

HÄFELE



www.hafele.com

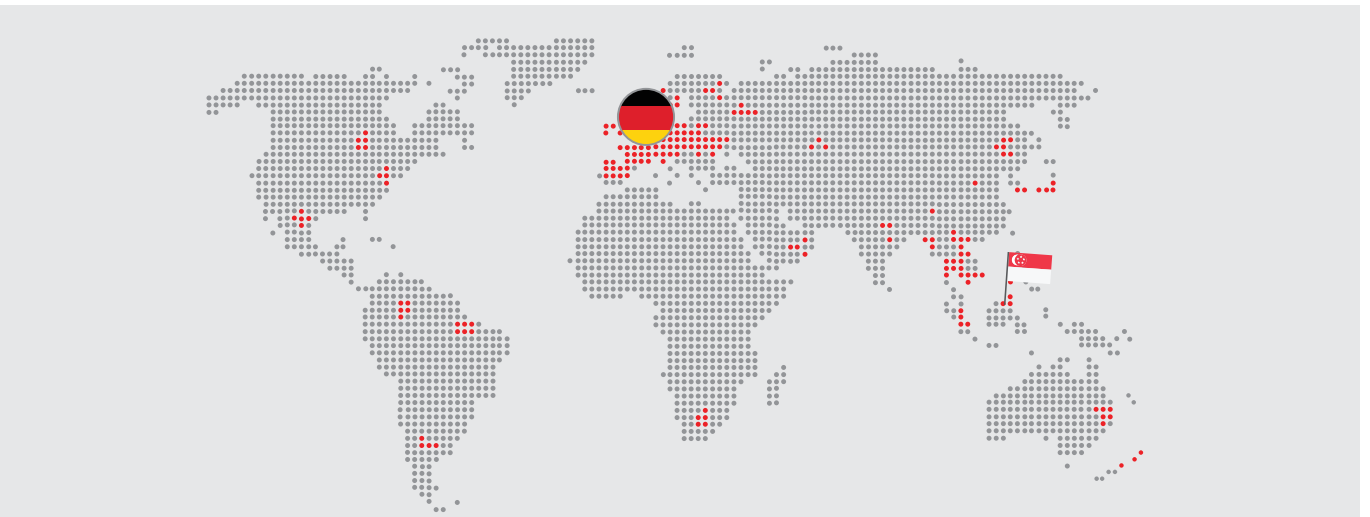
THE INDUSTRY RANGE

# HÄFELE - WHERE TRUST WAS BUILT FROM COMPETENCE.



Since the establishment in Singapore in 1988, Häfele has been continuously improving and expanding its products and services, making the key components of Singaporean homes - door security as well as kitchen, wardrobe and the home appliances to a much more efficient spaces.

With innovative solutions, adherence to high standards and a dedicated team, Häfele Singapore looks to create more modern and optimal living spaces for Singaporeans in the future.





## HÄFELE PRODUCTION AND DISTRIBUTION WORLDWIDE



**Häfele Headquarters**  
Nagold, Germany



**Häfele Distribution Centre**  
Nagold, Germany



**Häfele Production Plant**  
Budapest, Hungary



**Häfele Production Plant**  
Jettingen, Germany



**Häfele Production Plant**  
Kenzingen, Germany



**Häfele Production Plant**  
Berlin, Germany

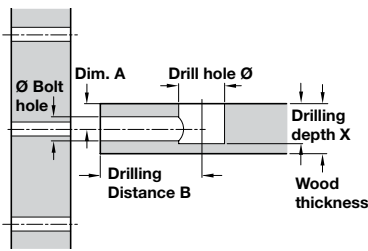


# CONNECTORS





# IXCONNECT MINIFIX 12 METAL HOUSINGS



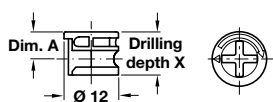
- > Drill hole Ø = Ø12 mm for housings
- > Drilling depth X = depends on type of housing and wood thickness
- > Drilling distance B = choice of B 24 (24 mm) or B 34 (34 mm) drilling distance from drill-hole centre to panel front edge
- > Bolt drill hole Ø = Ø 7 or Ø 8 mm in panel front edge according to choice of connecting bolt



## Minifix 12 housing, without rim



- > For wood thickness from 12 mm
- > Drive: PZ2 cross slot or flat blade
- > Zinc alloy

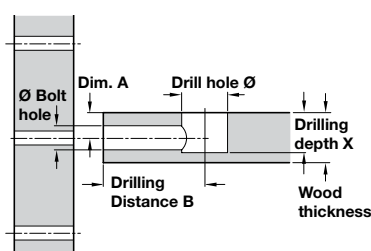


For wood thickness from	Dim. A	Drilling depth X	Bright	Nickel-plated
12 mm	6.0 mm	9.5 <sup>+0.2</sup> mm	262.17.020	262.17.620



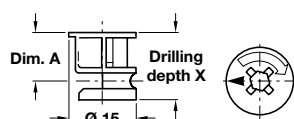


# IXCONNECT MINIFIX 15 METAL HOUSINGS



- > Drill hole Ø = Ø15 mm for housings
- > Drilling depth X = depends on type of housing and wood thickness
- > Drilling distance B = choice of B 24 (24 mm) or B 34 (34 mm) drilling distance from drill-hole centre to panel front edge
- > Bolt drill hole Ø = Ø7 or Ø8 mm in panel front edge according to choice of connecting bolt

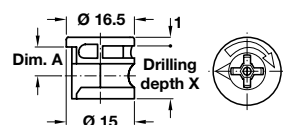
## Minifix 15 housing, without rim



- > For wood thicknesses from 15, 16, 18 mm
- > Drive: PZ2 cross slot, flat blade or SW4 hexagon socket
- > Zinc alloy

For wood thickness from	Dim. A	Drilling depth X	Bright	Nickel-plated
15 mm	7.5 mm	12.0 <sup>+0.5</sup> mm	262.26.032	262.26.532
16 mm	8.0 mm	12.5 <sup>+0.5</sup> mm	262.26.033	262.26.533
18 mm	9.0 mm	13.5 <sup>+0.5</sup> mm	262.26.034	262.26.534

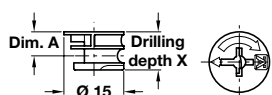
## Minifix 15 housing, without rim



- > For wood thickness from 26 mm
- > Drive: PZ2, PZ3 cross slot, flat blade or SW4 hexagon socket
- > Zinc alloy

For wood thickness from	Dim. A	Drilling depth X	Bright
26 mm	13 mm	18 <sup>+0.5</sup> mm	262.26.037

## Minifix 15 housing, without rim



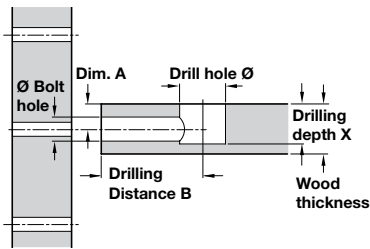
- > For wood thickness from 12 and 26 mm
- > Drive: PZ2 cross slot or flat blade
- > Zinc alloy

For wood thickness from	Dim. A	Drilling depth X	Bright	Nickel-plated
12 mm	6 mm	9.5 <sup>+0.2</sup> mm	262.26.070	262.26.570
26 mm	13 mm	18 <sup>+0.5</sup> mm	262.26.037	262.26.537





# IXCONNECT MINIFIX 16 METAL HOUSINGS

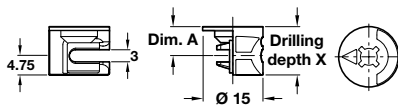


- > Drill hole Ø = Ø15 mm for housings
- > Drilling depth X = depends on type of housing and wood thickness
- > Drilling distance B = choice of B 24 (24 mm) or B 34 (34 mm) drilling distance from drill-hole centre to panel front edge
- > Bolt drill hole Ø = Ø7 or Ø8 mm in panel front edge according to choice of connecting bolt

## Minifix 16 housing, without rim



- > For wood thickness from 15 mm
- > Drive: PZ cross slot, flat blade or SW4 hexagon socket
- > Zinc alloy



For wood thickness from	Dim. A	Drilling depth X	Bright zinc-plated
15 mm	7.5 mm	11.8 <sup>+0.1</sup> mm	262.26.042





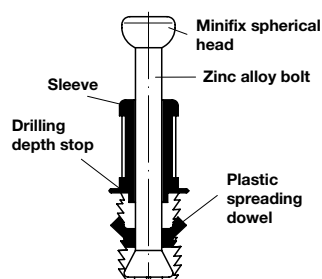
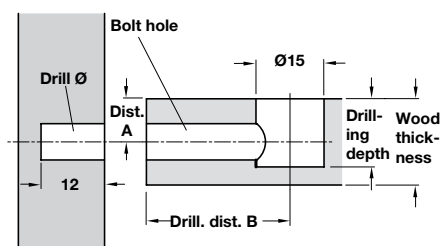
# IXCONNECT MINIFIX C100 SPREADING BOLTS



Plug in



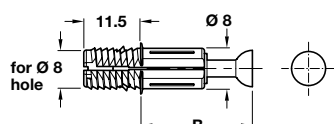
Unscrew



- > For industry, joiners and cabinet makers
- > Connecting bolt for universal use within the Minifix connector system with special benefits:
  - Extremely installation-friendly, no tools are required
  - Drilling depth stop ensures ideal bolt position
  - No surface damage caused by insertion and removal of spreading bolt

- > Bolt hole = Ø8 mm
- > Drilling depth = depending on housing type and wood thickness (see table)
- > Drill Ø = Ø5 mm, Ø8 mm or Ø10 mm depending on type of bolt
- > Distance A = 1/2 wood thickness (see Minifix pages 12/15 housings)
- > Drilling distance B = optional between B 24 (24 mm) or B 34 (34 mm), drilling distance from housing centre to front edge

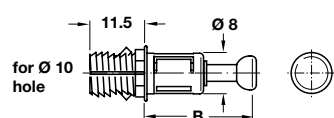
## Minifix C100 Ø8 mm spreading bolt



- > For press-fit installation in Ø 8 mm pre-drilled holes
- > For wood thickness from 15 mm
- > Zinc alloy bolt with black plastic spreading dowel with harpoon thread

Drilling distance B	24 mm	34 mm
Art.No.	262.09.202	262.09.302

## Minifix C100 Ø10 mm spreading bolt



- > For press-fit installation in Ø 10 mm pre-drilled holes
- > In two parts
- > Zinc alloy bolt with black plastic spreading dowel with harpoon thread

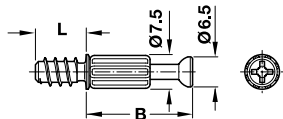
Drilling distance B	24 mm	34 mm
Art.No.	262.09.211	262.09.311

## MINIFIX STANDARD S200 CONNECTING BOLTS

For drilled hole Ø5 mm and bolt head Ø6.5 mm

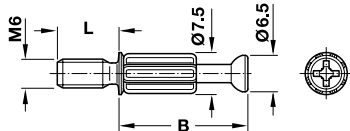


- > Material: Steel, plastic sleeve
- > Thread: Special thread
- > Drive: PZ2 cross slot



Thread length L	Drilling distance B	Galvanized
8.5 mm	24 mm	262.27.689
	34 mm	262.28.689
11 mm	24 mm	262.27.679
	34 mm	262.28.679

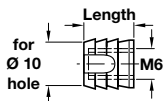
With M6 thread and bolt head Ø6.5 mm



- > Material: Steel, plastic sleeve
- > Thread: M6
- > Drive: PZ2 cross slot

Thread length L	Drilling distance B	Galvanized
7.5 mm	34 mm	262.28.699

Glue-in sleeve, M6 internal thread

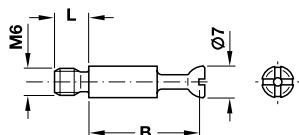


- > For Ø 10 mm hole
- > With grooves for glue
- > Plastic

Length	Outer Ø	Art.No.
9 mm	10 mm	039.33.364
11 mm		039.33.266
13 mm		039.33.060

## MINIFIX STANDARD S100 CONNECTING BOLTS

With M6 thread and bold head Ø7 mm

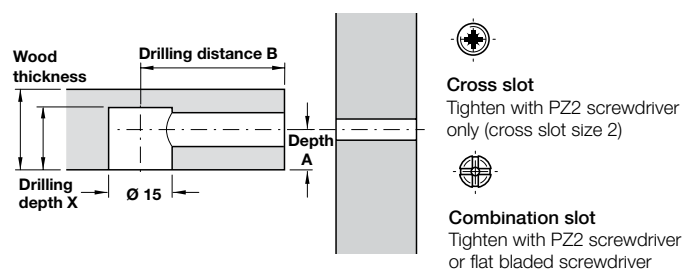


- > Material: Steel
- > Thread: M6
- > Drive: PZ2 cross slot or flat blade

Thread length L	Drilling distance B	Bright zinc-plated
7.5 mm	24 mm	262.27.592
	34 mm	262.28.599

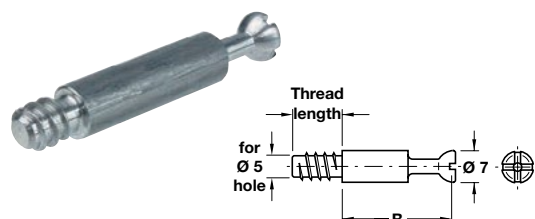


# IXCONNECT MINIFIX S100 STANDARD BOLTS



- > Minifix connecting bolts **A** with special thread can be screwed directly into a Ø 3 mm pre-drilled hole or can be used in conjunction with a dowel which is pressed into a Ø 5 mm pre-drilled hole
- > Minifix connecting bolts **B** with special threads can be screwed directly into a Ø 5 mm pre-drilled hole
- > For single or double-sided constructions

## Minifix S100 connecting bolt



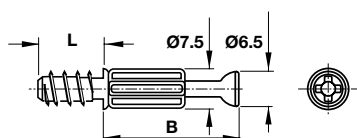
- > For direct, screw-in installation in Ø 5 mm holes
- > With special thread
- > Steel

Drilling distance B	24 mm	34 mm
Galvanized	262.27.921	262.28.928

## Connecting bolt for Ø8 mm drill hole



- > Material: Steel
- > Finish/colour: Bright
- > Drive: PZ cross slot



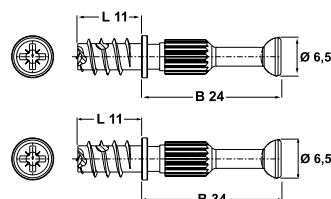
Thread length L	Drilling distance B	Art.No.
11mm	24mm	262.27.666

# IXCONNECT MINIFIX M300 STANDARD BOLTS

## Bolt Minifix M300 for drill hole Ø5 mm, with bolt head Ø6,5 mm



- > For direct, screw-in installation in Ø 5 mm holes
- > With special thread
- > Steel

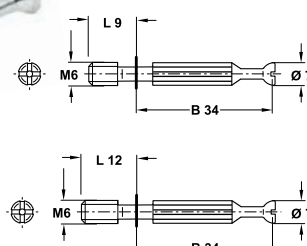


Drilling distance B	24 mm	34 mm
Galvanized	262.27.343	262.28.343

## Bolt Minifix M300



- > For direct, screw-in installation in Ø 5 mm holes
- > With special thread
- > Steel

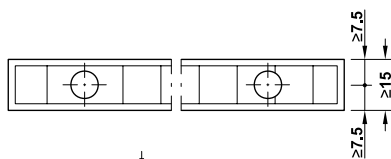


Thread length L	Drilling distance B	Galvanized
9 mm	34 mm	262.28.319
12 mm	34 mm	262.28.329

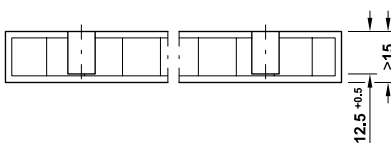
# IXCONNECT SC 8/25 SPREADING CONNECTOR

One-piece connector. For quick and easy tool-free installation.

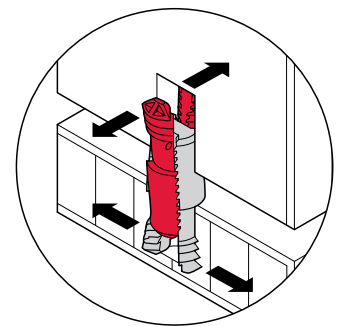
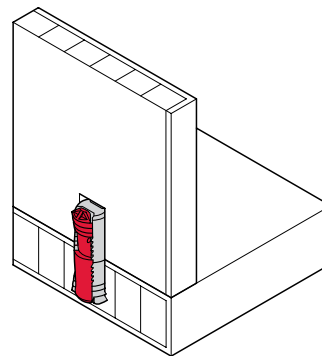
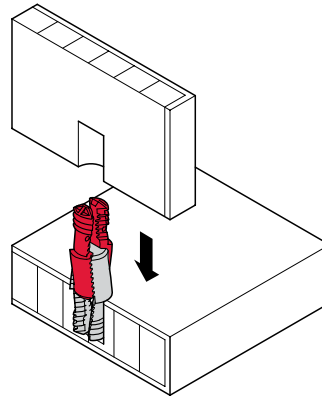
- > One-piece connector
- > For permanent furniture connection, ideal for small furniture items
- > Quick and easy, tool-free installation - simply plug in and push panels together
- > Insert in Ø 8 mm standard drill hole
- > For panel thickness min. 15 mm
- > Concealed installation



**Drilling pattern**  
Drill hole in front edge



**Drilling pattern**  
Drill hole in surface

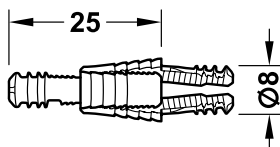


## Installation:

1. Plug the connector into the hole
2. Both ends of the one-piece connector spread synchronously when the furniture parts are joined together
3. Completely concealed, non-removable connection



## Spreading connector SC 8/25



- > Application: For concealed, non-removable cabinet connections in small furniture and drawers, for use in MDF and chipboard, can also be used in combination with wooden dowels

- > For wood thickness: from 15 mm

- > For drill hole: Ø 8 mm

- > Installation: For tool-free insertion in Ø 8 mm drill hole, can also be glued in

- > Function: By pressing the two furniture components together both ends of the connector spread into the hole, then by lightly hitting the furniture panels the two parts of the connector are pushed over each other and spread out

**PATENT**



Recommended for use in combination with wooden dowel Ø6 x 30 mm

Colour

Red/grey

Art.No.

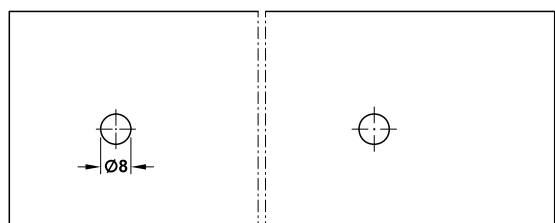
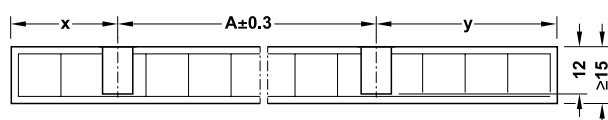
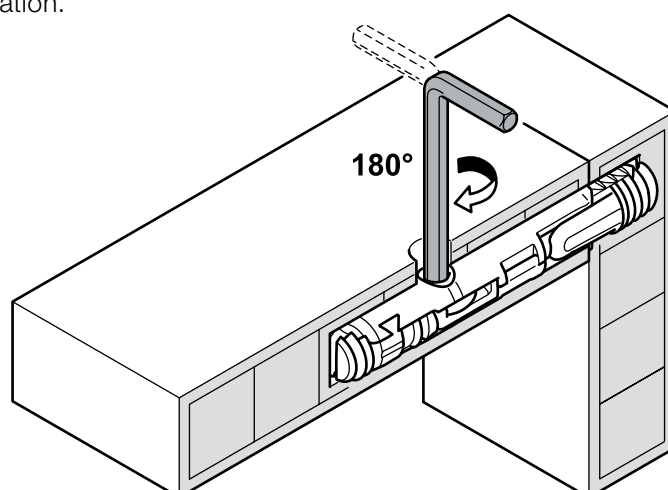
262.11.111



# IXCONNECT SC 8/60 SPREADING CONNECTOR

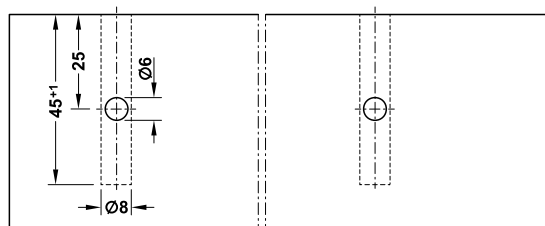
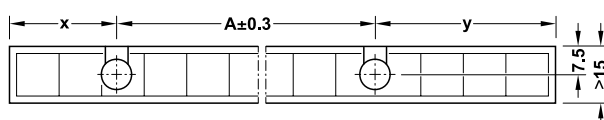
One-piece connector. For quick and easy tool-free installation.

- > One-piece connector
- > Can also be used as cabinet connector for large furniture items
- > Quick and easy installation
- > For concealed applications, only a Ø 6 mm drill hole for securing connector is visible after installation
- > Separable connection
- > Insert in Ø 8 mm standard drill hole
- > For panel thickness min. 15 mm



## Drilling pattern

Side panel preparation details



## Drilling pattern

Shelf preparation details:

Drill 8 mm hole

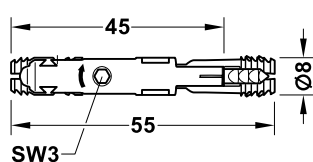
The 6 mm drill hole can be drilled from above or underneath

## Installation:

1. Join components using connector
2. Turn by 180°: The connector expands and the components are pulled together



## Spreading connector SC 8/60



- > Application: For concealed installation of cabinet connections in chipboard
- > For wood thickness: from 15 mm
- > For drill hole: Ø 8 mm
- > Installation: Plug fitting into drill hole Ø 8 mm without tools, the connector expands with a 180° turn of the tightening screw with SW3 hexagon socket
- > Plastic and zinc alloy

PATENT

Colour

Red/grey

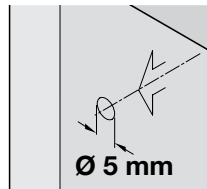
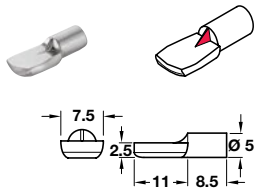
Art.No.

262.11.117

# PLUG-IN SHELF SUPPORTS FOR WOODEN SHELVES

Plug in adjustable shelf supports are used extensively in kitchen cabinetry and wardrobe units. They are easily adjusted and offer a discreet shelving solution with easy height adjustment.

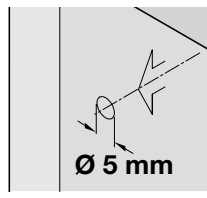
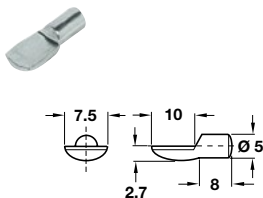
## Shelf support, plug in, for Ø5 mm holes



- > With anti-slide feature - fin on shelf support cuts into the shelf and reduces the possibility of movement
- > For Ø 5 mm hole
- > Load carrying capacity 80 kg\*
- > Steel

Finish	Art.No.
Nickel-plated	282.04.712

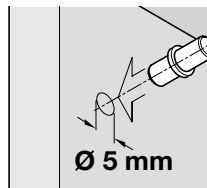
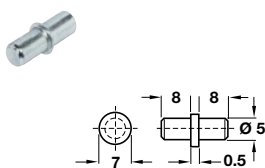
## Shelf support, plug in, for Ø5 mm holes



- > Spoon shaped
- > For Ø 5 mm hole
- > Load carrying capacity 80 kg\*
- > Steel

Finish	Art.No.
Nickel-plated	282.04.711

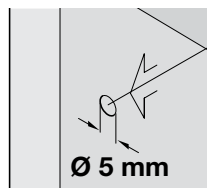
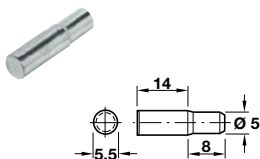
## Shelf support, plug in, for Ø5 mm holes



- > With collar
- > For Ø 5 mm hole
- > Load carrying capacity 80 kg\*
- > Steel

Finish	Art.No.
Bright galvanized	282.43.905

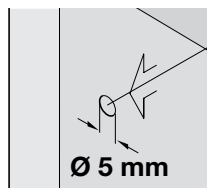
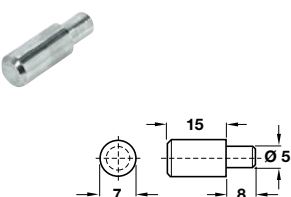
## Shelf support, plug in, for Ø5 mm holes



- > With stop
- > For Ø 5 mm hole
- > Load carrying capacity 80 kg\*
- > Steel

Finish	Art.No.
Nickel-plated	282.42.702

## Shelf support, plug in, for Ø5 mm holes



- > With stop
- > For Ø 5 mm hole
- > Load carrying capacity 80 kg\*
- > Steel

Finish	Art.No.
Nickel-plated	282.38.708

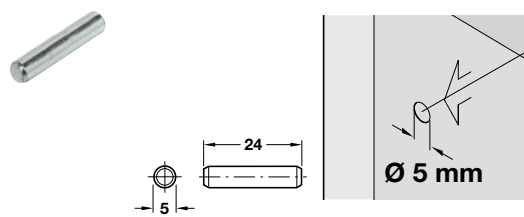


\*Load carrying capacity applies to 4 shelf supports bearing an evenly distributed load. Testing was carried out according to DIN EN 1727: 1998-06 "Mechanical safety requirements for shelf supports"



# PLUG-IN SHELF SUPPORTS FOR WOODEN SHELVES

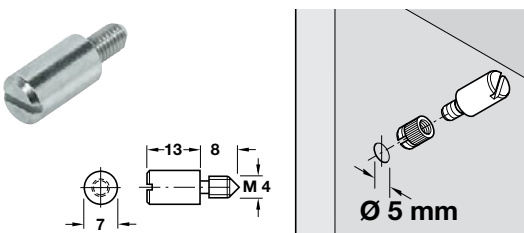
## Shelf support, plug in, for Ø5 mm holes



- > For side panel installation
- > For Ø 5 mm hole
- > Load carrying capacity 80 kg\*
- > Steel


Finish	Art.No.
Nickel-plated	282.40.708

## Shelf support, plug in, for use with M4 sleeve



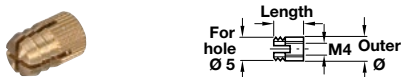
- > With M4 thread for installation in spreading dowel (not included; order separately)
- > Load carrying capacity 80 kg\*
- > Steel

Finish	Art.No.
Nickel-plated	282.39.705



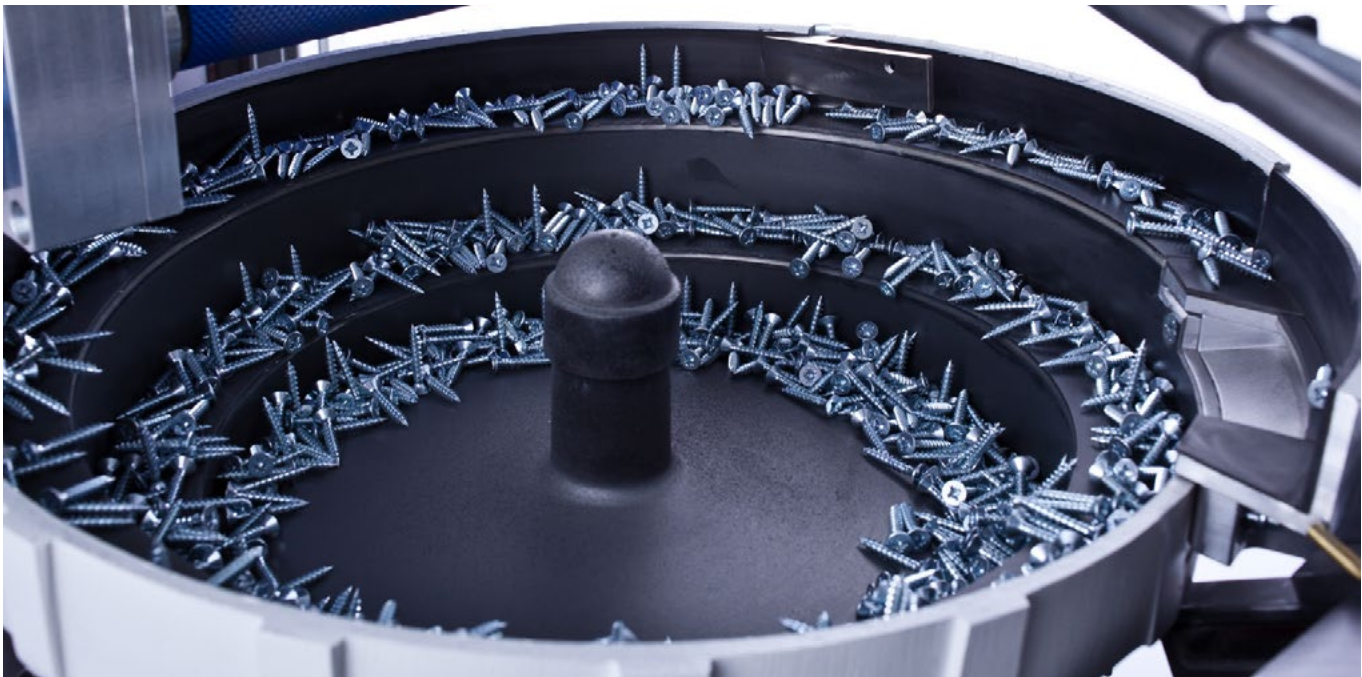
For installation in spreading dowel, order separately 051.45.004

## Sleeve, M4 internal thread, for Ø5 mm holes



- > For use with shelf support Cat. No. 282.39.705
- > For Ø 5 mm hole
- > Bright brass

Length	Art.No.
8 mm	051.45.004





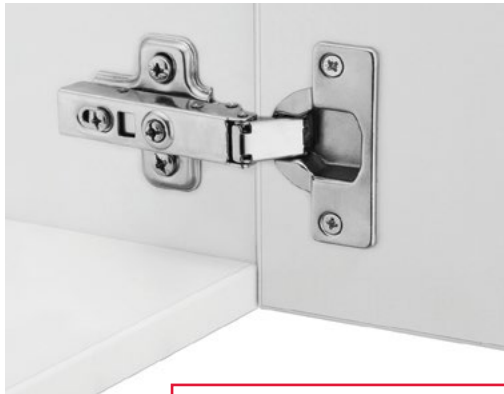


# HINGES



# HÄFELE METALLA 100 SM COMBI 95° - CLIP ON

For standard applications



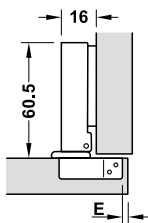
- > Material: Steel cup and hinge arm
- > Finish: Nickel plated
- > Cup fixing: For screw fixing
- > Installation: Door to cabinet with quick fixing system
- > Drilling depth: Hinge cup: 12 mm  
Cup diameter: 35mm
- > Adjustment facility: Side adjustment  $\pm 2.0$  mm,  
height adjustment  $\pm 2.0$  mm (via mounting plate),  
depth adjustment  $-0.5/+4.0$  mm
- > For door thickness: 14-22 mm
- > With automatic closing spring

With or without integrated soft closing mechanism



**Note:**  
The values (distance to cup) in the table apply to centre position of side adjusting screw.

## Full overlay mounting



### Door overlay mm

	9.5	10.5	11.5	12.5	13.5	14.5	15.5	16.5	
					3	4	5	6	0
			3	4	5	6			2
	3	4	5	6					4

Distance to cup E mm

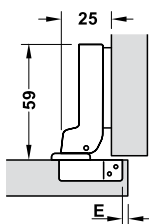
Mounting plate distance mm

### Soft closing mechanism

### Drilling pattern 48/6

With	308.00.000
Without	308.00.015

## Half overlay mounting / twin mounting



### Door overlay mm

	-1	0	1	2	3	4	5	6	
					3	4	5	6	0
			3	4	5	6			2
	3	4	5	6					4

Distance to cup E mm

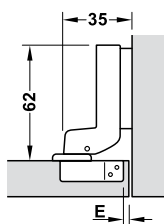
Mounting plate distance mm

### Soft closing mechanism

### Drilling pattern 48/6

With	308.00.001
Without	308.00.016

## Inset mounting



### Door overlay mm

	-8.5	-7.5	-6.5	-5.5	-4.5	-3.5	-2.5	-1.5	
					3	4	5	6	0
			3	4	5	6			2
	3	4	5	6					4

Distance to cup E mm

Mounting plate distance mm

### Soft closing mechanism

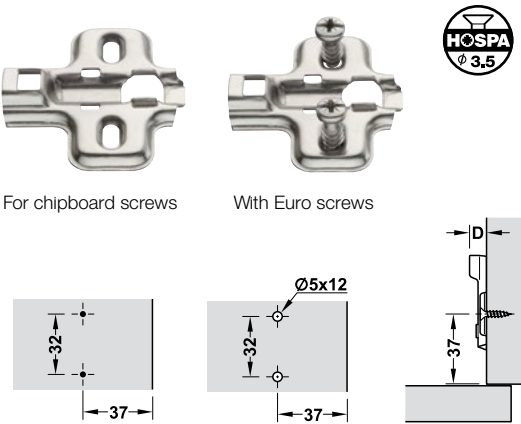
### Drilling pattern 48/6

With	308.00.002
Without	308.00.017



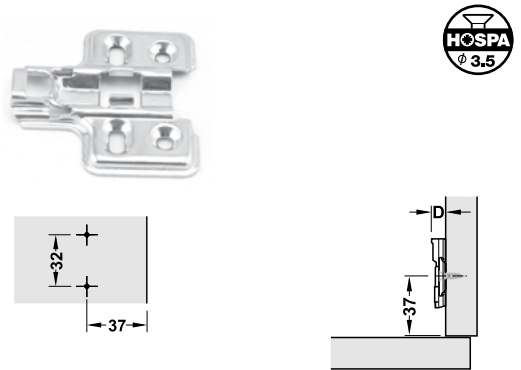
# HÄFELE METALLA 100 SM COMBI CRUCIFORM MOUNTING PLATE

With quick fixing system, height adjustment  $\pm 2$  mm using slot



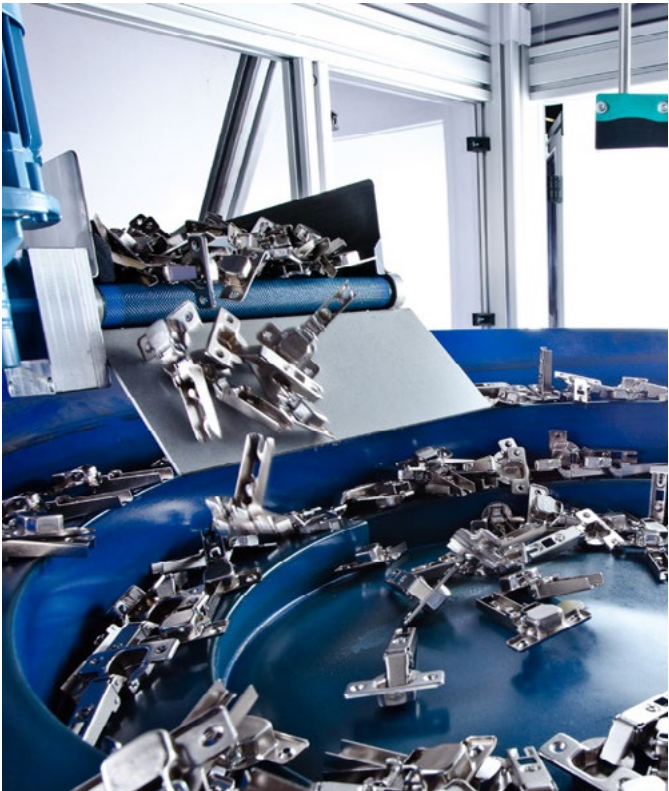
- > Material: Steel
- > Finish: Nickel plated

Distance D mm	Art.No.
For screw fixing with chipboard screws	
0	308.00.018
2	308.00.019
With pre-mounted Euro screws 6.3 x 14 mm	
0	308.00.022
2	308.00.023



- > Material: Steel
- > Finish: Nickel plated

Distance D mm	Art.No.
For screw fixing with chipboard screws	
0	311.00.029
2	311.00.030





# HÄFELE METALLA 100 A 110° - SLIDE ON

For standard applications



Without integrated soft closing mechanism



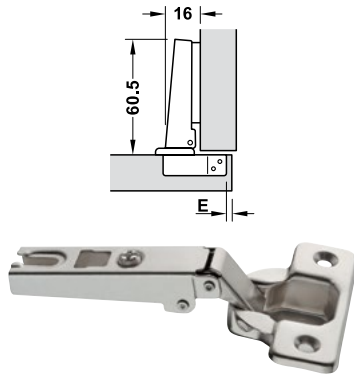
- > Material: Steel cup and hinge arm
- > Finish: Nickel plated
- > Cup fixing: For screw fixing
- > Installation: Door to cabinet with quick fixing system
- > Drilling depth: Hinge cup: 12 mm  
Cup diameter: 35mm
- > Adjustment facility: Side adjustment  $\pm 2.5$  mm,  
height adjustment  $\pm 2.0$  mm (via mounting plate),  
depth adjustment  $-1.5/+4.5$  mm
- > For door thickness: 14-16 mm
- > With automatic closing spring



**Note:**

The values (distance to cup) in the table apply to centre position of side adjusting screw.

## Full overlay mounting



### Door overlay mm

	11	12	13	14	15	16	17	18	
					3	4	5	6	0
			3	4	5	6			2
	3	4	5	6					4

Distance to cup E mm

Mounting plate distance mm

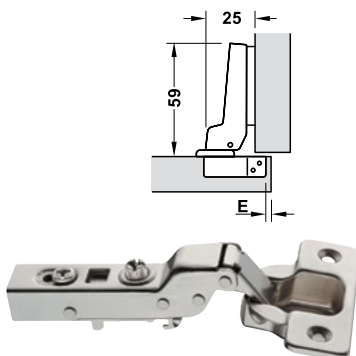
Cup fixing

Drilling pattern 48/6

For screw fixing

311.90.620

## Half overlay mounting / twin mounting



### Door overlay mm

	5	6	7	8	9	10	11	12	
					3	4	5	6	0
			3	4	5	6			2
	3	4	5	6					4

Distance to cup E mm

Mounting plate distance mm

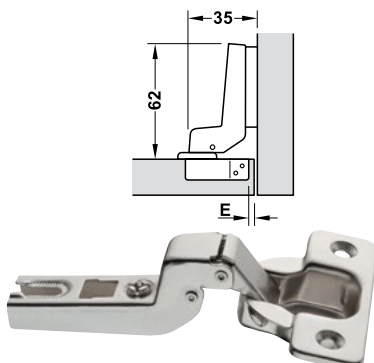
Cup fixing

Drilling pattern 48/6

For screw fixing

311.90.621

## Inset mounting



### Door overlay mm

	-3	-2	-1	0	1	2	3	4	
					3	4	5	6	0
			3	4	5	6			2
	3	4	5	6					4

Distance to cup E mm

Mounting plate distance mm

Cup fixing

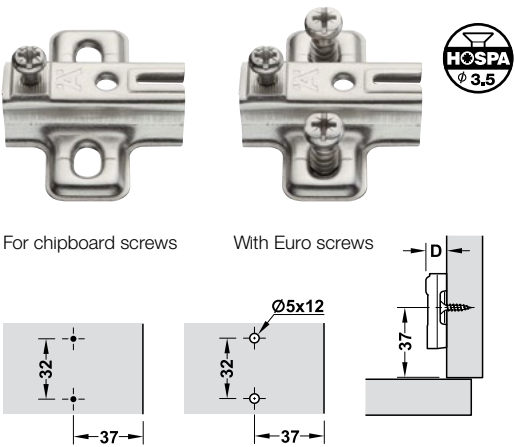
Drilling pattern 48/6

For screw fixing

311.90.622

# HÄFELE METALLA 100 A 110° - CRUCIFORM MOUNTING PLATE

With quick fixing system, height adjustment  $\pm 2$  mm using slot



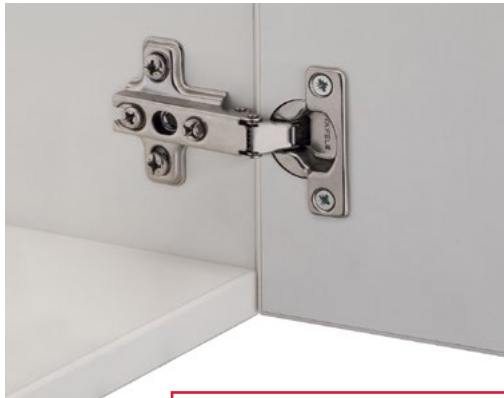
- > Material: Steel
- > Finish: Nickel plated

Distance D mm	Art.No.
For screw fixing with chipboard screws	
0	311.98.680
2	311.98.682
4	311.98.684
With pre-mounted Euro screws 6.3 x 14 mm	
0	311.98.690
2	311.98.692
4	311.98.694



# HÄFELE METALLA 100 MINI A 95° - SLIDE ON

For standard applications



Without integrated soft closing mechanism



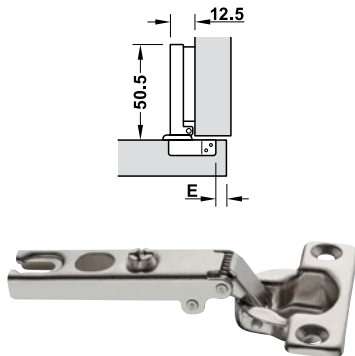
- > Material: Steel cup and hinge arm
- > Finish: Nickel plated
- > Cup fixing: For screw fixing
- > Installation: Door to cabinet with quick fixing system
- > Drilling depth: Hinge cup: 9.5 mm  
Cup diameter: 26 mm
- > Adjustment facility: Side adjustment  $\pm 2.5$  mm,  
height adjustment  $\pm 2.0$  mm (via mounting plate),  
depth adjustment  $\pm 2.5$  mm
- > For door thickness: 12-22 mm
- > With automatic closing spring



**Note:**

The values (distance to cup) in the table apply to centre position of side adjusting screw.

## Full overlay mounting



### Door overlay mm

	8.5	9.5	10.5	11.5	12.5	13.5	14.5	15.5	
					3	4	5	6	0
			3	4	5	6			2
	3	4	5	6					4

Distance to cup E mm

Mounting plate distance mm

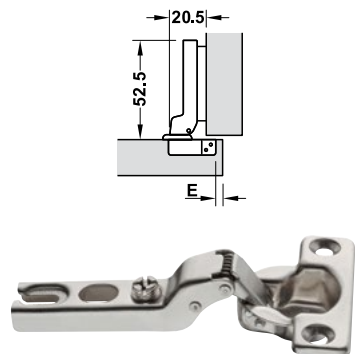
Cup fixing

Drilling pattern 38/7,5

For screw fixing

308.01.000

## Half overlay mounting / twin mounting



### Door overlay mm

	-1.5	0.5	0	1	2	3	4	5	
					3	4	5	6	0
			3	4	5	6			2
	3	4	5	6					4

Distance to cup E mm

Mounting plate distance mm

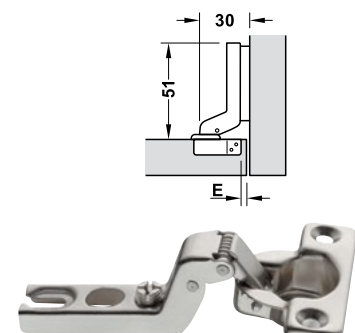
Cup fixing

Drilling pattern 38/7,5

For screw fixing

308.01.001

## Inset mounting



### Door overlay mm

	-5.5	-4.5	-3.5	-2.5	-1.5	-0.5	0.5	1.5	
					3	4	5	6	0
			3	4	5	6			2
	3	4	5	6					4

Distance to cup E mm

Mounting plate distance mm

Cup fixing

Drilling pattern 38/7,5

For screw fixing

308.01.002



# HÄFELE METALLA 100 MINI A 95° - CRUCIFORM MOUNTING PLATE

With quick fixing system, height adjustment  $\pm 2$  mm using slot



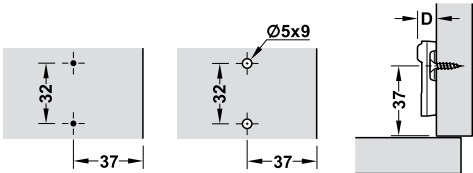
For chipboard screws



With Euro screws



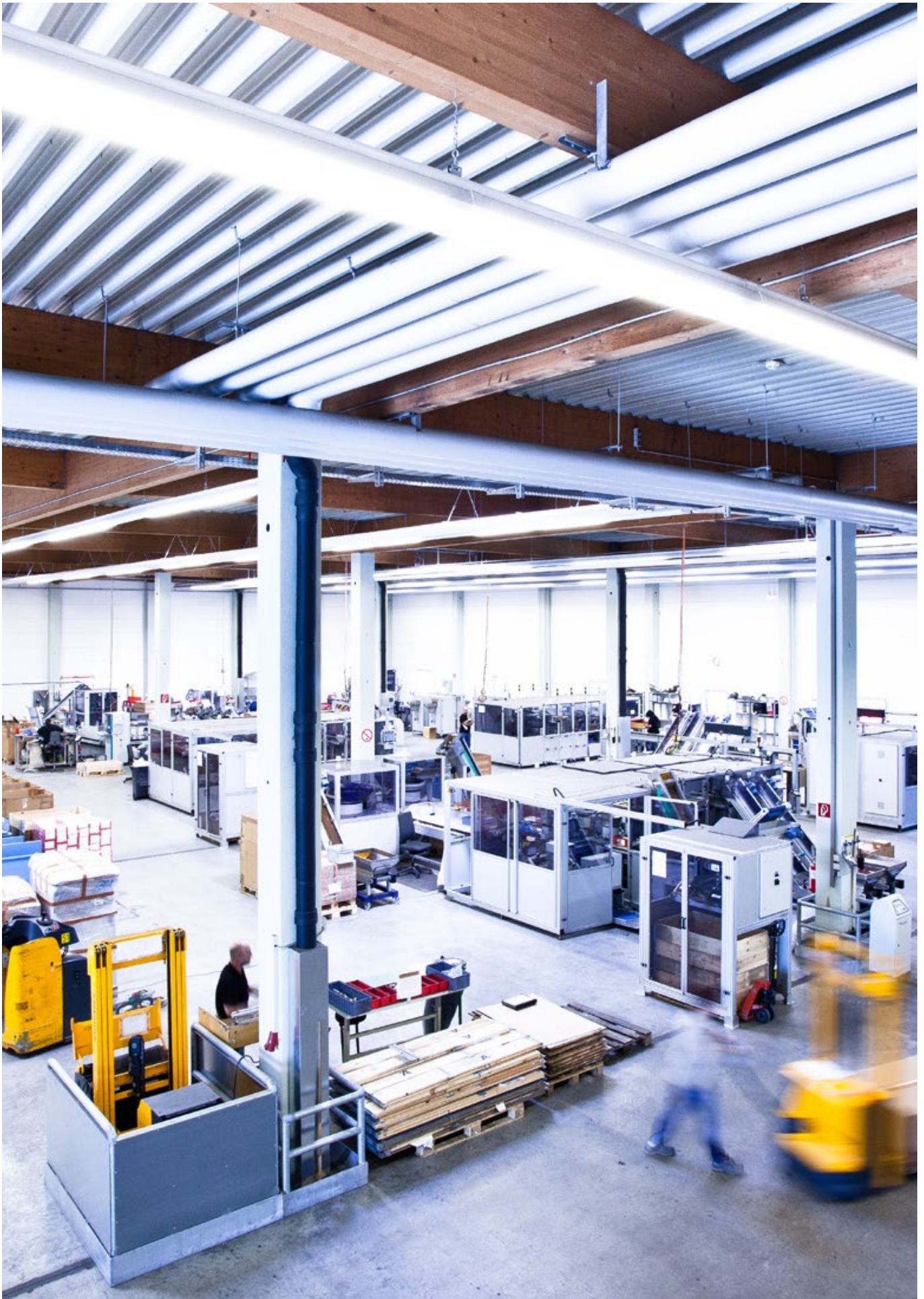
- > Material: Steel
- > Finish: Nickel plated



Distance D mm	Art.No.
For screw fixing with chipboard screws	
0	308.01.004
2	308.01.005
With pre-mounted Euro screws 6,3 x 11 mm	
0	308.01.007
2	308.01.008









# DRAWER RUNNERS





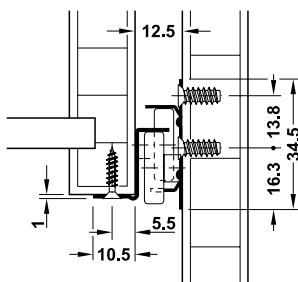
# ROLLER RUNNERS / SINGLE EXTENSION

Load bearing up to 15kg. Do indicate material thickness 0.85mm



- > Version: Type of closing: Self closing, guided by: 4 friction bearing mounted polyamide rollers
- > Adjustment facility: Height adjustment via slotted holes in cabinet rail
- > Material: Steel
- > Dimensions: max. drawer width = internal cabinet width -25 mm
- > Mounting: At drawer, surface mounted
- > Side stability provided by automatic guidance on the right hand side

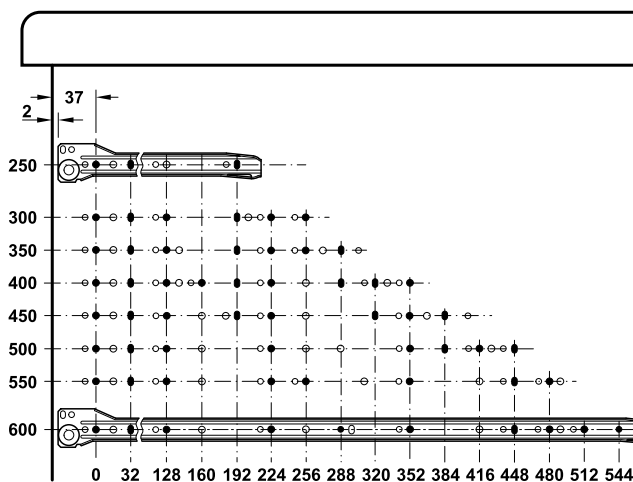
## Installation



Installation length (mm)	Loading capacity (kg)	Extension length (mm)	White, RAL 9003	Black, RAL 9011
300	15	215	431.16.701	431.16.301
350	15	265	431.16.702	431.16.302
400	15	305	431.16.703	431.16.303
450	15	355	431.16.704	431.16.304
500	15	405	431.16.705	431.16.305

① max. drawer width = internal cabinet width -25 mm

## Drilling pattern



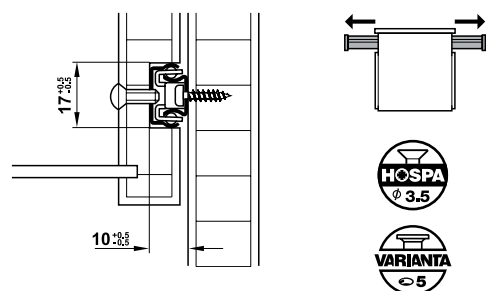
# BALL BEARING RUNNERS / GROOVE MOUNTED RUNNERS

Rail width 17 mm. Single extension, load bearing capacity up to 10 kg

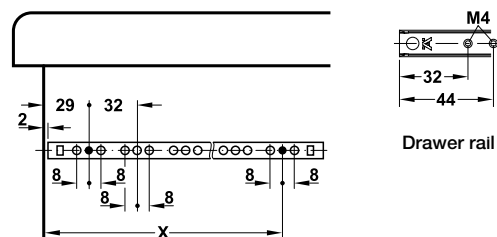


- > Material: Steel
- > Finish: Pre-galvanized
- > max. drawer width: Internal cabinet width - 20 mm + double groove depth
- > Mounting: For screw fixing

## Installation



## Drilling pattern



## Material thickness 0.8 mm

Cabinet rail length (mm)	Drawer rail length (mm)	Ball cage length (mm)	Dim. X (mm)	Art.No.
182	182	47	157	420.59.090
214	214	72	189	420.59.091
246	246	72	221	420.59.092
278	278	72	253	420.59.093
310	310	96	285	420.59.094
342	342	96	317	420.59.095

## Material thickness 1.0 mm

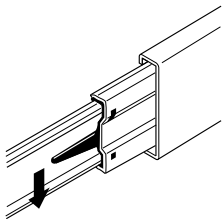
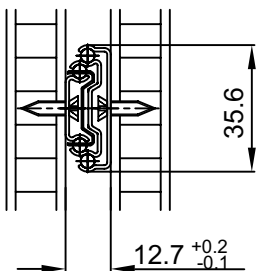
Cabinet rail length (mm)	Drawer rail length (mm)	Ball cage length (mm)	Dim. X (mm)	Art.No.
182	182	47	157	420.59.100
214	214	72	189	420.59.101
246	246	72	221	420.59.102
278	278	72	253	420.59.103
310	310	96	285	420.59.104
342	342	96	317	420.59.105

# BALL BEARING RUNNERS 36 MM



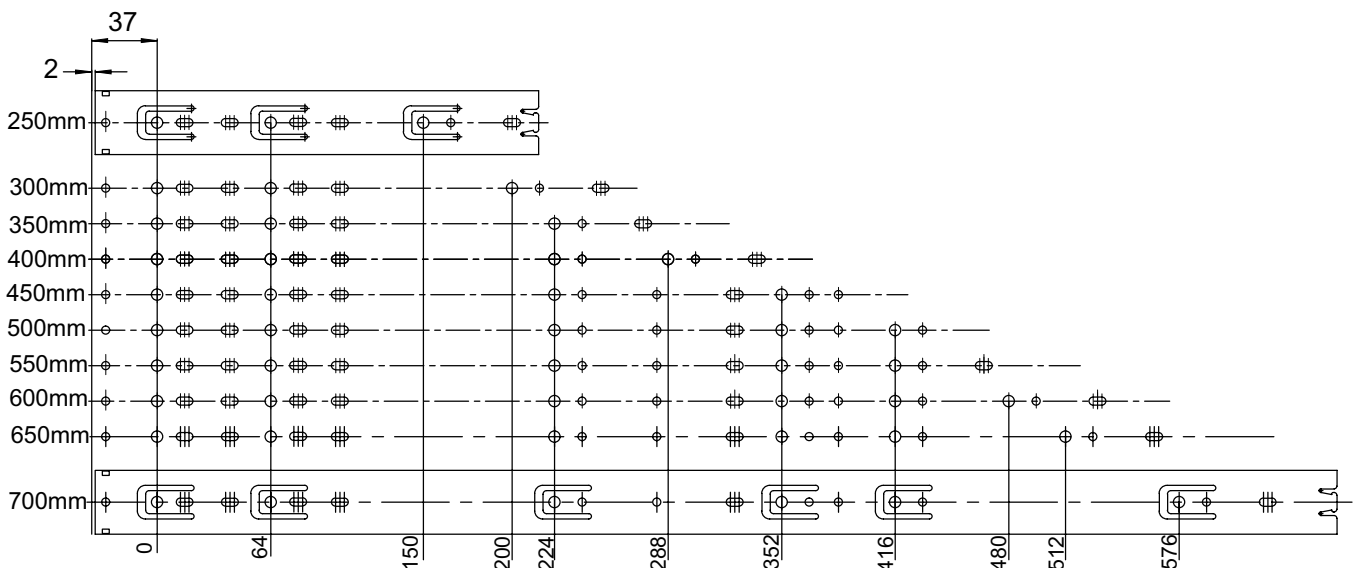
- > Version: Can be disengaged using release lever, with stay-closed feature for holding in closed position.
- > Installation: At drawer, side mounted
- > Material: Steel
- > Finish: Bright zinc plated
- > Type: Full extension

## Installation



Installation length (mm)	Extension length (mm)	Load bearing capacity (kg)	Bright zinc plated
250	250	18	420.50.626
300	300	20	420.50.631
350	350	20	420.50.636
400	400	25	420.50.641
450	450	25	420.50.646
500	500	25	420.50.651
550	550	25	420.50.656
600	600	20	420.50.661
650	650	20	420.50.666
700	700	18	420.50.671

## Drilling pattern





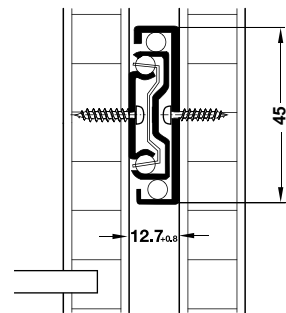
# BALL BEARING RUNNERS 45 MM

Full extension. Rail width 45mm. Loading capacity up to 25kg

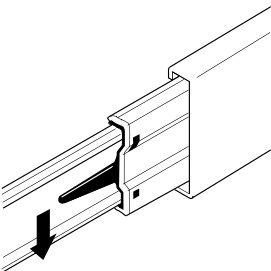


- > Material: Cold rolled steel
- > Finish: Zinc plated, Electrophoresis black
- > Version: With stay-closed feature for holding in closed position
- > Temperature range: -20 - +80 °C
- > Installation: At drawer, side mounted

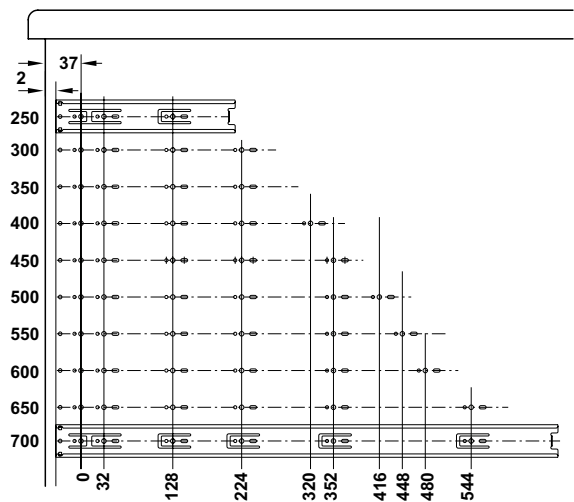
### Installation



### Side mounted



### Drilling pattern



Installation length (mm)	Extension length (mm)	Load bearing capacity (kg)	Zinc plated	Electrophoresis black
250	275	15	420.48.910	420.48.310
300	325	20	420.48.911	420.48.311
350	375	20	420.48.912	420.48.312
400	425	25	420.48.913	420.48.313
450	475	25	420.48.914	420.48.314
500	525	25	420.48.915	420.48.315
550	575	25	420.48.916	420.48.316
600	625	20	420.48.917	420.48.317
650	675	20	420.48.918	420.48.318
700	725	15	420.48.919	420.48.319

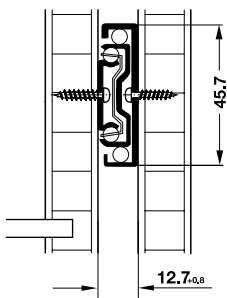
# BALL BEARING RUNNERS 45 MM PTO

Full extension. Rail width 45mm. Load bearing capacity up to 45kgs with Push Open mechanism

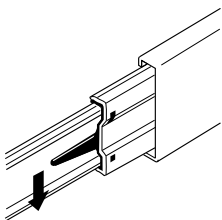


- > Material: Steel
- > Type: Push open
- > Version: Can be disengaged using release lever  
With stay-closed feature for holding in closed position
- > Installation: At drawer, side mounted

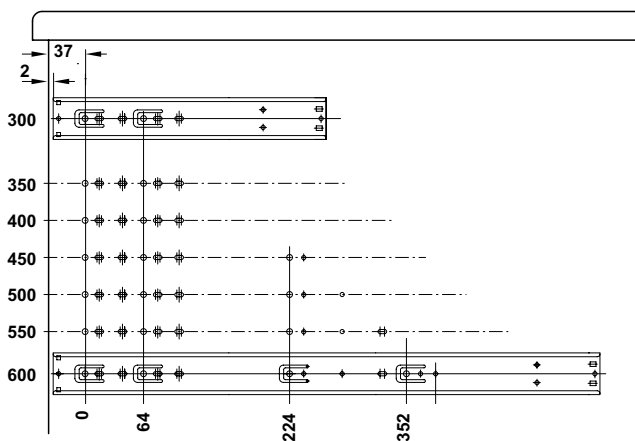
## Installation



## Side mounted



## Drilling pattern



Installation length (mm)	Extension length AL (mm)	Load bearing capacity (kg)	Galvanized
299	251	18	432.20.921
349	351	23	432.20.922
399	401	23	432.20.923
449	451	36	432.20.924
499	501	36	432.20.925
549	551	45	432.20.926
599	601	41	432.20.927

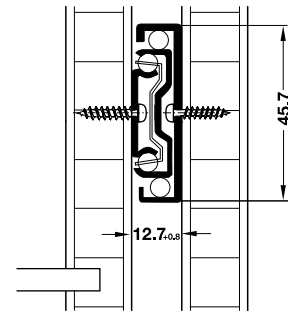
# BALL BEARING RUNNERS 45 MM SOFT CLOSE

Full extension. Load bearing capacity up to 45 kg, with self closing mechanism and Smuso soft closing mechanism

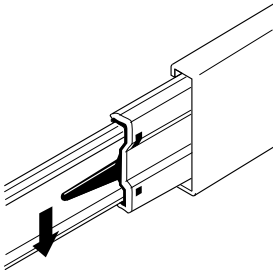


- > Material: Steel
- > Finish / Color: Galvanized
- > Version: With integrated self and soft closing mechanisms, cover caps at rear of cabinet rail and centre rail with buffer action, can be disengaged using release level
- > Installation: At drawer, side mounted

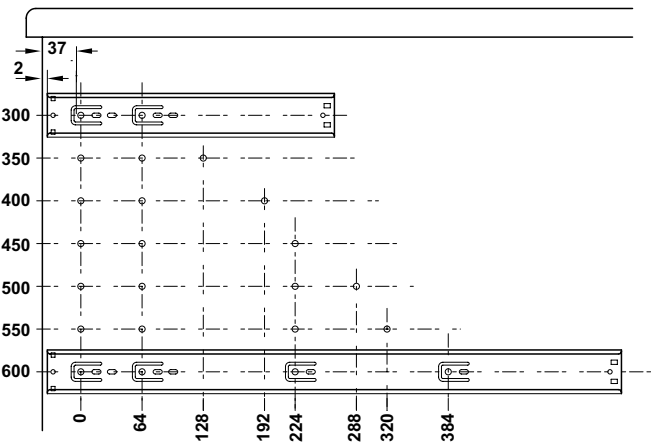
Installation



Side mounted



Drilling pattern



Installation length (mm)	Extension length AL (mm)	Load bearing capacity (kg)	Galvanized
300	297	18	432.20.901
350	350	23	432.20.902
400	400	23	432.20.903
450	450	36	432.20.904
500	500	36	432.20.905
550	550	45	432.20.906
600	600	41	432.20.907



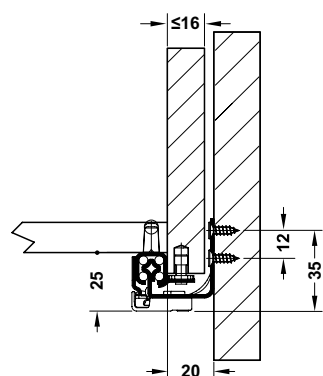
# CONCEALED RUNNER - ADJUSTING PIN VERSION

Load bearing capacity up to 25 kg for sidewalls box with a thickness of 16 mm

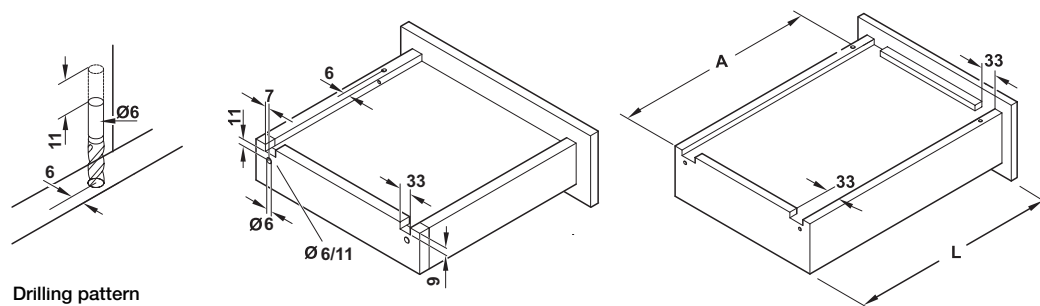
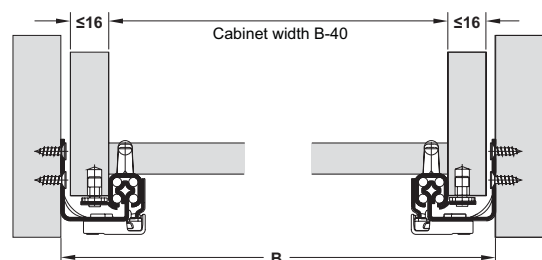


- > Material: Steel
- > Finish: Pre-galvanized
- > Dimensions: Maximum drawer width = internal cabinet width - 40 mm + 2 x wall thickness  
16 mm drawer
- > Soft closing mechanism with oil damper

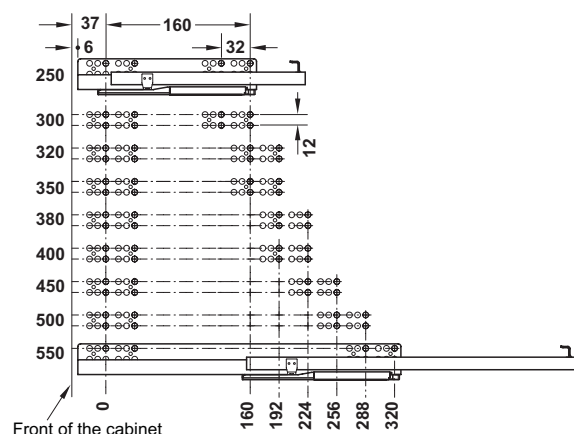
Installation



Installation length L (mm)	A (mm)	Minimum depth cabinet (mm)	Extension length (mm)	With soft closing
250	188.5	268	184	433.06.470
300	188.5	318	234	433.06.472
320	221.5	338	242	433.06.473
350	221.5	368	272	433.06.474
380	249.5	398	302	433.06.475
400	249.5	418	310	433.06.476
450	283.5	468	348	433.06.477
500	309.5	518	386	433.06.478
550	338.5	568	436	433.06.479



Drilling pattern



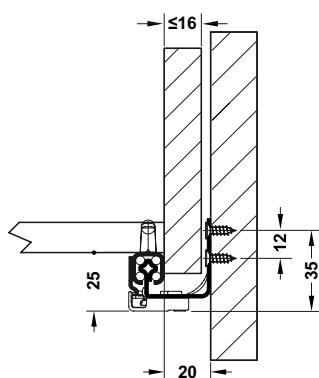
# CONCEALED RUNNER - HANDLE VERSION

Load bearing capacity up to 25 kg for sidewalls box with a thickness of 16 mm

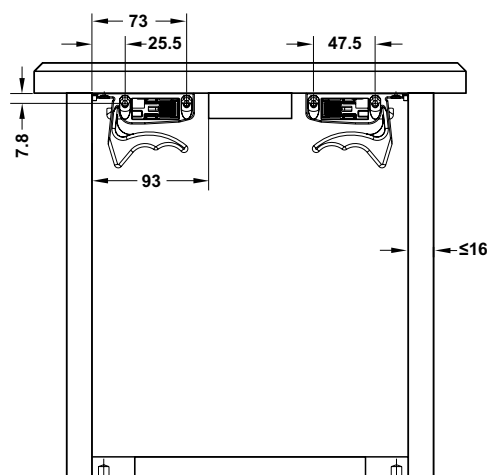
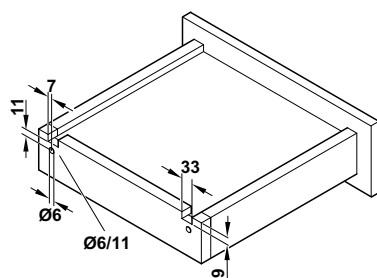
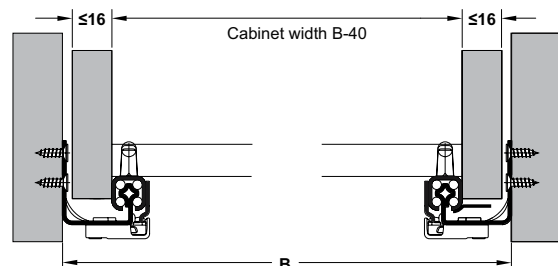


- > Material: Steel
- > Finish: Pre-galvanized
- > Dimensions: Maximum drawer width = internal cabinet width - 40 mm + 2 x wall thickness  
16 mm drawer
- > Soft closing mechanism with oil damper

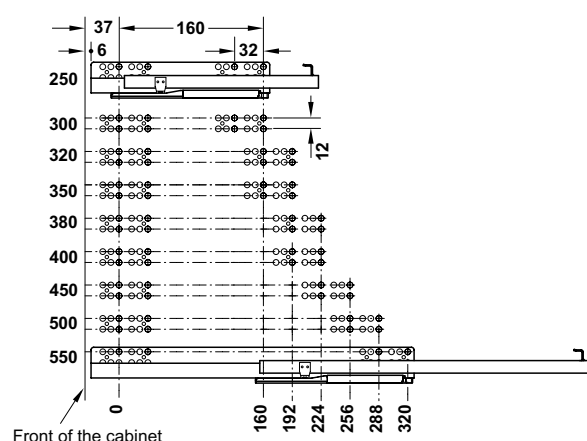
## Installation



Installation length (mm)	Minimum depth cabinet (mm)	Extension length (mm)	With soft closing
250	268	184	433.06.480
300	318	234	433.06.482
320	338	242	433.06.483
350	368	272	433.06.484
380	398	302	433.06.485
400	418	310	433.06.486
450	468	348	433.06.487
500	518	386	433.06.488
550	568	436	433.06.489



## Drilling pattern





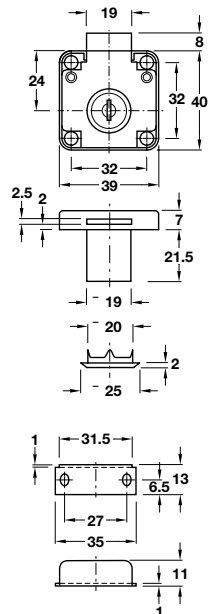


# LOCKING SYSTEM



# ECONO LOCKS

## Econo deadbolt rim lock

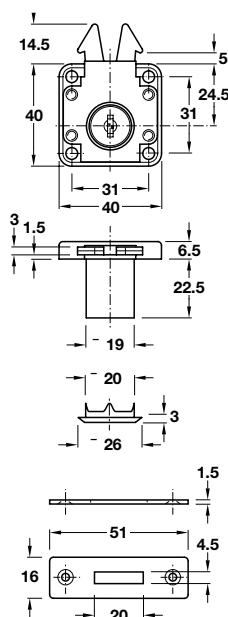


- > Area of application: Suitable for mass produced furniture
- > Material: Zinc alloy
- > Finish: Chrome plated polished
- > Backset D: 24 mm
- > Cylinder length: 21 mm
- > Cylinder Ø: 19 mm
- > Locking system: With 6 plate levers
- > Key change: 120 different key changes possible
- > Installation: For screw fixing

Mounting	Art.No.
Drawer version	232.01.220

Supplied 1 piece deadbolt rim lock, 1 piece cylinder rosette, 1 piece angle striking plate and 2 piece folding keys.  
Packing: 1 or 12 pieces

## Econo Roller Shutter rim lock



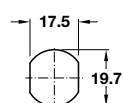
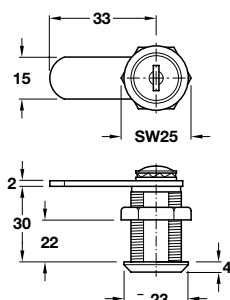
- > Area of application: For tambour doors
- > Material: Zinc alloy
- > Finish: Chrome plated polished
- > Backset D: 24.5 mm
- > Cylinder length: 22 mm
- > Cylinder Ø: 19 mm
- > Locking system: With 6 plate levers
- > Key change: 120 different key changes possible
- > Installation: For screw fixing

Mounting	Art.No.
Drawer version	232.01.240

Supplied 1 piece roller shutter rim lock, 1 piece cylinder rosette, 1 piece angle striking plate and 2 piece folding keys.  
Packing: 1 or 12 pieces

# ECONO LOCKS

## Econo cam lock, with straight cam



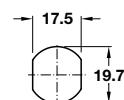
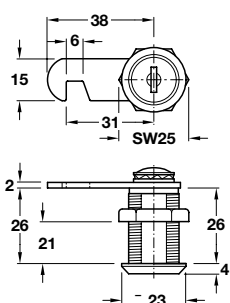
Hole pattern for metal doors

- > Material: Zinc alloy
- > Finish: Chrome plated polished
- > Closure travel: 90°
- > Locking system: With 6 plate levers
- > Key change: 120 different key changes possible
- > Installation: For screw fixing with hexagon nut (hole pattern 19.7 x 17.5 mm)

For door thickness (mm)	Art.No.
max. 22	235.19.211

Supplied 1 piece cam lock, 1 piece locking cam - straight, 1 piece lock washer, 1 piece fixing nut (pre-mounted) and 2 piece folding keys.  
Packing: 1 or 12 pieces

## Econo cam lock, with hook cam



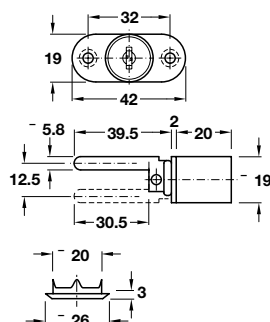
Hole pattern for metal doors

- > Material: Zinc alloy
- > Finish: Chrome plated polished
- > Closure travel: 90°
- > Locking system: With 6 plate levers
- > Key change: 120 different key changes possible
- > Installation: For screw fixing with hexagon nut (hole pattern 19.7 x 17.5 mm)

For door thickness (mm)	Art.No.
max. 17	235.19.200

Supplied 1 piece deadbolt rim lock, 1 piece cylinder rosette, 1 piece angle striking plate and 2 piece folding keys  
Packing: 1 or 12 pieces

## Econo Central locking rotary cylinder lock



- > Material: Zinc alloy
- > Finish: Chrome plated polished
- > Lift: 17 mm
- > Cylinder length: 22 mm
- > Cylinder Ø: 19 mm
- > Closure travel: Key and lifting pin 180°
- > Locking system: With 6 plate levers, key can be removed in open and locked position
- > Key change: 120 different key changes possible
- > Installation: For screw fixing

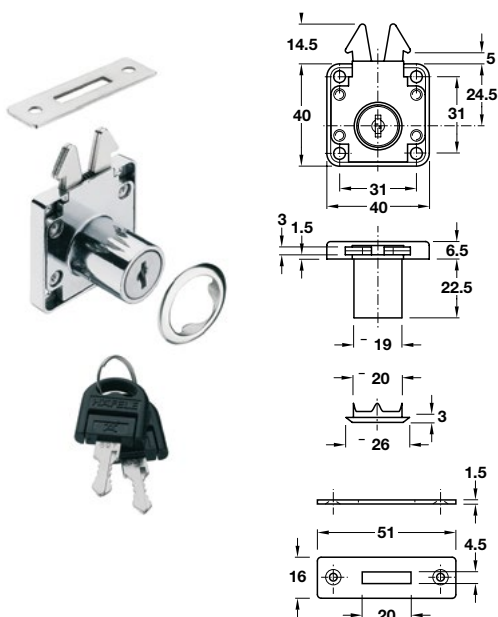
Art.No.
234.99.261

Supplied 1 piece cam lock, 1 piece hook cam, 1 piece lock washer, 1 piece fixing nut (pre-mounted) and 2 piece folding keys.  
Packing: 1 or 12 pieces



# ECONO LOCKS

## Econo Central locking rotary cylinder lock



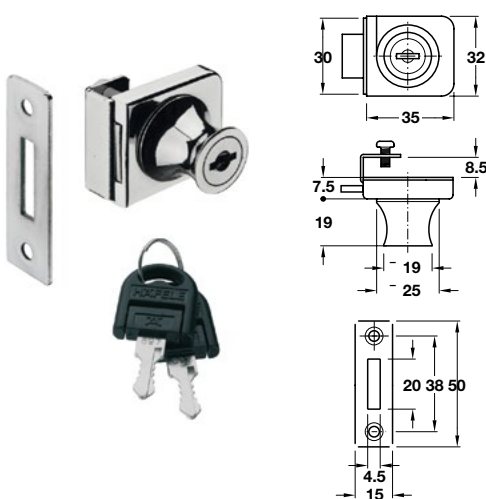
- > Material: Zinc alloy
- > Finish: Chrome plated polished
- > Cylinder length: 22 mm
- > Cylinder Ø: 19 mm
- > Closure travel: 180°
- > Locking system: With 6 plate levers
- > Key change: 120 different key changes possible
- > Installation: For screw fixing

Lift mm	Art.No.
With 600mm locking bar	
12	234.99.240
With 800mm locking bar	
17	234.99.241

Supplied 1 piece central locking rotary cylinder lock, 1 piece cylinder rosette, 1 piece central locking bar, 2 pieces bar guides, 3 pieces arresting pins, 3 pieces drawer locking plates and 2 piece folding keys.

Packing: 1 or 12 pieces

## Econo Glass door deadbolt lock



- > Material: Zinc alloy
- > Finish: Chrome plated polished
- > For glass door thickness: 4–8 mm
- > Locking system: With 6 plate levers
- > Key change: 120 different key changes possible
- > Installation: For clip fixing

Art.No.
233.20.210

Supplied 1 piece glass clamp lock, 2 pieces M4 plastic screws, 1 piece striking plate and 2 pieces folding keys.

Packing: 1 or 12 pieces

# CASTOR







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732.04.017 - March 2019