

GRASS®

SLIDE SYSTEMS

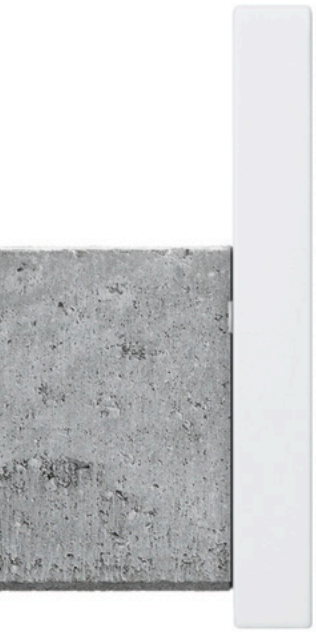
Optimum movement for all drawers - either as invisible concealed slides for maximum comfort or as track-proven roller slides.

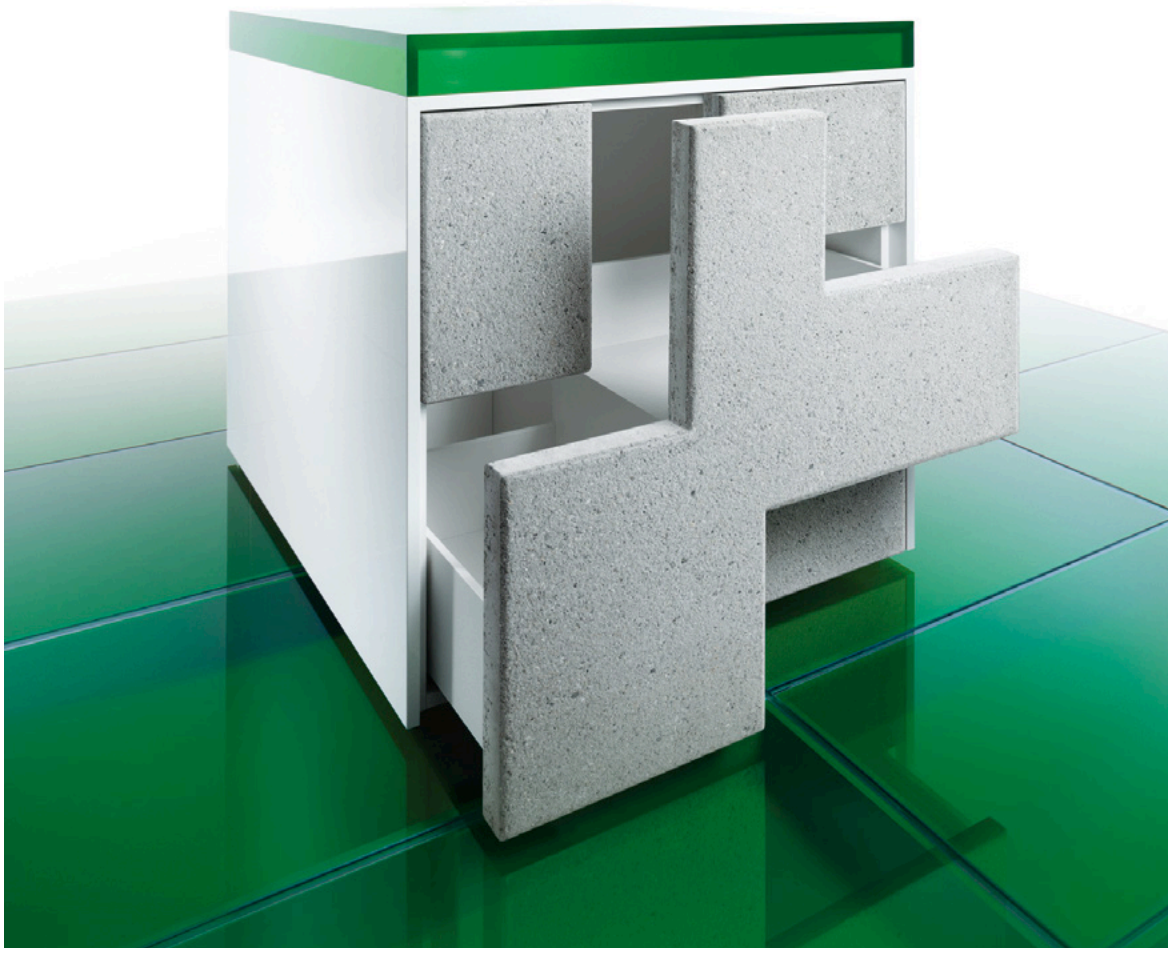




Concealed functionality
for the utmost individuality
in drawer design.









DYNAPRO SLIDE SYSTEM

reddot design award
winner 2010

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

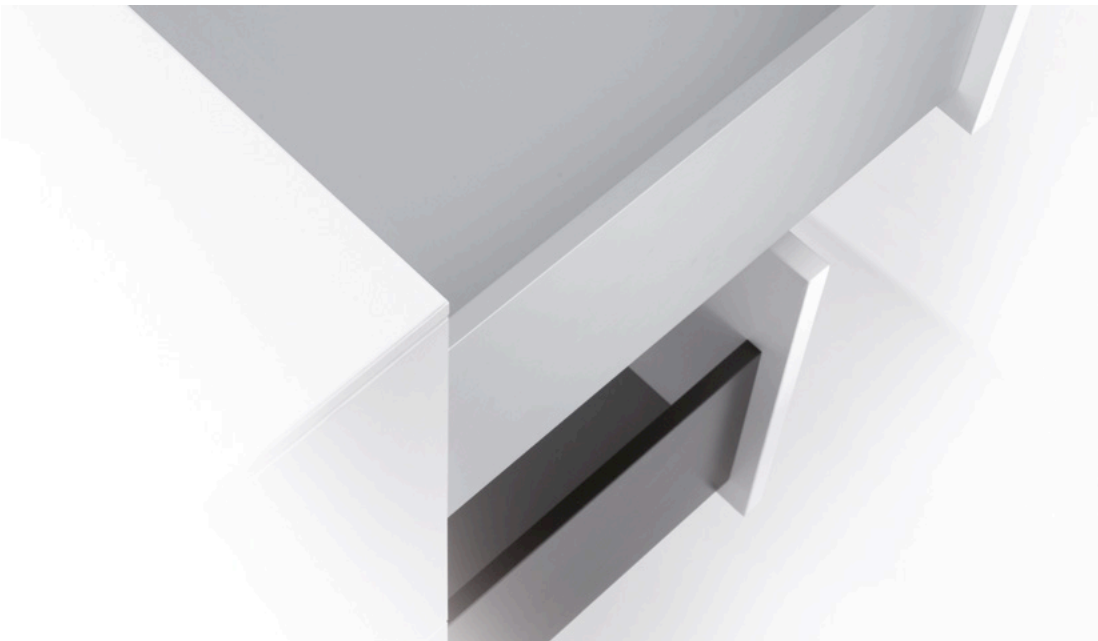
If you prefer unusual design and expect a concealed drawer slide to offer excellent running performance, high stability, precision and exceptional operating comfort – then Dynapro is exactly right for you. Handle-free surfaces, high fronts, wide drawers or unusual materials – the slide system for full-extension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

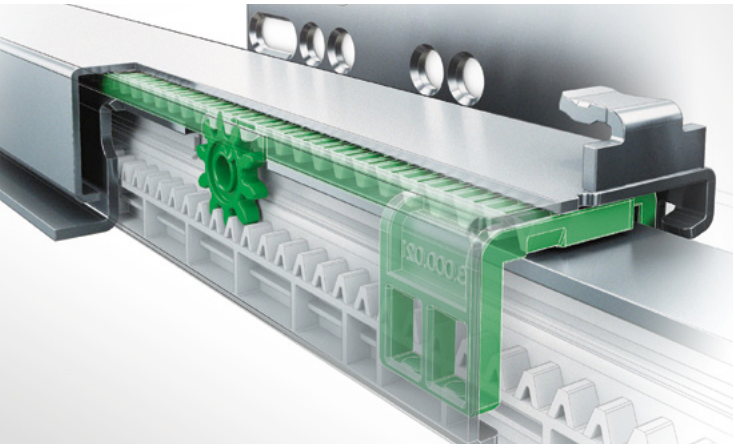


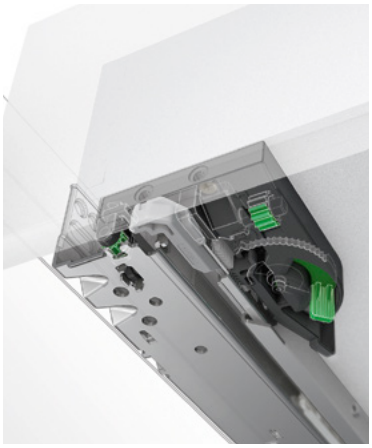


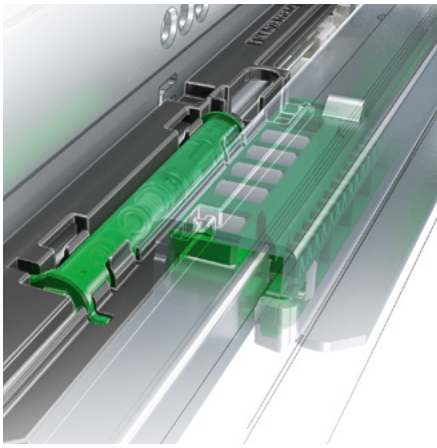
DYNAPRO SLIDE SYSTEM

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.

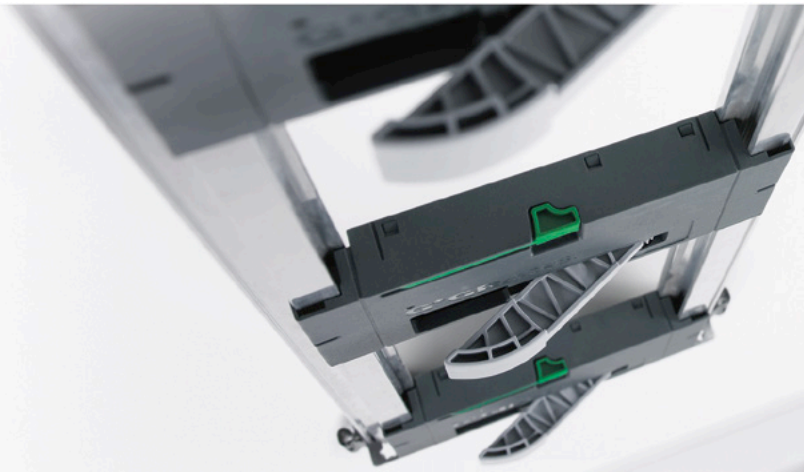
Soft-close, the successful damping system, closes Dynapro drawers gently and quietly. With Tipmatic, the mechanical opening system, it is possible to operate large handle-free fronts which will open with a gentle tap. The new Tipmatic Soft-close opening system combines the advantages of mechanical opening 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.





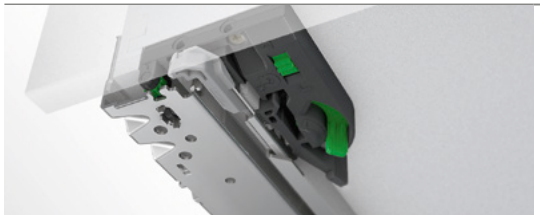
GRASS SLIDE SYSTEMS

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	■	–

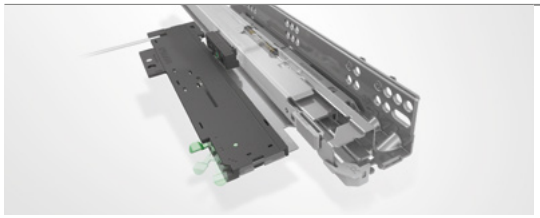
SLIDE SYSTEMS

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.



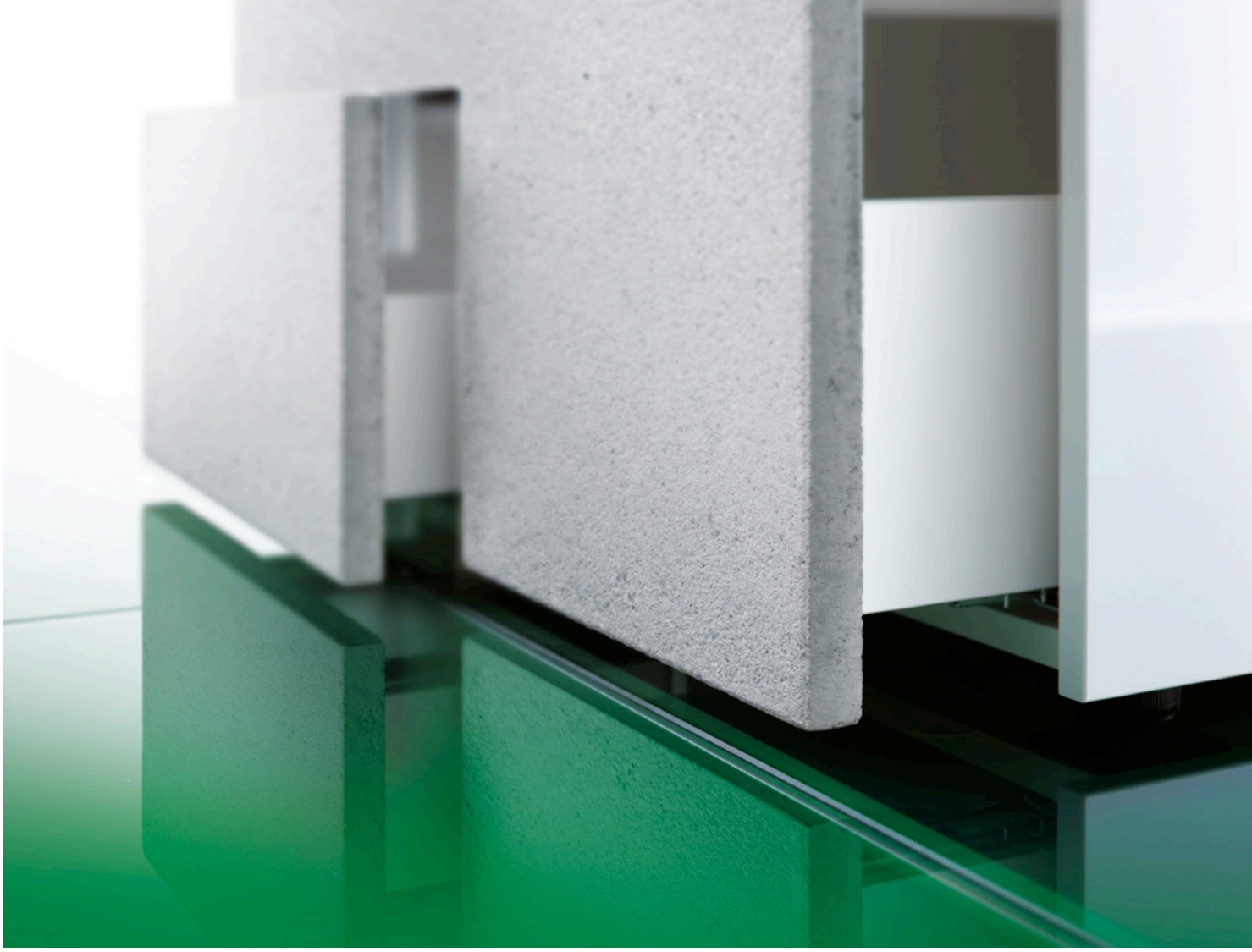
DYNAMOOV SLIDE SYSTEM **49**

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

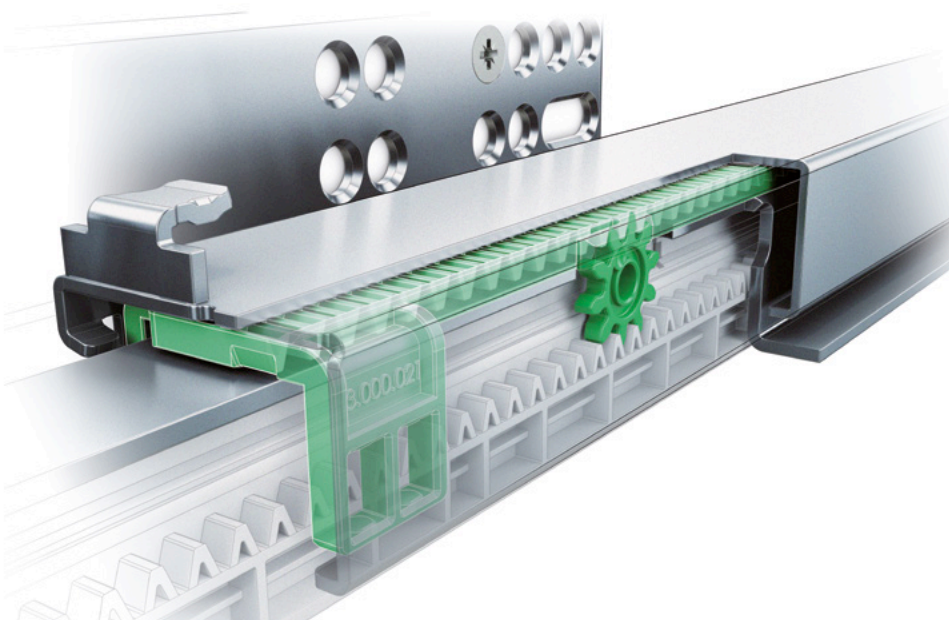
The multitude of special qualities makes Dynapro a unique movement system for individualists.

QUALITY CERTIFICATE

LGA

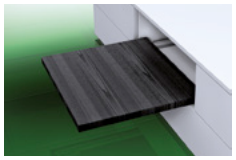
Excellent running characteristics, synchronised movement, 4D adjustment for perfectly aligned gaps and high load capacity are only some of the special features for which the million-fold tried-and-tested slide system received the Red Dot Design Award.

reddot design award
winner 2010



DYNAPRO SLIDE SYSTEM

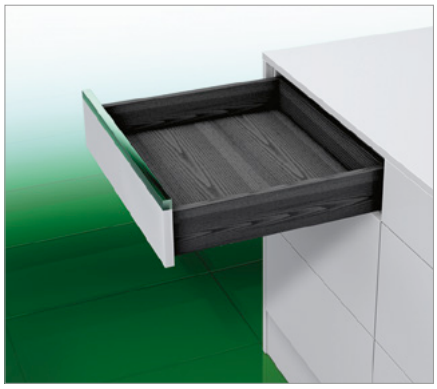
A new slide generation for wooden drawers.
The powerful precision slide for absolute design freedom.

	Product description	Page
	**Dynapro full extension slide 40/70 kg Soft-close** • 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** • Tipmatic Soft-close opening system • 4-dimensional adjustment (side, height, tilt angle and depth adjustment)	14
	**Dynapro full extension slide 40/60 kg Tipmatic** • Tipmatic opening system • 4-dimensional adjustment (side, height, tilt angle and depth adjustment)	16
	**Dynapro for base panel mounting and pull-out shelf** • 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

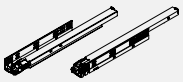


- Excellent running characteristics
- Fully synchronised slide technology
- Soft-close damping system
- Utmost lateral stability
- Minimum drawer deflection
- Stepless self-locking of the drawer when placed on the slide
- Tool-free 4D adjustment facility:
  - Height adjustment +3.5 mm
  - Side adjustment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



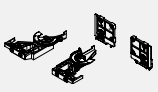
	Art.-no.	PU	
	F134108955	517	

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



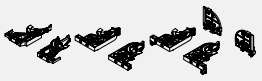
	Art.-no.	PU	
	F134108956	517	

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



	Art.-no.	PU	
	F134117193	517	

Individual components

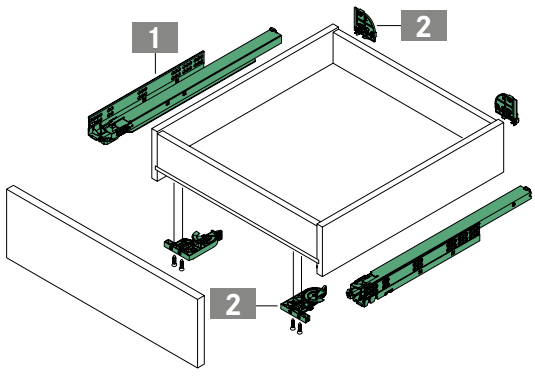


Description	Art.-no.	PU	
Front locking device (1D) Set: One left, one right	F134101220	233	517
Front locking device (2D) Set: One left, one right	F134108949	233	
Front locking device (3D) Set: One left, one right	F134108946	233	
Adjustment adapter (1D) Set: One left, one right	F134108952	233	

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



	Art.-no.	PU	
	F134108957	533	



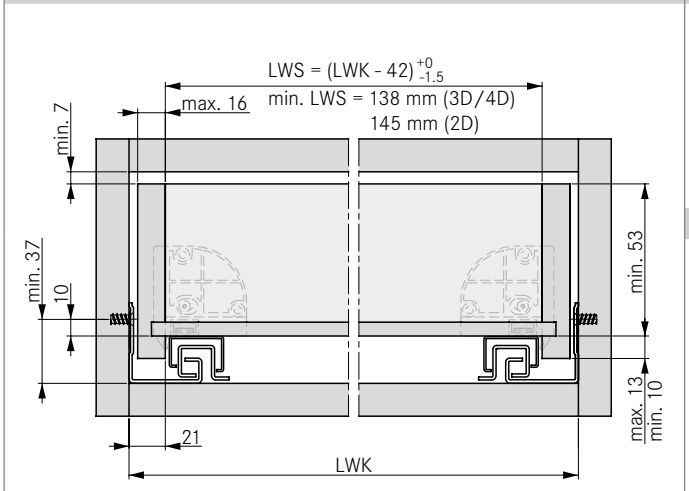
PAGE REFERENCES

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

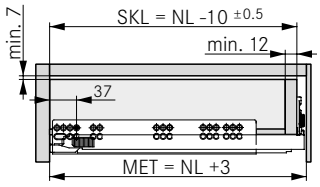
PLANNING DIMENSIONS

All dimensions in millimetres

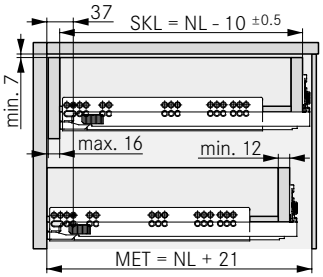
Installation dimensions



Drawer

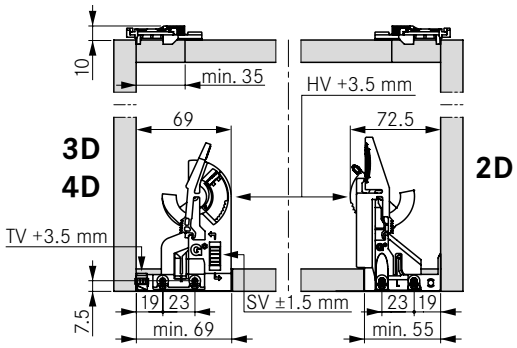


Inset drawer

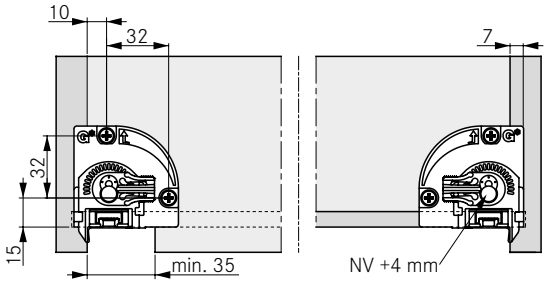


NL	SKL	MET
250	240	253
270	260	273
300	290	303
320	310	323
350	340	353
380	370	383
400	390	403
420	410	423
450	440	453
480	470	483
500	490	503
520	510	523
550	540	553
580	570	583
600	590	603
650	640	653
700	690	703
750	740	753

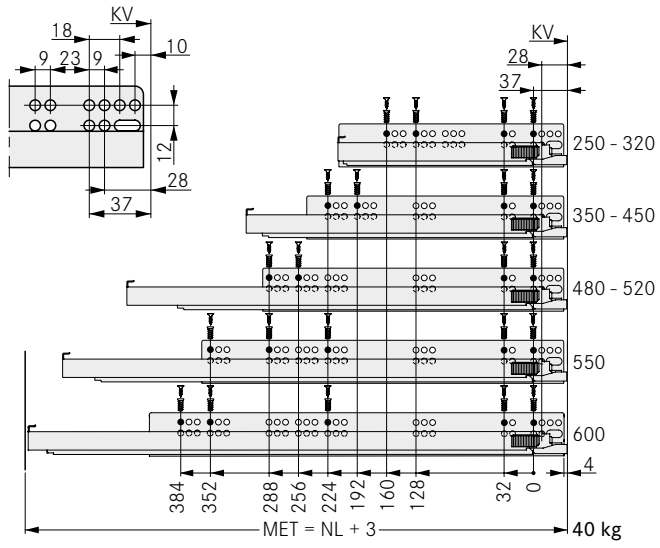
Locking device fixing position

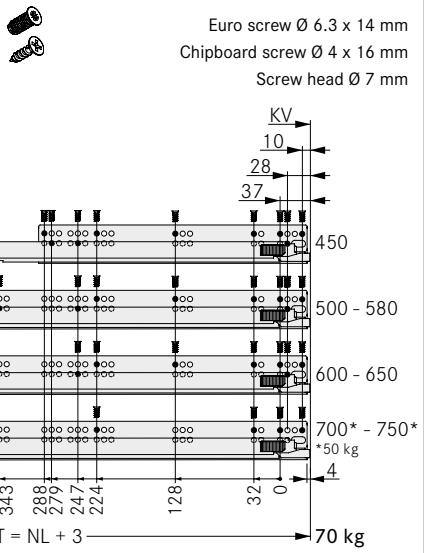


Adjustment adapter fixing position



Fixing positions for full extension slide



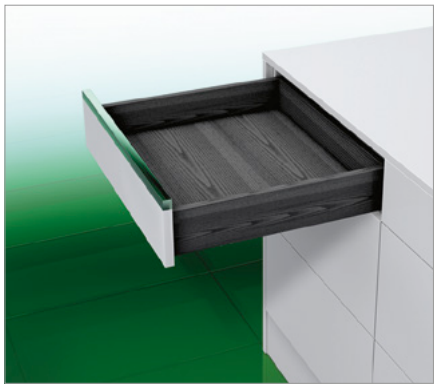


LEGEND

HV	Height adjustment
KV	Front edge of cabinet
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
TV	Depth adjustment

DYNAPRO TIPMATIC SOFT-CLOSE

Full extension slide 40/70 kg



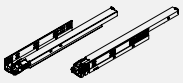
- Mechanical opening system for handle-free fronts
- Combines Tipmatic function with Soft-close damping
- Tool-free assembly of the Tipmatic Soft-close unit
- Can be used for Dynapro Soft-close full extension slides
- One unit for all nominal lengths and weight classes
- 3-stage adjustment of the opening 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		
	Art.-no.	PU		Art.-no.	PU	
270	**F130**107**793**	204	211	–		
300	**F130**107**796**	204	211	–		
320	**F130**107**799**	204	211	–		
350	**F130**107**802**	204	211	–		
380	**F130**107**805**	204	211	–		
400	**F130**107**808**	204	211	–		
420	**F130**107**811**	204	211	–		
450	**F130**107**814**	204	210	**F130**107**832**	204	210
480	**F130**107**817**	204	210	-		
500	**F130**107**820**	204	210	**F130**107**838**	204	210
520	**F130**107**823**	204	210	**F130**107**841**	204	210
550	**F130**107**826**	204	210	**F130**107**844**	204	210
580	–			**F130**107**847**	204	208
600	**F130**107**829**	204	208	**F130**107**850**	204	208
650	–			**F130**107**853**	204	208
700*	–			**F130**107**856**	204	208
750*	–			**F130**107**859**	204	208

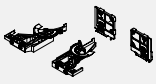
* Load capacity 50 kg

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



Art.-no.	PU	
F134108**956**	517	

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



Art.-no.	PU	
F134117**193**	517	

3 Dynapro Tipmatic Soft-close Set: Unit and activator, one of each left/right



Art.-no.	PU	
F134109**323**	607	

4 Synchronisation rod Single item: For cutting to length

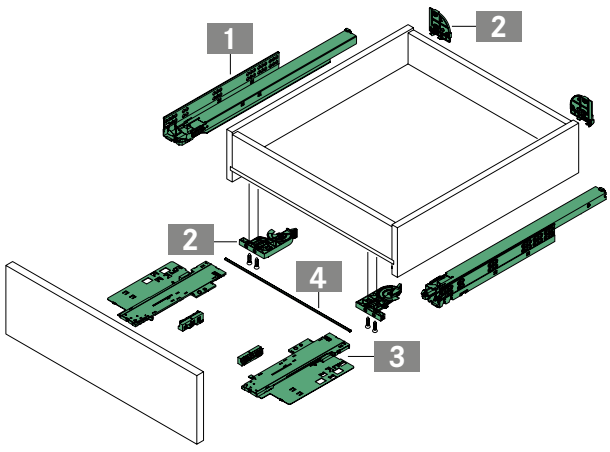


L	Art.-no.	PU				
952	**F134**109**410**	207				

Individual components



Description	Art.-no.	PU	
Dynapro Tipmatic Soft-close unit Set: One left, one right	**F134**109**324**	213	
Dynapro Tipmatic Soft-close activator Set: One left, one right	**F134**109**325**	223	
Front locking device (1D) Set: One left, one right	**F134**101**220**	233	517
Front locking device (2D) Set: One left, one right	**F134**108**949**	233	
Adjustment adapter (1D) Set: One left, one right	**F134**108**952**	233	



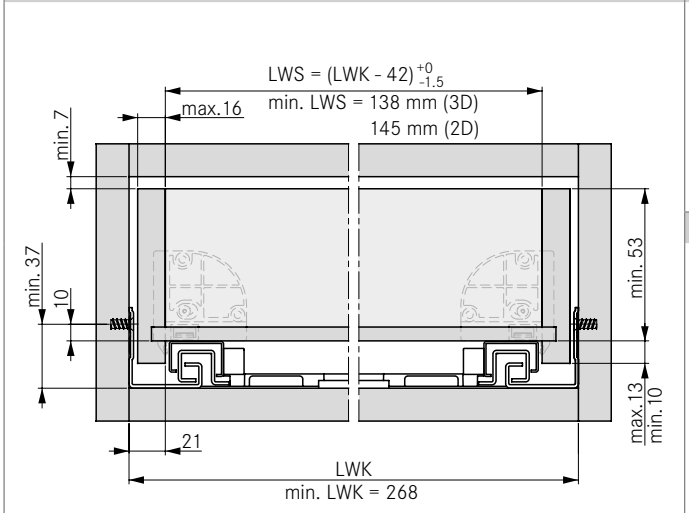
PAGE REFERENCES

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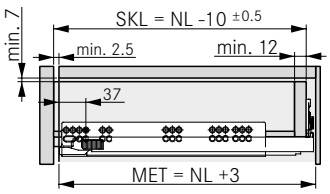
PLANNING DIMENSIONS

All dimensions in millimetres

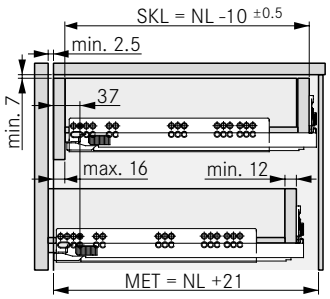
Installation dimensions



Drawer

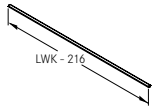


Inset drawer

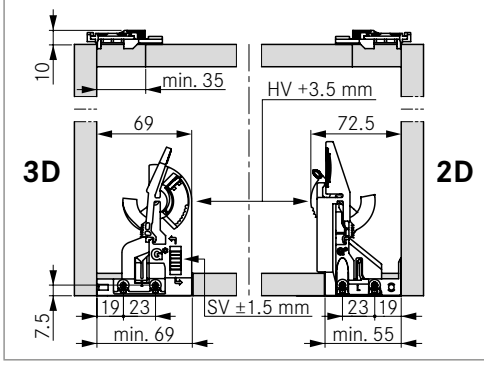


NL	SKL	MET
270	260	273
300	290	303
320	310	323
350	340	353
380	370	383
400	390	403
420	410	423
450	440	453
480	470	483
500	490	503
520	510	523
550	540	553
580	570	583
600	590	603
650	640	653
700	690	703
750	740	753

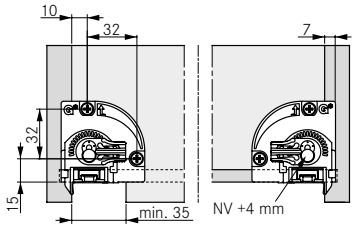
Synchronisation rod cutting dimension



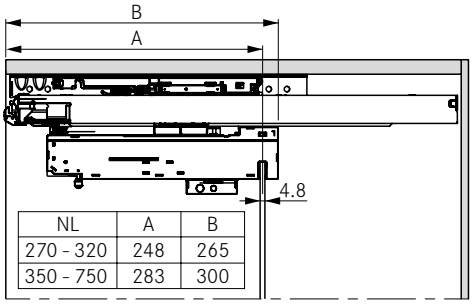
Locking device fixing position



Adjustment adapter fixing position

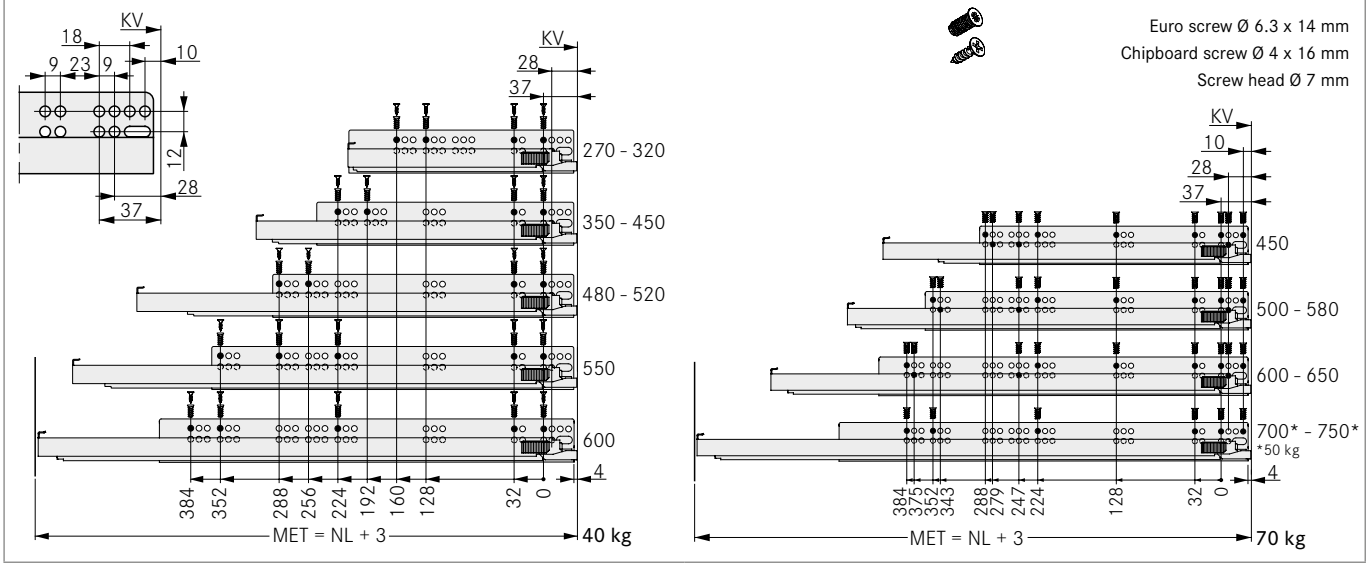


Position of the synchronisation rod



NL	A	B
270 - 320	248	265
350 - 750	283	300

Fixing positions for full extension slide

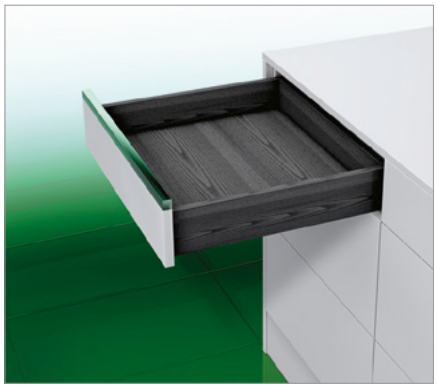


LEGEND

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 TIPMATIC

Full extension slide 40/60 kg

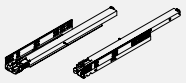


- Full extension slide Tipmatic for handle-free fronts
- Tipmatic ejector unit integrated into the slide
- Excellent running characteristics
- Fully-synchronised slide technology
- Utmost lateral stability
- Minimum drawer deflection
- 4D adjustment facility:
  - Height adjustment +3.5 mm
  - Side adjustment ±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	**F130**117**458**	204	211	–		
270	**F130**117**459**	204	211	–		
300	**F130**117**460**	204	211	–		
320	**F130**117**461**	204	211	–		
350	**F130**117**462**	204	211	–		
380	**F130**116**955**	204		–		
400	**F130**117**463**	204	211	–		
420	**F130**117**464**	204	210	–		
450	**F130**117**465**	204	210	**F130**117**470**	204	210
480	**F130**117**466**	204	210	-		
500	**F130**117**467**	204	210	**F130**117**471**	204	210
520	**F130**116**956**	204		**F130**116**957**	204	
550	**F130**117**468**	204	210	**F130**117**472**	204	210
580	–			**F130**117**473**	204	
600	–			**F130**116**941**	204	
650	–			**F130**117**474**	204	
700*	–			**F130**117**534**	204	
750*	–			**F130**117**535**	204	

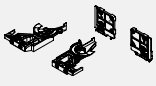
* Load capacity 50 kg

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



	Art.-no.	PU	
	F134108**956**	517	

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



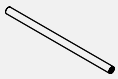
	Art.-no.	PU	
	F134117**193**	517	

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



	40 kg			60 kg		
	Art.-no.	PU		Art.-no.	PU	
	F134117**475**	517		**F134**117**476**	517	

4 Synchronisation rod
Single item: For cutting to length

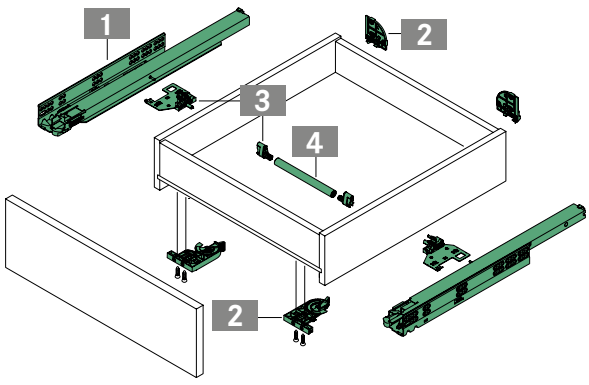


L	Art.-no.	PU				
981	**F134**116**947**	207	211			

Individual components



Description	Art.-no.	PU	
Synchronisation module, 40 kg Set: One left, one right	**F134**117**114**	212	
Synchronisation module, 60 kg Set: One left, one right	**F134**117**115**	212	
Synchronisation lever Single item: Can be used on left/right	**F134**125**079**	233	
Front locking device (1D) Set: One left, one right	**F134**101**220**	233	517
Front locking device (2D) Set: One left, one right	**F134**108**949**	233	
Adjustment adapter (1D) Set: One left, one right	**F134**108**952**	233	

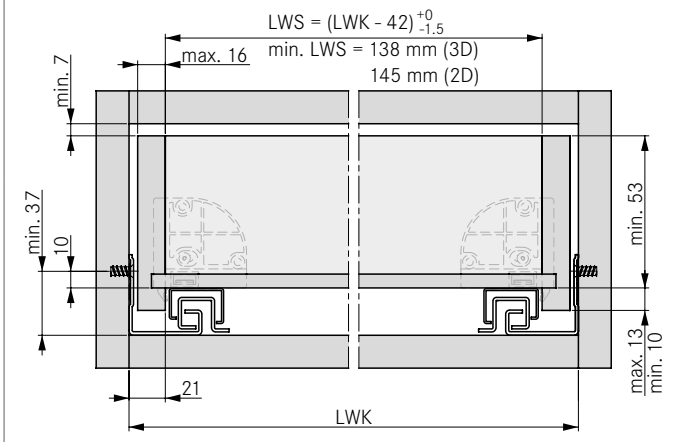


Pull-out shelf	18	Assembly aids	24		
Technical information	20	Packaging code	75		

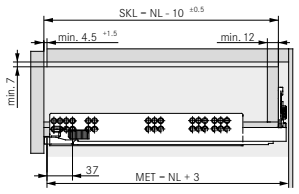
PLANNING DIMENSIONS

All dimensions in millimetres

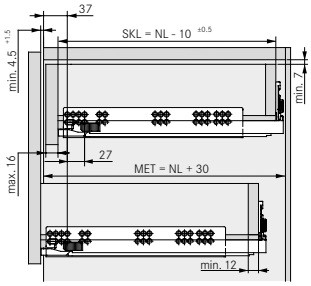
Installation dimensions



Drawer

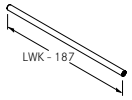


Inset drawer

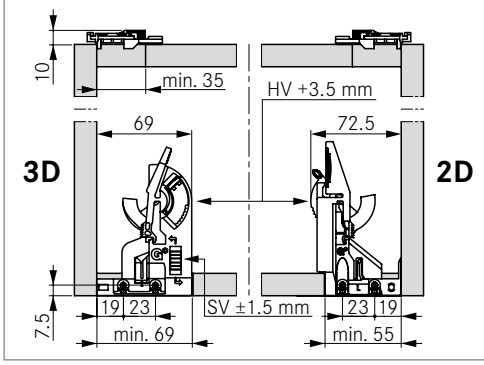


NL	SKL	MET
250	240	253
270	260	273
300	290	303
320	310	323
350	340	353
380	370	383
400	390	403
420	410	423
450	440	453
480	470	483
500	490	503
520	510	523
550	540	553
580	570	583
600	590	603
650	640	653
700	690	703
750	740	753

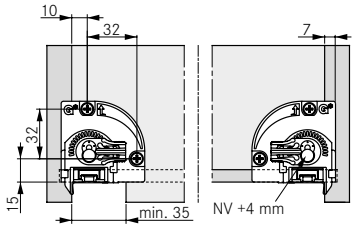
Synchronisation rod cutting dimension



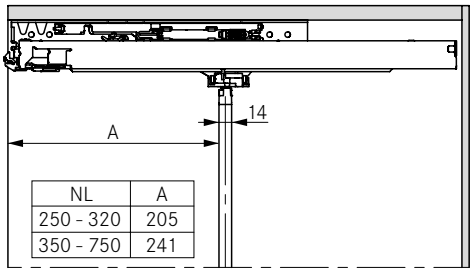
Locking device fixing position



Adjustment adapter fixing position

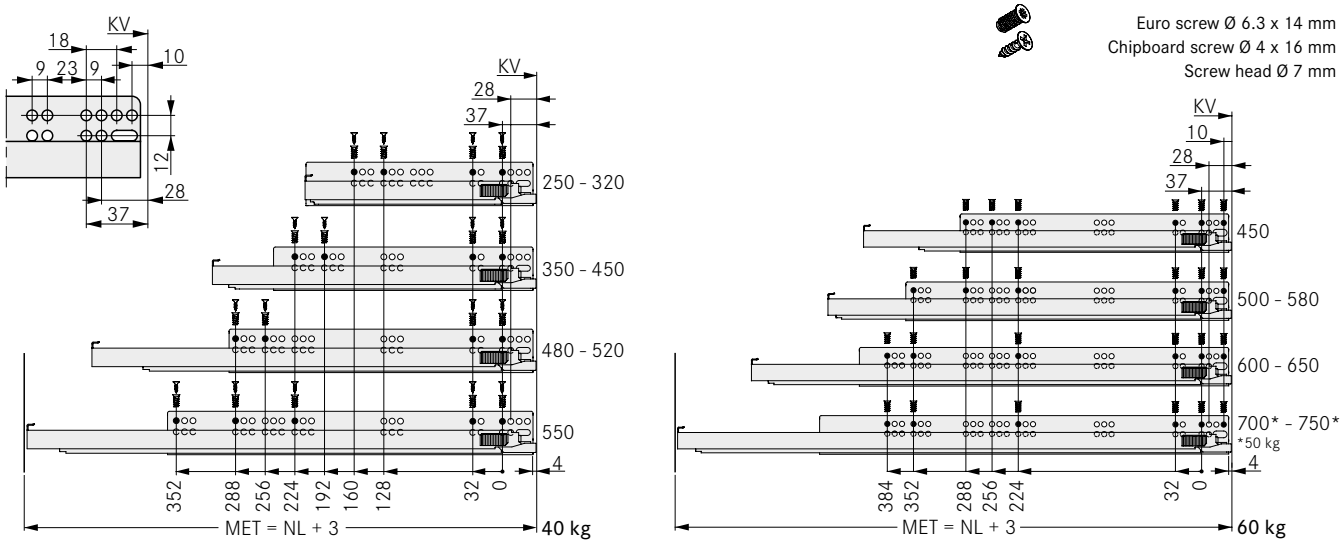


Position of the synchronisation rod



NL	A
250 - 320	205
350 - 750	241

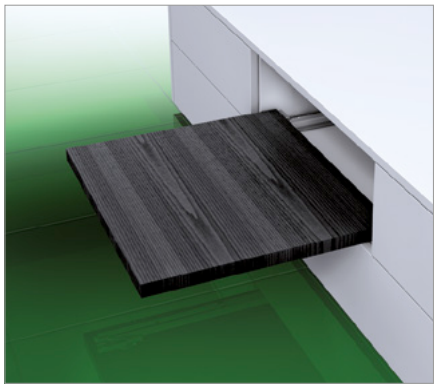
Fixing positions for full extension slide



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



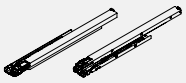
Dynapro for base panel mounting:
- Full extension drawer synchronised, 40 kg load capacity
- Soft-close damping system
- Assembly on cabinet base or additional base panel
- Particularly suitable for pull-out shelves (no screw-on bracket at side)

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

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

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	**F130**107**878**	204	211			
450	**F130**107**884**	204	210			
500	**F130**107**890**	204	210			
550	**F130**107**893**	204				

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



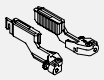
	Art.-no.	PU				
	F134107**411**	517				

Individual components

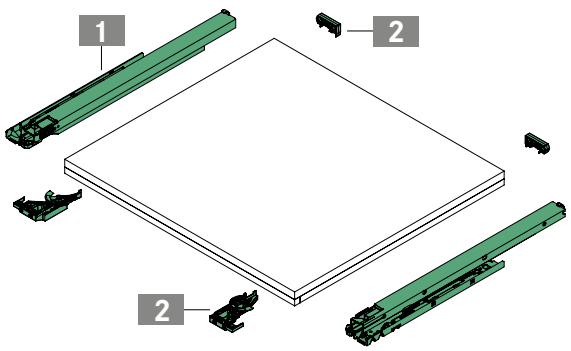


Description	Art.-no.	PU	
Front locking device (1D) Set: One left, one right	**F134**101**220**	517	233
Shelf holder Set: One left, one right	**F134**101**305**	533	

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



	Art.-no.	PU				
	F134101**313**	533				



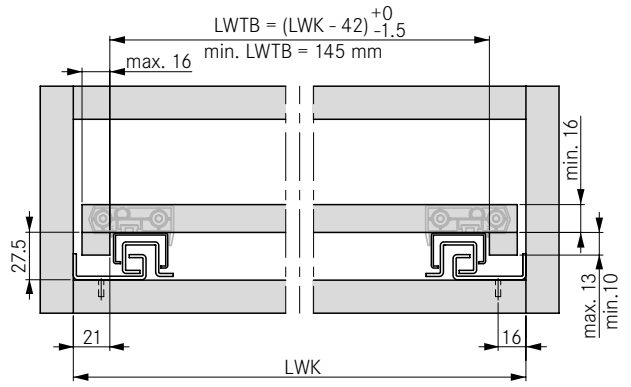
PAGE REFERENCES

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

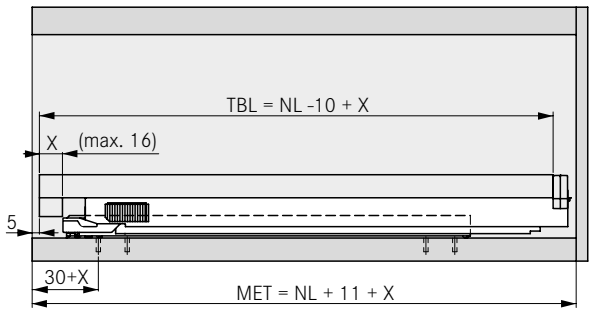
INSTALLATION INFORMATION

All dimensions in millimetres

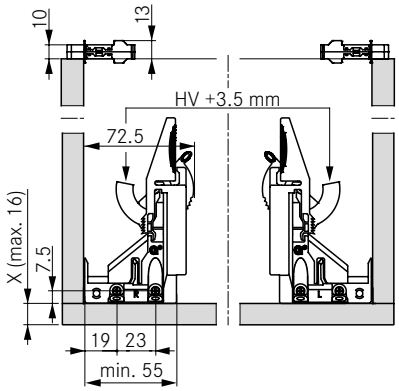
Installation dimensions



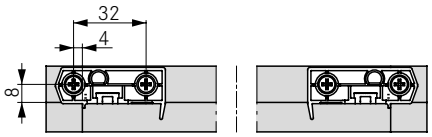
Pull-out shelf



Locking device fixing position



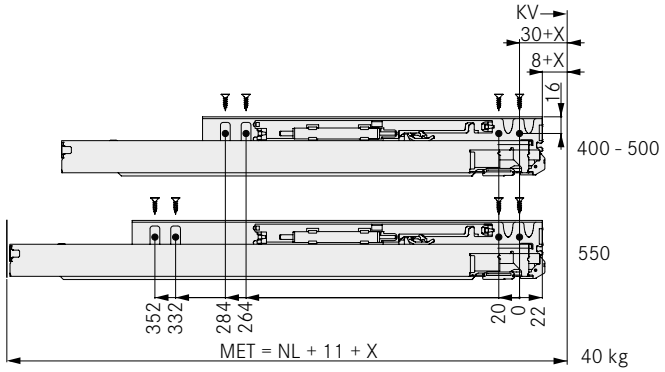
Installation dimensions, back of shelf



Fixing positions on base panel



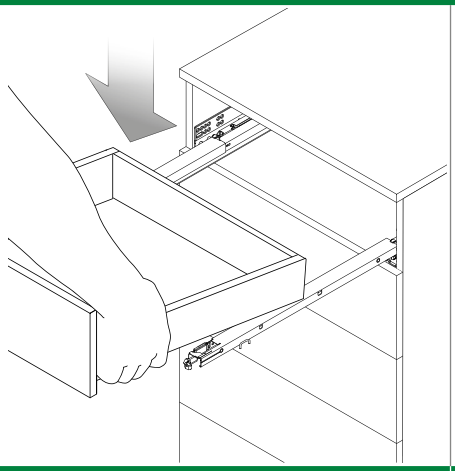
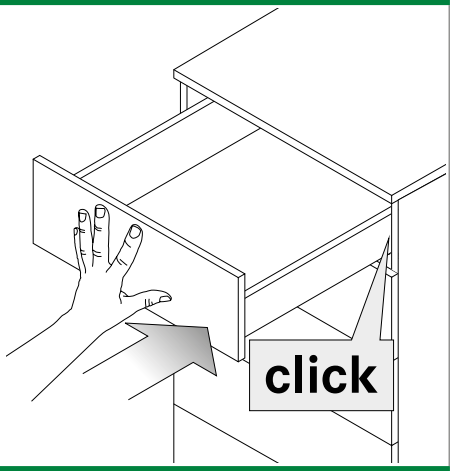
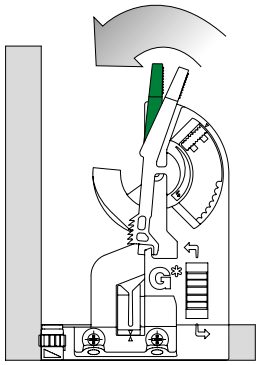
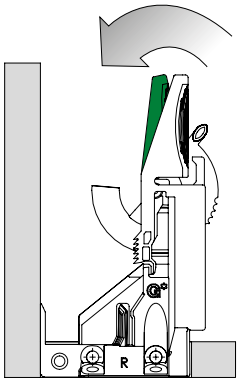
Chipboard screw Ø 4 x 16 mm
Screw head Ø 7 mm



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	**Dynapro 3D/4D**	**Dynapro 2D**
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.		

NOTES

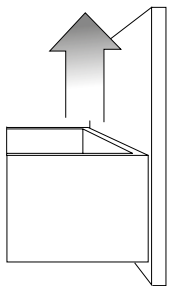
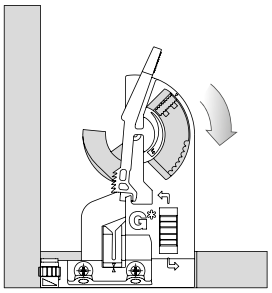
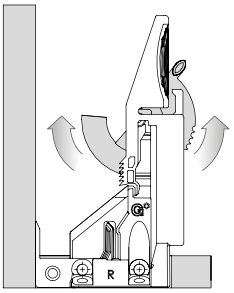
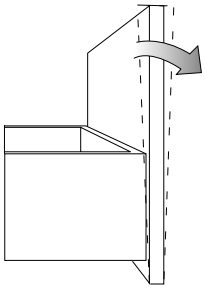
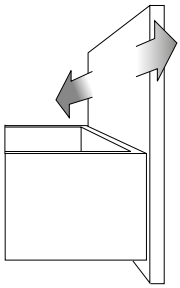
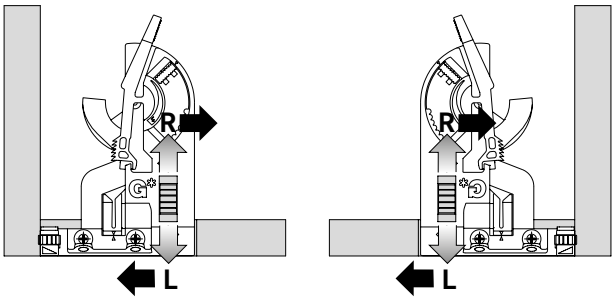
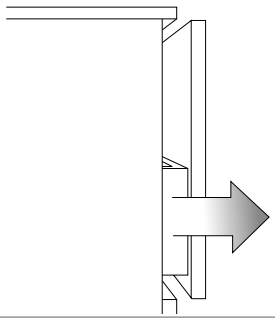
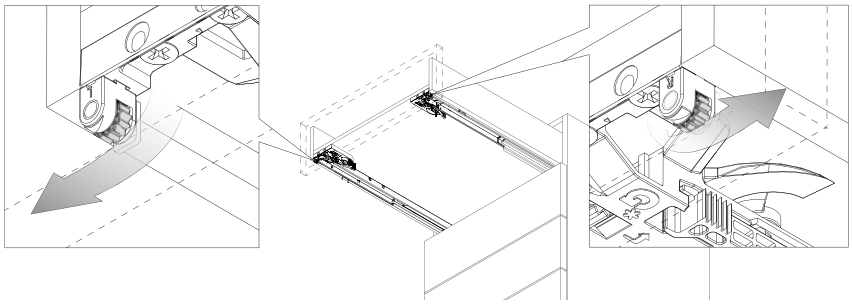
Fixing the cabinet rails:

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

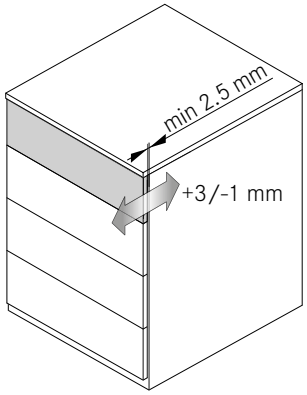
ADJUSTMENT

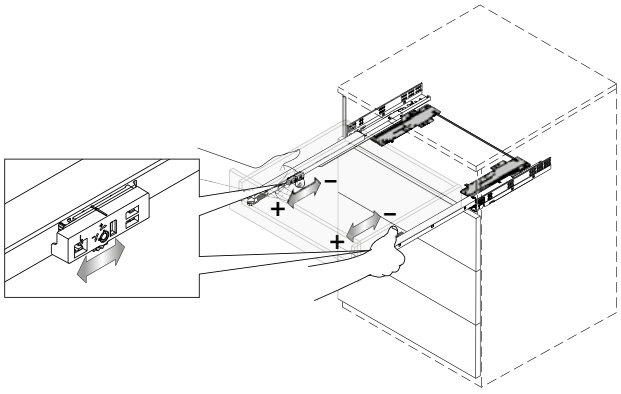
Height adjustment (max. +3.5 mm)	Dynapro 3D/4D	Dynapro 2D
		
Tilt angle adjustment of front (max. +4.0 mm)	**Dynapro 2D/3D/4D**	
		
Side adjustment (max. ±1.5 mm)	**Dynapro 3D/4D**	
		
Depth adjustment (max. +3.5 mm)	**Dynapro 4D**	
		

LEGEND

DYNAPRO TIPMATIC SOFT-CLOSE

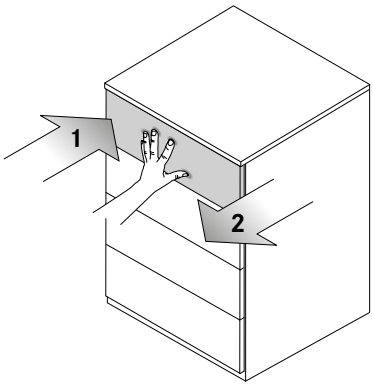
Front gap adjustment (+3 mm / -1 mm)



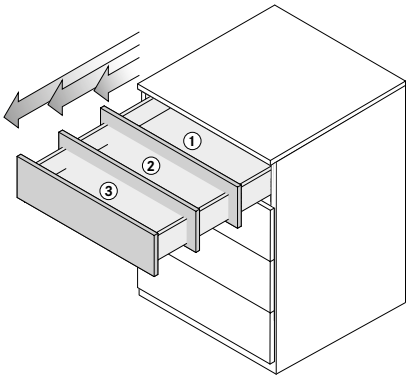


Opening force

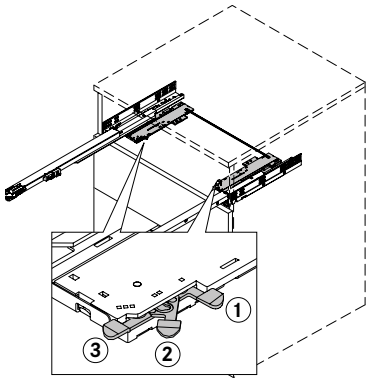
A



B



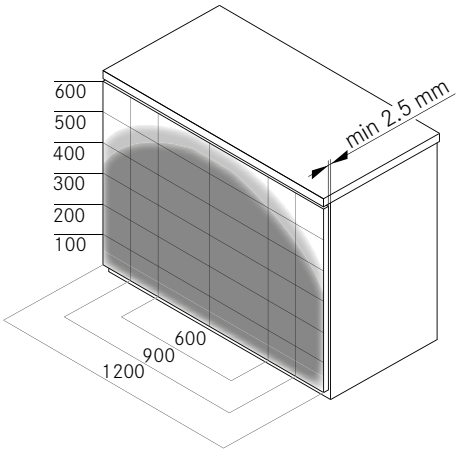
C



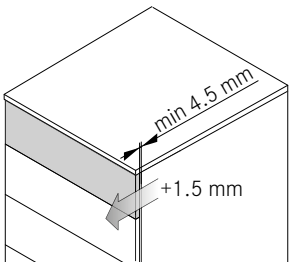
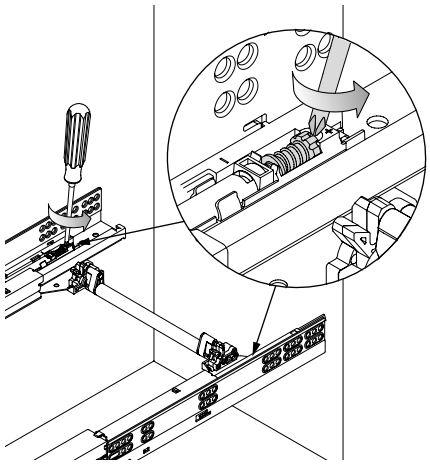
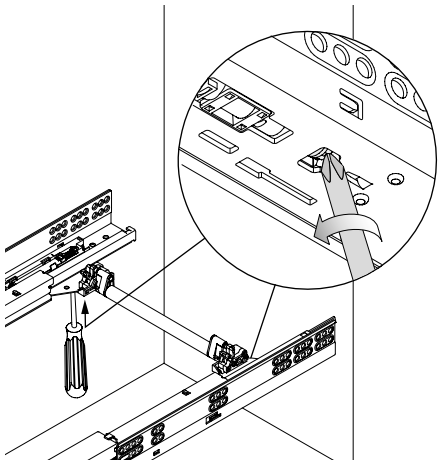
PAGE REFERENCES

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

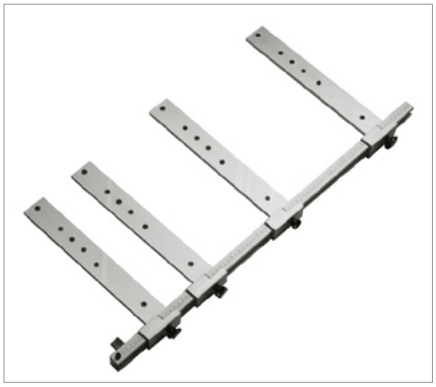
DYNAPRO TIPMATIC SOFT-CLOSE

Activation zone	
	

DYNAPRO TIPMATIC

Front gap adjustment (max. +1.5 mm)	Front gap adjustment from above	Front gap adjustment from below
Reliable opening and closing of the drawer depends on thefront 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. 		

LEGEND

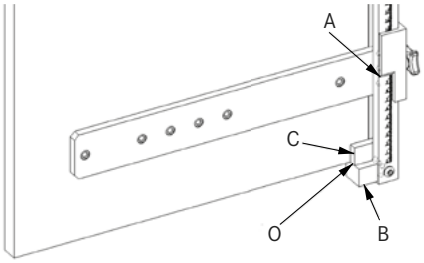


DRILLING JIG FOR CABINET MEMBER

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



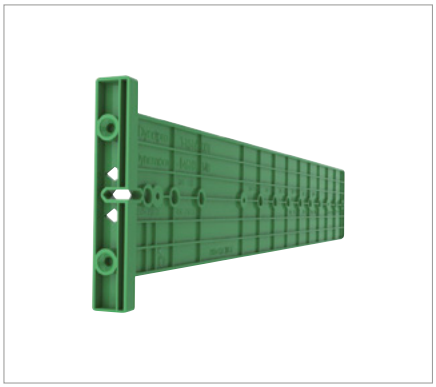
	Art.-no.	PU
	F146094**730**	501



INDIVIDUAL MARKING ELEMENT

For extending the drilling jig
for cabinet member F146094730

	Art.-no.	PU
	F146094**721**	299



DRILLING JIG FOR CABINET MEMBER

For use with pilot drill bit F146035692

	Art.-no.	PU
	F146101**348**	507



DRILLING JIG FOR DRAWER

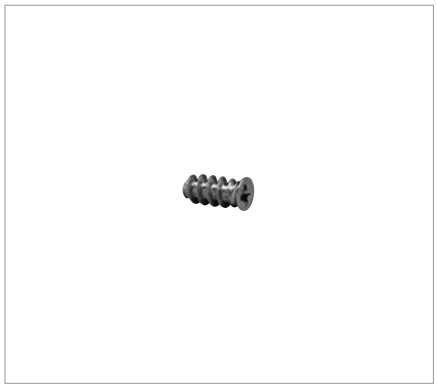
Pre-drilling the holes for:

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

	Art.-no.	PU
	F146109**874**	299

PAGE REFERENCES

Dynapro Soft-close	12	Dynapro Tipmatic	16	Technical information	20
Dynapro Tipmatic Soft-close	14	Pull-out shelf	18	Sensomatic	27



EURO SCREW

	Art.-no.	PU
Ø 6.3 x 14 mm Screw head Ø 7 mm	**F148**115**049**	147



SCREWDRIVER

GRASS cross head screwdriver
(Pozidriv No. 2)

	Art.-no.	PU
	F147010**256**	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	**F146**035**692**	299



DRILLING JIG FOR SENSOMATIC

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
	F146109**850**	299

LEGEND



SENSOMATIC OPENING SYSTEM

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

QUALITY CERTIFICATE
LGA

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

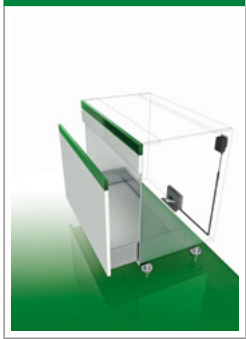
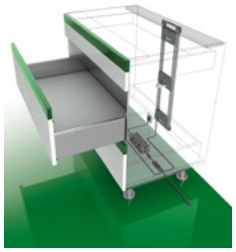
Electro-mechanical opening of wooden drawers and pot drawers. For a balance between stylish design and functional comfort.

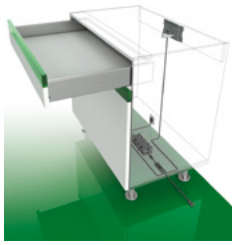
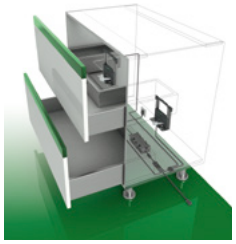
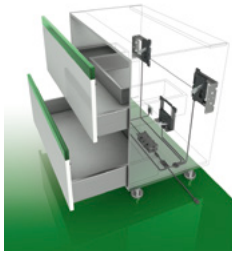
Product designation	Page
Dynapro Sensomatic single set	30
Standard cabinet with horizontal wooden stretcher	32
Standard cabinet with vertical wooden stretcher	34
Single drawer with overhead frame set mounting	36
Single drawer with back panel frame set mounting	38
Sink cabinet with bottom panel frame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

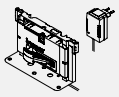
DYNAPRO SENSOMATIC
Single set



- 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	**F121**101**208**	201

1 set includes:

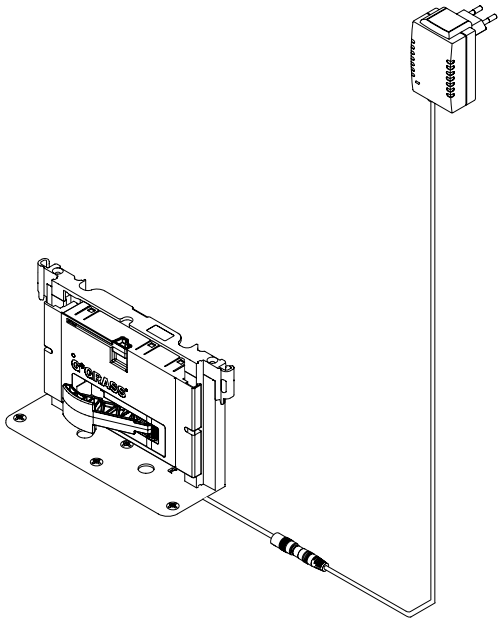
1 drive unit (1x)

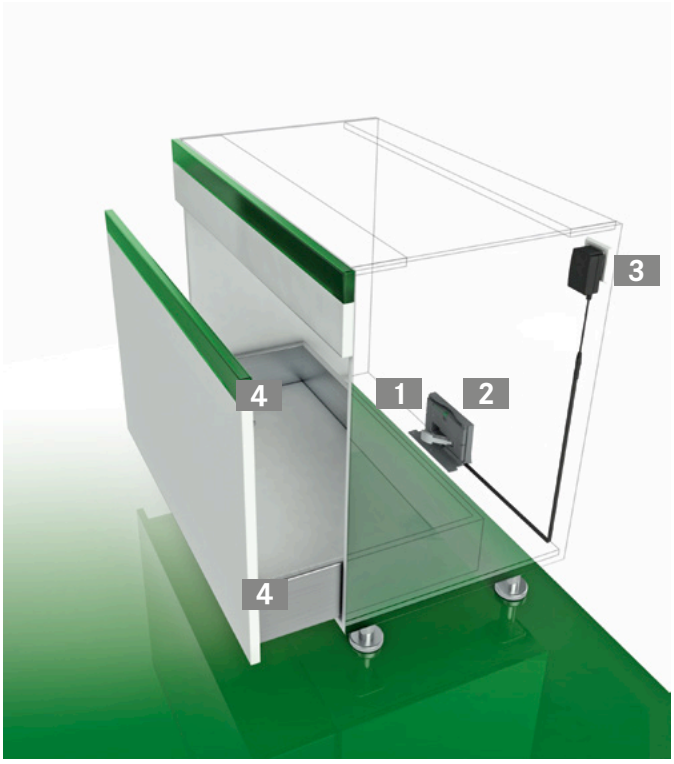
2 installation set (1x)

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)



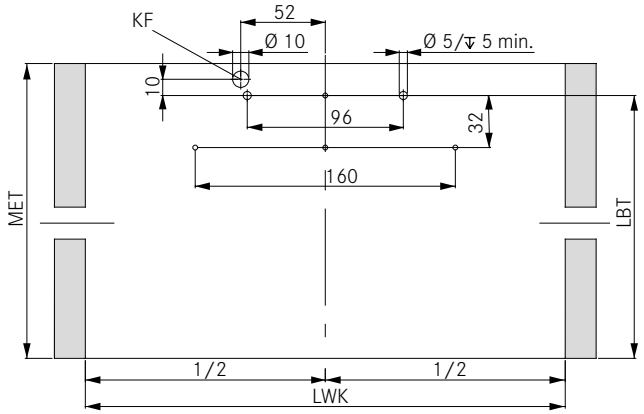


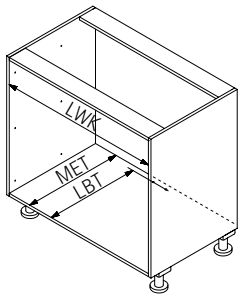
PAGE REFERENCES

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

INSTALLATION INFORMATION

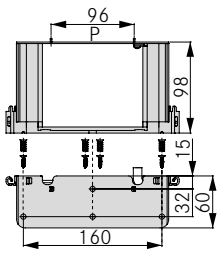
Installation dimensions



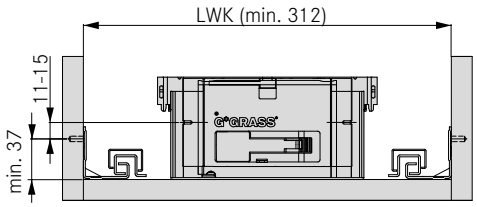


RW	MET	LBT
Wood	NL + 15	NL

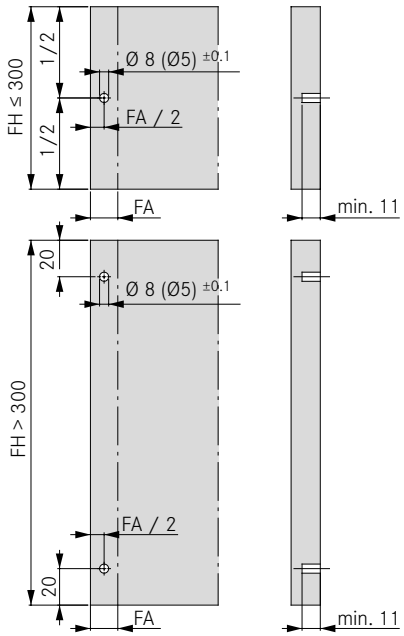
Installation set



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**
FH	**Height of front**
KF	**Cable routing**
LBT	**Depth of hole pattern**

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

RW	**Back panel**

DYNAPRO SENSOMATIC

Standard cabinet horizontal wooden stretcher

ORDER INFORMATION

1 Drive unit



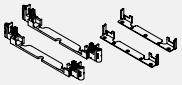
	Art.-no.	PU
for Dynapro	**F121**101**195**	607

2 Frame sides including frame side cable



Length	Art.-no.	PU
653	**F121**100**284**	207
750	**F121**100**285**	207
1170	**F121**100**286**	207

3 Fastening set consisting of: items 3a (2x) and 3b (2x)



	Art.-no.	PU
	F121100**610**	507

3a Frame connector



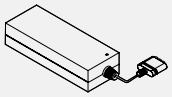
	Art.-no.	PU
	F121100**282**	211

3b Fixing brackets top/bottom



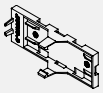
	Art.-no.	PU
	F121100**270**	211

4 Power supply unit



	Art.-no.	PU
	F121100**269**	607

5 Power supply unit holder



	Art.-no.	PU
	F121100**604**	507

6 Front buffer, spring-loaded



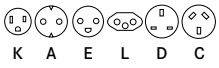
Ø	Front gap	Art.-no.	PU
5	2.2	**F121**100**294**	223
	3	**F121**100**295**	223
8	2.2	**F121**100**297**	223
	3	**F121**100**298**	223

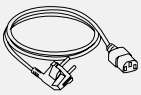
7 Connection cable with 2-way adapter



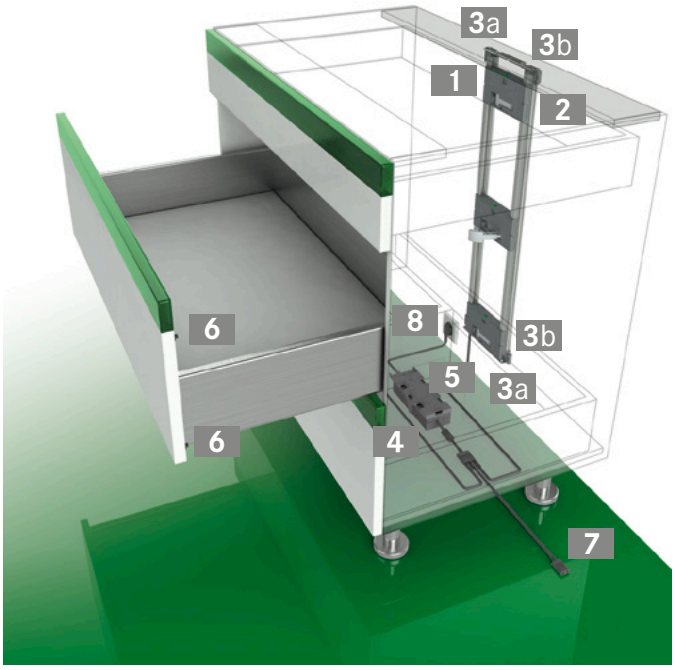
Length	Art.-no.	PU
600	**F121**100**288**	207
1000	**F121**100**289**	207
2000	**F121**100**291**	207

8 Power supply cable





Plug	Art.-no.	PU
Power supply cable K (USA, CAN)	**F120**069**760**	207
Power supply cable K (JP)	**F120**072**445**	207
Power supply cable A (DE, ES, FR, IT, RU, NL, SE)	**F120**069**761**	207
Power supply cable E (DK)	**F120**069**763**	207
Power supply cable L (CH)	**F120**069**765**	207
Power supply cable D (UK, AE, MY)	**F120**069**766**	207
Mains cable C (AU, NZ)	**F120**078**669**	207
without plug	**F120**069**767**	207

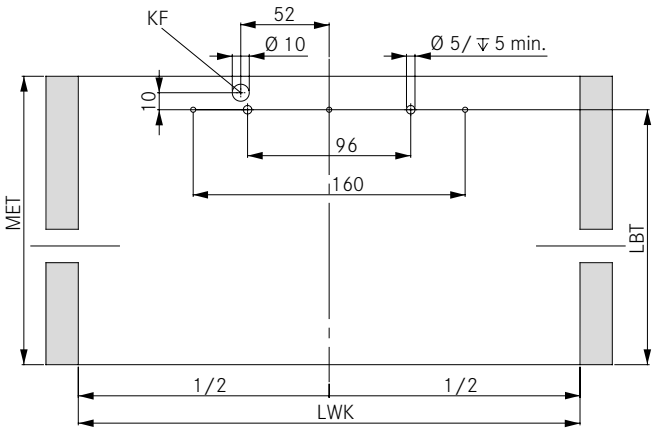


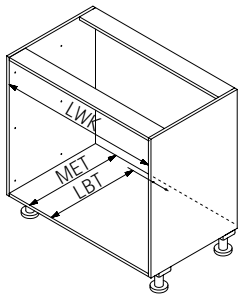
PAGE REFERENCES

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

INSTALLATION INFORMATION

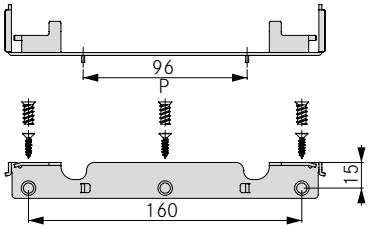
Installation dimensions



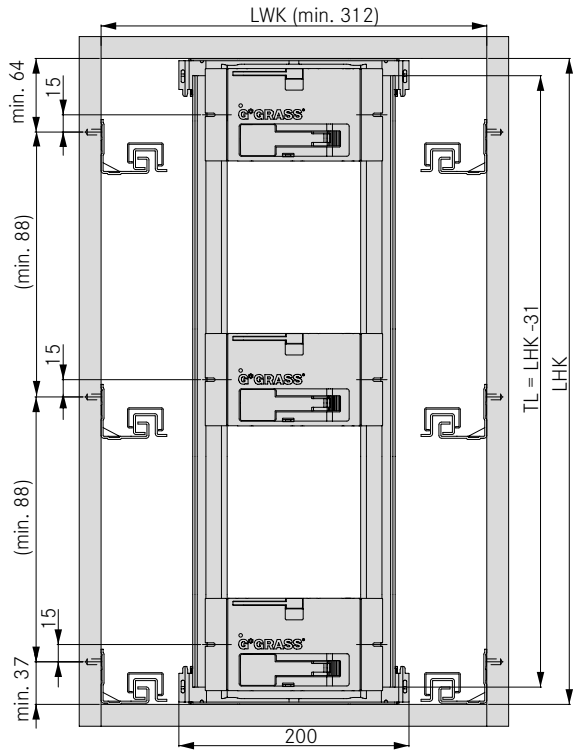


RW	MET	LBT
Wood	NL + 15	NL

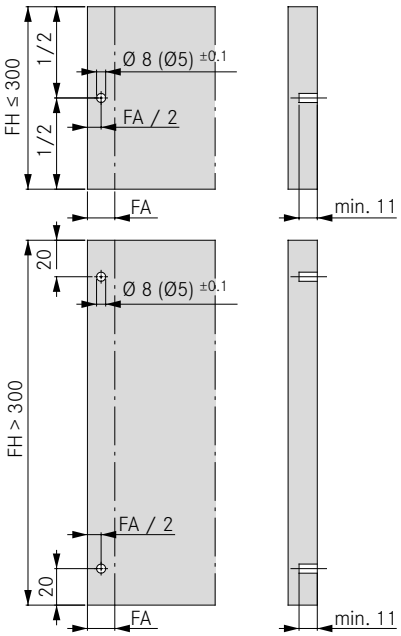
Fixing brackets top/bottom



Position of drive unit



Position of front buffer



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

LEGEND

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

DYNAPRO SENSOMATIC
Standard cabinet vertical wooden stretcher

ORDER INFORMATION

1 Drive unit



	Art.-no.	PU
for Dynapro	**F121101195**	607

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.	PU
	F121100282	211

4 Fixing brackets top/bottom



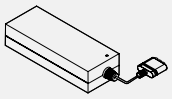
	Art.-no.	PU
	F121100270	211

5 Fixing bracket, back inside mounted



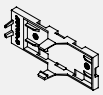
	Art.-no.	PU
	F121100275	207

6 Power supply unit



	Art.-no.	PU
	F121100269	607

7 Power supply unit holder



	Art.-no.	PU
	F121100604	507

8 Front buffer, spring-loaded



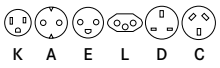
Ø	Front gap	Art.-no.	PU
5	2.2	**F121100294**	223
	3	**F121100295**	223
8	2.2	**F121100297**	223
	3	**F121100298**	223

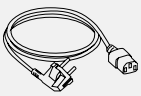
9 Connection cable with 2-way adapter



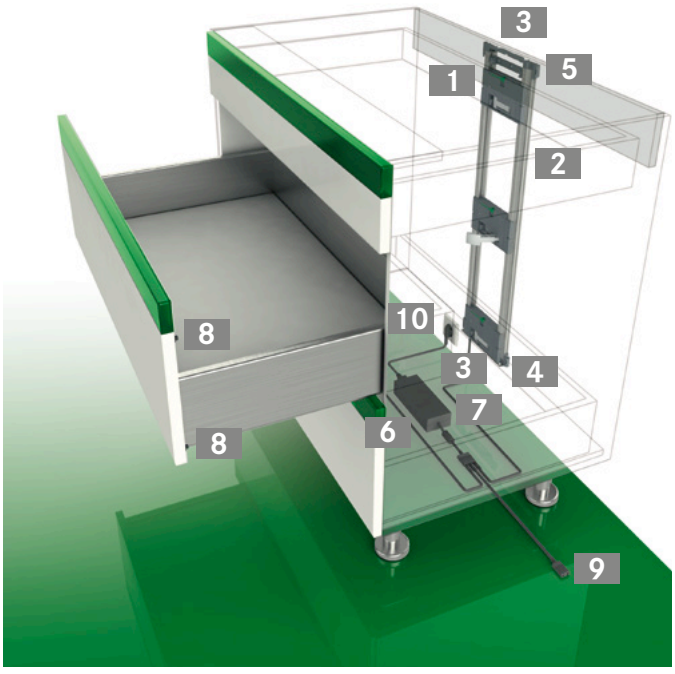
Length	Art.-no.	PU
600	**F121100288**	207
1000	**F121100289**	207
2000	**F121100291**	207

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

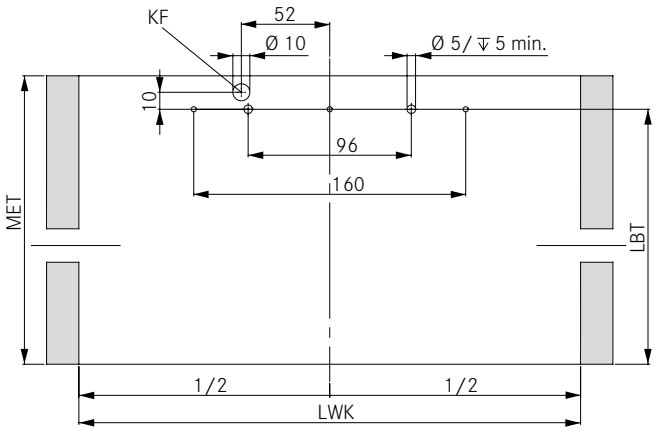


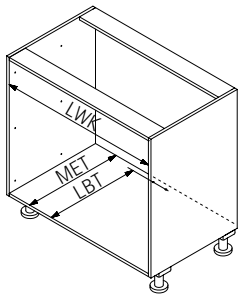
PAGE REFERENCES

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

INSTALLATION INFORMATION

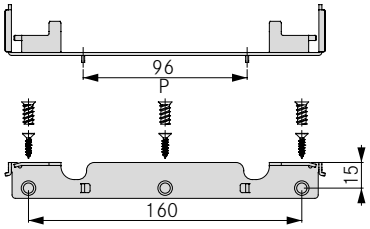
Installation dimensions



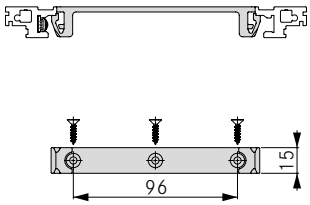


RW	MET	LBT
Wood	NL + 15	NL

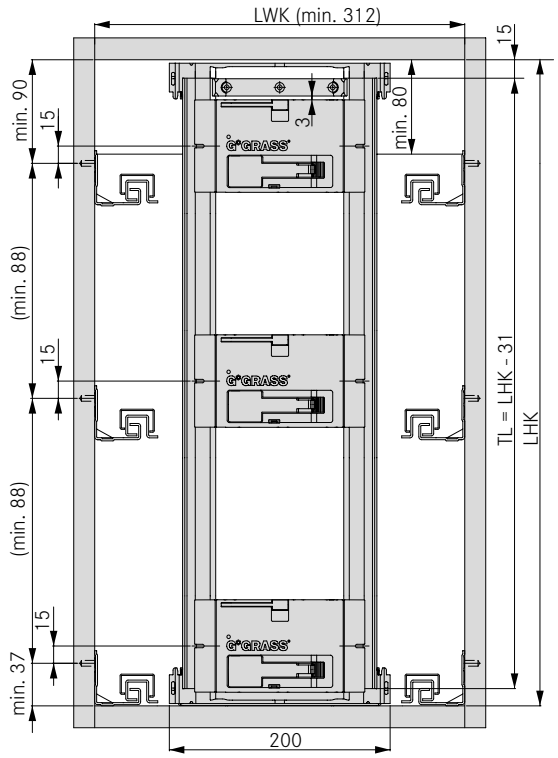
Fixing brackets top/bottom



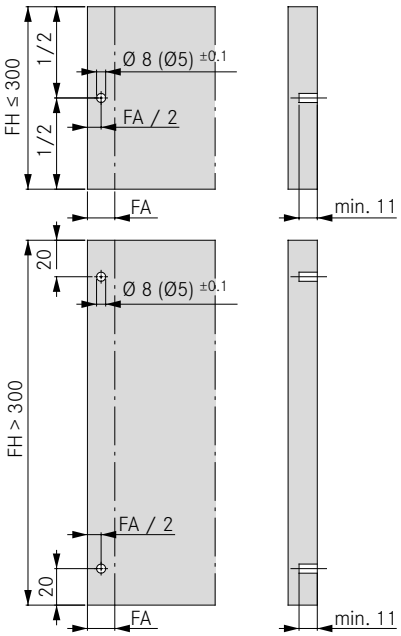
Fixing bracket, back inside mounted



Position of drive unit



Position of front buffer



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

LEGEND

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

DYNAPRO SENSOMATIC

Single drawer with overhead frame set mounting

ORDER INFORMATION

1 Drive unit



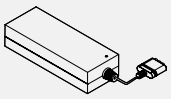
	Art.-no.	PU
for Dynapro	**F121**101**195**	607

2 Installation set



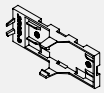
	Art.-no.	PU
	F121100**273**	207

3 Power supply unit



	Art.-no.	PU
	F121100**269**	607

4 Power supply unit holder



	Art.-no.	PU
	F121100**604**	507

5 Front buffer, spring-loaded



Ø	Front gap	Art.-no.	PU
5	2.2	**F121**100**294**	223
	3	**F121**100**295**	223
8	2.2	**F121**100**297**	223
	3	**F121**100**298**	223

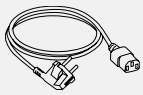
6 Connection cable with 2-way adapter



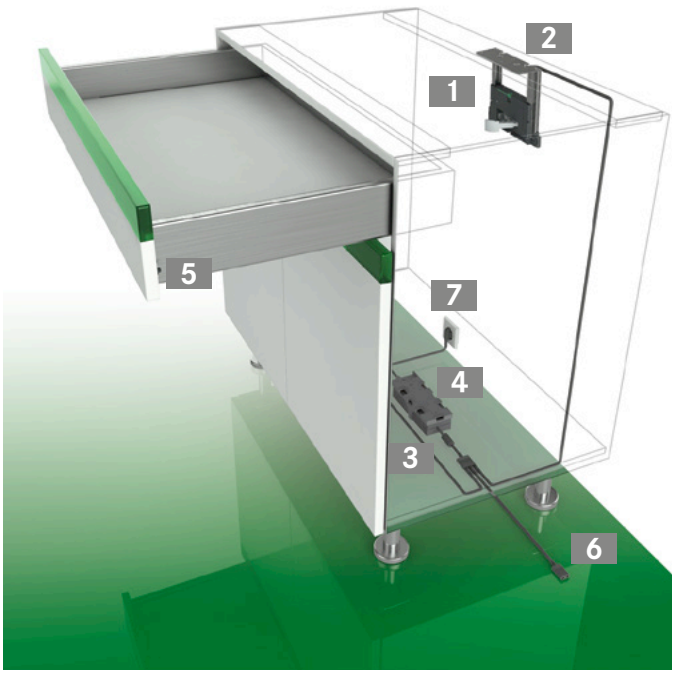
Length	Art.-no.	PU
600	**F121**100**288**	207
1000	**F121**100**289**	207
2000	**F121**100**291**	207

7 Power supply cable





Plug	Art.-no.	PU
Power supply cable K (USA, CAN)	**F120**069**760**	207
Power supply cable K (JP)	**F120**072**445**	207
Power supply cable A (DE, ES, FR, IT, RU, NL, SE)	**F120**069**761**	207
Power supply cable E (DK)	**F120**069**763**	207
Power supply cable L (CH)	**F120**069**765**	207
Power supply cable D (UK, AE, MY)	**F120**069**766**	207
Mains cable C (AU, NZ)	**F120**078**669**	207
without plug	**F120**069**767**	207

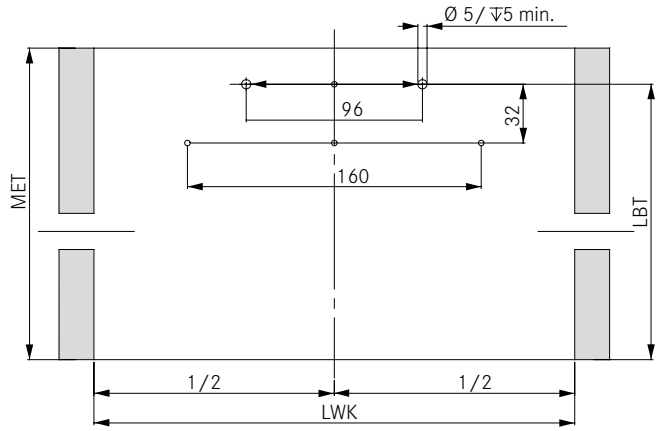


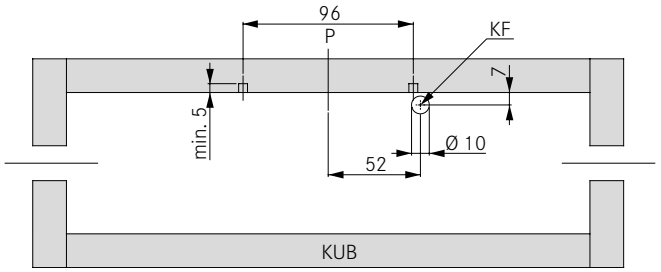
PAGE REFERENCES

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

INSTALLATION INFORMATION

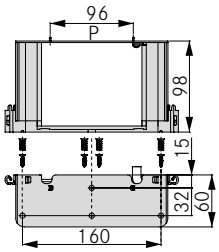
Installation dimensions



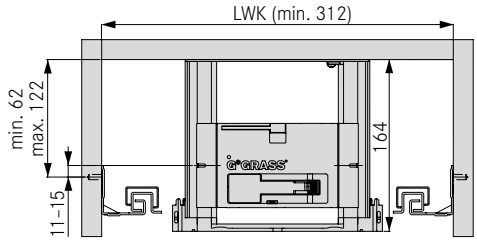


RW	MET	LBT
Wood	NL + 15	NL

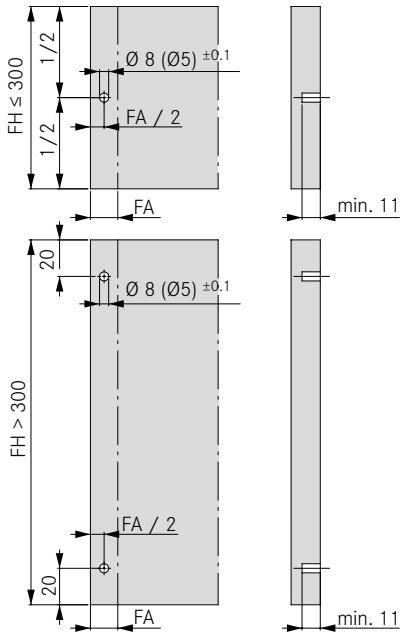
Installation set



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

DYNAPRO SENSOMATIC

Single drawer with back panel frame set mounting

ORDER INFORMATION

1 Drive unit



	Art.-no.	PU
for Dynapro	**F121**101**195**	607

2 Frame sides for back panel frame set mounting including hole drilling



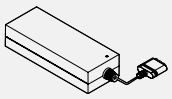
	Art.-no.	PU
	F121100**283**	207

3 Frame connector



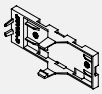
	Art.-no.	PU
	F121100**282**	211

4 Power supply unit



	Art.-no.	PU
	F121100**269**	607

5 Power supply unit holder



	Art.-no.	PU
	F121100**604**	507

6 Front buffer, spring-loaded



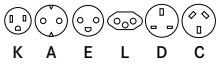
Ø	Front gap	Art.-no.	PU
5	2.2	**F121**100**294**	223
	3	**F121**100**295**	223
8	2.2	**F121**100**297**	223
	3	**F121**100**298**	223

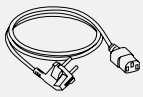
7 Connection cable with 2-way adapter



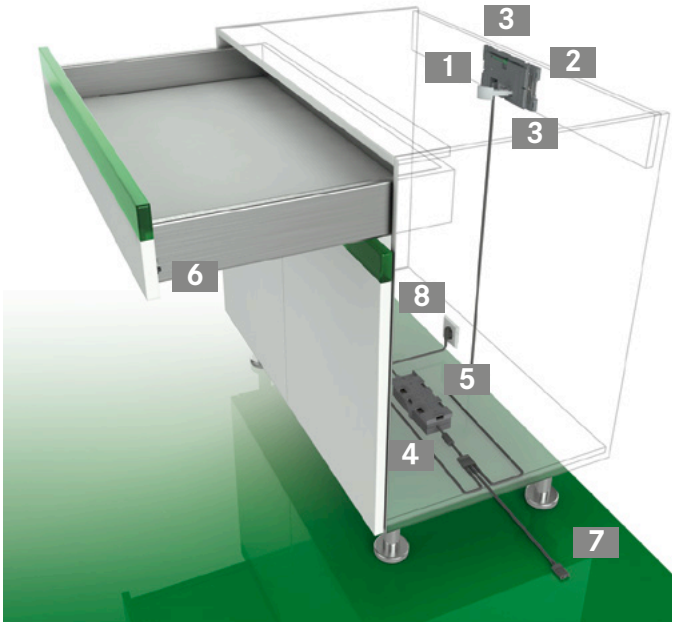
Length	Art.-no.	PU
600	**F121**100**288**	207
1000	**F121**100**289**	207
2000	**F121**100**291**	207

8 Power supply cable





Plug	Art.-no.	PU
Power supply cable K (USA, CAN)	**F120**069**760**	207
Power supply cable K (JP)	**F120**072**445**	207
Power supply cable A (DE, ES, FR, IT, RU, NL, SE)	**F120**069**761**	207
Power supply cable E (DK)	**F120**069**763**	207
Power supply cable L (CH)	**F120**069**765**	207
Power supply cable D (UK, AE, MY)	**F120**069**766**	207
Mains cable C (AU, NZ)	**F120**078**669**	207
without plug	**F120**069**767**	207

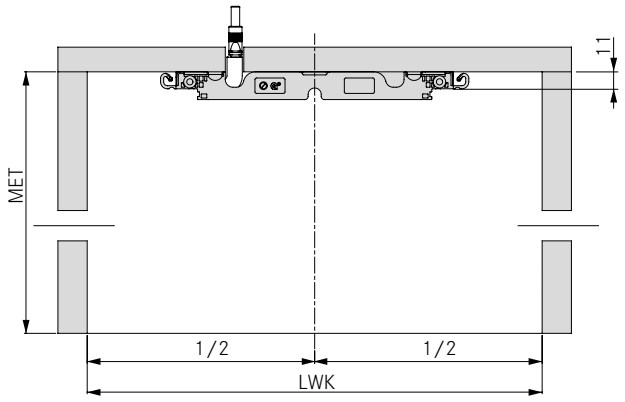


PAGE REFERENCES

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

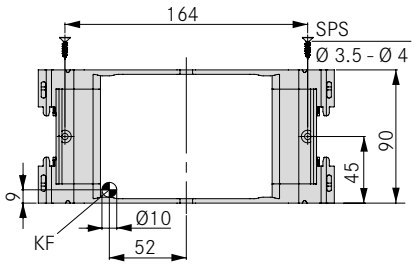
INSTALLATION INFORMATION

Installation dimensions

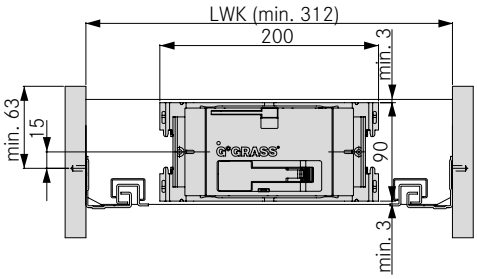


RW	MET
Wood	NL + 15

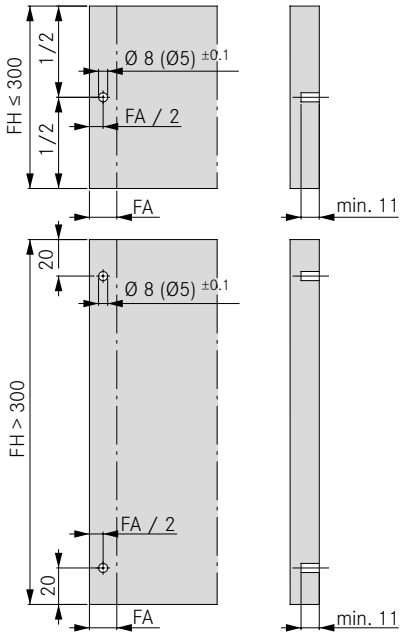
Frame sides



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

DYNAPRO SENSOMATIC

Sink cabinet with bottom panel frame set mounting

ORDER INFORMATION

1 Drive unit



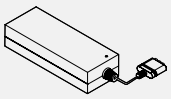
	Art.-no.	PU
for Dynapro	**F121**101**195**	607

2 Installation set



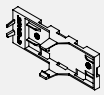
	Art.-no.	PU
	F121100**273**	207

3 Power supply unit



	Art.-no.	PU
	F121100**269**	607

4 Power supply unit holder



	Art.-no.	PU
	F121100**604**	507

5 Front buffer, spring-loaded



Ø	Front gap	Art.-no.	PU
5	2.2	**F121**100**294**	223
	3	**F121**100**295**	223
8	2.2	**F121**100**297**	223
	3	**F121**100**298**	223

6 4-way adapter



	Art.-no.	PU
	F121100**293**	207

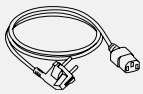
7 Connection cable with 2-way adapter



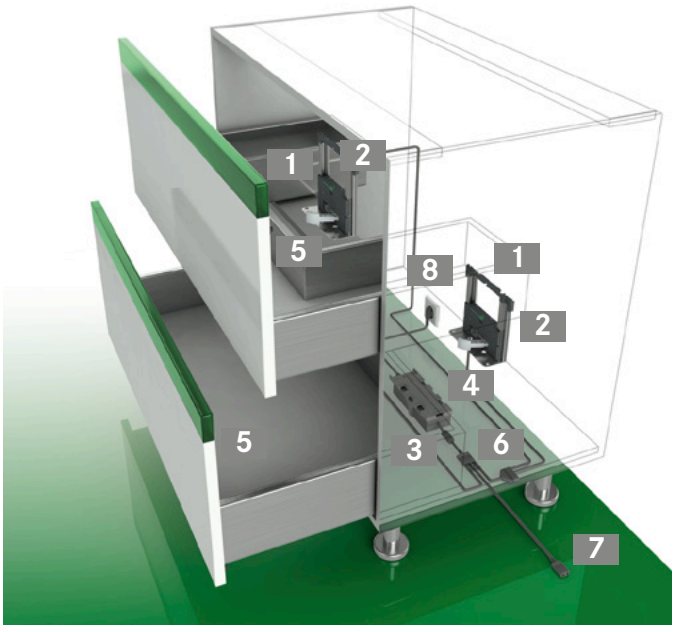
Length	Art.-no.	PU
600	**F121**100**288**	207
1000	**F121**100**289**	207
2000	**F121**100**291**	207

8 Power supply cable





Plug	Art.-no.	PU
Power supply cable K (USA, CAN)	**F120**069**760**	207
Power supply cable K (JP)	**F120**072**445**	207
Power supply cable A (DE, ES, FR, IT, RU, NL, SE)	**F120**069**761**	207
Power supply cable E (DK)	**F120**069**763**	207
Power supply cable L (CH)	**F120**069**765**	207
Power supply cable D (UK, AE, MY)	**F120**069**766**	207
Mains cable C (AU, NZ)	**F120**078**669**	207
without plug	**F120**069**767**	207

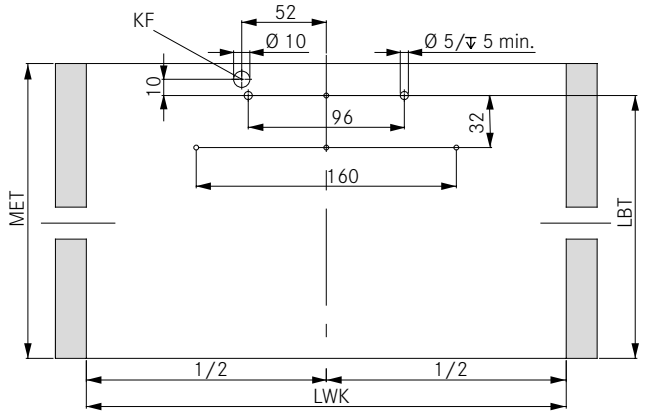


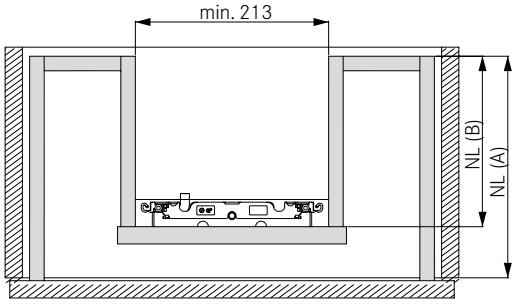
PAGE REFERENCES

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

INSTALLATION INFORMATION

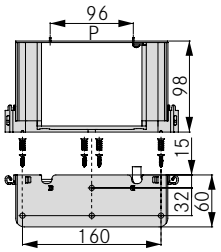
Installation dimensions - bottom panel frame set mounting



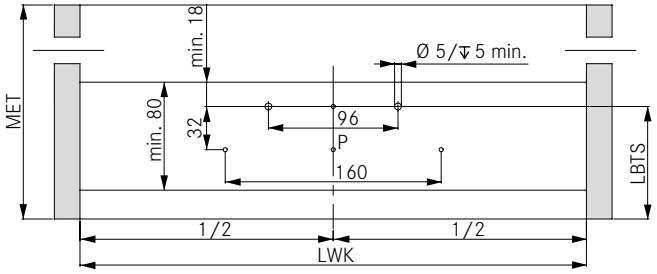


RW	MET	LBT	LBTS
Wood	NL + 15	NL	NL(A) - NL(B) + 9

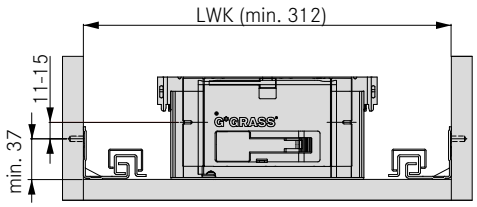
Installation set



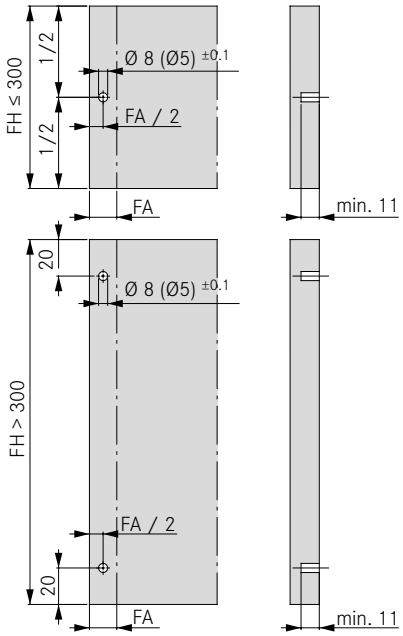
Sink cabinet installation



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

DYNAPRO SENSOMATIC

Sink cabinet with side panel frame set mounting

ORDER INFORMATION

1 Drive unit



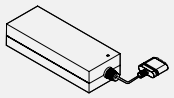
	Art.-no.	PU
for Dynapro	F121101195	607

2 Installation set



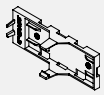
	Art.-no.	PU
	F121100273	207

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



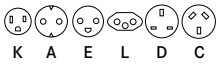
	Art.-no.	PU
	F121100293	207

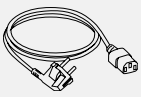
8 Connection cable with 2-way adapter



Length	Art.-no.	PU
600	F121100288	207
1000	F121100289	207
2000	F121100291	207

9 Power supply cable

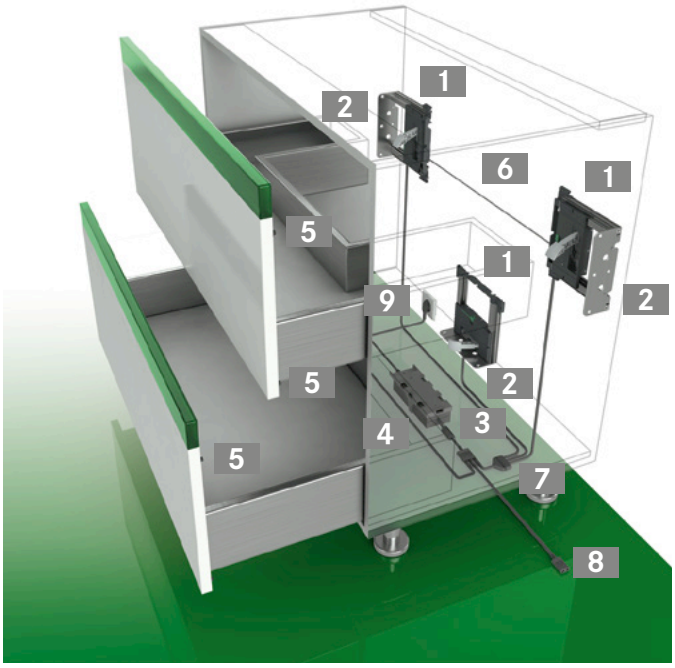




Plug	Art.-no.	PU
Power supply cable K (USA, CAN)	F120069760	207
Power supply cable K (JP)	F120072445	207
Power supply cable A (DE, ES, FR, IT, RU, NL, SE)	F120069761	207
Power supply cable E (DK)	F120069763	207
Power supply cable L (CH)	F120069765	207
Power supply cable D (UK, AE, MY)	F120069766	207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

NOTE

Suitable from NL 350

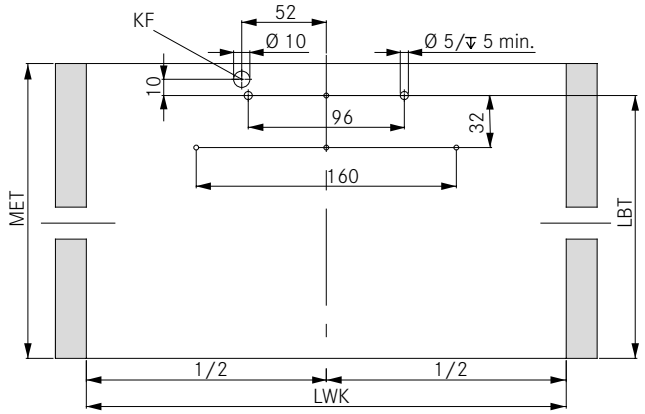


PAGE REFERENCES

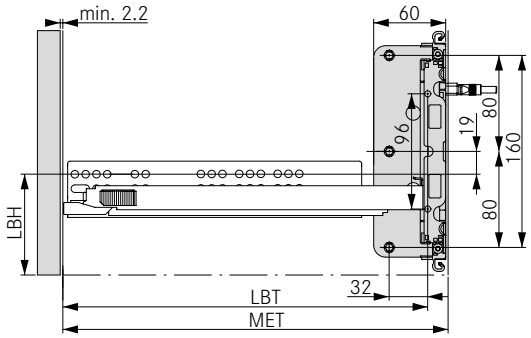
Dynapro Soft-close	12	Installation instructions	44		
Technical information	25	Packaging code	75		

INSTALLATION INFORMATION

Installation dimensions – bottom panel frame set mounting

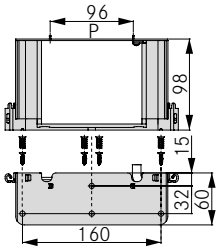


Installation dimensions – side panel frame set mounting

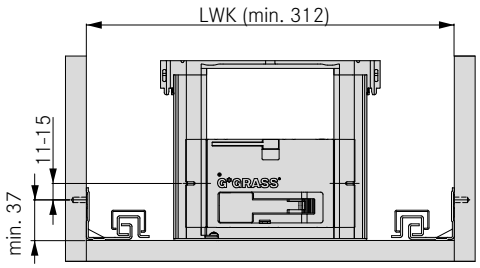


RW	MET	LBT
Wood	NL + 15	NL

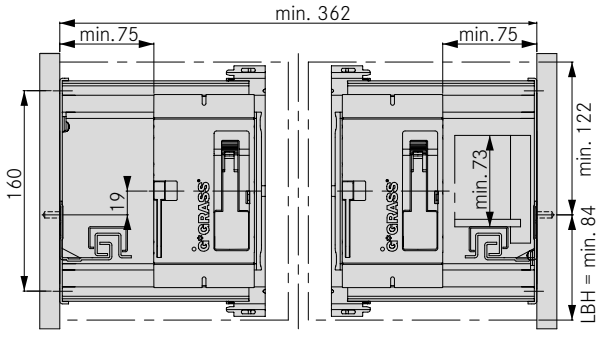
Installation set



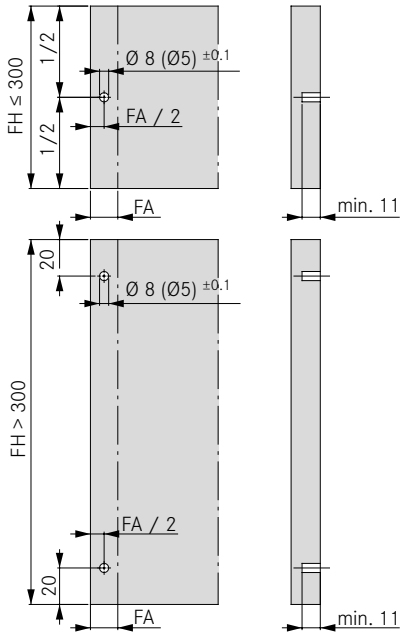
Position of drive unit, bottom panel frame set mounting



Position of drive unit, side panel frame set mounting



Position of front buffer



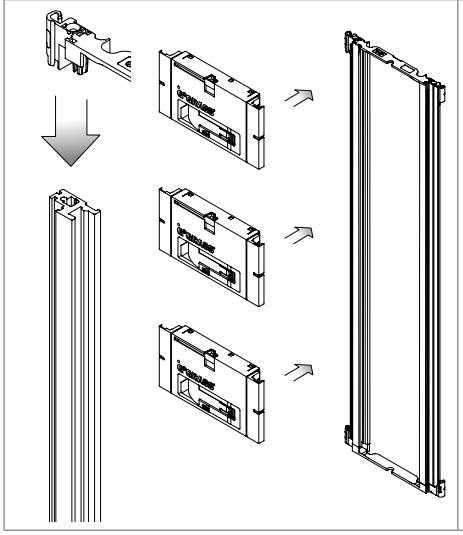
Note:
When installing Dynapro slides 70 kg, 4 front buffers must be inserted into the front.

LEGEND

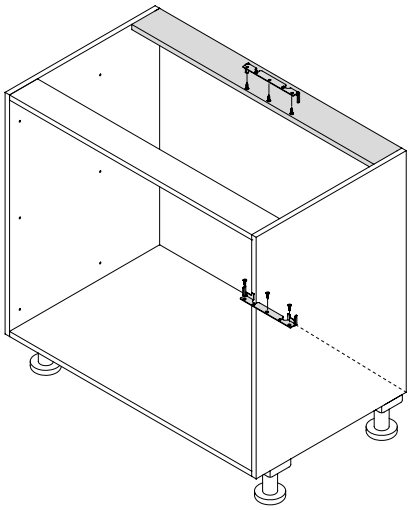
FA	Front overlay
FH	Height of front
KF	Cable routing
LBH	Height of hole pattern
LBT	Depth of hole pattern
LWK	Inside cabinet width
MET	Minimum installation depth
NL	Nominal length
P	Positioning aid
RW	Back panel

INSTALLATION INSTRUCTIONS

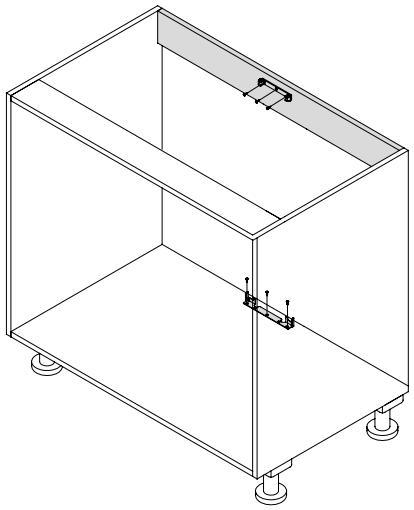
Stretcher installation



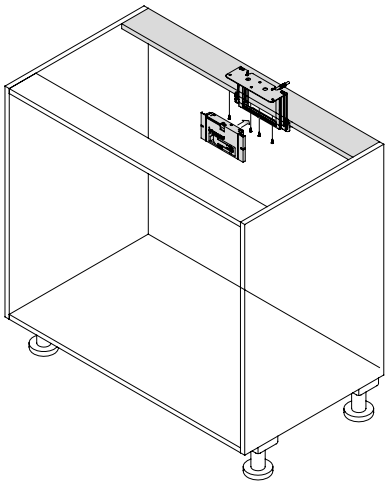
Standard cabinet installation with horiztontal wooden stretcher



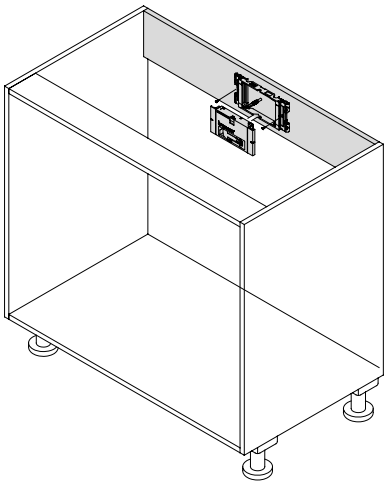
Standard cabinet installation with vertical wooden stretcher



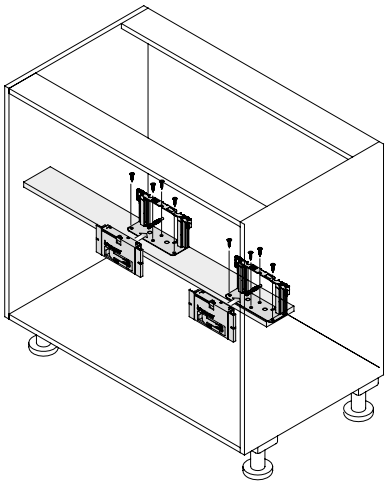
Overhead frame set mounting, single drawer



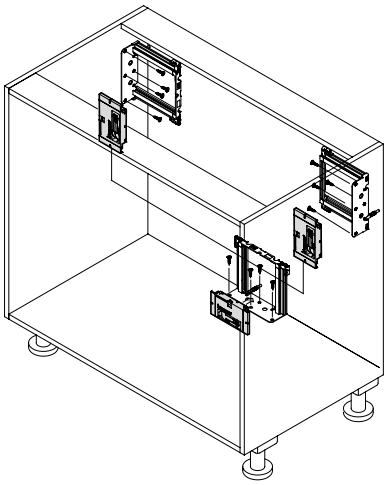
Back panel frame set mounting, single drawer



Bottom panel frame set mounting, sink cabinet



Side panel frame set mounting, sink cabinet

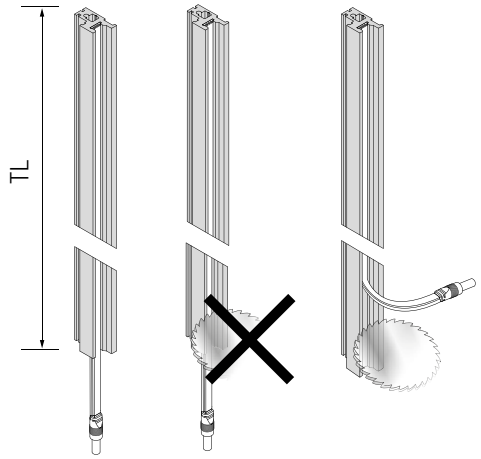


PAGE REFERENCES

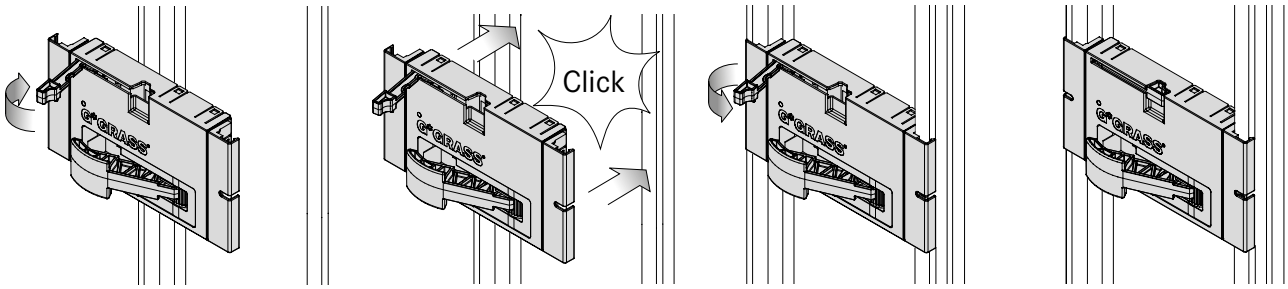
Horizontal wooden stretcher	32	Overhead frame set mounting	36	Bottom panel frame set mounting	40
Vertical wooden stretcher	34	Back panel frame set mounting	38	Side panel frame set mounting	42

INSTALLATION INSTRUCTIONS

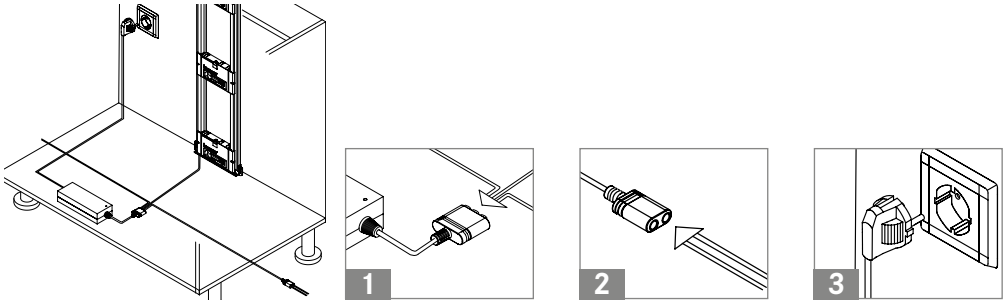
Cutting stretcher to length (horizontal and vertical wooden stretcher)



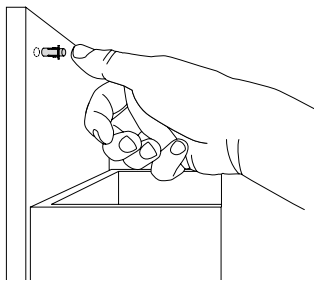
Installation of drive unit



Wiring (connection sequence)

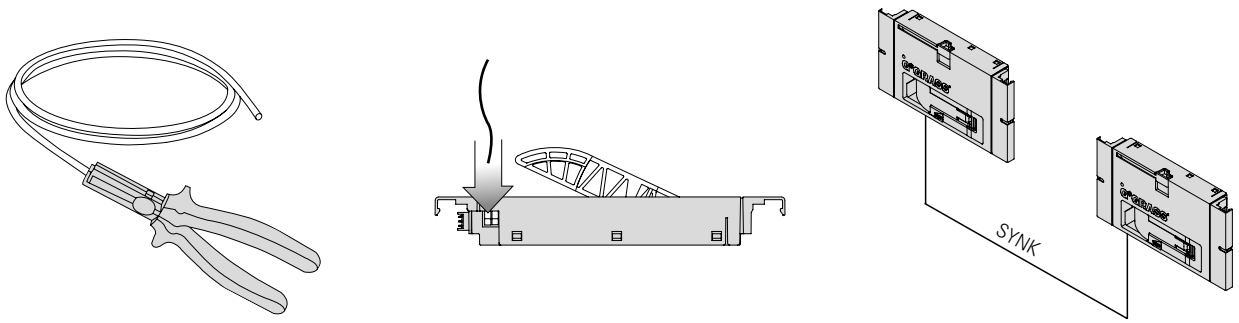


Inserting front buffer



Do not drive in or glue!

Installing the synchronisation cable



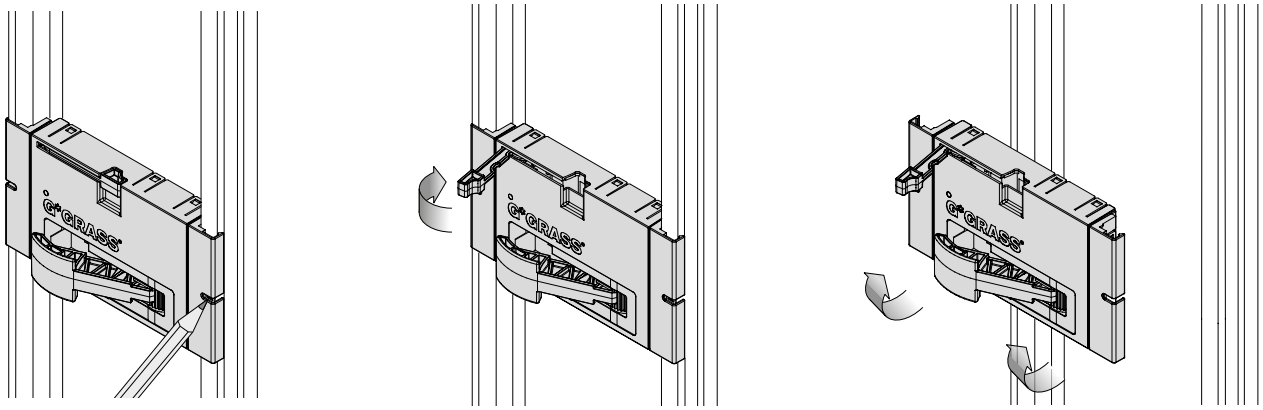
LEGEND

SYNK	Synchronisation cable
TL	Length of frame side

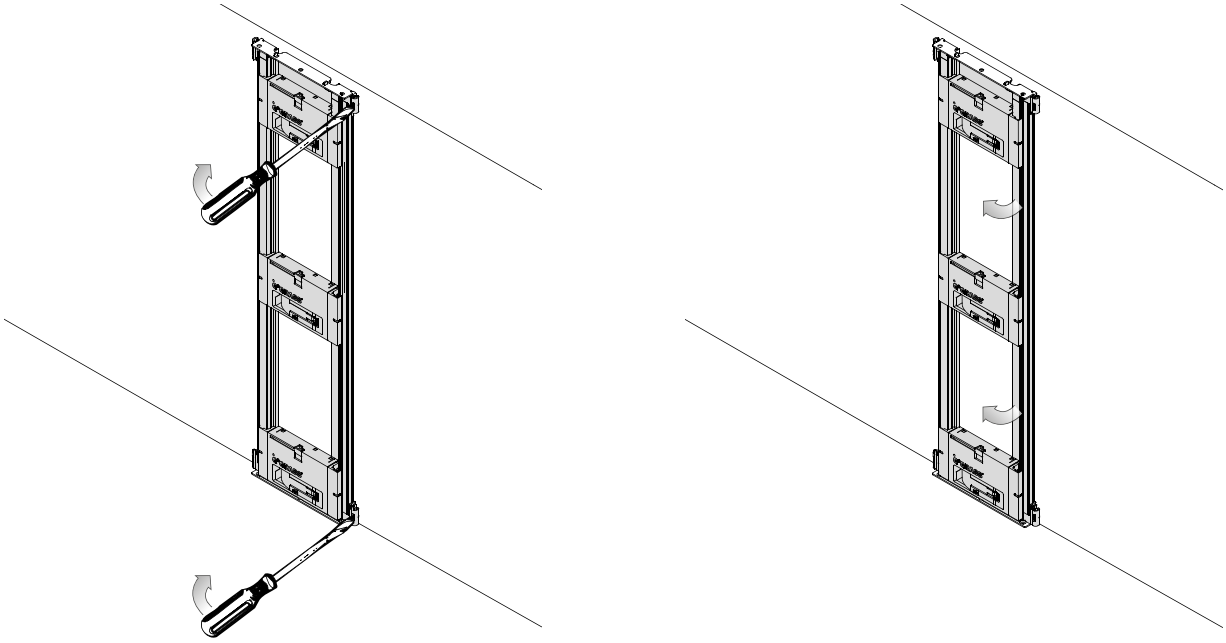
DYNAPRO SENSOMATIC
Dismantling instructions

DISMOUNTING

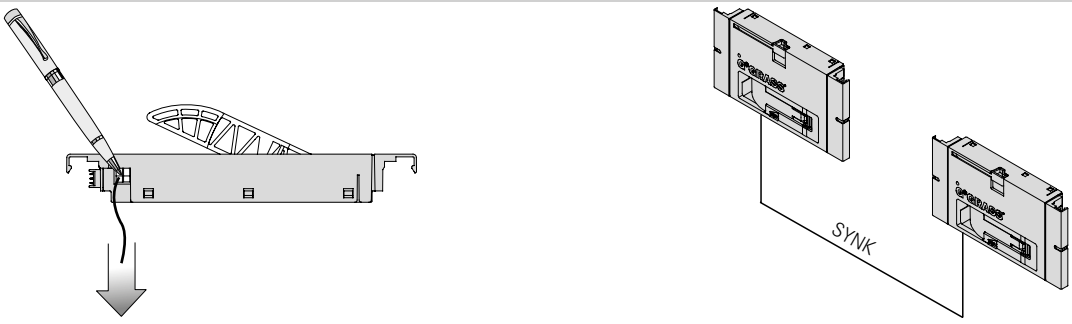
Dismantling the drive unit



Dismantling the frame sides



Dismantling the synchronisation cable

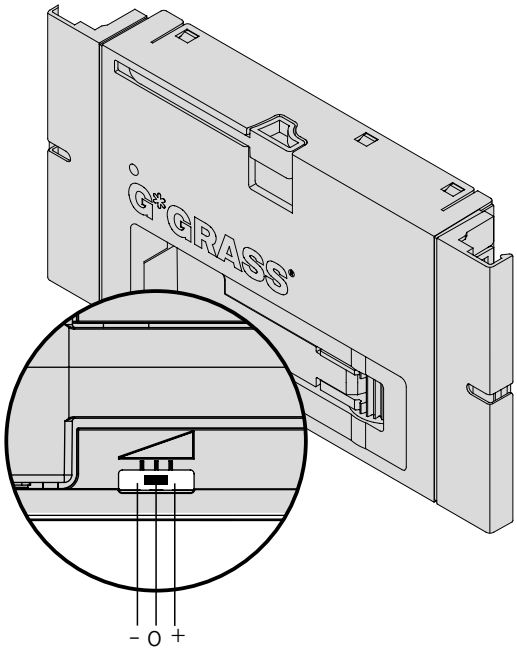


PAGE REFERENCES

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

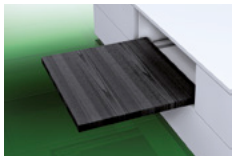
The economical alternative for those who do not want to make any compromises when it comes to running characteristics.

QUALITY CERTIFICATE
LGA



DYNAMOOV SLIDE SYSTEM

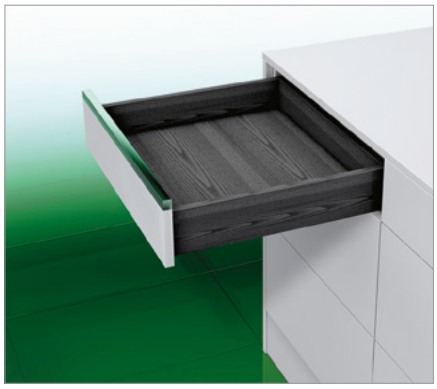
The highly efficient movement system
for the future.

	Product description	Page
	**Dynamoov full extension slide 30 kg Soft-close** • Soft-close damping system • Integrated height adjustment without tools + 3.5 mm	50
	**Dynamoov full extension slide 30 kg Self-close** • Self-close closing system • Integrated height adjustment without tools + 3.5 mm	52
	**Dynamoov full extension slide 30 kg Tipmatic** • Tipmatic opening system • Integrated height adjustment without tools + 3.5 mm • Integrated front gap adjustment + 2 mm	54
	**Dynamoov for base panel mounting and pull-out shelf** • 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

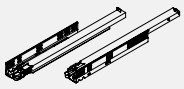


- Excellent running characteristics
- Fully synchronised slide technology
- Soft-close damping system
- Stepless self-locking of the drawer when placed on the slide
- Integrated height adjustment, tool-free +3.5 mm
- Optional depth adjustment +3.5 mm

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

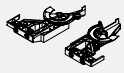
ORDER INFORMATION

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



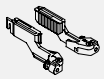
NL	30 kg					
	Art.-no.	PU				
250	**F130**107**760**	204				
270	**F130**107**761**	204	211			
300	**F130**107**764**	204	211			
320	**F130**107**767**	204				
350	**F130**107**768**	204	211			
380	**F130**107**771**	204				
400	**F130**107**772**	204	211			
420	**F130**107**775**	204				
450	**F130**107**776**	204	210			
480	**F130**107**779**	204				
500	**F130**107**780**	204	210			
520	**F130**107**783**	204				
550	**F130**107**784**	204	210			
600	**F130**107**787**	204	208			

2 Front locking device (1D)
Set: One left, one right

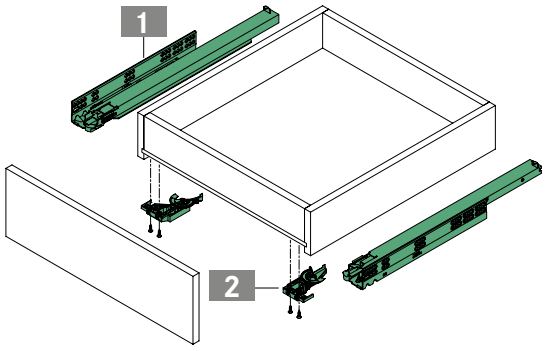


	Art.-no.	PU				
	F134101**220**	517	233			

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



	Art.-no.	PU				
	F134101**313**	533				



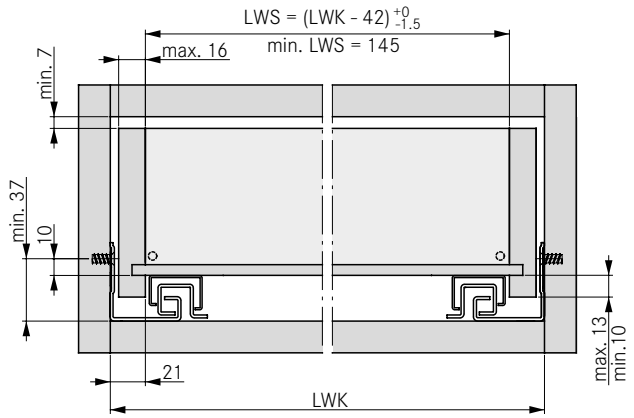
PAGE REFERENCES

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

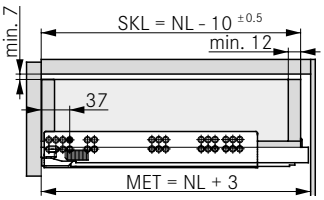
PLANNING DIMENSIONS

All dimensions in millimetres

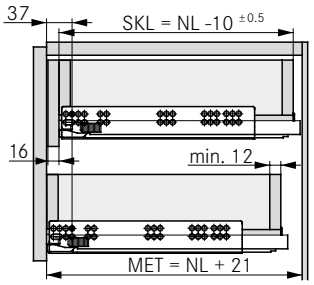
Installation dimensions



Drawer

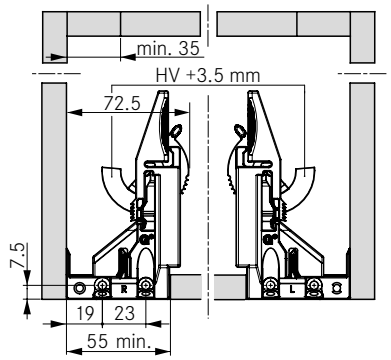


Inset drawer

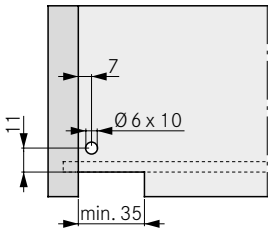


NL	SKL	MET
250	240	253
270	260	273
300	290	303
320	310	323
350	340	353
380	370	383
400	390	403
420	410	423
450	440	453
480	470	483
500	490	503
520	510	523
550	540	553
600	590	603

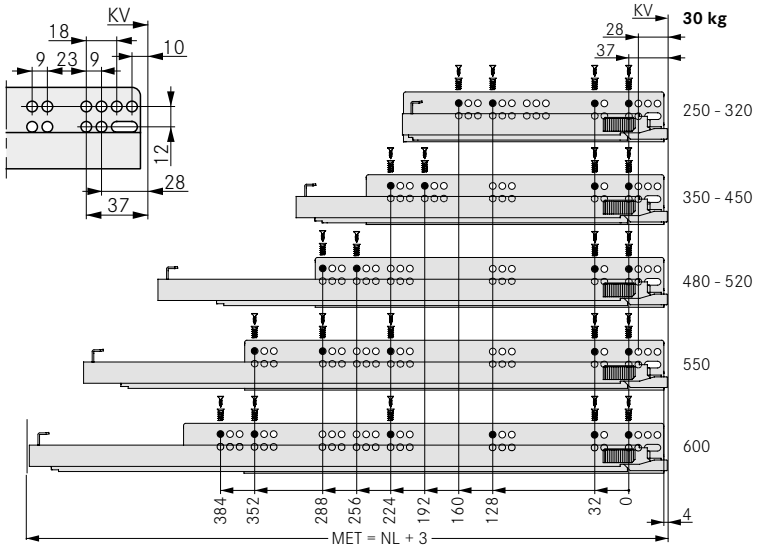
Locking device fixing position



Back panel hole



Fixing positions for full extension drawer





Euro screw Ø 6.3 x 14 mm

Chipboard screw Ø 4 x 16 mm

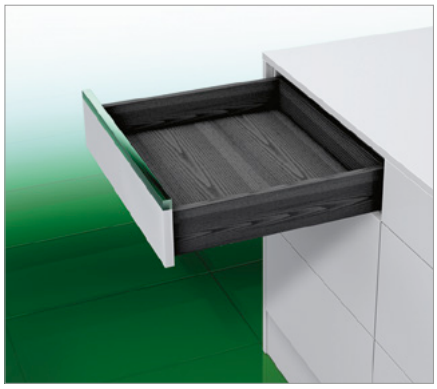
Screw head Ø 7 mm

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

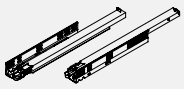


- Excellent running characteristics
- Fully synchronised slide technology
- Self-close closing system
- Stepless self-locking of the drawer when placed on the slide
- Integrated height adjustment, tool-free +3.5 mm
- Optional depth adjustment +3.5 mm

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

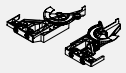
ORDER INFORMATION

1 Dynamoov full extension slide
Self-close
Set: One left, one right



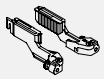
NL	30 kg					
	Art.-no.	PU				
270	**F130**101**161**	204				
300	**F130**101**162**	204				
350	**F130**101**164**	204				
400	**F130**101**166**	204				
450	**F130**101**168**	204				
500	**F130**101**170**	204				
550	**F130**101**172**	204				

2 Front locking device (1D)
Set: One left, one right

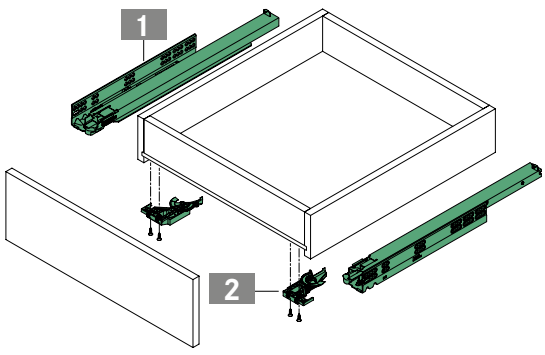


	Art.-no.	PU				
	F134101**220**	517	233			

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



	Art.-no.	PU				
	F134101**313**	533				



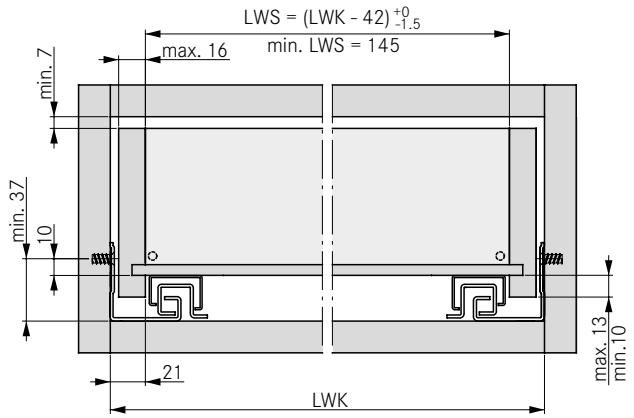
PAGE REFERENCES

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

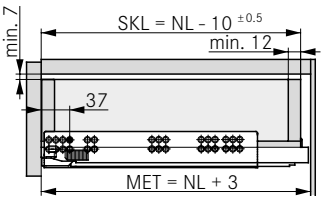
PLANNING DIMENSIONS

All dimensions in millimetres

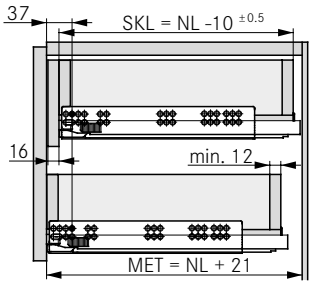
Installation dimensions



Drawer

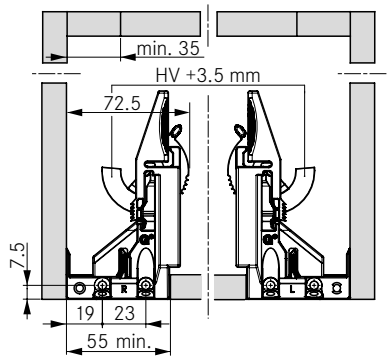


Inset drawer

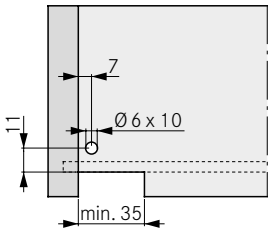


NL	SKL	MET
270	260	273
300	290	303
350	340	353
400	390	403
450	440	453
500	490	503
550	540	553

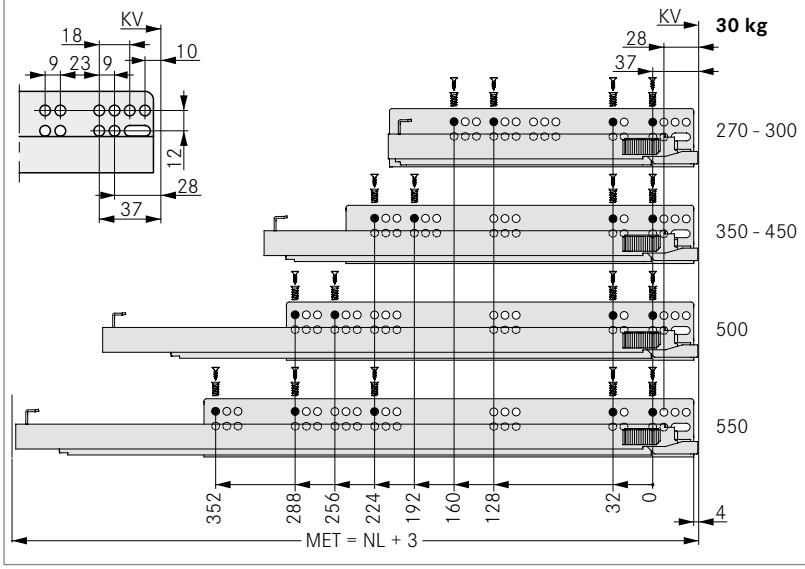
Locking device fixing position



Back panel hole



Fixing positions for full extension drawer





Euro screw Ø 6.3 x 14 mm

Chipboard screw Ø 4 x 16 mm

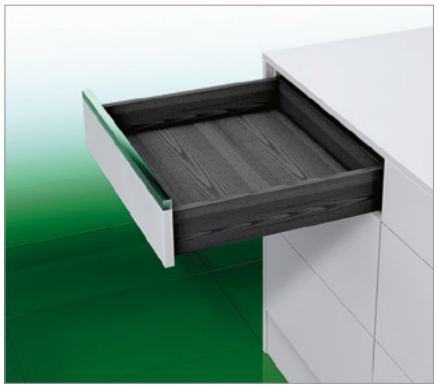
Screw head Ø 7 mm

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

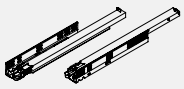


- Tipmatic full extension slide for handle-free fronts
- Tipmatic ejector unit integrated into the slide
- Excellent running characteristics
- Fully synchronised slide technology
- Integrated height adjustment, tool-free +3.5 mm
- Integrated front gap adjustment +1.5 mm
- The Tipmatic unit will not suffer 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

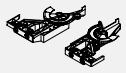
ORDER INFORMATION

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

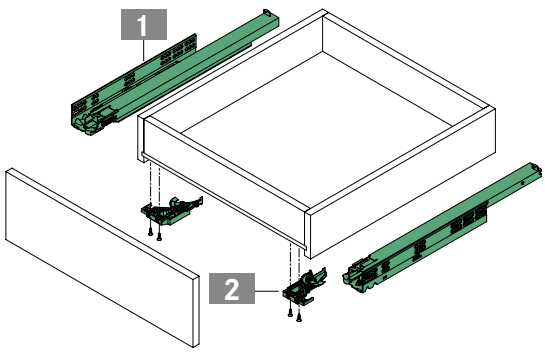


NL	30 kg					
	Art.-no.	PU				
270	**F130**101**114**	204	211			
300	**F130**101**115**	204	211			
350	**F130**101**117**	204	211			
400	**F130**101**119**	204	211			
450	**F130**101**121**	204	210			
500	**F130**101**123**	204	210			
550	**F130**101**125**	204	210			

2 Front locking device (1D)
Set: One left, one right



	Art.-no.	PU				
	F134101**220**	517	233			



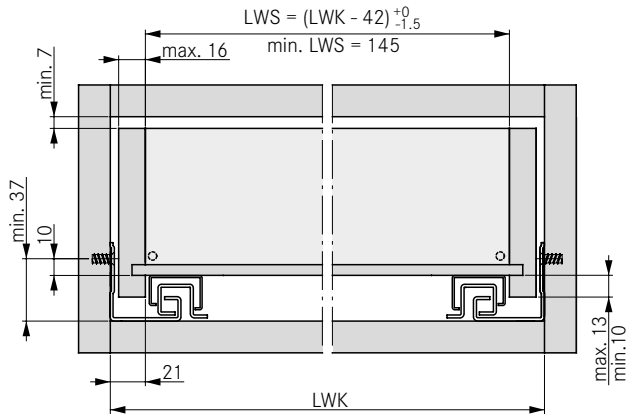
PAGE REFERENCES

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

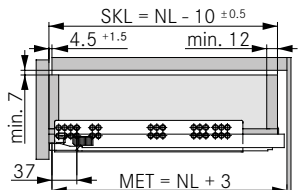
PLANNING DIMENSIONS

All dimensions in millimetres

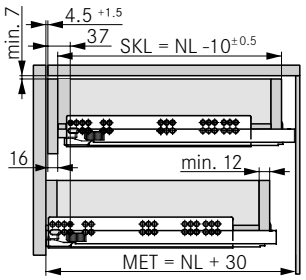
Installation dimensions



Drawer

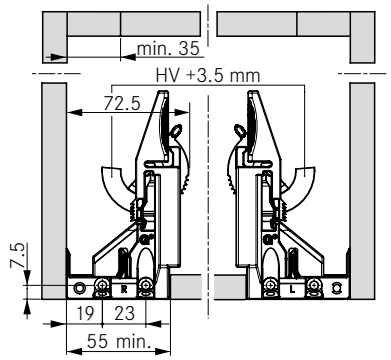


Inset drawer

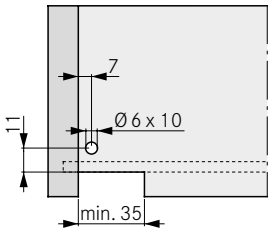


NL	SKL	MET
270	260	273
300	290	303
350	340	353
400	390	403
450	440	453
500	490	503
550	540	553

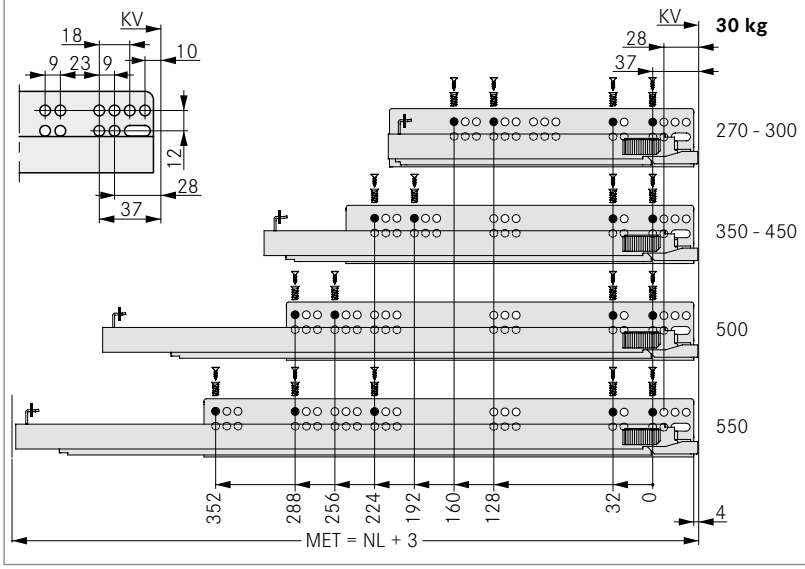
Locking device fixing position



Back panel hole



Fixing positions for full extension drawer





Euro screw Ø 6.3 x 14 mm

Chipboard screw Ø 4 x 16 mm

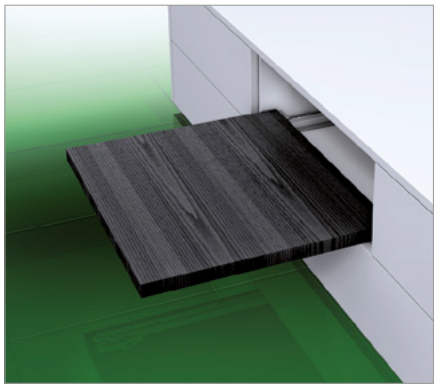
Screw head Ø 7 mm

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

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)

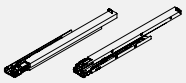
Shelf holder set for shelves:

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

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

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	**F130**107**917**	211
450	**F130**107**920**	210
500	**F130**107**923**	210
550	**F130**107**929**	210

* upon request

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



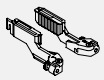
	Art.-no.	PU
	F134107**411**	517

Individual components

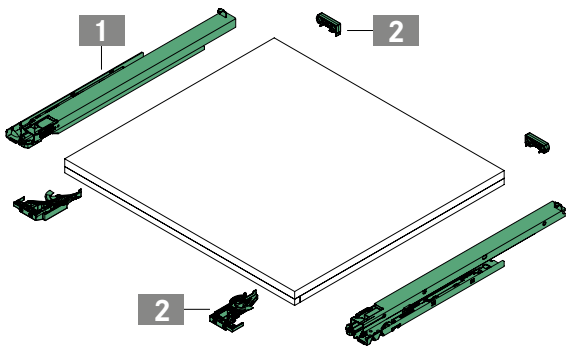


Description	Art.-no.	PU	
Front locking device (1D) Set: One left, one right	**F134**101**220**	517	233
Shelf holder Set: One left, one right	**F134**101**305**	533	

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



	Art.-no.	PU
	F134101**313**	533



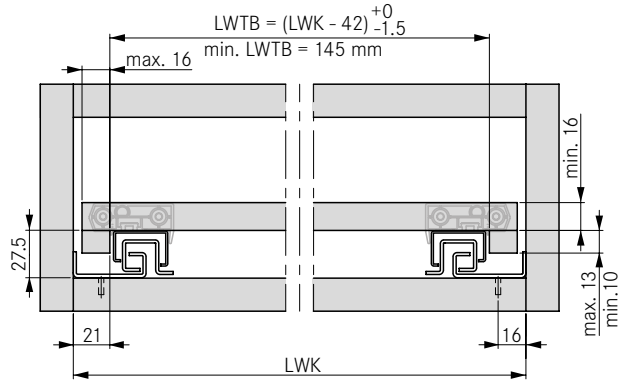
PAGE REFERENCES

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

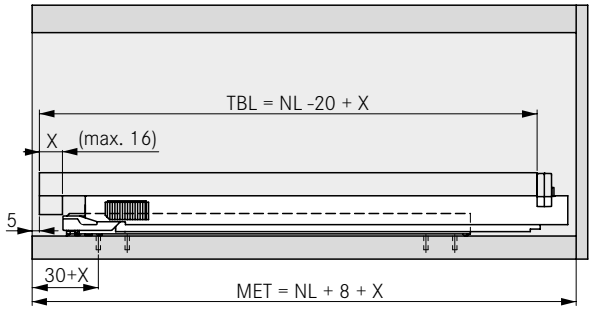
INSTALLATION INFORMATION

All dimensions in millimetres

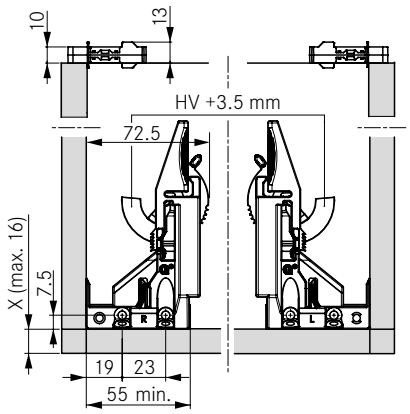
Installation dimensions



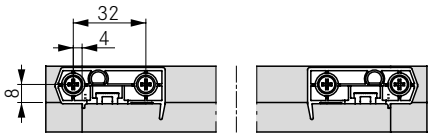
Pull-out shelf



Locking device fixing position

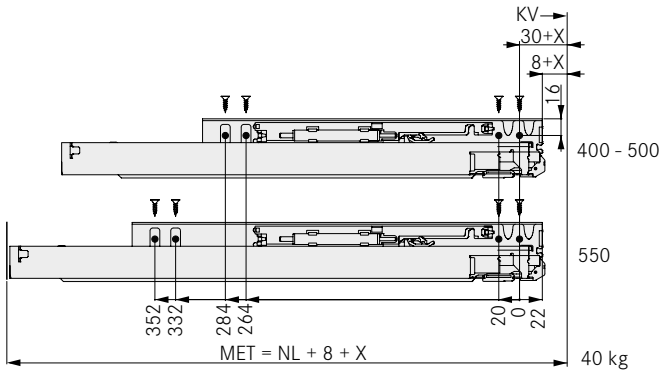


Installation dimensions, back of shelf



Fixing positions on base panel

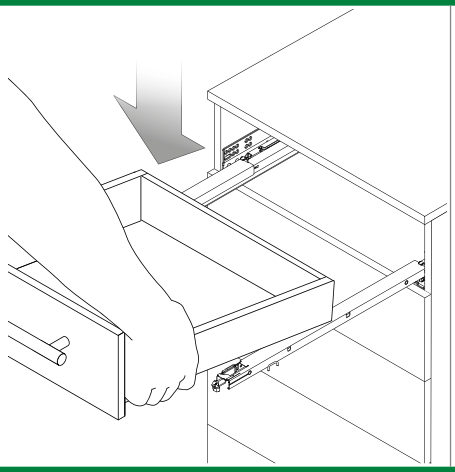
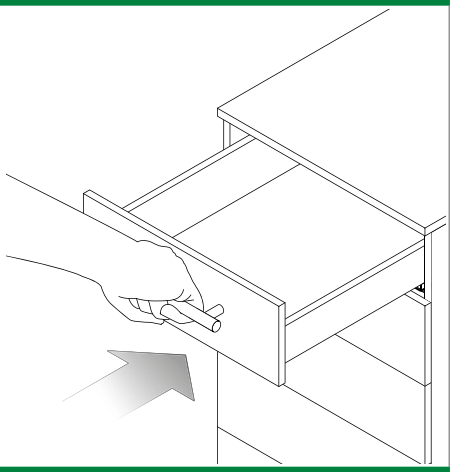
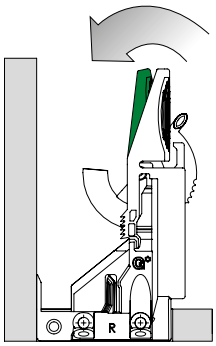
Chipboard screw Ø 4 x 16 mm
Screw head Ø 7 mm



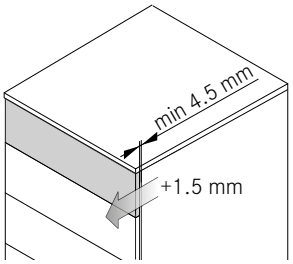
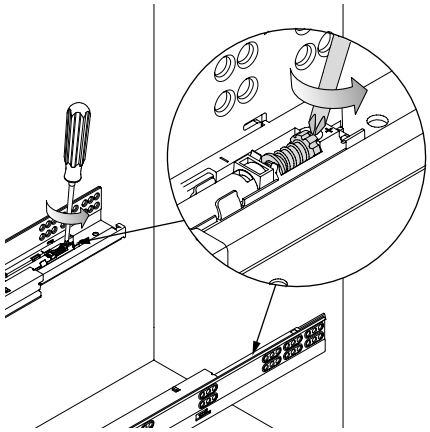
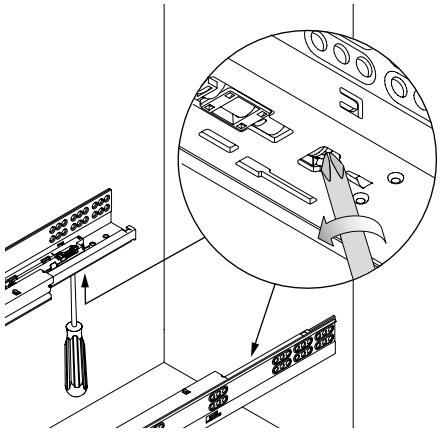
LEGEND

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		
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)	Front gap adjustment from above	Front gap adjustment from below
Reliable opening and closing of the drawer depends on thefront 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. 		

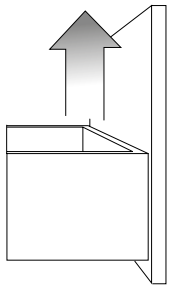
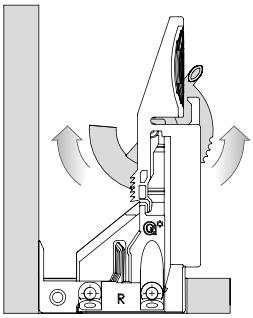
NOTES

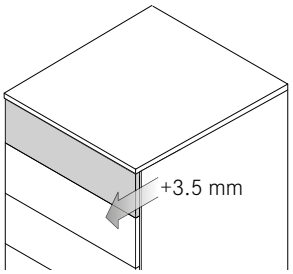
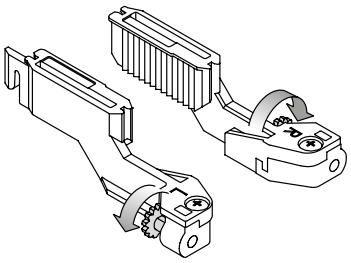
Fixing the cabinet rails:
The screw recommendations are guide values only.
Assemblers must ensure that the substrate material is thick enough.

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

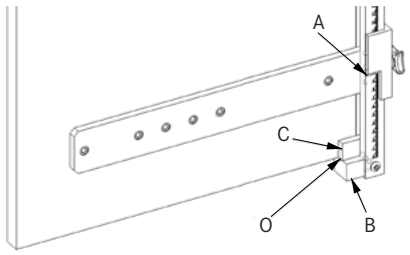


DRILLING JIG FOR CABINET MEMBER

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



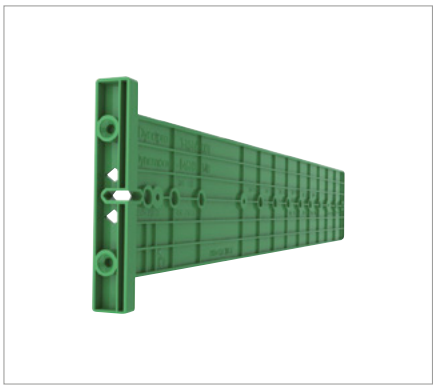
	Art.-no.	PU
	F146094**730**	501



INDIVIDUAL MARKING ELEMENT

For extending the drilling jig
for cabinet member F146094730

	Art.-no.	PU
	F146094**721**	299



DRILLING JIG FOR CABINET MEMBER

For use with pilot drill bit F146035692

	Art.-no.	PU
	F146101**348**	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
	F146109**874**	299

PAGE REFERENCES

Dynamoov Soft-close	50	Dynamoov Tipmatic	54	Technical information	58
Dynamoov Self-close	52	Pull-out shelf	56	Packaging code	75



EURO SCREW

	Art.-no.	PU
Ø 6.3 x 14 mm Screw head Ø 7 mm	**F148**115**049**	147



SCREWDRIVER

GRASS cross head screwdriver
(Pozidriv No. 2)

	Art.-no.	PU
	F147010**256**	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	**F146**035**692**	299

LEGEND



ROLLER SLIDES

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

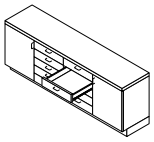
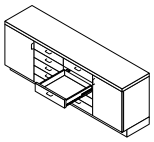
Standard roller slides for a number of furniture applications.

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** • With plastic rollers • Installation width 12.5 mm • Bottom mounting		64
	**Full extension drawer slide 50 kg** • 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	**F080**115**434**	511		**F080**073**981**	511		**F080**073**983**	213		
300	**F080**115**435**	511	223	**F080**073**984**	511	223	**F080**073**986**	213		
350	**F080**115**436**	511		**F080**073**987**	511		**F080**073**990**	213		
400	**F080**115**437**	511	223	**F080**073**991**	511	223	**F080**073**993**	213		
450	**F080**115**438**	511		**F080**073**994**	511		**F080**073**996**	213		
500	**F080**115**439**	511	223	**F080**073**997**	511	223	**F080**073**999**	213		
550	**F080**115**440**	511	223	**F080**074**000**	511		**F080**074**002**	213		
600	**F080**115**432**	511	213	**F080**074**276**	511	223	–			
650	**F080**074**280**	511	223	**F080**074**279**	511		–			
700	**F080**074**282**	511	223	**F080**074**281**	511	223	–			
750	**F080**074**285**	511		**F080**074**284**	511		–			
800	**F080**074**287**	511		**F080**074**286**	511		–			

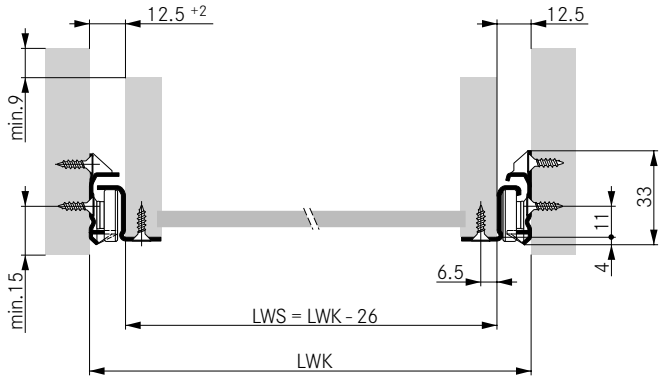
PAGE REFERENCES

Accessories	68	Assembly aids	72		
Technical information	70	Packaging code	75		

INSTALLATION INFORMATION

All dimensions in millimetres

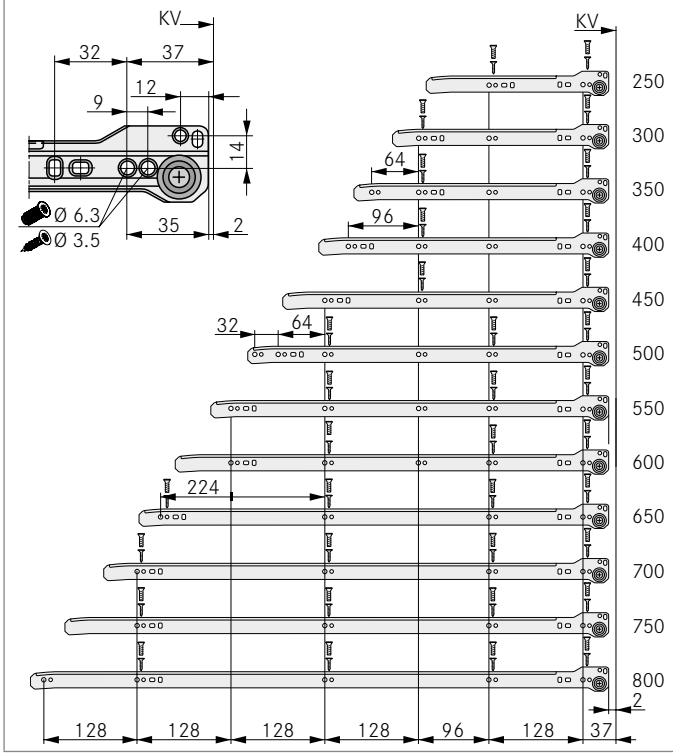
Installation dimensions



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.

Fixing positions for single extension drawer





Euro screw Ø 6.3 x 14 mm

Chipboard screw Ø 3.5 x 15 mm

Screw head Ø 7 mm

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

1 **Full extension drawer slide 50 kg**
Set: One left, one right



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										

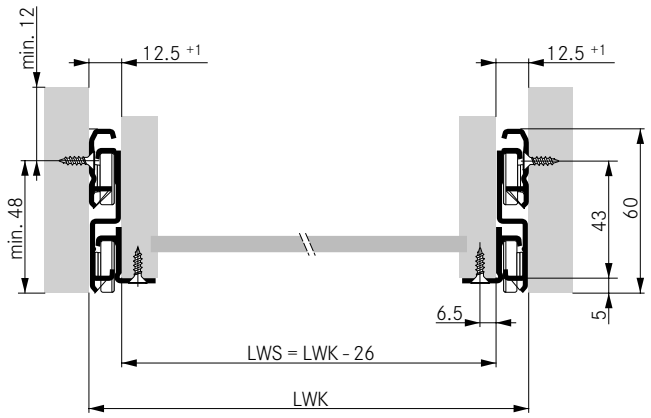
PAGE REFERENCES

Accessories	68	Assembly aids	72		
Technical information	70	Packaging code	75		

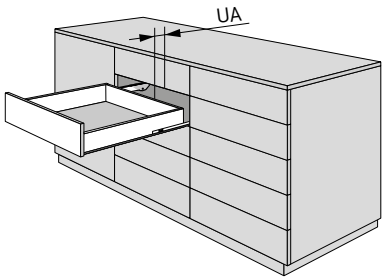
INSTALLATION INFORMATION

All dimensions in millimetres

Installation dimensions



Over-extension

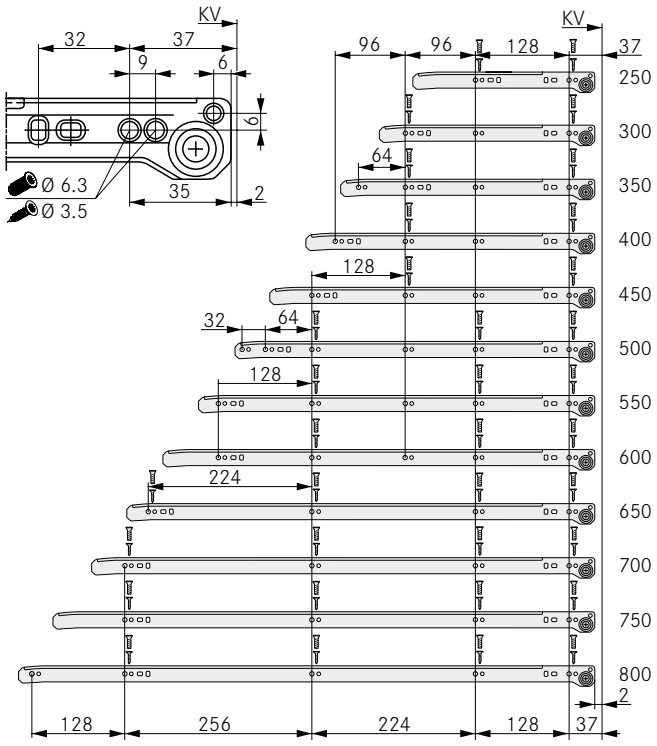


The critical advantage: better access
When the drawer is assembled it can be set to 30 mm over-extension.

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

NL	UA	
250	10	
300 – 350	15	
400 – 800	30	

Fixing positions for full extension drawer



Euro screw Ø 6.3 x 14 mm

Chipboard screw Ø 3.5 x 15 mm

Screw head Ø 7 mm

LEGEND

KV	Front edge of cabinet
LWK	Inside cabinet width
LWS	Internal drawer width
NL	Nominal length
UA	Over-extension

ROLLER SLIDES
Accessories

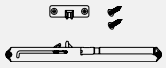


- Can be retrofitted, easy to install
- Up to a drawer weight of 25 kg on one side and up to an external cabinet width of 600
- On both sides up to a drawer weight of 50 kg
- Tested with 100,000 opening and closing operations
- Suitable for roller slides

Packaging unit (PU):
238 = 300 units in a cardboard box
538 = 300 units in PE in a cardboard box

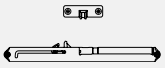
SOFT-CLOSE FOR ROLLER SYSTEMS

Soft-close for roller systems
Set: Damping unit and activator
Can be used on left/right



Description	Art.-no.	PU
Damping set for wooden drawers	**F084**101**803**	538

Individual components



Description	Art.-no.	PU
Damping unit Single item: Can be used on left/right	**F084**101**800**	238
Activator for wooden drawers Single item: Can be used on left/right	**F080**101**802**	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

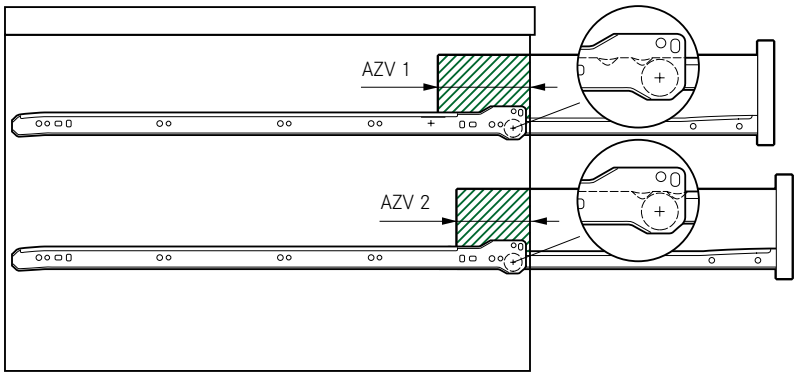
DRAWER SPACE LOSS

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.

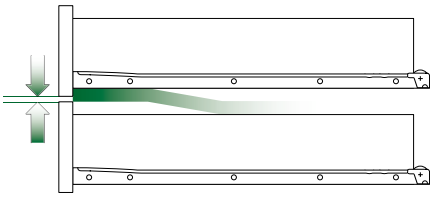
AZV 2:
The amount of space lost in the locked position.



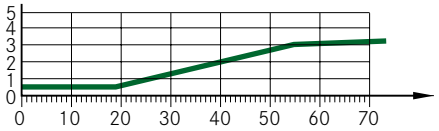
MINIMUM REVEAL

Small minimum reveal

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



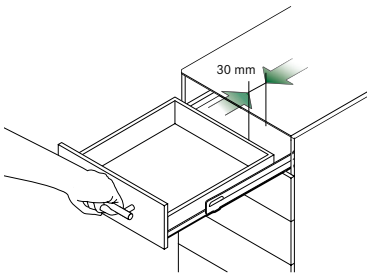
Minimum reveal with 19 mm front panel = 0.5 mm



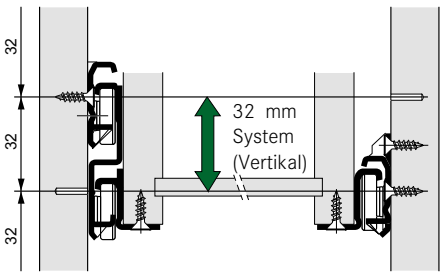
FULL EXTENSION DRAWER SLIDES

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

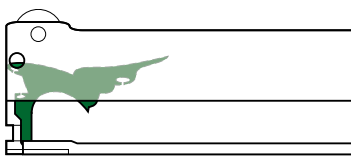


TWIST-LOCK

Installation advice

- For reliable self-retraction
- For safe carrying capacity of 50 kg
- For convenient drawer insertion and removal

Check mounting positions
Correct position for inserting drawer



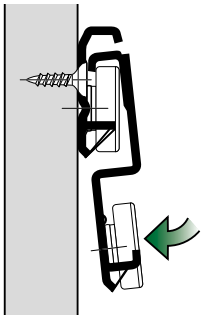
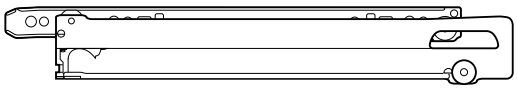
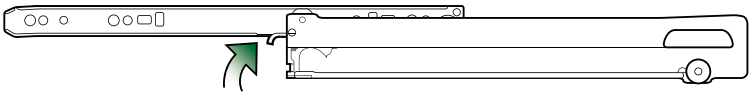
Wrong position
Insertion of centre rail is not possible.



PAGE REFERENCES

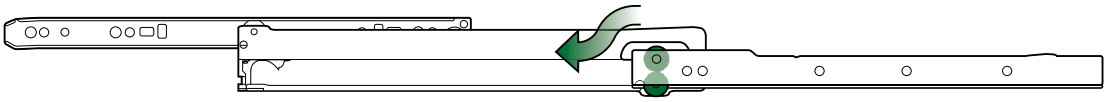
Single extension slide	64	Accessories	68	Packaging code	75
Full extension slide	66	Assembly aids	72		

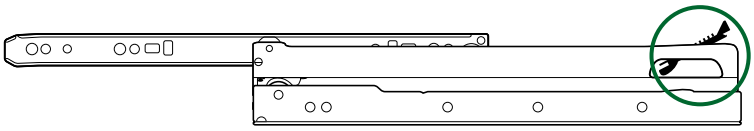
ADJUSTMENTS

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

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.

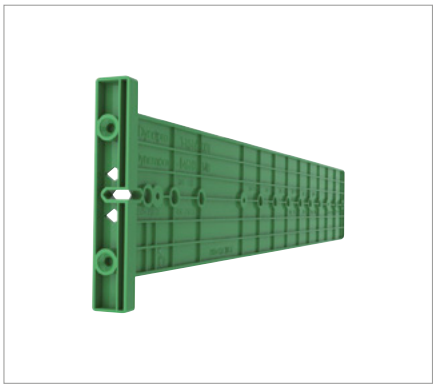
Malfunction of twist-lock
Any malfunction of the centre rail is automatically corrected by fully extending the drawer.

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.

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.

Safety lock
The safety lock prevents accidental removal of the drawer and is a key safety feature.

LEGEND



DRILLING JIG FOR CABINET MEMBER

For use with pilot drill bit F146035692

	Art.-no.	PU
	F146101**347**	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	**F146**035**692**	299



SCREWDRIVER

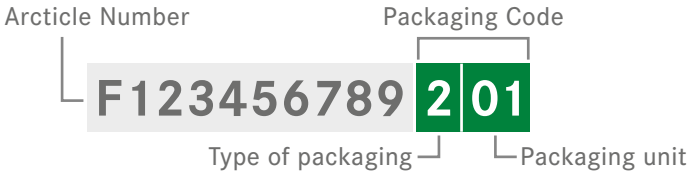
GRASS cross head screwdriver (Pozidriv No. 2)

	Art.-no.	PU
	F147010**256**	001

PAGE REFERENCES

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

PACKAGING CODE
Explanation



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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www.grass.eu

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