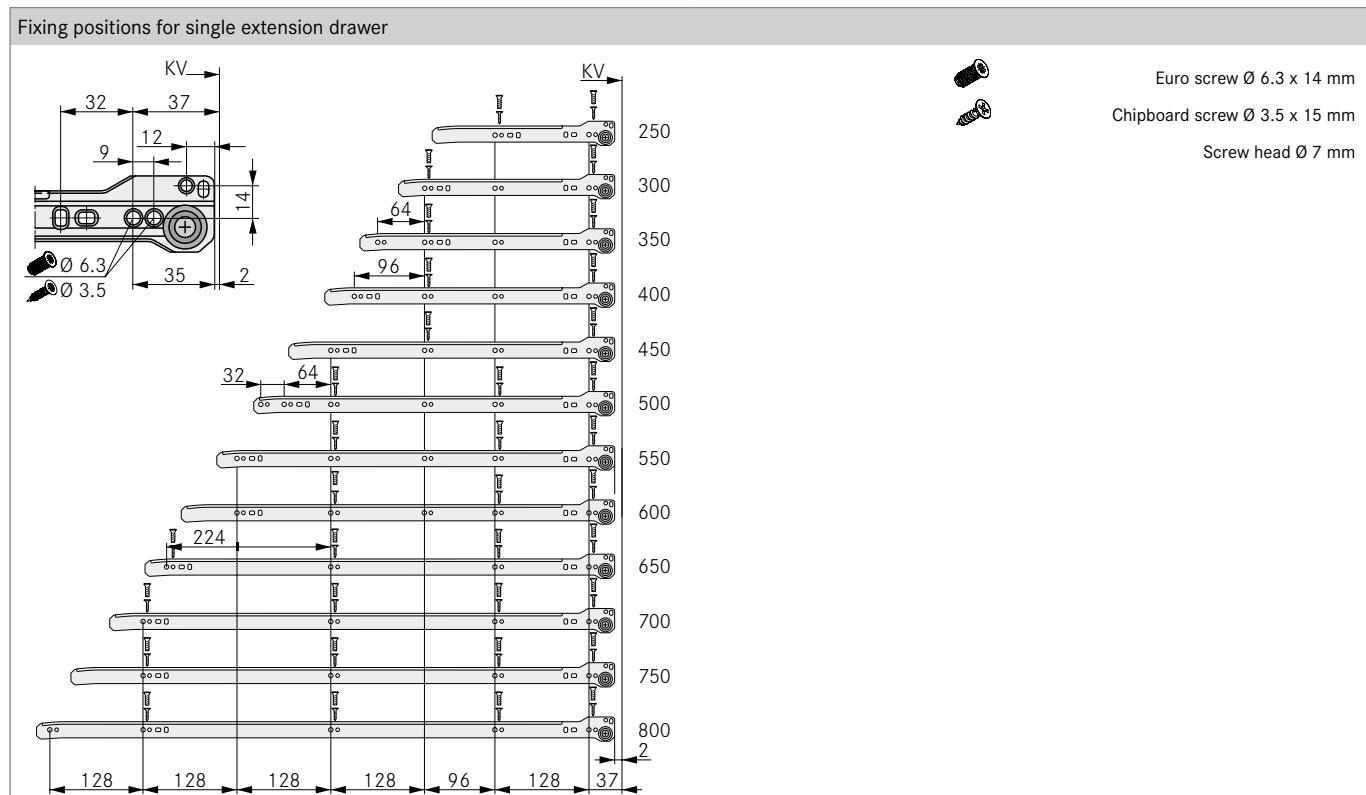
Accessories	68	Assembly aids	72	
Technical information	70	Packaging code	75	

INSTALLATION INFORMATION

All dimensions in millimetres

Installation dimensions	NL	AZV 1	AZV 2
	250	90	73
	300	90	73
	350	90	73
	400	90	73
	450	103	86
	500	103	86
	550	118	101
	600	118	101
	650	128	111
	700	138	121
	750	153	136
	800	153	136

Loss of drawer space (AZV) 1: is the amount of space lost in the not locked position.
Loss of drawer space (AZV) 2: is the amount of space lost in the locked position.



LEGEND

AZV	Drawer space loss
KV	Front edge of cabinet
LWK	Inside cabinet width
LWS	Internal drawer width

NL Nominal length

ROLLER SLIDES

Full extension drawer slide 50 kg



- Full extension drawer slide with plastic rollers, 50 kg, installation width 12.5 mm, bottom mounting
- 30 mm over-extension
- Convenient access
- Control of central rail
- Reliable parallel action
- Safety lock
- Reliable connection between drawer and cabinet
- Bottom edge clearance
- Drawer rail is flush with the bottom corner

Packaging unit (PU):

507 = 10 items in PE in a cardboard box

ORDER INFORMATION

NL	White		Cream white					
	Art.-no.	PU	Art.-no.	PU				
250	F080074520	507	F080074519	507				
300	F080074523	507	F080074522	507				
350	F080074526	507	F080074525	507				
400	F080074529	507	F080074528	507				
450	F080074532	507	F080074531	507				
500	F080074535	507	F080074534	507				
550	F080074538	507	F080074537	507				
600	F080074541	507	F080074540	507				
650	F080074544	507	F080074543	507				
700	F080074546	507	F080074545	507				
750	F080074549	507	F080074548	507				
800	F080074551	507	F080074550	507				

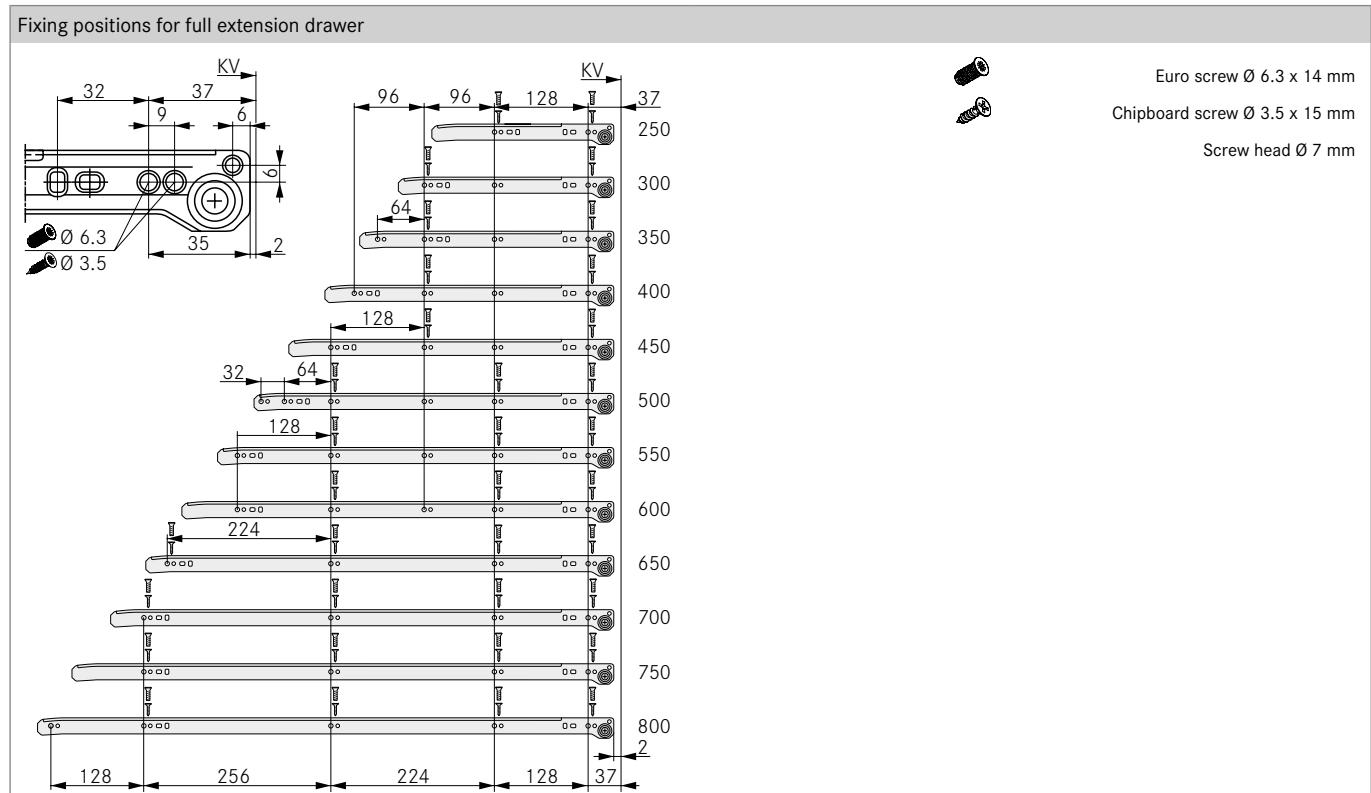
PAGE REFERENCES

Accessories	68	Assembly aids	72		
Technical information	70	Packaging code	75		

INSTALLATION INFORMATION

All dimensions in millimetres

Installation dimensions	Over-extension								
	<p>The critical advantage: better access When the drawer is assembled it can be set to 30 mm over-extension. This ensures that the front panel above does not inhibit full access.</p> <table border="1"> <thead> <tr> <th>NL</th> <th>UA</th> </tr> </thead> <tbody> <tr> <td>250</td> <td>10</td> </tr> <tr> <td>300 - 350</td> <td>15</td> </tr> <tr> <td>400 - 800</td> <td>30</td> </tr> </tbody> </table>	NL	UA	250	10	300 - 350	15	400 - 800	30
NL	UA								
250	10								
300 - 350	15								
400 - 800	30								



LEGEND

KV	Front edge of cabinet
LWK	Inside cabinet width
LWS	Internal drawer width
NL	Nominal length

UA Over-extension

ROLLER SLIDES

Accessories



- Can be retrofitted, easy to install
- Up to a drawer weight of 25 kg on one side and up to an external cabinet width of 600
- On both sides up to a drawer weight of 50 kg
- Tested with 100,000 opening and closing operations
- Suitable for roller slides

Packaging unit (PU):

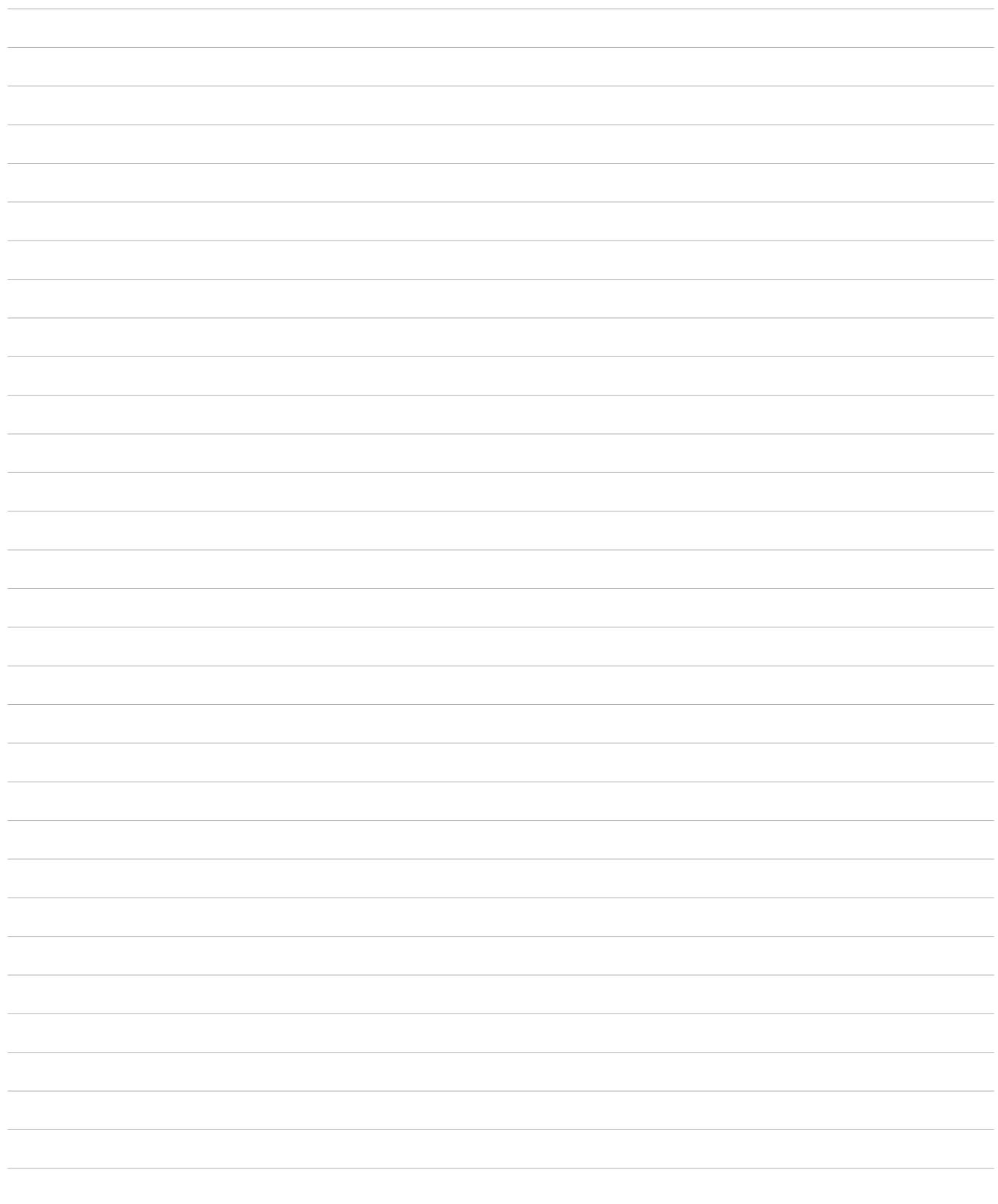
238 = 300 units in a cardboard box
538 = 300 units in PE in a cardboard box

SOFT-CLOSE FOR ROLLER SYSTEMS

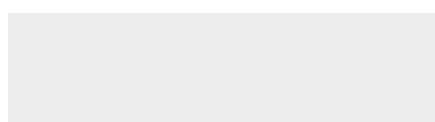
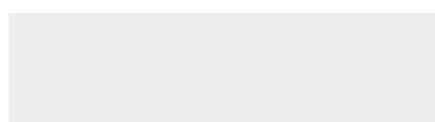
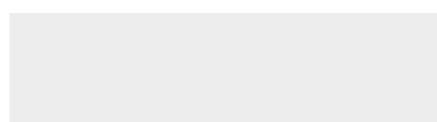
Soft-close for roller systems Set: Damping unit and activator Can be used on left/right			Individual components		
Description	Art.-no.	PU	Description	Art.-no.	PU
Damping set for wooden drawers	F084101803	538	Damping unit Single item: Can be used on left/right	F084101800	238
			Activator for wooden drawers Single item: Can be used on left/right	F080101802	238

PAGE REFERENCES

Single extension slide	64	Technical information	70	Packaging code	75
Full extension slide	66	Assembly aids	72		



LEGEND



ROLLER SLIDES

Technical information

DRAWER SPACE LOSS

Loss of drawer space with single extension drawers

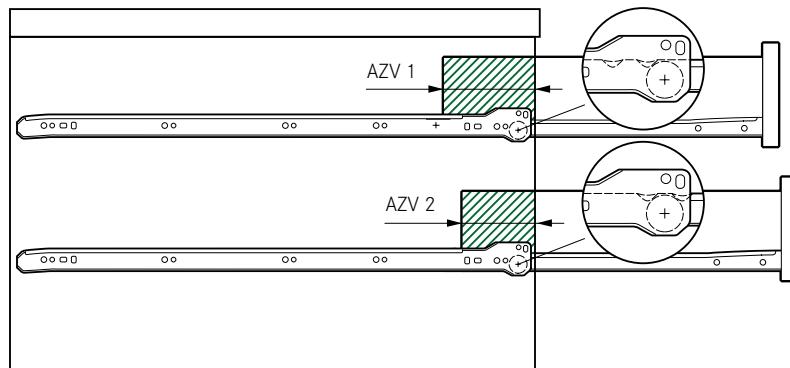
Single extension drawers have two types of loss of drawer space (AZV).

AZV 1:

The amount of space lost in the not locked position.

AZV 2:

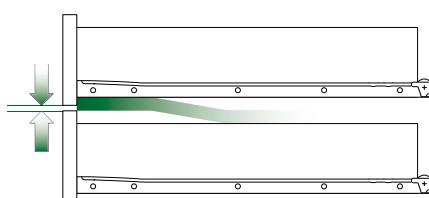
The amount of space lost in the locked position.



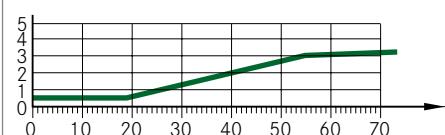
MINIMUM REVEAL

Small minimum reveal

Owing to the parallel closing action it is possible to achieve minimal reveals



Minimum reveal with 19 mm front panel = 0.5 mm



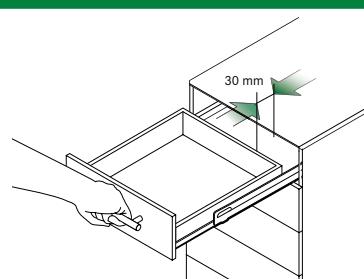
FULL EXTENSION DRAWER SLIDES

Over-extension with full extension drawer slides

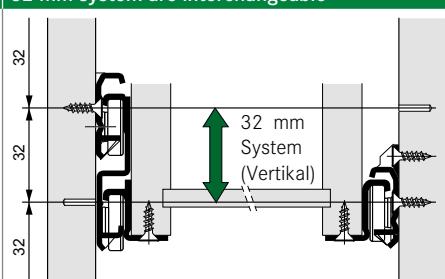
The critical advantage: better access.

When the drawer is assembled it can be set to 30 mm over-extension.

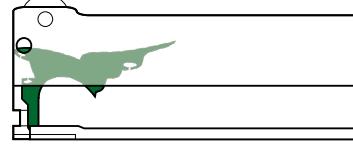
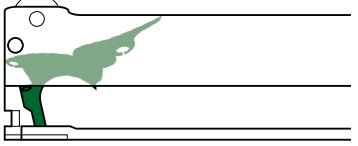
This ensures that the front panel above does not inhibit full access.



Single and full extension drawer slides in the 32 mm system are interchangeable



TWIST-LOCK

Installation advice	Check mounting positions Correct position for inserting drawer	Wrong position Insertion of centre rail is not possible.
<ul style="list-style-type: none">For reliable self-retractionFor safe carrying capacity of 50 kgFor convenient drawer insertion and removal		

PAGE REFERENCES

Single extension slide	64	Accessories	68	Packaging code	75
Full extension slide	66	Assembly aids	72		

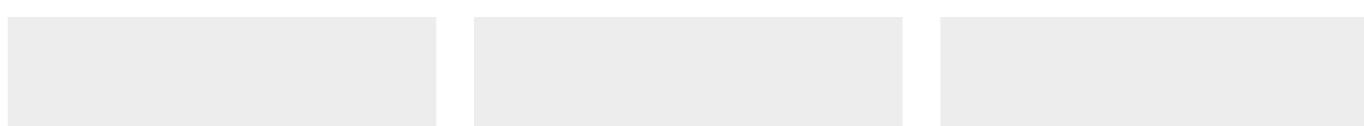
ADJUSTMENTS

Inserting the centre rail.	Correct position
Insert centre rails into the cabinet rails at the very rear at a slight tilt.	

ADJUSTMENTS

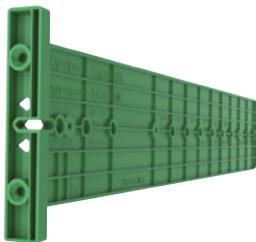
Insertion, securing and removal of drawer	
Inserting the drawer Pull the centre rail out to its stop. Insert drawer over the rollers as horizontally as possible, simultaneously on both sides.	Removing the drawer Pull the drawer out to the stop, lift safety lock at the centre (C) and disengage. Move twist-lock into the insertion position. This makes it possible to insert the centre rail and remove it if required.
Malfunction of twist-lock Any malfunction of the centre rail is automatically corrected by fully extending the drawer.	Safety lock The safety lock prevents accidental removal of the drawer and is a key safety feature.
Inserting the safety locks One pair of black safety locks is supplied with the cabinet slide. Separate safety locks and insert (A) and push into (B) the opening of the centre rail with the drawer fully open - pay attention to the direction of the arrow.	

LEGEND



ROLLER SLIDES

Assembly aids



DRILLING JIG FOR CABINET MEMBER

For use with pilot drill bit F146035692

	Art.-no.	PU
	F146101347	507



PILOT DRILL BIT

The pilot drill bit is used for pre-drilling holes for countersunk chipboard screws Ø 3.5 mm

	Art.-no.	PU
Pilot drill bit	F146035692	299



SCREWDRIVER

GRASS cross head screwdriver
(Pozidriv No. 2)

	Art.-no.	PU
	F147010256	001

PAGE REFERENCES

Single extension slide	64	Accessories	68	Packaging code	75
Full extension slide	66	Technical information	70		

PACKAGING CODE

Explanation

Article Number

Packaging Code

F123456789 2|01

Type of packaging

Packaging unit

TYPE OF PACKAGING

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	Unit	Code	Unit	Code	Unit
01	01	23	100	45	800
02	02	24	120	46	900
03	04	25	125	47	1000
04	05	26	136	48	1100
05	06	27	140	49	1200
06	08	28	150	50	1500
07	10	29	170	51	2000
08	12	30	175	52	2200
09	14	31	180	53	2500
10	15	32	190	54	3000
11	20	33	200	55	4000
12	24	34	225	56	5000
13	25	35	240	57	6000
14	30	36	250	58	7000
15	35	37	275	59	8000
16	40	38	300	60	9000
17	50	39	400	61	10000
18	60	40	500	62	15000
19	70	41	550	63	20000
20	75	42	600	64	30000
21	80	43	700	99	X
22	85	44	750		

QUICK OVERVIEW

Packaging code	Explanation
147	1000 units in PE (bag, film or band)
201	1 unit in a cardboard box
204	5 units in a cardboard box
207	10 units in a cardboard box
208	12 units in a cardboard box
210	15 units in a cardboard box
211	20 units in a cardboard box
212	24 units in a cardboard box
213	25 units in a cardboard box
223	100 units in a cardboard box
233	200 units in a cardboard box
238	300 units in a cardboard box
299	X units in a cardboard box
501	1 unit in PE (bag, film or band) in a cardboard box
507	10 units in PE (bag, film or band) in a cardboard box
511	20 units in PE (bag, film or band) in a cardboard box
513	25 units in PE (bag, film or band) in a cardboard box
517	50 units in PE (bag, film or band) in a cardboard box
533	200 units in PE (bag, film or band) in a cardboard box
538	300 units in PE (bag, film or band) in a cardboard box
607	10 units in a cardboard box in a cardboard box

TERMS

Unit	X single items/sets in specific packaging
Single item	X parts of one type (e.g. installation hooks only)
Set	X parts of different types (e.g. railing, railing bracket (front/back) and cover cap, one of each left/right)

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