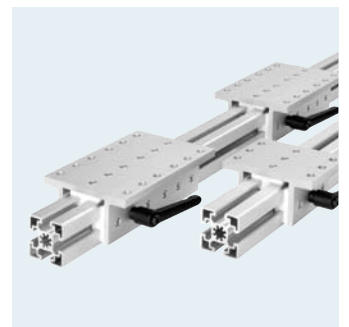
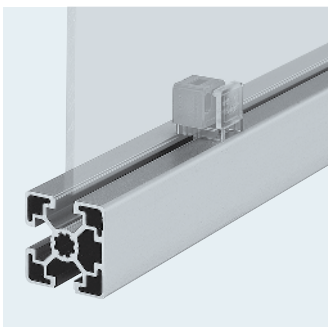
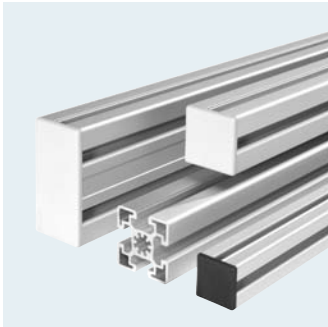


Basic Mechanic Elements

13.1



Explanations

Presentation				Explanation	
40x40 HR		L (mm)	No.	Product available for delivery as: - Single component of variable length, e.g. Order: 1 x 3 842 993 257 / 785 Delivery: 1x 40x40 HR with M12 profile finishing on both sides, L = 785 mm - Delivery unit (: here 20 units) of fixed length, e.g. Order: 1x 3 842 529 381 Delivery: 20x 40x40 HR (without profile finishing), L = 6070 mm M12  M12 Notes on profile finishes, see Section 2.	
1 units		50 ... 6000	3 842 993 256 / L		
1 units	M12  M12	110 ... 6000	3 842 993 257 / L		
 20 units		6070	3 842 529 381		
50/50		Slot	ESD 	No.	The product is delivered in packaging units ( : in this case 20 units); i.e. the order quantity must at least equal the specified quantity or a multiple of it; differing quantities will be rounded up Order examples: - Order: 1x 3 842 530 381 – delivery: 20 x bracket 50/50 - Order: 20 x 3 842 530 381 – delivery: 20 x bracket 50/50 - Order: 30 x 3 842 530 381 – delivery: 40 x bracket 50/50
Bracket (standard)		10		20	
Threaded sleeve				No.	For order tables without the column  , the following applies:  = 1 Order examples: Order: 1 x 3 842 504 790 – delivery: 1x threaded sleeve incl. fastening material (FS) enclosed with the product for peripheral mounting
				3 842 504 790	
  				1. Profile with slot width 6 mm, 8 mm, 10 mm; all modular dimensions 2. Accessories suitable for mounting on profiles with the specified slot width; all modular dimensions	
   				1. Profile with slot width 10 mm; modular dimensions: 40 mm, 45 mm, 50 mm, 60 mm 2. Accessories suitable for mounting on profiles with the specified slot width and modular dimensions	
				Conductive material version in accordance with DIN EN 61340-5-1; suitable for use in ESD-sensitive areas	
				Suitable for use in cleanrooms	
				Profile finishing required (drilling, thread cutting, milling)	
				The centering tab can be broken off for offset assembly or assembly at an angle to the profile slot.	
				Screw with Torx profile	
				Weight	
				Permitted loading (N)	



Uncompromisingly flexible: the assembly system from its inventor

Work environments are more efficient the more they are customized for their specific purpose. From frames, enclosures, special and series-production machinery and ESD-conductive systems to workstations or lines for material supply and linking, Bosch Rexroth's ultra-flexible assembly system offers quick, complete solutions for any tasks in any industry.

First introduced by Bosch over 30 years ago, today our modular system encompasses well over 1500 parts. The idea is attractively simple: the system is based on aluminum profiles with an "endless" longitudinal slot.

With systematic enhancements, customer-oriented services and comprehensive service support, including free-of-charge planning software, our modular system offers everything you need for efficient working environments.

Introduction	1
Strut profiles	2
Connection elements	3
Joints	4
Air-supply elements	5
Feet and wheels	6
Support of surface elements	7
Doors and fittings	8
Accessories for protective devices	9
Protective devices and partition walls EcoSafe	10
Installation elements	11
Elements for manual movement	12
Linear guides	13
Tools	14
FiFo station	15
Components for lateral guides	16
Components for ESD applications	17
Proximity switches and switch brackets	18
Technical data	19
Material Number Overview	20
Index	21

The Rexroth modular system – safe, reliable and customized

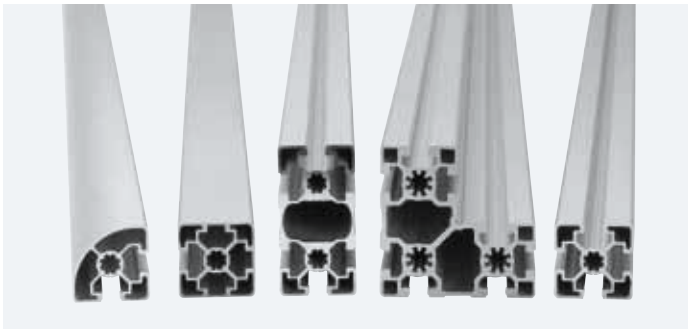
Use our extensive range of products to save working time
and costs effectively.

- Short planning timescales
- Quicker assembly
- Highly flexible conversion and extension options
- Ready-to-use, corrosion-protected surfaces
- Reusable components
- Worldwide availability



The versatile comprehensive range

Over 100 different profile cross-sections with perfectly adjusted modular dimensions as well as versatile connection elements and accessories enable you to turn any idea into reality.



Strong profiles – the economical choice for any load scenario!

- ▶ Light profiles
- ▶ Heavy-duty standard profiles
- ▶ Profiles with closed slots
- ▶ Round profiles for an attractive design
- ▶ Innovative special profiles for special applications



Sturdy connecting systems – the Rexroth connectors hold really firmly and securely!

- ▶ Brackets
- ▶ Joints
- ▶ Cubic connectors
- ▶ Bolt connectors
- ▶ Quick connectors
- ▶ ...



Matching accessories for the profile system – easy to fix in the profile slot or central hole!

- ▶ Hinges, sliders
- ▶ Clamping elements
- ▶ Feet and rollers
- ▶ Installation and air-supply elements
- ▶ Cover and mounting rim profiles
- ▶ ...

Application-oriented solutions for all sectors



A convincing concept for providing solutions for all sectors, from the automotive industry to safety equipment, logistics, automation, electronics or exhibition stand construction.

1



Maximum planning certainty due to professional, worldwide network

Comprehensive experience, in-depth know-how and reliable production capacities ensure timely and speedy supply.



Reliable worldwide availability

- ▶ Dealers, systems providers and regional and national subsidiaries are always near at hand for you – worldwide
- ▶ Highly efficient central warehouse in Stuttgart
- ▶ Local warehouses at Rexroth sites
- ▶ 'Made to measure' production capacities



On-time, speedy supply

- ▶ All components available
- ▶ Pre-assembled modules, complete frames
- ▶ Prompt delivery and excellent adherence to deadlines



Professional point of contact

- ▶ Personalized advice
- ▶ Comprehensive services
- ▶ Local sales partners
- ▶ Highly skilled experts

Find your point of contact within the Rexroth Sales and Service organization at the click of a mouse:

www.boschrexroth.com/adressen-dcl

Specific planning, efficient building, versatile use

Bosch Rexroth's high-performance aluminum modular system allows you to create secure, complete and transparent solutions for improving work productivity.



Secure

- ▶ Strong profiles which withstand strong forces
- ▶ Well designed connecting systems
- ▶ Anti-torsion elements and positioning aids
- ▶ All systems ESD-conductive
- ▶ Guaranteed performance data



Reliable

- ▶ Standardized components
- ▶ Low planning workload
- ▶ Systematically matched elements
- ▶ Short assembly times with few tools needed
- ▶ Durable and corrosion-resistant



Customized

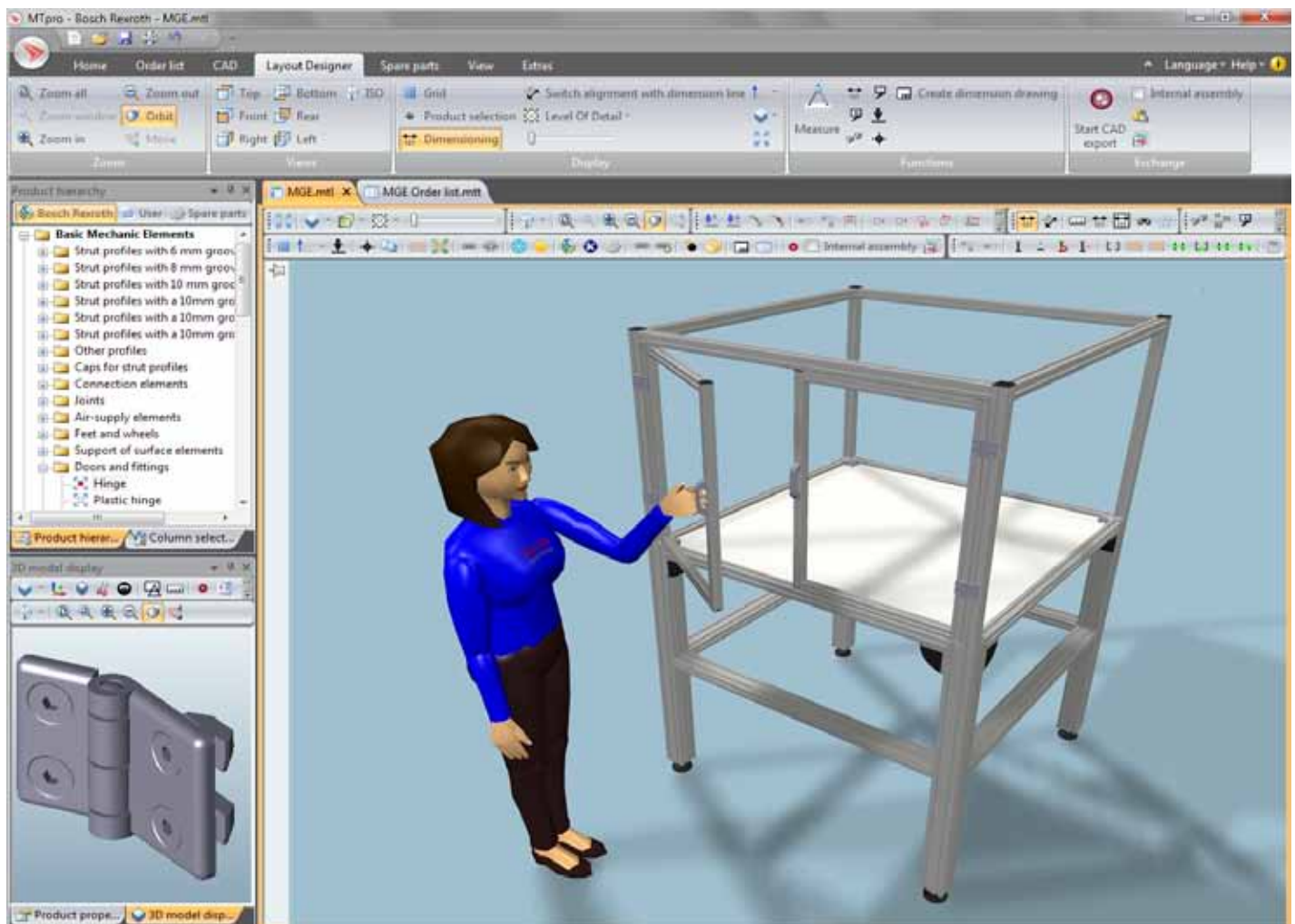
- ▶ For all sectors
- ▶ Reusable components
- ▶ Scalable/extendable
- ▶ For technical and design solutions
- ▶ Can be combined with transfer systems, Varioflow, Manual Production Systems, MGE linear guides, EcoSafe
- ▶ Quick & Easy customized finishing

MTpro – planning software

Unlimited combination options together with simple planning and ordering as well as excellent adherence to deadlines allow you to achieve perfect results.

This especially user-friendly software speeds up and simplifies the planning of application-specific frames, enclosures and workstations. The entire ordering process can also be done in next to no time. And the data can be transferred to your CAD or VR (Virtual Reality) environment via a CAD interface.

- ▶ Complete product info.
- ▶ CAD library
- ▶ Quick & Easy configurator
- ▶ Profile deflection calculation
- ▶ Conversion of profile drawings
- ▶ Quick and simple planning in the layout designer



You can find further assembly systems products in the following catalogs

Many years of experience, robust products and innovative technology are the hallmarks of Bosch Rexroth's assembly systems. You can find more information on our products in

our product catalogs (www.boschrexroth.de/mediadirectory) and on our webpages.



Manual Production Systems (MPS)

The key concern in modern production operations is the avoidance of waste. Bosch Rexroth's MPS Manual Production Systems have been developed in strict adherence to lean production principles. They make the planning and implementation of lean production facilities both simple and quick.

Catalog: 3842540392

www.boschrexroth.de/mediadirectory



VarioFlow plus

With its VarioFlow *plus* system Rexroth offers you a high-performance, standardized and versatile conveyor system for use in the food & packaging and the healthcare fields as well as in automotive & electronic assembly lines and machine linking applications.

Catalog: R999000401

www.boschrexroth.de/mediadirectory



TS 2plus

As well as a range of conveyor media including polyamide belts, toothed belts, flat top chains and accumulation roller chains, TS *2plus* offers a wealth of specific modular units in the curve, cross conveyor, positioning and drive units field.

Catalog: 3842531138

www.boschrexroth.de/mediadirectory

Strut profiles



Strut profiles, 6 mm slot,
20 mm modular dimension
(p. 2-11)



Strut profiles, 8 mm slot,
30 mm modular dimension
(p. 2-16)



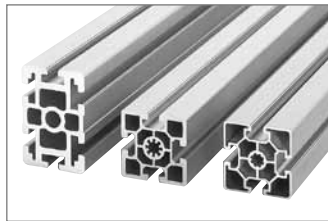
Strut profiles, 10 mm slot,
40 mm modular dimension
(p. 2-24)



Strut profiles, 10 mm slot,
45 mm modular dimension
(p. 2-35)



Strut profiles, 10 mm slot,
50 mm modular dimension
(p. 2-49)



Strut profiles, 10 mm slot,
60 mm modular dimension
(p. 2-51)



Rectangular tube (p. 2-53)
Clamping profile (p. 2-54)



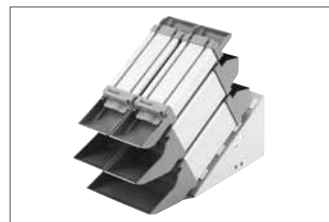
Frame profile 22.5x30 (p. 2-55)
22.5x45 (p. 2-56)



Angle profile (p. 2-57)
Suspension profile (p. 2-58)
Container mount (p. 2-59)



Slotted plate (p. 2-60)



Material chute (p. 2-61)



Profile rail (p. 2-63)



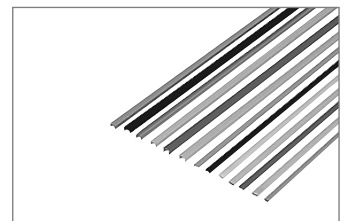
Profiles for installing
conveyor media (p. 2-64)



D28 round tube (p. 2-67)
Strut profile D28x55 (p. 2-67)



EcoShape tubular framing
system (p. 2-70)



Cover profiles, additional
accessories (p. 2-81)

Strut profiles

With more than 100 strut profiles for all types of loading, Bosch Rexroth AG offers the widest product range for different demands:

- ▶ Square and rectangular profiles
- ▶ Light profiles with optimized cross-sections
- ▶ Round profiles and profiles with smooth lateral surfaces

Connectors with high load-bearing capacities, combined with ultra robust slots and large central bores, enable profile connections equipped to handle high static and dynamic loads.

Bosch Rexroth AG offers you 6 different profile ranges. All profiles within one profile range have the same slot dimensions and spacing to ensure perfect coordination during construction. Due to their high degree of robustness, the 10 mm slotted profiles are suitable for constructions ranging from tables to heavy machine frames. They are available in four profile series with a slot spacing of 40 mm, 45 mm, 50 mm, or 60 mm.

The profiles with 8 mm and 6 mm slots are used in the construction of lightweight equipment, partition walls, stands, or showcases.

Profile length in profile packaging units

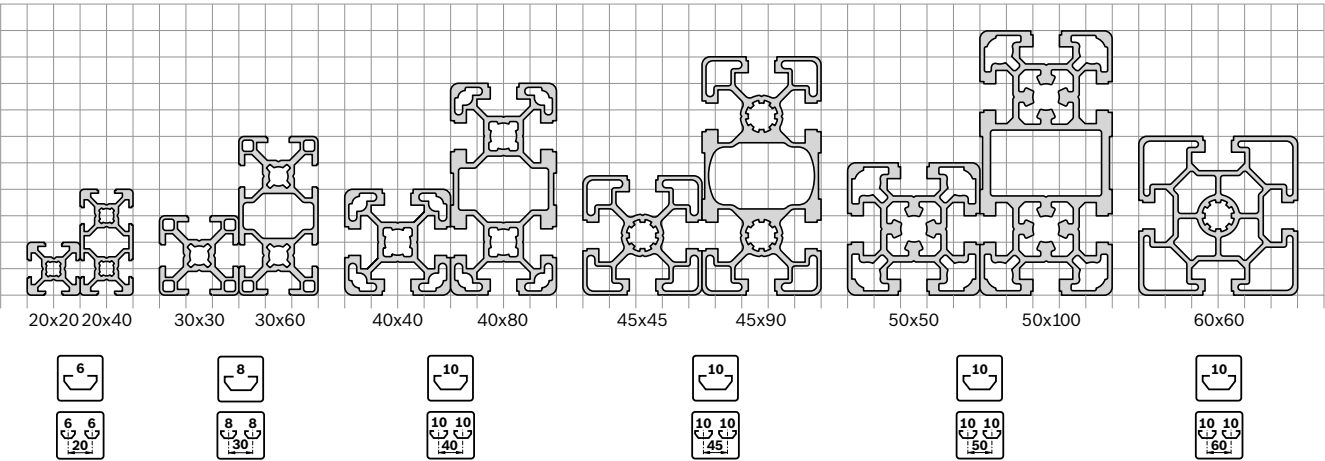
The stated length of the profile packaging units relates to the guaranteed usable length. During anodizing as part of the manufacturing process bare areas which are approx. 30 mm long are left at each end of the profile (= contact areas), so the profiles are generally supplied incorporating an excess length of 100 mm.

Example:

45x45L		L (mm) No.	
	20 pcs		5600 3 842 511 702

Note: The length dimension “L” in the table equals the usable length, whereas the actual length is approx. 100 mm longer.

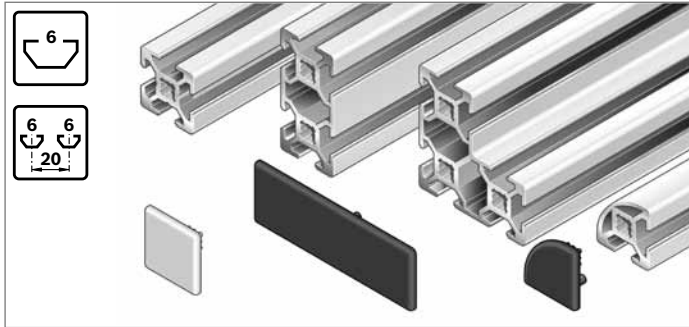
Strut profiles – slot sizes and modular dimensions



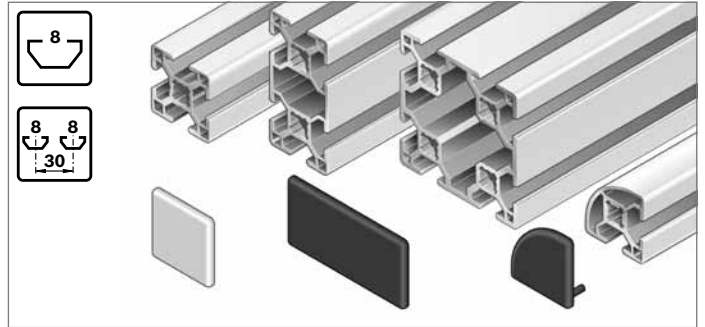
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Strut profiles – slot sizes and modular dimensions

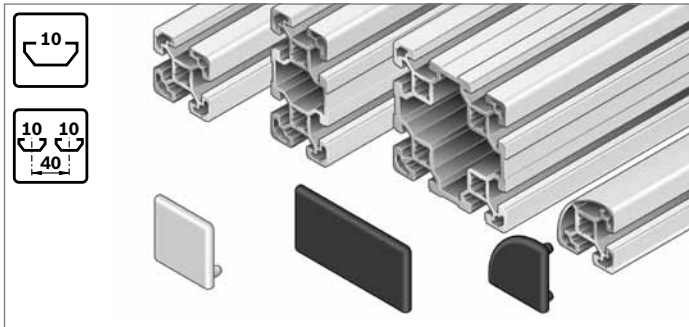
6 mm slot, 20 mm modular dimension



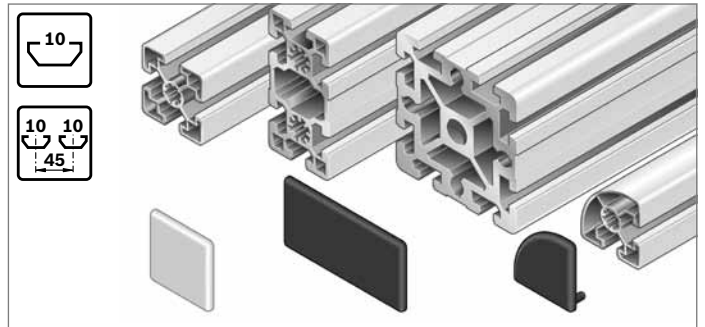
8 mm slot, 30 mm modular dimension



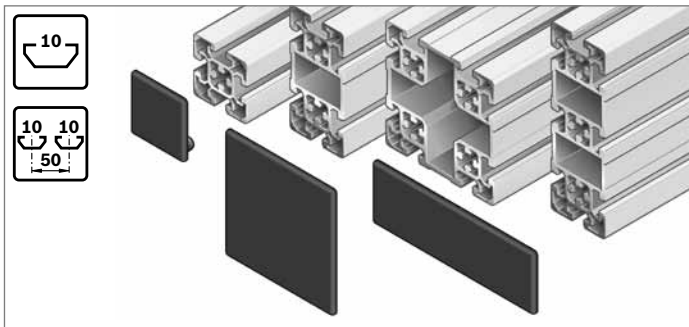
10 mm slot, 40 mm modular dimension



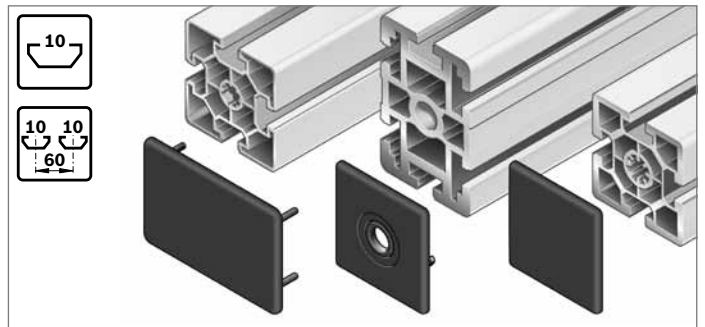
10 mm slot, 45 mm modular dimension



10 mm slot, 50 mm modular dimension

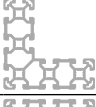


10 mm slot, 60 mm modular dimension



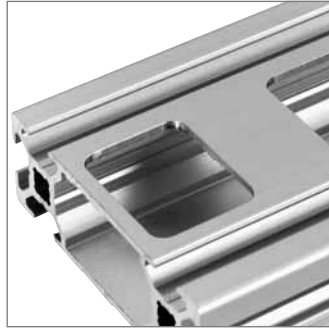
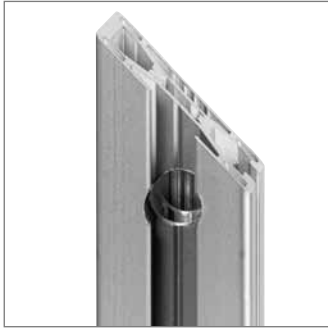
Technical data – profiles

Profile		Slot	Profile surface	Moment of inertia		Section modulus		Torsion index		Mass m (kg/m)	Page
			A (cm ²)	I _x (cm ⁴)	I _y (cm ⁴)	W _x (cm ³)	W _y (cm ³)	I _t (cm ⁴)	W _t (cm ³)		
20x20		6	1.6	0.7	0.7	0.7	0.7	0.08	0.17	0.4	2-12
20x20 1N		6	1.9	0.8	0.8	0.8	0.8	0.60	0.67	0.5	2-12
20x20 2N		6	1.8	0.7	0.8	0.7	0.8	0.31	0.52	0.5	2-12
20x20 2NVS		6	1.8	0.7	0.7	0.7	0.7	0.37	0.52	0.5	2-13
20x20 3N		6	1.7	0.7	0.8	0.7	0.7	0.19	0.34	0.5	2-13
20x20 R		6	1.6	0.6	0.6	0.5	0.5	0.21	0.39	0.4	2-13
20x40		6	2.9	4.6	1.2	2.5	1.4	0.68	0.91	0.8	2-14
20x60		6	3.5	14.2	1.7	4.7	1.7	2.30	2.00	0.9	2-14
20x40x40		6	4.2	6.0	6.0	2.6	2.6	1.50	1.30	1.1	2-14
10x40		6	2.1	3.2	0.2	1.6	0.4	–	–	0.6	2-15
30x30		8	3.1	2.8	2.8	1.8	1.8	0.29	0.33	0.9	2-17
30x30 1N		8	3.7	3.1	3.5	2.0	2.3	2.80	1.50	1.0	2-17
30x30 2N		8	3.5	2.8	3.5	2.1	2.7	1.50	1.20	1.0	2-17
30x30 2NVS		8	3.5	3.1	3.1	2.0	2.0	1.70	1.10	1.0	2-18
30x30 3N		8	3.3	3.1	2.8	2.3	2.2	0.86	0.73	0.9	2-18
30x30°		8	3.7	3.5	3.6	2.0	1.9	1.50	2.00	1.0	2-17
30x45°		8	4.0	3.6	5.1	2.1	2.3	2.10	2.40	1.1	2-19
30x60°		8	3.6	3.1	4.1	1.7	1.9	1.50	2.00	1.0	2-19
30x30 R		8	2.9	2.3	2.3	1.4	1.4	0.81	1.20	0.8	2-19
30x60		8	5.5	19.6	5.1	7.0	3.9	2.60	2.10	1.5	2-20
30x60 4N		8	5.8	20.2	5.5	6.7	3.8	4.80	2.40	1.6	2-20
30x60x60		8	8.2	26.2	26.2	7.6	7.6	6.40	3.60	2.2	2-20
30x90		8	7.7	60.7	7.3	13.5	4.9	5.10	3.80	2.1	2-21
30x120		8	9.9	136.3	9.6	22.7	6.4	7.60	5.60	2.7	2-21
30x45		8/10	4.0	8.1	3.9	3.9	2.9	1.30	1.30	1.1	2-22
60x60 8N		8	9.8	39.7	39.7	13.2	13.2	19.30	6.80	2.6	2-22
11x20		8	1.0	0.5	0.1	0.7	0.3	–	–	0.3	2-22
15x120		8	9.0	110.4	2.2	18.4	2.7	–	–	2.4	2-23
40x40L		10	5.6	9.1	9.1	4.5	4.5	1.30	0.74	1.5	2-26
40x40L 0N		10	6.3	10.4	10.4	5.2	5.2	10.70	4.30	1.7	2-27
40x40L 1N		10	6.1	9.8	10.4	4.8	5.2	6.90	3.70	1.7	2-26
40x40L 2N		10	6.0	9.0	10.3	4.5	5.2	4.00	3.00	1.6	2-27
40x40L 2NVS		10	6.0	9.7	9.7	4.9	4.9	4.50	2.70	1.6	2-27
40x40L 3N		10	5.8	9.7	9.0	4.8	4.5	2.60	1.70	1.6	2-27
40x30°		10	6.2	9.4	11.8	4.7	5.9	3.00	3.10	1.7	2-37
40x45°		10	6.8	9.9	16.6	5.0	8.3	4.20	3.70	1.8	2-28
40x60°		10	6.3	8.7	13.1	4.3	6.5	3.00	3.10	1.7	2-28
40x40L R		10	5.0	7.2	7.2	3.6	3.6	2.50	2.00	1.3	2-29
40x40 HR		10	5.5	8.1	7.6	4.0	3.6	4.60	2.80	1.5	2-29

Profile	Slot	Profile surface	Moment of inertia		Section modulus		Torsion index		Mass m (kg/m)	Page
			A (cm ²)	I _x (cm ⁴)	I _y (cm ⁴)	W _x (cm ³)	W _y (cm ³)	I _t (cm ⁴)	W _t (cm ³)	
40x80L		10	9.9	63.4	17.3	15.9	8.7	8.02	4.80	2.7 2-30
40x80L 4N		10	10.4	65.2	19.1	16.3	9.9	13.30	4.40	2.8 2-30
40x80L 3NVS		10	10.6	67.8	19.0	17.0	9.5	15.90	5.20	2.9 2-35
40x80x80L		10	15.4	96.6	96.6	24.2	24.2	19.60	9.80	4.2 2-31
40x120L		10	15.5	203.2	27.8	33.9	13.9	17.20	10.00	4.2 2-31
40x160L		10	20.5	466.7	37.2	58.3	18.6	25.80	14.60	5.5 2-32
80x80L		10	18.2	132.1	132.1	33.0	33.0	59.80	17.20	4.9 2-32
80x80L 4NVS		10	19.3	142.5	142.5	35.6	35.6	92.00	16.80	5.2 2-33
80x80L 6N		10	18.8	134.1	140.9	33.5	36.2	72.60	15.00	5.1 2-33
40x120x120L		10	24.6	318.0	318.0	42.2	42.2	37.10	19.00	6.7 2-33
80x120L		10	25.6	389.2	192.8	64.9	48.2	119.00	29.10	6.9 2-34
80x160L		10	32.9	850.7	253.4	106.3	63.4	182.00	41.10	8.9 2-34
45x45L		10	6.0	11.7	11.7	5.2	5.2	1.46	0.75	1.6 2-35
45x45L 0N		10	6.7	13.5	13.5	6.0	6.0	16.20	6.10	1.8 2-35
45x45L 1N		10	6.5	12.6	13.5	5.5	6.0	10.00	5.20	1.8 2-36
45x45L 2N		10	6.4	11.6	13.5	5.2	6.0	5.50	4.30	1.7 2-36
45x45L 2NVS		10	6.4	12.6	12.6	5.6	5.6	6.30	3.80	1.7 2-36
45x45L 3N		10	6.2	12.6	11.7	5.4	5.2	3.40	2.40	1.7 2-37
45x30°		10	6.9	12.7	15.2	5.0	5.3	6.60	5.70	1.9 2-37
45x45°		10	7.6	13.4	21.4	5.2	6.4	9.00	6.80	2.0 2-37
45x60°		10	6.8	11.4	16.9	4.4	5.2	6.80	4.30	1.8 2-38
45x45L R		10	4.9	8.6	8.6	5.0	5.0	3.30	2.80	1.3 2-38
45x45HR		10	6.6	11.0	10.7	4.4	4.8	7.60	3.40	1.8 2-38
45x45		10	7.5	13.8	13.8	6.1	6.1	2.65	0.96	2.0 2-39
45x60		10	11.0	37.2	22.7	12.4	10.1	6.70	4.09	3.0 2-40
45x90SL		10	9.0	73.4	18.1	16.3	8.0	8.57	4.00	2.4 2-40
45x90L		10	11.3	82.0	23.6	18.2	10.5	15.10	4.40	3.0 2-41
45x90L 2N		10	12.0	85.6	26.9	38.1	6.0	31.70	7.70	3.2 2-41
45x90L 3NVS		10	11.8	87.2	25.2	38.8	5.6	25.70	6.60	3.2 2-41
45x90		10	15.4	124.6	32.8	27.7	14.6	15.40	6.61	4.2 2-42
45x180		10	25.5	766.7	57.3	85.2	25.5	44.40	17.00	6.9 2-42

Profile		Slot	Profile surface	Moment of inertia		Section modulus		Torsion index		Mass m (kg/m)	Page
			A (cm ²)	I _x (cm ⁴)	I _y (cm ⁴)	W _x (cm ³)	W _y (cm ³)	I _t (cm ⁴)	W _t (cm ³)		
45x270		10	61.9	3962.0	118.0	300.2	61.6	–	–	16.7	2-43
45x90x90L		10	21.2	152.1	152.1	19.1	32.6	34.90	11.60	5.7	2-43
45x90x90L 4 N		10	22.1	160.8	160.8	30.6	30.6	65.30	17.20	5.95	2-44
90x90SL		10	14.1	130.2	130.2	28.9	28.9	42.50	13.90	3.8	2-44
90x90L		10	24.1	211.1	211.1	46.9	46.9	82.10	20.10	6.5	2-44
90x90L 4N		10	24.2	227.4	214.7	50.5	47.7	122.00	22.20	6.5	2-45
90x90L 4NVS		10	24.2	220.9	220.9	49.2	49.2	127.00	22.00	6.5	2-45
90x90		10	38.4	299.8	299.8	66.7	66.7	118.60	26.00	10.4	2-45
90x180L		10	42.8	1380.0	401.0	153.3	89.1	257.00	47.10	11.6	2-46
90x180		10	63.6	2138.3	544.3	237.6	121.0	429.00	64.00	17.2	2-46
90x360		10	90.2	14065.0	710.0	781.4	157.7	937.10	117.60	24.4	2-43
15x22.5		10	1.3	0.8	0.3	0.9	0.6	–	–	0.3	2-47
15x180		10	11.6	321.7	3.2	35.7	4.2	–	–	3.1	2-48
22.5x45		10	4.7	7.1	2.9	3.2	2.6	–	–	1.3	2-48
22.5x180		10	21.6	581.0	11.8	66.8	14.7	–	–	5.8	2-48
50x50L		10	9.3	21.2	21.2	8.5	8.5	5.37	4.30	2.5	2-49
50x100L		10	17.2	162.8	42.6	32.6	17.0	29.43	10.70	4.6	2-49
50x150L		10	25.8	540.0	64.2	72.0	25.7	52.10	20.50	6.9	2-50
100x100L		10	29.9	318.3	318.3	63.7	63.7	153.53	31.40	8.1	2-50
100x200L		10	54.0	2133.1	602.1	213.3	120.4	421.00	75.70	14.6	2-51
60x60L		10	9.6	32.4	32.4	10.8	10.8	13.20	8.70	2.6	2-51
60x60		10	14.4	52.2	52.2	17.4	17.4	15.90	8.80	3.9	2-52
60x90		10	25.8	214.2	90.5	47.6	30.2	45.80	18.00	7.0	2-52

Profile	Slot	Profile surface	Moment of inertia		Section modulus		Torsion index		Mass m (kg/m)	Page
			A (cm ²)	I _x (cm ⁴)	I _y (cm ⁴)	W _x (cm ³)	W _y (cm ³)	I _t (cm ⁴)	W _t (cm ³)	
50x50 Rectangular tube 	10		4.5	15.1	15.1	5.7	5.7	–	–	1.2 2-53
Frame profile 22.5x30 	10		3.2	1.7	3.0	1.5	2.0	–	–	0.9 2-55
Frame profile 22.5x45 	10		3.4	6.7	1.7	2.8	1.3	–	–	0.9 2-56
Angle profile 	10		4.5	8.8	6.9	3.2	2.3	–	–	1.2 2-57
Suspension profile 	10		2.0	2.0	0.5	2.7	0.3	–	–	0.6 2-58
30x100 L/R Slotted plate 	10		9.7	88.8	9.2	17.8	6.0	–	–	2.6 2-60
30x100 M Slotted plate 	10		9.7	88.8	9.2	17.8	6.0	–	–	2.6 2-60
Profile rail 30x45C 	10		4.4	10.3	5.6	4.2	3.7	–	–	1.2 2-63
U-profile 	10		4.4	10.4	8.3	4.6	4.1	–	–	1.2 2-64
SP 2/R 	8		5.2	4.3	11.7	2.4	5.2	–	–	1.4 2-64
SP 2/B 	10		10.4	49.6	25.8	12.1	11.5	–	–	2.8 2-65
SP 2/B-50 	8/10		6.9	16.1	16.9	5.3	7.5	–	–	1.9 2-65
SP 2/B-100 	10		11.9	95.1	30.4	20.0	13.5	–	–	3.2 2-65
SP 2/BH 	10		12.4	53.7	28.6	14.0	13.8	–	–	3.3 2-66
SP 4/R 	10		26.1	222.0	95.5	84.9	16.4	–	–	3.5 2-66
D28 			2.4	1.5	1.5	1.1	1.1	–	–	0.7 2-68
D28x55 			5.9	3.2	88.3	2.3	32.1	–	–	1.6 2-69
D28L 			1.8	1.3	1.3	1.0	1.0	–	–	0.5 2-72
D28L; N10 			2.6	1.2	2.0	0.8	1.4	–	–	0.7 2-72
Section profile MV45x45 	10		6.2	11.8	10.5	5.3	4.7	–	–	1.7 12-28
30x30 WG30 	8		3.2	2.5	3.0	1.6	1.9	–	–	0.9 10-9
30x30 WG40 	8		3.2	2.4	2.9	1.5	1.8	–	–	0.9 10-9
30x45 WG30 	8		4.5	7.3	4.2	3.2	2.7	–	–	1.2 10-9
30x45 WG40 	8		4.5	6.9	4.1	4.3	1.8	–	–	1.2 10-9



Profile finishing

Profile finishing is required whenever interlocking connectors are used. Bores must be added for bolt connectors or threads cut in central bores, for example. This requires machining with standard dimensions. However, individual customer requirements can only be satisfied by customized profile finishes for all points along the profile.

Rexroth enables even these complex requirements to be met as standard. This is because we offer three options for ordering the right profile finishes:

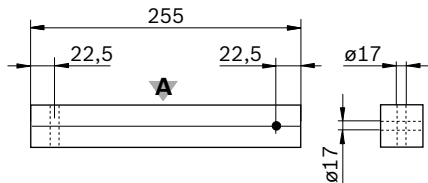
Standard profile finishes with fixed material numbers

For certain profiles, you can receive selected profile finishes with a fixed material number. This is the easiest way to order the appropriate profile finish for our proven interlocking profile connectors.

The available profile finishes are shown in pictograms in the order tables.

Example: 40x40L

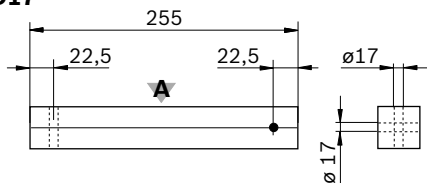
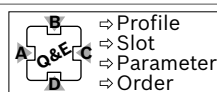
3 842 993 126 / 255 D17  D17V



00133799

Example: 40x40L 2N

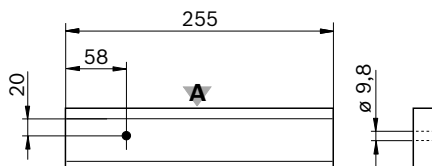
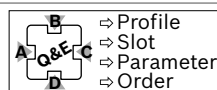
3 842 993 720 / 255 /
A=D17/-; B=-/D17



00133800

Example: 20x60

3 842 993 698 / 255 /
[B=D1; PS=58; OS=20; DM=9,8]



00133801

Quick & Easy – standard profile finishes

All profile finishes with standard dimensions: available for all profiles thanks to simple configuration with Quick & Easy.

For more information on the available profile finishes, see the fold-out section at the end of the catalog.

Quick & Easy – individual profile finishes

Get the greatest possible flexibility in defining your profile finishes. Individual finishing options can be achieved in virtually any combination and nearly every point along the profile.

For more information, see the fold-out section at the end of the catalog.

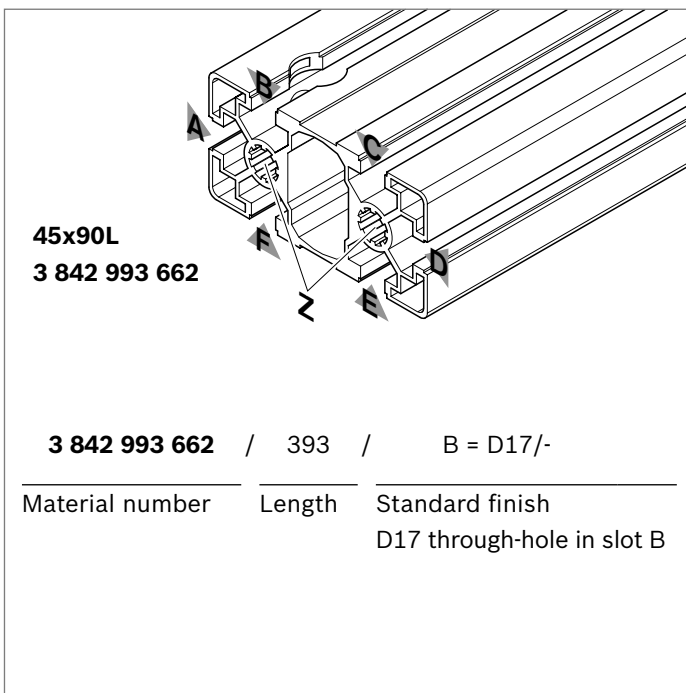


eShop and MTpro – software tools for designers, planners, and purchasers

Quick & Easy is supported by Rexroth's eShop and the MT *pro* profile configurator.

We offer:

- ▶ Customer-friendly configurations
- ▶ Generation of 3D CAD models for designers
- ▶ Drawings at the press of a button
- ▶ Integration of frames/profiles in layouts
- ▶ Easy ordering at the click of a mouse



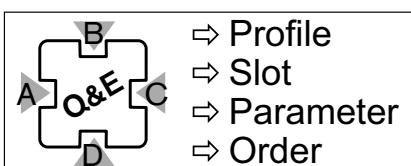
Quick & Easy – four steps for simple ordering

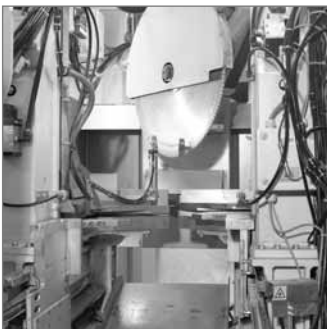
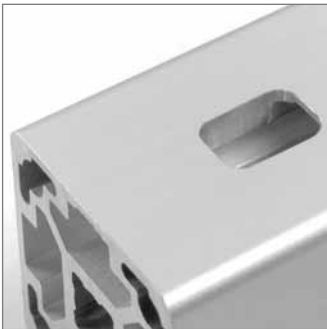
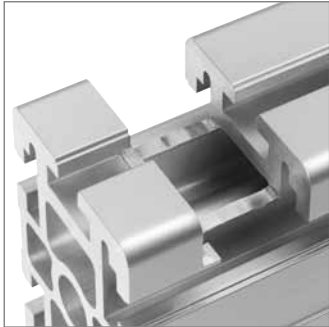
The type of profile finishing is defined in an order key; all finishes for a profile can be summarized in one order key.

1. Select profile cross-section and length
2. Specify slot for finishing:
all profile slots are identified with letters (A, B, C, etc.)
arranged in clockwise order (see profile dimension images)
3. Define parameters:
 - type of finishing (drilling, milling, miter cutting)
 - Distance from profile end
4. Place order:
conventionally by fax or, preferably online in our eShop

Logical structure of the order key

Material number/length/[slot designation = finishing; parameter set]





Profile finishing

Rexroth offers you numerous connection options for putting strut profiles together. The wide variety of connector types is due to the differing demands made of the applications:

- ▶ Right-angled
- ▶ Variable-angle
- ▶ Internal
- ▶ Torsion-resistant
- ▶ Vibration-resistant
- ▶ With or without profile finishing

If you require a finished profile, it can be provided for you in an installation-ready form. When you select the corresponding material number the profile is provided in cut, burr-free form, or alternatively fully finished with drilled holes or threads. This eliminates risk for you and reduces your production workload.

If you wish to undertake the finishing yourself, here are a few tips:

Saw and saw blade

Segmental metal circular saw blade, carbide-tipped
Number of teeth: 92 or 96
Rotational speed: at least 2500 rpm

Finishing of central holes

As a rule, the threads can be directly formed and cut, but countersinks facilitate their production. The central holes of the strut profiles are designed for the following thread manufacturing processes.

Threads	Finish	Note
M6	Thread forming	–
M8	Thread forming	–
M12	Thread cutting	–
M16	Thread forming	Pre-drilling in some cases

Drilling jigs

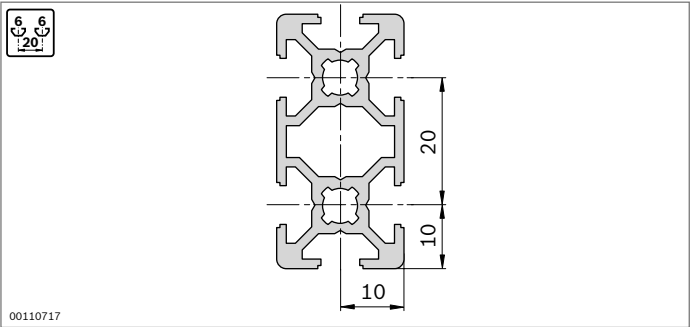
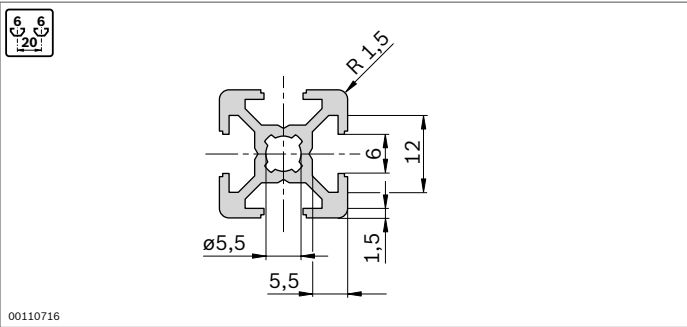
In the tools section you will find useful drilling jigs for the Rexroth standard finishes (p. 14-2).

Strut profiles with 6 mm slot

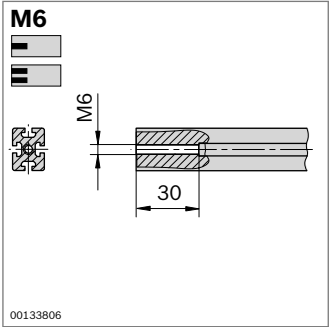
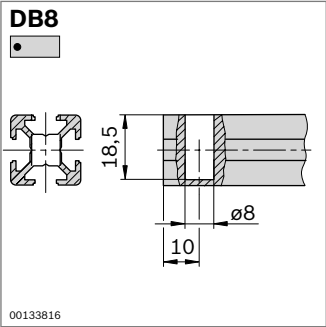
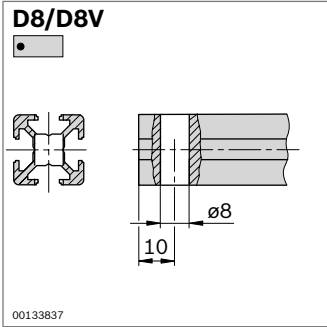
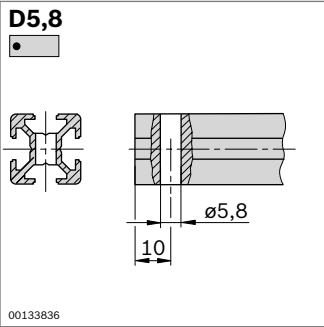
Strut profiles with 6 mm slot for light structures, such as supports and lab fixtures.

The 20x40 and 20x60 profiles are especially suitable for reinforcing; the 20x40x40 profile is suitable for constructing showcases, flow racks, and enclosures.

Slot, modular dimensions, central bore



Profile finishing

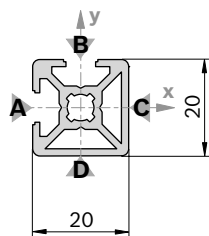


Minimum profile lengths (mm) for Quick & Easy standard profile finishes on one or both sides

	-	M6	D5.8	D8/DB8
-	50	50	50	50
M6	50	70	50	70
D5.8	50	50	50	50
D8/DB8	50	70	50	50

20x20 2NVS

A = 1,8 cm²
I_x = 0,7 cm⁴
I_y = 0,7 cm⁴
W_x = 0,7 cm³
W_y = 0,7 cm³
m = 0,5 kg/m



Cap: see 20x20

20x20 2NVS	L (mm)	No.
1 pc	50 ... 3000	3 842 992 924 / L
20 pcs	3000	3 842 519 658

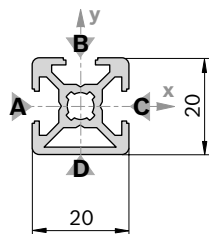
Quick & Easy (p. 2-8, see fold-out section)

20x20 2NVS	3 842 993 692/...
Length L (mm)	50 ... 3000
Standard profile finishes (note minimum length, p. 2-11)	M6 / D5.8 / D8 / DB8
Individual profile finishes (L _{max} = 2300 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 335 / 370 mm

20x20 3N

A = 1,7 cm²
I_x = 0,7 cm⁴
I_y = 0,8 cm⁴
W_x = 0,7 cm³
W_y = 0,7 cm³
m = 0,5 kg/m



Cap: See 20x20

20x20 3N	L (mm)	No.
1 pc	50 ... 3000	3 842 992 889 / L
20 pcs	3000	3 842 517 180

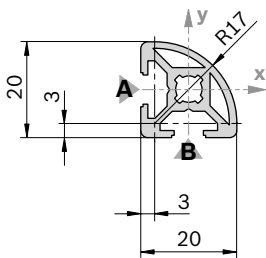
Quick & Easy (p. 2-8, see fold-out section)

20x20 3N	3 842 993 693/...
Length L (mm)	50 ... 3000
Standard profile finishes (note minimum length, p. 2-11)	M6 / D5.8 / D8 / DB8
Individual profile finishes (L _{max} = 2300 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 335 / 370 mm

20x20 R

A = 1,6 cm²
I_x = 0,6 cm⁴
I_y = 0,6 cm⁴
W_x = 0,5 cm³
W_y = 0,5 cm³
m = 0,4 kg/m



Cap	Color	ESD	No.
20x20 R (1x)	Signal gray		20 3 842 548 826
20x20 R (1x)	Black		20 3 842 548 827

Material: PP

20x20 R	L (mm)	No.
1 pc	50 ... 3000	3 842 992 890 / L
20 pcs	3000	3 842 517 183

Quick & Easy (p. 2-8, see fold-out section)

20x20 R	3 842 993 695 / ...
Length L (mm)	50 ... 3000
Standard profile finishes (note minimum length, p. 2-11)	M6
Individual profile finishes (L _{max} = 2300 mm)	—

20x40

A = 2,9 cm²

I_x = 4,6 cm⁴

I_y = 1,2 cm⁴

W_x = 2,5 cm³

W_y = 1,4 cm³

m = 0,8 kg/m

19174

Cap	Color	ESD		No.
20x20 (2x)	Signal gray		100	3 842 548 742
20x20 (2x)	Black		20	3 842 548 743
Material:		PP		

20x60

A = 3,5 cm²

I_x = 14,2 cm⁴

I_y = 1,7 cm⁴

W_x = 4,7 cm³

W_y = 1,7 cm³

m = 0,9 kg/m

19175

Cap	Color	ESD		No.
20x60 (1x)	Signal gray		20	3 842 548 828
20x60 (1x)	Black		20	3 842 548 829
Material:		PP		

20x40x40

A = 4,2 cm²

I_x = 6,0 cm⁴

I_y = 6,0 cm⁴

W_x = 2,6 cm³

W_y = 2,6 cm³

m = 1,1 kg/m

19176

Cap	Color	ESD		No.
20x20 (3x)	Signal gray		100	3 842 548 742
20x20 (3x)	Black		20	3 842 548 743
Material:		PP		

20x40		L (mm)	No.
1 pc		50 ... 3000	3 842 992 891 / L
1 pc	D8	50 ... 3000	3 842 993 497 / L
1 pc	D8:D8	50 ... 3000	3 842 993 499 / L
1 pc	D8:D8V	50 ... 3000	3 842 993 500 / L
1 pc	D8V	50 ... 3000	3 842 993 498 / L
1 pc	D8V:D8V	50 ... 3000	3 842 993 501 / L
24 pcs		3000	3 842 537 816

Profile finishing:

D8: in slots B/F, C/E

D8V: in slots A/D

Quick & Easy
(p. 2-8, see fold-out section)

20x40	3 842 993 696 / ...
Length L (mm)	50 ... 3000
Standard profile finishes (note minimum length, p. 2-11)	M6 / D5.8 / D8 / DB8
Individual profile finishes (L _{max} = 2300 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 370 / 440 mm

20x60	L (mm)	No.
1 pc		50 ... 3000 3 842 992 992 / L
16 pcs		3000 3 842 537 819

Quick & Easy
(p. 2-8, see fold-out section)

20x60	3 842 993 698 / ...
Length L (mm)	50 ... 3000
Standard profile finishes (note minimum length, p. 2-11)	M6 / D5,8 (B,C,E,F) ¹⁾ / D8 (B,C,E,F) ¹⁾ / DB8
Individual profile finishes (L _{max} = 2300 mm)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

¹⁾ For the specified slots

²⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 404 / 508 mm

20x40x40	L (mm)	No.
1 pc		50 ... 3000 3 842 992 991 / L
16 pcs		3000 3 842 537 818

Quick & Easy
(p. 2-8, see fold-out section)

20x40x40	3 842 993 697 / ...
Length L (mm)	50 ... 3000
Standard profile finishes (note minimum length, p. 2-11)	M6 / D5.8 / D8 / DB8
Individual profile finishes (L _{max} = 2300 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

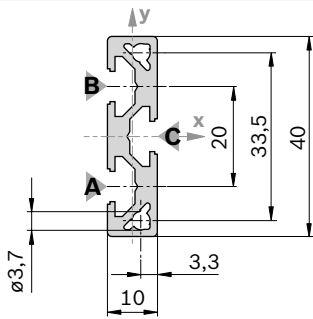
¹⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 370 / 440 mm

10x40

A = 2,1 cm²
I_x = 3,2 cm⁴
I_y = 0,2 cm⁴
W_x = 1,6 cm³
W_y = 0,4 cm³
m = 0,6 kg/m



19177



Cap	Color	ESD		No.
10x40 (1x)	Signal gray		20	3 842 548 766
10x40 (1x)	Black		20	3 842 548 767
Material:	PP			

10x40	L (mm)	No.
1 pc	50 ... 3000	3 842 993 077 / L
10 pcs	3000	3 842 526 817

Quick & Easy (p. 2-8, see fold-out section)

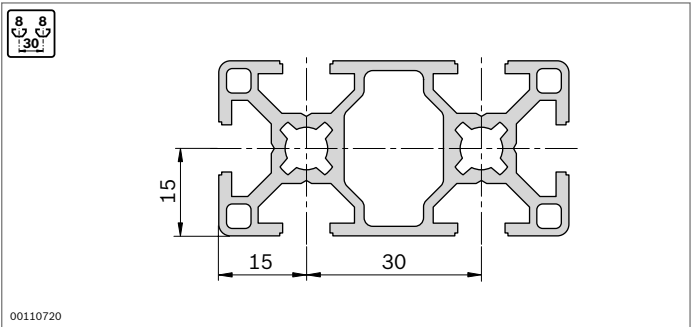
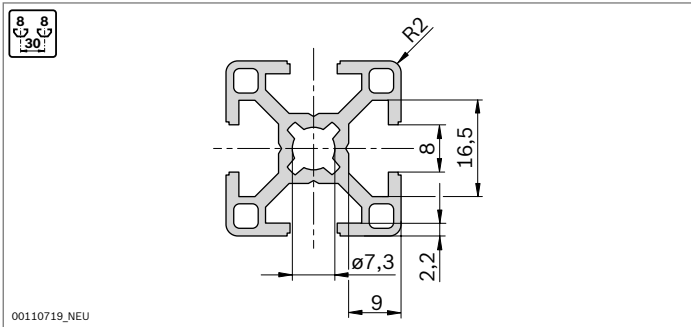
10x40	3 842 993 683 / ...
Length L (mm)	50 ... 3000
Standard profile finishes (note minimum length, p. 2-11)	D5.8/D8
Individual profile finishes	—

Strut profiles with 8 mm slot

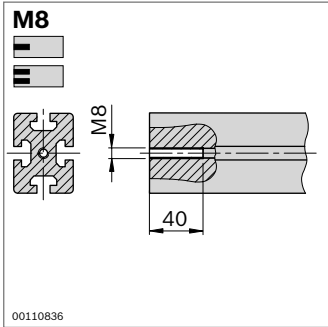
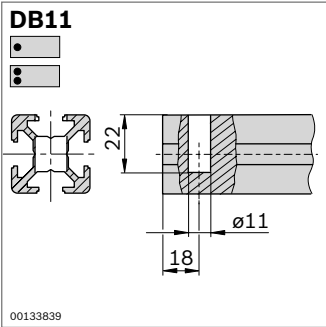
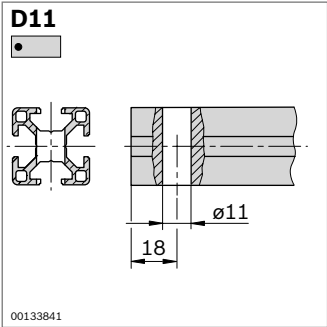
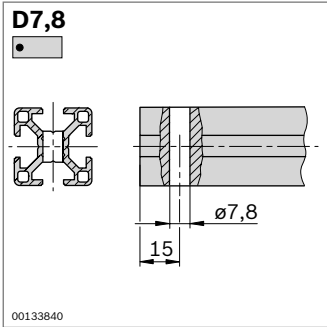
Strut profiles with a 8 mm slot are suitable for medium loads, such as material shuttles, light fixtures, frames and partition walls.

Profile 30x60x60 is suitable for constructing showcases and flow racks. Attractive covers and hoods can be designed with radius profiles.

Slot, modular dimensions, central bore



Profile finishing



Minimum profile lengths (mm) for Quick & Easy standard profile finishes on one or both sides

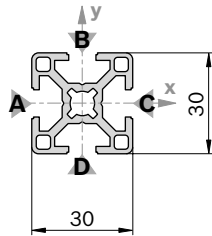
	-	M8	D7.8	D11/DB11
-	50	50	50	50
M8	50	80	62	70
D7.8	50	62	60	50
D11/DB11	50	70	50	60

30x30

$A = 3,1 \text{ cm}^2$
 $I_x = 2,8 \text{ cm}^4$
 $I_y = 2,8 \text{ cm}^4$
 $W_x = 1,8 \text{ cm}^3$
 $W_y = 1,8 \text{ cm}^3$
 $m = 0,9 \text{ kg/m}$



19178



Cap	Color	ESD	No.
30x30 (1x)	Signal gray		100 3 842 548 744
30x30 (1x)	Black		20 3 842 548 745
Material:	PP		

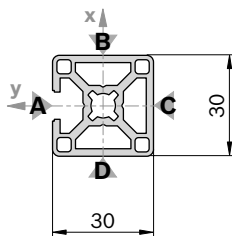
Cap with hole	Color	ESD	No.
30x30 (1x)	Signal gray		20 3 842 548 774
30x30 (1x)	Black		20 3 842 548 775
Material:	PP		

30x30 1N

$A = 3,7 \text{ cm}^2$
 $I_x = 3,1 \text{ cm}^4$
 $I_y = 3,5 \text{ cm}^4$
 $W_x = 2,0 \text{ cm}^3$
 $W_y = 2,3 \text{ cm}^3$
 $m = 1,0 \text{ kg/m}$



19179



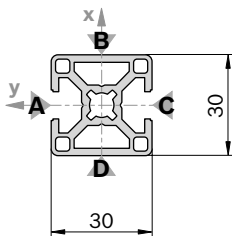
Cap: See 30x30

30x30 2N

$A = 3,7 \text{ cm}^2$
 $I_x = 3,1 \text{ cm}^4$
 $I_y = 3,5 \text{ cm}^4$
 $W_x = 2,0 \text{ cm}^3$
 $W_y = 2,3 \text{ cm}^3$
 $m = 1,0 \text{ kg/m}$



19180



Cap: See 30x30

30x30	L (mm)	No.
1 pc	50 ... 5600	3 842 990 720 / L
1 pc M8	50 ... 5600	3 842 990 721 / L
1 pc M8 M8	80 ... 5600	3 842 990 723 / L
1 pc M8 D11	70 ... 5600	3 842 990 724 / L
1 pc D7,8 D7,8	60 ... 5600	3 842 992 965 / L
1 pc D11	50 ... 5600	3 842 990 722 / L
1 pc D11 D11	60 ... 5600	3 842 990 725 / L
1 pc D11 D11V	60 ... 5600	3 842 990 726 / L
20 pcs	5600	3 842 509 178

Quick & Easy (p. 2-8, see fold-out section)

30x30	3 842 993 703 / ...
Length L (mm)	50 ... 5600
Standard profile finishes (note minimum length, p. 2-16)	M8 / D7.8 / D11 / DB11
Individual profile finishes ($L_{\max} = 4900 \text{ mm}$)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ $DG_{\max} = 45^\circ$; $L_{\min1} / L_{\min2} = 352 / 404 \text{ mm}$

30x30 1N	L (mm)	No.
1 pc	50 ... 5600	3 842 992 397 / L
20 pcs	5600	3 842 506 948

Quick & Easy (p. 2-8, see fold-out section)

30x30 1N	3 842 993 704 / ...
Length L (mm)	50 ... 5600
Standard profile finishes (note minimum length, p. 2-16)	M8 / D7.8 / D11 / DB11
Individual profile finishes ($L_{\max} = 4900 \text{ mm}$)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ $DG_{\max} = 45^\circ$; $L_{\min1} / L_{\min2} = 352 / 404 \text{ mm}$

30x30 2N	L (mm)	No.
1 pc	50 ... 5600	3 842 992 399 / L
20 pcs	5600	3 842 506 950

Quick & Easy (p. 2-8, see fold-out section)

30x30 2N	3 842 993 705 / ...
Length L (mm)	50 ... 5600
Standard profile finishes (note minimum length, p. 2-16)	M8 / D7.8 / D11 / DB11
Individual profile finishes ($L_{\max} = 4900 \text{ mm}$)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ $DG_{\max} = 45^\circ$; $L_{\min1} / L_{\min2} = 352 / 404 \text{ mm}$

30x30 2NVS

A = 3,5 cm²

$I_x = 3,1 \text{ cm}^4$

$I_y = 3,1 \text{ cm}^4$

$W_x = 2,0 \text{ cm}^3$

$W_y = 2,0 \text{ cm}^3$

$m = 1,0 \text{ kg/m}$

19181

Cap: See 30x30

30x30 3N

A = 3,3 cm²

$I_x = 3,1 \text{ cm}^4$

$I_y = 2,8 \text{ cm}^4$

$W_x = 2,3 \text{ cm}^3$

$W_y = 2,1 \text{ cm}^3$

$m = 0,9 \text{ kg/m}$

19182

Cap: See 30x30

30x30°

A = 3,7 cm²

$I_x = 3,5 \text{ cm}^4$

$I_y = 3,6 \text{ cm}^4$

$W_x = 2,0 \text{ cm}^3$

$W_y = 1,9 \text{ cm}^3$

$m = 1,0 \text{ kg/m}$

19183

Cap	Color	ESD		No.
30x30° (1x)	Black		20	3 842 524 050
Material:	PA			

30x30 2NVS		L (mm)	No.
1 pc		50 ... 5600	3 842 992 398 / L
 20 pcs		5600	3 842 506 949

Quick & Easy (p. 2-8, see fold-out section)

30x30 2NVS	3 842 993 706 / ...
Length L (mm)	50 ... 5600
Standard profile finishes (note minimum length, p. 2-16)	M8 / D7.8 / D11 / DB11
Individual profile finishes (L _{max} = 4900 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 352 / 404 mm

30x30 3N		L (mm)	No.
1 pc		50 ... 5600	3 842 992 400 / L
 20 pcs		5600	3 842 506 951

Quick & Easy (p. 2-8, see fold-out section)

30x30 3N	3 842 993 707 / ...
Length L (mm)	50 ... 5600
Standard profile finishes (note minimum length, p. 2-16)	M8 / D7.8 / D11 / DB11
Individual profile finishes (L _{max} = 4900 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 352 / 404 mm

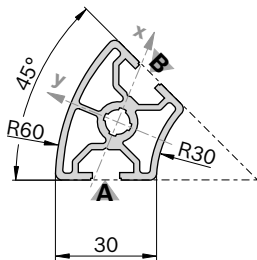
30x30°		L (mm)	No.
1 pc		50 ... 5600	3 842 993 010 / L
 20 pcs		5600	3 842 524 031

Quick & Easy (p. 2-8, see fold-out section)

30x30°	3 842 993 708 / ...
Length L (mm)	50 ... 5600
Standard profile finishes (note minimum length, p. 2-16)	M8
Individual profile finishes	—

30x45°

A = 4,0 cm²
I_x = 3,6 cm⁴
I_y = 5,1 cm⁴
W_x = 2,1 cm³
W_y = 2,3 cm³
m = 1,1 kg/m

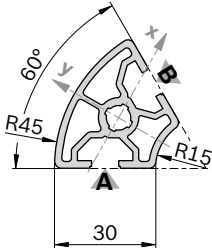


19184

Cap	Color	ESD	No.
30x45° (1x)	Black	20	3 842 524 051
Material:		PA	

30x60°

A = 3,6 cm²
I_x = 3,0 cm⁴
I_y = 4,1 cm⁴
W_x = 1,7 cm³
W_y = 1,9 cm³
m = 1,0 kg/m

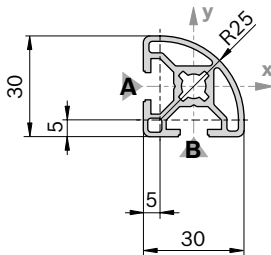


19185

30x30 R

3842517248

A = 2,9 cm²
I_x = 2,3 cm⁴
I_y = 2,3 cm⁴
W_x = 1,4 cm³
W_y = 1,4 cm³
m = 0,8 kg/m



19186

Cap	Color	ESD	No.
30x30 R (1x)	Signal gray	20	3 842 548 776
30x30 R (1x)	Black	20	3 842 548 777
Material:		PP	

30x45°	L (mm)	No.
1 pc	50 ... 5600	3 842 993 011 / L
20 pcs	5600	3 842 524 034

Quick & Easy (p. 2-8, see fold-out section)

30x45°	3 842 993 711 / ...
Length L (mm)	50 ... 5600
Standard profile finishes (note minimum length, p. 2-16)	M8
Individual profile finishes	—

30x60°	L (mm)	No.
1 pc	50 ... 5600	3 842 993 012 / L
20 pcs	5600	3 842 524 037

Quick & Easy (p. 2-8, see fold-out section)

30x60°	3 842 993 714 / ...
Length L (mm)	50 ... 5600
Standard profile finishes (note minimum length, p. 2-16)	M8
Individual profile finishes	—

30x30 R	L (mm)	No.
1 pc	50 ... 5600	3 842 992 896 / L
20 pcs	5600	3 842 517 198

Quick & Easy (p. 2-8, see fold-out section)

30x30 R	3 842 993 709 / ...
Length L (mm)	50 ... 5600
Standard profile finishes (note minimum length, p. 2-15)	M8 / DB11
Individual profile finishes	—

30x60

A = 5,5 cm²

$I_x = 19,6 \text{ cm}^4$

$I_y = 5,1 \text{ cm}^4$

$W_x = 7,0 \text{ cm}^3$

$W_y = 3,9 \text{ cm}^3$

m = 1,5 kg/m

19187

Cap	Color	ESD	No.
30x30 (2x)	Signal gray	100	3 842 548 744
30x60 (1x)	Signal gray	20	3 842 548 780
30x30 (2x)	Black	20	3 842 548 745
30x60 (1x)	Black	20	3 842 548 781
Material:	PP		

Cap with hole	Color	ESD	No.
30x30 (2x)	Signal gray	20	3 842 548 774
30x30 (2x)	Black	20	3 842 548 775
Material:	PP		

30x60 4N

A = 5,8 cm²

$I_x = 20,2 \text{ cm}^4$

$I_y = 5,5 \text{ cm}^4$

$W_x = 6,7 \text{ cm}^3$

$W_y = 3,8 \text{ cm}^3$

m = 1,6 kg/m

19188

Cap: See 30x60

30x60x60

A = 8,2 cm²

$I_x = 26,2 \text{ cm}^4$

$I_y = 26,2 \text{ cm}^4$

$W_x = 7,6 \text{ cm}^3$

$W_y = 7,6 \text{ cm}^3$

m = 2,2 kg/m

19189

Cap	Color	ESD	No.
30x30 (3x)	Signal gray	100	3 842 548 744
30x30 (3x)	Black	20	3 842 548 745
Material:	PP		

30x60	L (mm)	No.
1 pc	50 ... 5600	3 842 992 457 / L
1 pc M8	50 ... 5600	3 842 992 458 / L
1 pc M8 M8	80 ... 5600	3 842 992 926 / L
1 pc D11	50 ... 5600	3 842 992 459 / L
1 pc D11 D11	60 ... 5600	3 842 992 460 / L
1 pc D11 D11V	60 ... 5600	3 842 992 463 / L
1 pc D11V D11V	60 ... 5600	3 842 992 462 / L
10 pcs	5600	3 842 512 603

Profile finishing:

M8: in all core holes
 D11: in slots B/F, C/E
 D11V: in slots A/D

Quick & Easy (p. 2-8, see fold-out section)

30x60	3 842 993 712 / ...
Length L (mm)	50 ... 5600
Standard profile finishes (note minimum length, p. 2-16)	M8 / D7.8 / D11 / DB11
Individual profile finishes (L _{max} = 4900 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

1) DG_{max} = 45°; L_{min1} / L_{min2} = 404 / 508 mm

30x60 4N	L (mm)	No.
1 pc	50 ... 6000	3 842 993 420 / L
10 pcs	6070	3 842 536 472

Quick & Easy (p. 2-8, see fold-out section)

30x60 4N	3 842 993 713 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p. 2-16)	M8 / D7.8 / D11 / DB11
Individual profile finishes (L _{max} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

1) DG_{max} = 45°; L_{min1} / L_{min2} = 404 / 508 mm

30x60x60	L (mm)	No.
1 pc	50 ... 5600	3 842 993 016 / L
20 pcs	5600	3 842 524 049

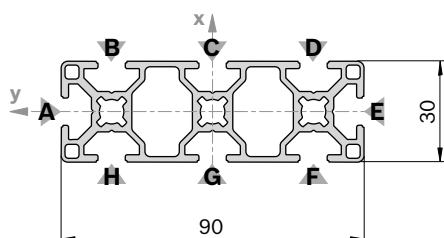
Quick & Easy (p. 2-8, see fold-out section)

30x60x60	3 842 993 715 / ...
Length L (mm)	50 ... 5600
Standard profile finishes (note minimum length, p. 2-16)	M8 / D7.8 / D11 / DB11
Individual profile finishes (L _{max} = 4900 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

1) DG_{max} = 45°; L_{min1} / L_{min2} = 404 / 508 mm

30x90

$A = 7,7 \text{ cm}^2$
 $I_x = 60,7 \text{ cm}^4$
 $I_y = 7,3 \text{ cm}^4$
 $W_x = 13,5 \text{ cm}^3$
 $W_y = 4,9 \text{ cm}^3$
 $m = 2,1 \text{ kg/m}$



19190

Cap	Color	ESD	No.
30x30 (3x)	Signal gray	100	3 842 548 744
30x30 (3x)	Black	20	3 842 548 745

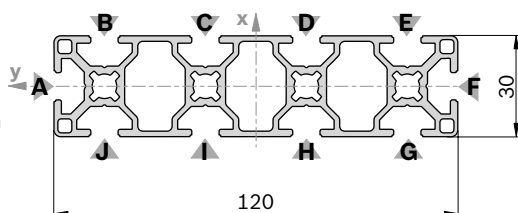
Material: PP

Cap with hole	Color	ESD	No.
30x30 (3x)	Signal gray	20	3 842 548 774
30x30 (3x)	Black	20	3 842 548 775

Material: PP

30x120

$A = 9,9 \text{ cm}^2$
 $I_x = 136,3 \text{ cm}^4$
 $I_y = 9,6 \text{ cm}^4$
 $W_x = 22,7 \text{ cm}^3$
 $W_y = 6,4 \text{ cm}^3$
 $m = 2,7 \text{ kg/m}$



19191

Cap	Color	ESD	No.
30x30 (4x)	Signal gray	100	3 842 548 744
30x60 (2x)	Signal gray	20	3 842 548 780
30x30 (4x)	Black	20	3 842 548 745
30x60 (2x)	Black	20	3 842 548 781

Material: PP

Cap with hole	Color	ESD	No.
30x30 (4x)	Signal gray	20	3 842 548 774
30x30 (4x)	Black	20	3 842 548 775

Material: PP

30x90	L (mm)	No.
20 pcs	6070	3 842 541 937

Quick & Easy (p. 2-8, see fold-out section)

30x90	3 842 993 762 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p. 2-16)	M8 / D7,8 (B,C,D,F,G,H) ¹⁾ / D11 (B,C,D,F,G,H) ¹⁾ / DB11
Individual profile finishes (L _{max} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

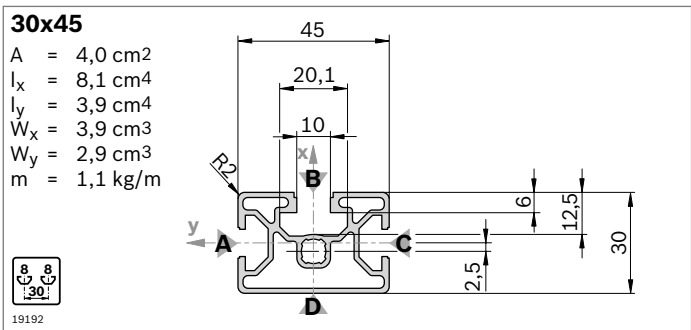
¹⁾ For the specified slots²⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 150 / 150 mm

30x120	L (mm)	No.
20 pcs	6070	3 842 541 939

Quick & Easy (p. 2-8, see fold-out section)

30x120	3 842 993 763 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p. 2-16)	M8 / D7,8 (B,C,D,E, G,H,I,J) ¹⁾ / D11 (B,C,D,E, G,H,I,J) ¹⁾ / DB11
Individual profile finishes (L _{max} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

¹⁾ For the specified slots²⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 150 / 150 mm

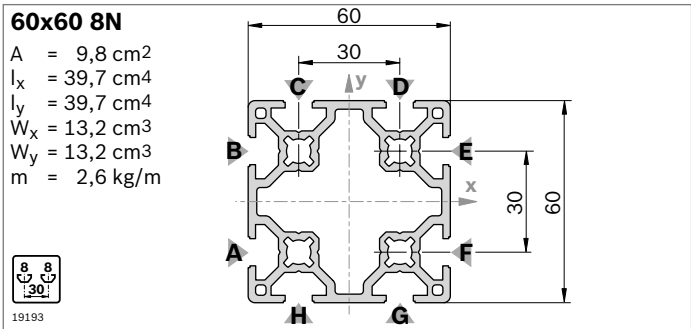


Cap	Color	ESD	No.
30x45 (1x)	Signal gray		20 3 842 548 778
30x45 (1x)	Black		20 3 842 548 779

Material: PP

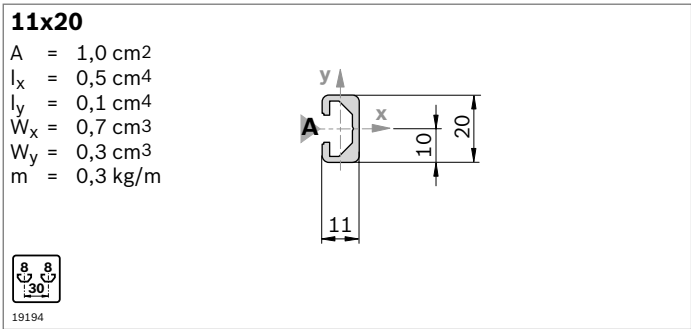
Cap with hole	Color	ESD	No.
30x45 (1x)	Black		20 3 842 531 220

Material: PA



Cap	Color	ESD	No.
60x60 8N (1x)	Light gray		20 3 842 535 586

Material: PA



Cap	Color	ESD	No.
11x20 (1x)	Black		20 3 842 513 584

Material: PA

30x45	L (mm)	No.
1 pc	50 ... 5600	3 842 992 430 / L
1 pc M8	50 ... 5600	3 842 992 431 / L
18 pcs	5600	3 842 511 704

Quick & Easy (p. 2-8, see fold-out section)

30x45	3 842 993 710 / ...
Length L (mm)	50 ... 5600
Standard profile finishes (note minimum length, p. 2-16)	M8 / D7,8 (A,C) ¹⁾ / D9,8 (B) ¹⁾ / D11 (A,C) ¹⁾ / DB11 / D17 (B) ¹⁾
Individual profile finishes (L _{max} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

¹⁾ For the specified slots

²⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 378 / 456 mm

60x60 8N	L (mm)	No.
1 pc	50 ... 6000	3 842 993 033 / L
20 pcs	6070	3 842 535 176

Quick & Easy (p. 2-8, see fold-out section)

60x60 8N	3 842 993 669 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p. 2-16)	M8 / D7.8 / D11 / DB11
Individual profile finishes (L _{max} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

²⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 404 / 508 mm

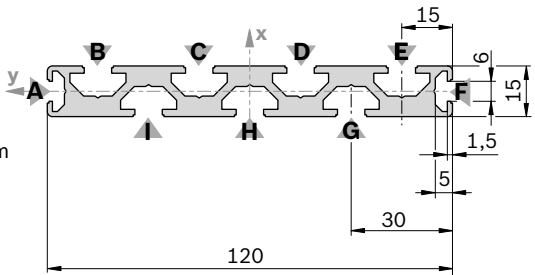
11x20	L (mm)	No.
1 pc	50 ... 2000	3 842 992 476 / L
10 pcs	2000	3 842 513 581

Quick & Easy (p. 2-8, see fold-out section)

11x20	3 842 993 688 / ...
Length L (mm)	50 ... 2000
Standard profile finishes (note minimum length, p. 2-16)	D7.8 / D11
Individual profile finishes	—

15x120

A = 9,0 cm²
I_x = 110,4 cm⁴
I_y = 2,2 cm⁴
W_x = 18,4 cm³
W_y = 2,7 cm³
m = 2,4 kg/m



Cap	Color	ESD		No.
15x120 (1x)	Signal gray		20	3 842 548 768
15x120 (1x)	Black		20	3 842 548 769

Material: PP

15x120	L (mm)	No.
1 pc	50 ... 3000	3 842 993 078 / L
10 pcs	3000	3 842 537 821

Quick & Easy (p. 2-8, see fold-out section)

15x120	3 842 993 684 / ...
Length L (mm)	80 ... 3000
Standard profile finishes (note minimum length, p. 2-16)	D7,8 (B,C,D,E,G,H,I) ¹⁾ / D11 (B,C,D,E,G,H,I) ¹⁾
Individual profile finishes (L _{max} = 2300 mm)	DI / DIS / MT / MTS / MI / MIS

¹⁾ For the specified slots

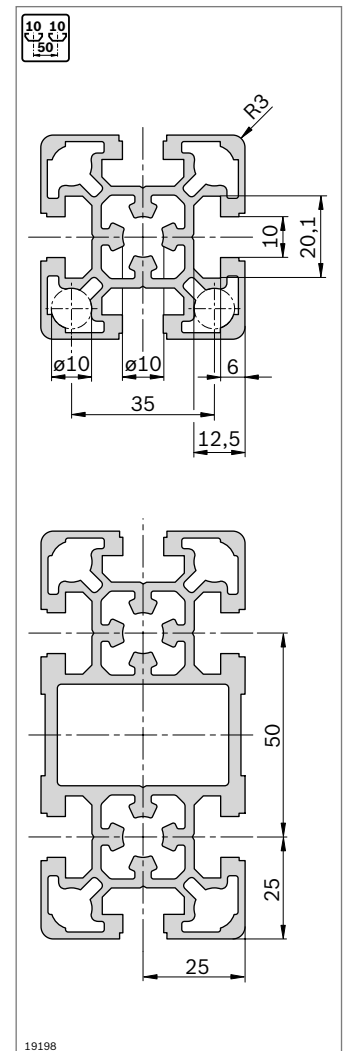
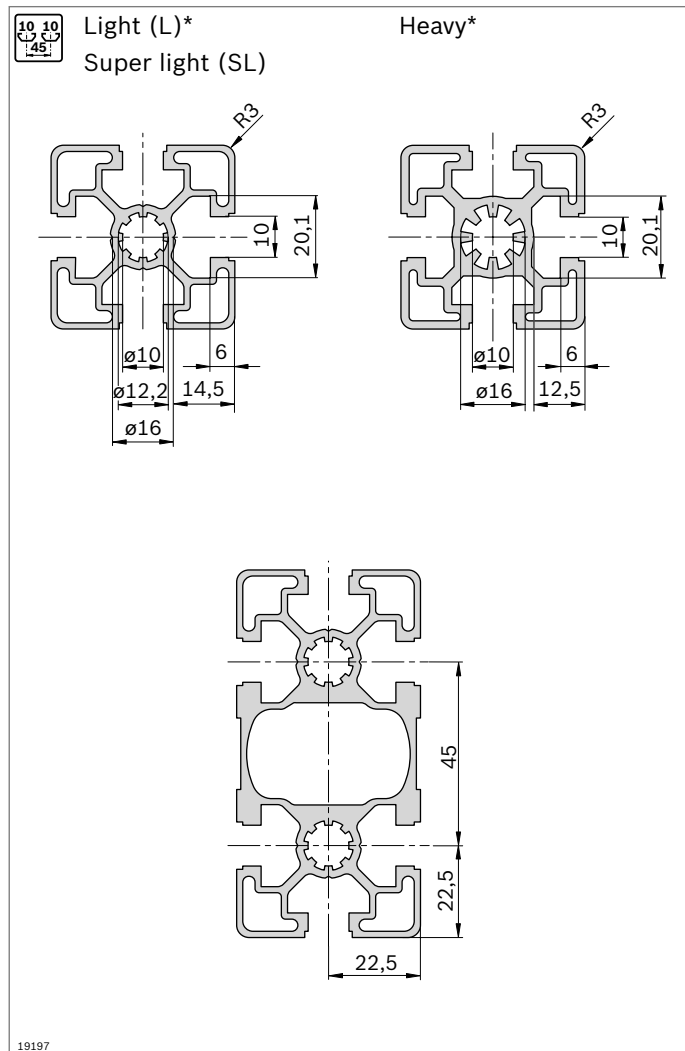
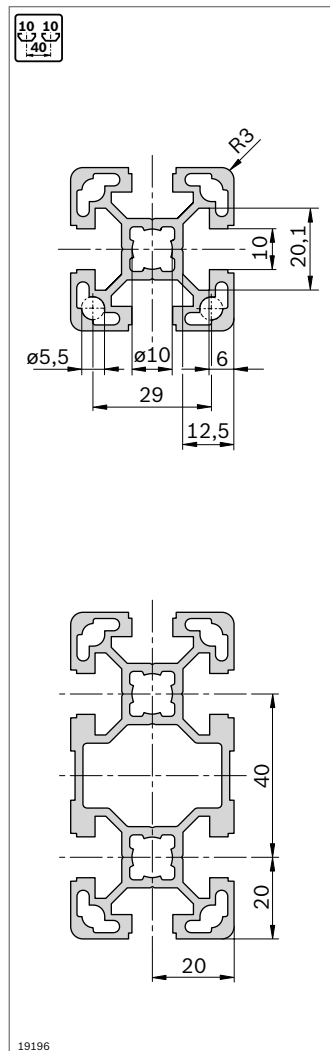
Strut profiles with 10 mm slot

The Rexroth modular profile system, with 10 mm slots in the modular dimensions 40 mm, 45 mm, 50 mm, and 60 mm, covers all conventional profile dimensions on the world market.

Thanks to their computer-optimized design, the strut profiles L with 10 mm slot (modular dimensions 40 mm, 45 mm, and

50 mm, e.g. 50x50L) combine high strengths with minimum use of materials. This gives you a cost-effective and stable solution for the construction of tables, protective enclosures or frames, for instance.

Slot, modular dimensions, central bore



*) The following L-profiles have a "heavy" slot geometry:
45x90x90L; 45x90x90L 4N; 90x90L; 90x90L 4N; 90x90L 4NVS; 90x180L

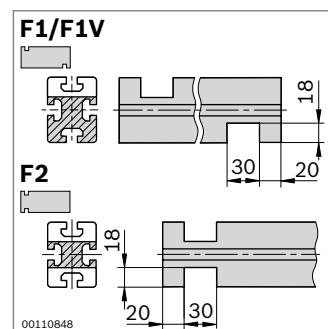
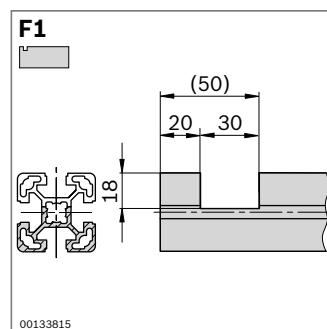
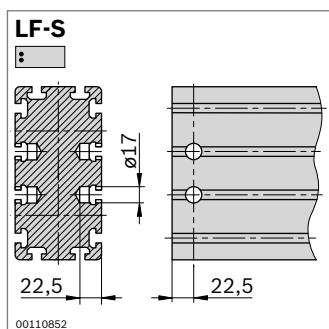
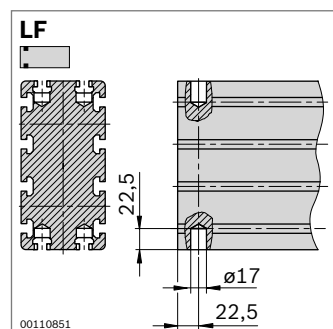
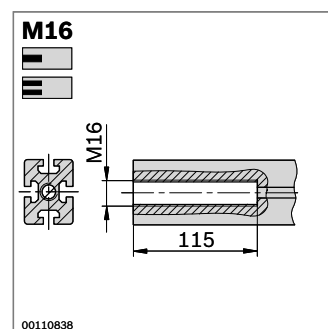
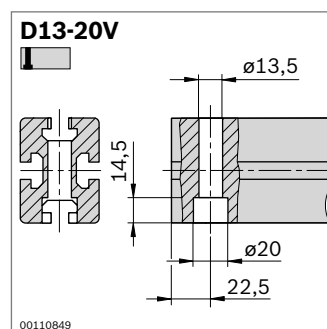
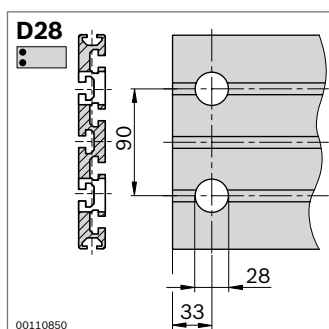
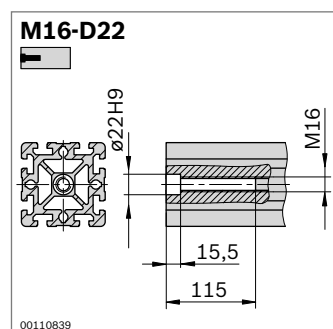
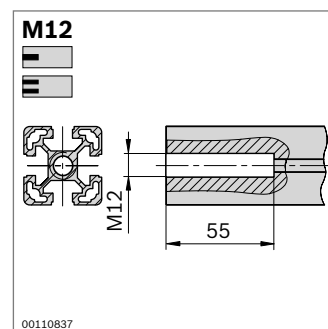
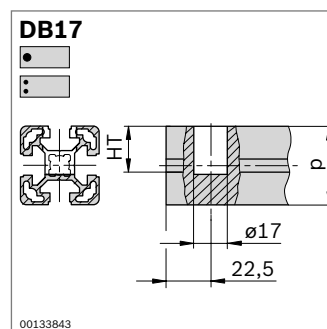
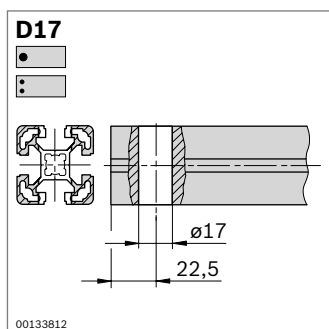
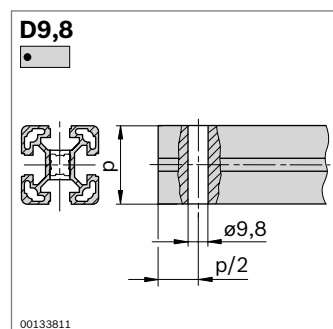
Minimum profile lengths (mm) for Quick & Easy standard profile finishes on one or both sides

	-	M12	M16	D9.8	D17/DB17	F1
-	50	60	120	50	60	60
M12	60	110	180	90	90	110
M16	120	180	240	150	170	170
D9.8	50	90	150	80	70	90
D17/DB17	60	90	170	70	80	90
F1	60	110	170	90	90	80

For applications with high loads, we recommend especially stable profiles with 10 mm slots, e.g. for heavy work tables, fixtures, machine frames, transport shuttles, protective enclosures, and handling systems.

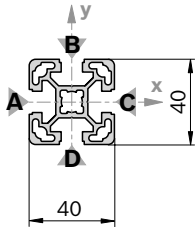
Due to its very sturdy design, this slot allows maximum strength connections.

Profile finishing



40x40L

A = 5,6 cm²
I_x = 9,1 cm⁴
I_y = 9,1 cm⁴
W_x = 4,5 cm³
W_y = 4,5 cm³
m = 1,5 kg/m

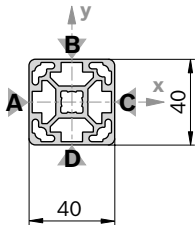


Cap	Color	ESD	No.
40x40 (1x)	Signal gray		100 3 842 548 746
40x40 (1x)	Black		20 3 842 548 747
Material:	PP		

Cap with hole	Color	ESD	No.
40x40 (1x)	Signal gray		20 3 842 548 782
40x40 (1x)	Black		20 3 842 548 783
Material:	PP		

40x40L 0N

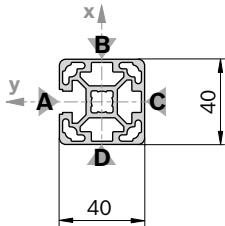
A = 6,3 cm²
I_x = 10,4 cm⁴
I_y = 10,4 cm⁴
W_x = 5,2 cm³
W_y = 5,2 cm³
m = 1,7 kg/m



Cap: See 40x40

40x40L 1N

A = 5,6 cm²
I_x = 9,0 cm⁴
I_y = 9,0 cm⁴
W_x = 4,5 cm³
W_y = 4,5 cm³
m = 1,5 kg/m



Cap: See 40x40

40x40L	L (mm)	No.
1 pc	50 ... 6000	3 842 993 120 / L
1 pc M12	60 ... 6000	3 842 993 121 / L
1 pc M12 M12	110 ... 6000	3 842 993 122 / L
1 pc M12 D17	90 ... 6000	3 842 993 123 / L
1 pc D17	50 ... 6000	3 842 993 124 / L
1 pc D17 D17	80 ... 6000	3 842 993 125 / L
1 pc D17 D17V	80 ... 6000	3 842 993 126 / L
1 pc D9,8 D9,8	80 ... 6000	3 842 993 129 / L
20 pcs	6070	3 842 529 339

Quick & Easy (p. 2-8, see fold-out section)

40x40L	3 842 993 724 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p. 2-25)	M12 / D9,8 / D17 / DB17 / F1 (A) ¹⁾
Individual profile finishes (L _{max} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

¹⁾ For the specified slots

²⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 370 / 440 mm

40x40L 0N	L (mm)	No.
20 pcs	6070	3 842 540 954

Quick & Easy (p. 2-8, see fold-out section)

40x40L 0N	3 842 993 760 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p. 2-25)	M12 / D9,8 / D17 / DB17
Individual profile finishes (L _{max} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 370 / 440 mm

40x40L 1N	L (mm)	No.
1 pc	50 ... 6000	3 842 993 185 / L
1 pc M12 M12	110 ... 6000	3 842 993 186 / L
20 pcs	6070	3 842 529 361

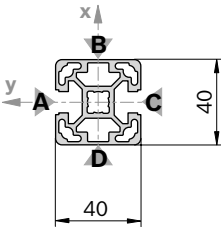
Quick & Easy (p. 2-8, see fold-out section)

40x40L 1N	3 842 993 719 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p. 2-25)	M12 / D9,8 / D17 / DB17
Individual profile finishes (L _{max} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 370 / 440 mm

40x40L 2N

A = 6,0 cm²
I_x = 9,0 cm⁴
I_y = 10,3 cm⁴
W_x = 4,5 cm³
W_y = 5,2 cm³
m = 1,6 kg/m





Cap: See 40x40

40x40L 2N		L (mm)	No.
1 pc		50 ... 6000	3 842 993 187 / L
1 pc	M12  M12	110 ... 6000	3 842 993 188 / L
 20 pcs		6070	3 842 529 363

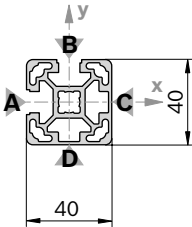
Quick & Easy (p. 2-8, see fold-out section)

40x40L 2N	3 842 993 720 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Individual profile finishes (L _{max} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 370 / 440 mm

40x40L 2NVS

A = 6,0 cm²
I_x = 9,7 cm⁴
I_y = 9,7 cm⁴
W_x = 4,9 cm³
W_y = 4,9 cm³
m = 1,6 kg/m





Cap: See 40x40

40x40L 2NVS		L (mm)	No.
1 pc		50 ... 6000	3 842 993 189 / L
1 pc	M12  M12	110 ... 6000	3 842 993 190 / L
 20 pcs		6070	3 842 529 365

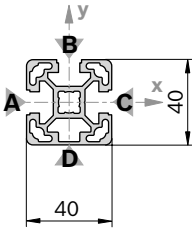
Quick & Easy (p. 2-8, see fold-out section)

40x40L 2NVS	3 842 993 721 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Individual profile finishes (L _{max} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 370 / 440 mm

40x40L 3N

A = 5,8 cm²
I_x = 9,7 cm⁴
I_y = 9,0 cm⁴
W_x = 4,8 cm³
W_y = 4,5 cm³
m = 1,6 kg/m





Cap: See 40x40

40x40L 3N		L (mm)	No.
1 pc		50 ... 6000	3 842 993 191 / L
1 pc	M12  M12	110 ... 6000	3 842 993 192 / L
 20 pcs		6070	3 842 529 367

Quick & Easy (p. 2-8, see fold-out section)

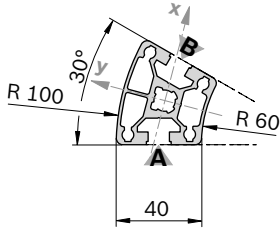
40x40L 3N	3 842 993 722 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Individual profile finishes (L _{max} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 370 / 440 mm

Bosch Rexroth AG, 3 842 540 392 (2015-09)

40x30°

A = 6,2 cm²
I_x = 9,4 cm⁴
I_y = 11,8 cm⁴
W_x = 4,7 cm³
W_y = 5,9 cm³
m = 1,7 kg/m

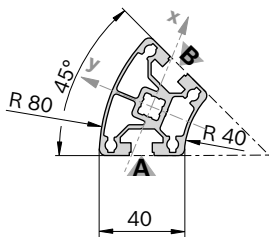


19205

Cap	Color	ESD	No.
40x30° (1x)	Black		20 3 842 529 049
Material:	PA		

40x45°

A = 6,8 cm²
I_x = 9,9 cm⁴
I_y = 16,6 cm⁴
W_x = 5,0 cm³
W_y = 8,3 cm³
m = 1,8 kg/m

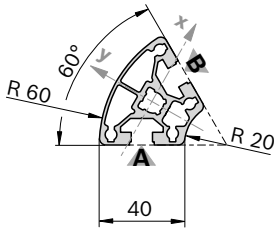


19206

Cap	Color	ESD	No.
45x45° (1x)	Black		20 3 842 529 050
Material:	PA		

40x60°

A = 6,3 cm²
I_x = 8,7 cm⁴
I_y = 13,1 cm⁴
W_x = 4,3 cm³
W_y = 6,5 cm³
m = 1,7 kg/m



19207

Cap	Color	ESD	No.
40x60° (1x)	Black		20 3 842 529 051
Material:	PA		

40x30°	L (mm)	No.
1 pc	50 ... 6000	3 842 993 195 / L
12 pcs	6070	3 842 529 371

Quick & Easy (p. 2-8, see fold-out section)

40x30°	3 842 993 718 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p. 2-25)	M12
Individual profile finishes	—

40x45°	L (mm)	No.
1 pc	50 ... 6000	3 842 993 197 / L
12 pcs	6070	3 842 529 373

Quick & Easy (p. 2-8, see fold-out section)

40x45°	3 842 993 726 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p. 2-25)	M12
Individual profile finishes	—

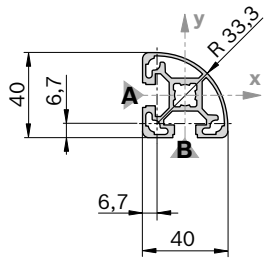
40x60°	L (mm)	No.
1 pc	50 ... 6000	3 842 993 198 / L
12 pcs	6070	3 842 529 375

Quick & Easy (p. 2-8, see fold-out section)

40x60°	3 842 993 727 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p. 2-25)	M12
Individual profile finishes	—

40x40L R

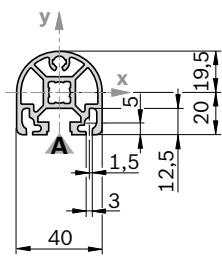
A = 5,0 cm²
I_x = 7,2 cm⁴
I_y = 7,2 cm⁴
W_x = 3,6 cm³
W_y = 3,6 cm³
m = 1,3 kg/m



Cap	Color	ESD		No.
40x40 R (1x)	Signal gray		20	3 842 548 784
40x40 R (1x)	Black		20	3 842 548 785
Material:		PP		

40x40 HR

A = 5,5 cm²
I_x = 8,1 cm⁴
I_y = 7,6 cm⁴
W_x = 4,0 cm³
W_y = 3,6 cm³
m = 1,5 kg/m



Cap	Color	ESD		No.
40x40 HR (1x)	Signal gray		20	3 842 548 786
40x40 HR (1x)	Black		20	3 842 548 787
Material:		PP		

Cap with hole ¹⁾	Color	ESD		No.
40x40 HR (1x)	Signal gray		20	3 842 548 786
40x40 HR (1x)	Black		20	3 842 548 787
Material:		PP		

¹⁾ The cover cap is also suitable for use with a hole, which can be broken out

40x40L R	L (mm)	No.
1 pc	50 ... 6000	3 842 993 184 / L
20 pcs	6070	3 842 529 359

Quick & Easy (p. 2-8, see fold-out section)	
40x40L R	3 842 993 725 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p. 2-25)	M12 / DB17 (A,B) ¹⁾
Individual profile finishes	—

¹⁾ For the specified slots

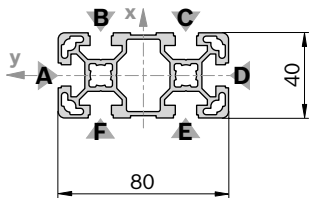
40x40 HR	L (mm)	No.
1 pc	50 ... 6000	3 842 993 256 / L
1 pc M12 M12	110 ... 6000	3 842 993 257 / L
20 pcs	6070	3 842 529 381

Quick & Easy (p. 2-8, see fold-out section)	
40x40 HR	3 842 993 723 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p. 2-25)	M12 / DB17
Individual profile finishes (L _{max} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 370 / 440 mm

40x80L

A = 9,9 cm²
I_x = 63,4 cm⁴
I_y = 17,3 cm⁴
W_x = 15,9 cm³
W_y = 8,7 cm³
m = 2,7 kg/m



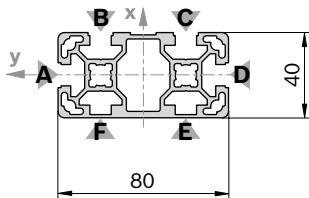
19210

Cover cap	Color	ESD	No.
40x80 (1x)	Signal gray		20 3 842 548 748
40x80 (1x)	Black		20 3 842 548 749
Material:	PP		

Cap with hole	Color	ESD	No.
40x80 (1x)	Signal gray		20 3 842 548 788
40x80 (1x)	Black		20 3 842 548 789
Material:	PP		

40x80L 4N

A = 10,4 cm²
I_x = 65,2 cm⁴
I_y = 19,1 cm⁴
W_x = 16,3 cm³
W_y = 9,9 cm³
m = 2,8 kg/m



19211

Cap: See 40x80

40x80L	L (mm)	No.
1 pc	50 ... 6000	3 842 993 130 / L
1 pc M12	60 ... 6000	3 842 993 131 / L
1 pc M12 M12	110... 6000	3 842 993 132 / L
1 pc D17 D17	80 ... 6000	3 842 993 135 / L
1 pc D17 D17V	80 ... 6000	3 842 993 136 / L
1 pc D17V	60 ... 6000	3 842 993 137 / L
1 pc D17V D17V	80 ... 6000	3 842 993 138 / L
12 pcs	6070	3 842 529 341

Profile finishing:
M12: In all central holes
D17: in slots B/F, C/E
D17V: in slots A/D

Quick & Easy (p. 2-8, see fold-out section)

40x80L	3 842 993 728 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17 / F1 (A,D) ¹⁾
Individual profile finishes (L _{max} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

¹⁾ For the specified slots
²⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 439 / 578 mm

40x80L 4N	L (mm)	No.
1 pc	50 ... 6000	3 842 993 424 / L
12 pcs	6070	3 842 536 484

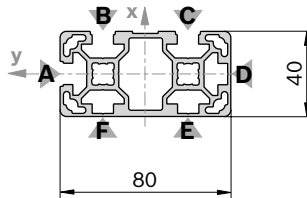
Quick & Easy (p. 2-8, see fold-out section)

40x80L 4N	3 842 993 729 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17 / F1 (A,D) ¹⁾
Individual profile finishes (L _{max} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

¹⁾ For the specified slots
²⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 439 / 578 mm

40x80L 3NVS

$A = 10,6 \text{ cm}^2$
 $I_x = 67,8 \text{ cm}^4$
 $I_y = 19,0 \text{ cm}^4$
 $W_x = 17,0 \text{ cm}^3$
 $W_y = 9,5 \text{ cm}^3$
 $m = 2,9 \text{ kg/m}$



19212

Cap: see 40x80

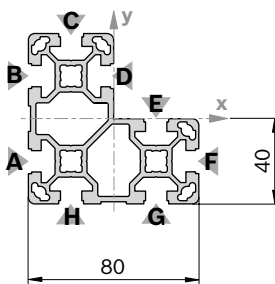
40x80L 3NVS		L (mm)	No.
1 pc		50 ... 6000	3 842 993 654 / L
12 pcs		6070	3 842 538 330

Quick & Easy (p. 2-8, see fold-out section)

40x80L 3NVS	3 842 993 753 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Individual profile finishes ($L_{\max} = 5400 \text{ mm}$)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ $DG_{\max} = 45^\circ$; $L_{\min 1} / L_{\min 2} = 439 / 578 \text{ mm}$ **40x80x80L**

$A = 15,4 \text{ cm}^2$
 $I_x = 96,6 \text{ cm}^4$
 $I_y = 96,6 \text{ cm}^4$
 $W_x = 24,2 \text{ cm}^3$
 $W_y = 24,2 \text{ cm}^3$
 $m = 4,2 \text{ kg/m}$



19213

Cap	Color	ESD		No.
40x80x80 (1x)	Signal gray		20	3 842 548 790
40x80x80 (1x)	Black		20	3 842 849 791

Material: PP

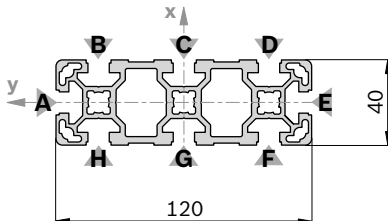
40x80x80L	L (mm)	No.
1 pc		50 ... 6000 3 842 993 193 / L
8 pcs		6070 3 842 537 827

Quick & Easy (p. 2-8, see fold-out section)

40x80x80L	3 842 993 730 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Individual profile finishes ($L_{\max} = 5400 \text{ mm}$)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ $DG_{\max} = 45^\circ$; $L_{\min 1} / L_{\min 2} = 439 / 578 \text{ mm}$ **40x120L**

$A = 15,5 \text{ cm}^2$
 $I_x = 203,2 \text{ cm}^4$
 $I_y = 27,8 \text{ cm}^4$
 $W_x = 33,9 \text{ cm}^3$
 $W_y = 13,9 \text{ cm}^3$
 $m = 4,2 \text{ kg/m}$



19214

Cap	Color	ESD		No.
40x40 (1x)	Signal gray		100	3 842 548 746
40x80 (1x)	Signal gray		20	3 842 548 748
40x40 (1x)	Black		20	3 842 548 747
40x80 (1x)	Black		20	3 842 548 749

Material: PP

Notice:

For the 40x120L profile you require the following combination of cover caps: 1x 40x40 and 1x 40x80

40x120L	L (mm)	No.
1 pc		50 ... 6000 3 842 993 139 / L
1 pc M12		60 ... 6000 3 842 993 140 / L
1 pc M12		110 ... 6000 3 842 993 141 / L
1 pc D17		80 ... 6000 3 842 993 142 / L
1 pc D17V		90 ... 6000 3 842 993 225 / L
8 pcs		6070 3 842 537 824

Profile finishing:

M12: in all central holes

D17: in slots B/H, C/G, D/F

D17V: in slots A/E

Quick & Easy (p. 2-8, see fold-out section)

40x120L	3 842 993 716 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p.	M12 / D9.8 (B,C,D,F, G,H) ¹⁾ / D17 (B,C,D,F, G,H) ¹⁾ / DB17 / F1 (A,E) ¹⁾
Individual profile finishes ($L_{\max} = 5400 \text{ mm}$)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

¹⁾ For the specified slots²⁾ $DG_{\max} = 45^\circ$; $L_{\min 1} / L_{\min 2} = 439 / 578 \text{ mm}$

40x160L

A = 20,5 cm²

I_x = 466,7 cm⁴

I_y = 37,2 cm⁴

W_x = 58,3 cm³

W_y = 18,6 cm³

m = 5,5 kg/m

10 10

40

19215

Cap	Color	ESD		No.
40x80 (2x)	Signal gray		20	3 842 548 748
40x80 (2x)	Black		20	3 842 548 749

Material:
PP

80x80L

A = 18,2 cm²

I_x = 132,1 cm⁴

I_y = 132,1 cm⁴

W_x = 33,0 cm³

W_y = 33,0 cm³

m = 4,9 kg/m

10 10

40

19216

Cap	Color	ESD		No.
80x80 (1x)	Signal gray		20	3 842 548 750
80x80 (1x)	Black		20	3 842 548 751

Material:
PP

40x160L		L (mm)	No.
1 pc		50 ... 6000	3 842 993 143 / L
1 pc	M12	60 ... 6000	3 842 993 144 / L
1 pc	M12 M12	110 ... 6000	3 842 993 145 / L
1 pc	D17 D17	80 ... 6000	3 842 993 146 / L
6 pcs		6070	3 842 529 345

Profile finishing:
M12: in all central holes
D17: in slots B/J, C/I, D/H, E/G

Quick & Easy (p. 2-8, see fold-out section)

40x160L	3 842 993 717 / ...
Length L (mm)	80 ... 6000
Standard profile finishes (note minimum length, p. 2-25)	M12 / D9,8 (B,C,D,E,G,H, I,J) ¹⁾ / D17 (B,C,D,E,G,H, I,J) ¹⁾ / DB17 / F1 (A,F) ¹⁾
Individual profile finishes (L _{max} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

1) For the specified slots

2) DG_{max} = 45°; L_{min1} / L_{min2} = 439 / 578 mm

80x80L		L (mm)	No.
1 pc		50 ... 6000	3 842 993 133 / L
1 pc	M12	60 ... 6000	3 842 993 134 / L
1 pc	M12 M12	110 ... 6000	3 842 993 147 / L
1 pc	M12 D17	90 ... 6000	3 842 993 148 / L
1 pc	D17	60 ... 6000	3 842 993 149 / L
1 pc	D17 D17	80 ... 6000	3 842 993 150 / L
1 pc	D17 D17V	80 ... 6000	3 842 993 151 / L
6 pcs		6070	3 842 529 347

Profile finishing:
M12: in all central holes
D17: in slots A/F, B/E
D17V: in slots C/H, D/G

Quick & Easy (p. 2-8, see fold-out section)

80x80L	3 842 993 674 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p. 2-25)	M12 / D9,8 / D17 / DB17 / F1
Individual profile finishes (L _{max} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

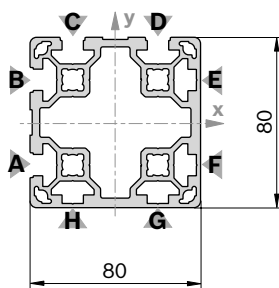
1) DG_{max} = 45°; L_{min1} / L_{min2} = 439 / 578 mm

80x80L 4NVS

$A = 19,3 \text{ cm}^2$
 $I_x = 142,5 \text{ cm}^4$
 $I_y = 142,5 \text{ cm}^4$
 $W_x = 35,6 \text{ cm}^3$
 $W_y = 35,6 \text{ cm}^3$
 $m = 5,2 \text{ kg/m}$



19416



Cap: See 80x80

80x80L 4NVS		L (mm)	No.
1 pc		50 ... 6000	3 842 993 658 / L
6 pcs		6070	3 842 538 334

Quick & Easy (p. 2-8, see fold-out section)

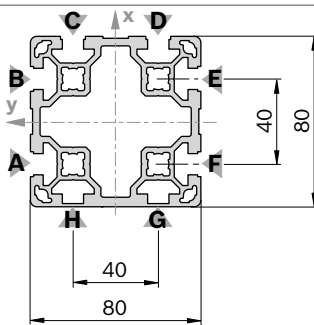
80x80L 4NVS		3 842 993 758 / ...
Length L (mm)		50 ... 6000
Standard profile finishes (note minimum length, p. 2-25)		M12 / D9.8 / D17 / DB17
Individual profile finishes ($L_{\max} = 5400 \text{ mm}$)		DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ $DG_{\max} = 45^\circ$; $L_{\min 1} / L_{\min 2} = 439 / 578 \text{ mm}$ **80x80L 6N**

$A = 18,8 \text{ cm}^2$
 $I_x = 134,1 \text{ cm}^4$
 $I_y = 140,9 \text{ cm}^4$
 $W_x = 33,5 \text{ cm}^3$
 $W_y = 36,2 \text{ cm}^3$
 $m = 5,1 \text{ kg/m}$



19417



Cap: see 80x80

80x80L 6N		L (mm)	No.
1 pc		50 ... 6000	3 842 993 423 / L
6 pcs		6070	3 842 536 481

Quick & Easy (p. 2-8, see fold-out section)

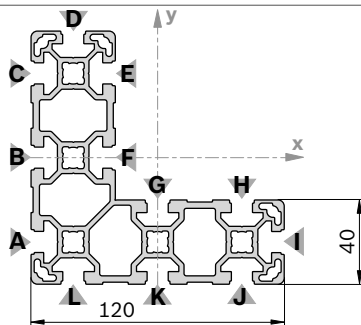
80x80L 6N		3 842 993 675 / ...
Length L (mm)		50 ... 6000
Standard profile finishes (note minimum length, p. 2-25)		M12 / D9.8 / D17 / DB17 / F1 (A,C,F) ¹⁾
Individual profile finishes ($L_{\max} = 5400 \text{ mm}$)		DI / DIS / MT / MTS / MI / MIS / DG ²⁾

¹⁾ For the specified slots²⁾ $DG_{\max} = 45^\circ$; $L_{\min 1} / L_{\min 2} = 439 / 578 \text{ mm}$ **40x120x120L**

$A = 24,6 \text{ cm}^2$
 $I_x = 318,0 \text{ cm}^4$
 $I_y = 318,0 \text{ cm}^4$
 $W_x = 42,2 \text{ cm}^3$
 $W_y = 42,2 \text{ cm}^3$
 $m = 6,7 \text{ kg/m}$



19418



40x120x120L		L (mm)	No.
1 pc		50 ... 6000	3 842 993 653 / L
4 pcs		6070	3 842 538 287

Quick & Easy (p. 2-8, see fold-out section)

40x120x120L		3 842 993 757 / ...
Length L (mm)		50 ... 6000
Standard profile finishes (note minimum length, p. 2-25)		M12 / D9.8 (B,C,J,K) ¹⁾ / D17 / DB17 (A,B,C,D,I, J,K,L) ¹⁾ / F1 (D,I) ¹⁾
Individual profile finishes ($L_{\max} = 5400 \text{ mm}$)		DI / DIS / MT / MTS / MI / MIS / DG ²⁾

¹⁾ For the specified slots²⁾ $DG_{\max} = 45^\circ$; $L_{\min 1} / L_{\min 2} = 420 / 540 \text{ mm}$

Cap	Color	ESD		No.
40x40 (5x)	Signal gray	100		3 842 548 746
40x80 (2x)	Signal gray	20		3 842 548 748
40x40 (1x)	Signal gray	100		3 842 548 746
40x40 (5x)	Black	20		3 842 548 747
40x80 (2x)	Black	20		3 842 548 749
40x40 (1x)	Black	20		3 842 548 747

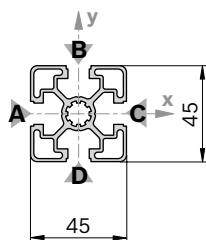
Material: PP

Notice:

for the 40x120x120L profile you require the following combination of caps: 5x 40x40 or 2x 40x80 and 1x 40x40

45x45L

A = 6,0 cm²
I_x = 11,7 cm⁴
I_y = 11,7 cm⁴
W_x = 5,2 cm³
W_y = 5,2 cm³
m = 1,6 kg/m



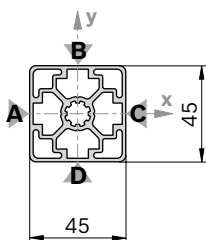
19421

Cap	Color	ESD		No.
45x45 (1x)	Signal gray		100	3 842 548 752
45x45 (1x)	Black		20	3 842 548 753
Material:		PP		

Cap with hole	Color	ESD		No.
45x45 (1x)	Signal gray		20	3 842 548 796
45x45 (1x)	Black		20	3 842 548 797
Material:		PP		

45x45L 0N

A = 6,7 cm²
I_x = 13,5 cm⁴
I_y = 13,5 cm⁴
W_x = 6,0 cm³
W_y = 6,0 cm³
m = 1,8 kg/m



19422

Cap: see 45x45

45x45L	L (mm)	No.
1 pc	50 ... 5600	3 842 992 425 / L
1 pc M12	60 ... 5600	3 842 992 426 / L
1 pc M12 M12	110 ... 5600	3 842 992 427 / L
1 pc M12 D17	90 ... 5600	3 842 992 960 / L
1 pc D9,8 D9,8	80 ... 5600	3 842 992 967 / L
1 pc D17	60 ... 5600	3 842 992 953 / L
1 pc D17 D17	80 ... 5600	3 842 992 954 / L
1 pc D17 D17V	80 ... 5600	3 842 992 956 / L
20 pcs	5600	3 842 511 702

Quick & Easy (p. 2-8, see fold-out section)

45x45L	3 842 993 737 / ...
Length L (mm)	50 ... 5600
Standard profile finishes (note minimum length, p. 2-25)	M12 / D9,8 / D17 / DB17 / F1 (A) ¹⁾
Individual profile finishes (L _{max} = 4900 mm)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

1) For the specified slots

2) DG_{max} = 45°; L_{min1} / L_{min2} = 378 / 456 mm

45x45L 0N	L (mm)	No.
20 pcs	6070	3 842 540 955

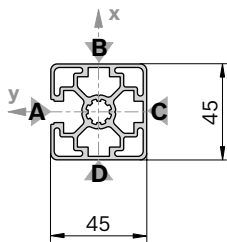
Quick & Easy (p. 2-8, see fold-out section)

45x45L 0N	3 842 993 761 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Individual profile finishes (L _{max} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

1) DG_{max} = 45°; L_{min1} / L_{min2} = 378 / 456 mm

45x45L 1N

A = 6,5 cm²
I_x = 12,6 cm⁴
I_y = 13,5 cm⁴
W_x = 5,5 cm³
W_y = 6,0 cm³
m = 1,8 kg/m

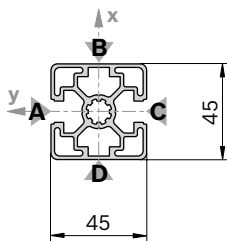


19423

Cap: see 45x45

45x45L 2N

A = 6,4 cm²
I_x = 11,6 cm⁴
I_y = 13,5 cm⁴
W_x = 5,2 cm³
W_y = 6,0 cm³
m = 1,7 kg/m

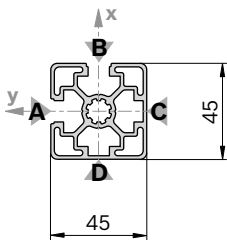


19424

Cap: see 45x45

45x45L 2NVS

A = 6,4 cm²
I_x = 12,6 cm⁴
I_y = 12,6 cm⁴
W_x = 5,6 cm³
W_y = 5,6 cm³
m = 1,7 kg/m



19425

Cap: see 45x45

45x45L 1N	L (mm)	No.
1 pc	50 ... 5600	3 842 992 401 / L
20 pcs	5600	3 842 506 956

Quick & Easy (p. 2-8, see fold-out section)

45x45L 1N	3 842 993 738 / ...
Length L (mm)	50 ... 5600
Standard profile finishes (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Individual profile finishes (L _{max} = 4900 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 378 / 456 mm

45x45L 2N	L (mm)	No.
1 pc	50 ... 5600	3 842 992 403 / L
20 pcs	5600	3 842 506 958

Quick & Easy (p. 2-8, see fold-out section)

45x45L 2N	3 842 993 739 / ...
Length L (mm)	50 ... 5600
Standard profile finishes (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Individual profile finishes (L _{max} = 4900 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 378 / 456 mm

45x45L 2NVS	L (mm)	No.
1 pc	50 ... 5600	3 842 992 402 / L
20 pcs	5600	3 842 506 957

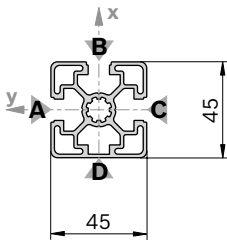
Quick & Easy (p. 2-8, see fold-out section)

45x45L 2NVS	3 842 993 740 / ...
Length L (mm)	50 ... 5600
Standard profile finishes (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Individual profile finishes (L _{max} = 4900 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 378 / 456 mm

45x45L 3N

A = 6,2 cm²
I_x = 12,6 cm⁴
I_y = 11,7 cm⁴
W_x = 5,4 cm³
W_y = 5,2 cm³
m = 1,7 kg/m



19426

Cap: see 45x45

45x45L 3N	L (mm)	No.
1 pc	50 ... 5600	3 842 992 404 / L
20 pcs	5600	3 842 506 959

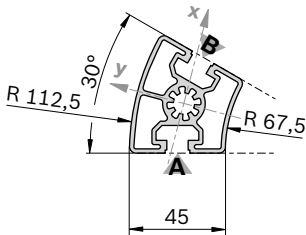
Quick & Easy (p. 2-8, see fold-out section)

45x45L 3N	3 842 993 741 / ...
Length L (mm)	50 ... 5600
Standard profile finishes (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Individual profile finishes (L _{max} = 4900 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 378 / 456 mm

45x30°

A = 6,9 cm²
I_x = 12,7 cm⁴
I_y = 15,2 cm⁴
W_x = 5,0 cm³
W_y = 5,3 cm³
m = 1,9 kg/m



19427

Cap	Color	ESD	No.
45x30° (1x)	Black	20	3 842 524 053

Material: PA

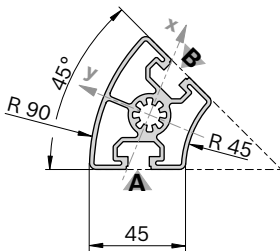
45x30°	L (mm)	No.
1 pc	50 ... 5600	3 842 993 013 / L
20 pcs	5600	3 842 524 040

Quick & Easy (p. 2-8, see fold-out section)

45x30°	3 842 993 733 / ...
Length L (mm)	50 ... 5600
Standard profile finishes (note minimum length, p. 2-25)	M12
Individual profile finishes	—

45x45°

A = 7,6 cm²
I_x = 13,4 cm⁴
I_y = 21,4 cm⁴
W_x = 5,2 cm³
W_y = 6,4 cm³
m = 2,0 kg/m



19428

Cap	Color	ESD	No.
45x45° (1x)	Black	20	3 842 524 054

Material: PA

45x45°	L (mm)	No.
1 pc	50 ... 5600	3 842 993 014 / L
20 pcs	5600	3 842 524 043

Quick & Easy (p. 2-8, see fold-out section)

45x45°	3 842 993 735 / ...
Length L (mm)	50 ... 5600
Standard profile finishes (note minimum length, p. 2-25)	M12
Individual profile finishes	—

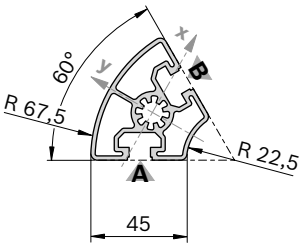
45x60°

A = 6,8 cm²
I_x = 11,4 cm⁴
I_y = 16,9 cm⁴
W_x = 4,4 cm³
W_y = 5,2 cm³
m = 1,8 kg/m

10 10

45

19429



Cap	Color	ESD	No.
45x60° (1x)	Black	20	3 842 524 055
Material:		PA	

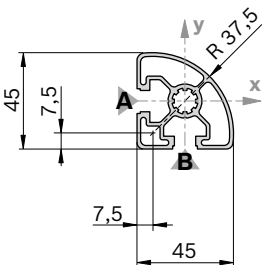
45x45L R

A = 4,9 cm²
I_x = 8,6 cm⁴
I_y = 8,6 cm⁴
W_x = 5,0 cm³
W_y = 5,0 cm³
m = 1,3 kg/m

10 10

45

19430



Cap	Color	ESD	No.
45x45 R (1x)	Signal gray	20	3 842 548 800
45x45 R (1x)	Black	20	3 842 548 801
Material:		PP	

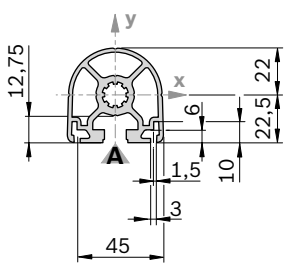
45x45 HR

A = 6,6 cm²
I_x = 11,0 cm⁴
I_y = 10,7 cm⁴
W_x = 4,4 cm³
W_y = 4,8 cm³
m = 1,8 kg/m

10 10

45

19431



Cap	Color	ESD	No.
45x45 HR (1x)	Signal gray	20	3 842 548 798
45x45 HR (1x)	Black	20	3 842 548 799
Material:		PP	

45x60°	L (mm)	No.
1 pc	50 ... 5600	3 842 993 015 / L
20 pcs	5600	3 842 524 046

Quick & Easy (p. 2-8, see fold-out section)

45x60°	3 842 993 744 / ...
Length L (mm)	50 ... 5600
Standard profile finishes (note minimum length, p. 2-25)	M12
Individual profile finishes	—

45x45L R	L (mm)	No.
1 pc	50 ... 5600	3 842 992 897 / L
20 pcs	5600	3 842 517 200

Quick & Easy (p. 2-8, see fold-out section)

45x45L R	3 842 993 742 / ...
Length L (mm)	50 ... 5600
Standard profile finishes (note minimum length, p. 2-25)	M12 / DB17
Individual profile finishes	—

45x45 HR	L (mm)	No.
1 pc	50 ... 5600	3 842 992 945 / L
1 pc M12	60 ... 5600	3 842 993 001 / L
1 pc M12 M12	110 ... 5600	3 842 992 999 / L
20 pcs	5600	3 842 525 505

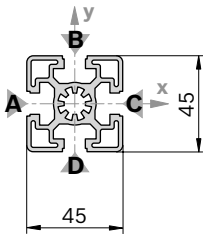
Quick & Easy (p. 2-8, see fold-out section)

45x45 HR	3 842 993 736 / ...
Length L (mm)	50 ... 5600
Standard profile finishes (note minimum length, p. 2-25)	M12 / DB17
Individual profile finishes (L _{max} = 4900 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 378 / 456 mm

45x45

A = 7,5 cm²
I_x = 13,8 cm⁴
I_y = 13,8 cm⁴
W_x = 6,1 cm³
W_y = 6,1 cm³
m = 2,0 kg/m



19432

Cap	Color	ESD		No.
45x45 (1x)	Signal gray		100	3 842 548 752
45x45 (1x)	Black		20	3 842 548 753

Material: PP

Cap with hole	Color	ESD		No.
45x45 (1x)	Signal gray		20	3 842 548 796
45x45 (1x)	Black		20	3 842 548 797

Material: PP

45x45	L (mm)	No.
1 pc	50 ... 5600	3 842 990 520 / L
1 pc M12	60 ... 5600	3 842 990 517 / L
1 pc M12 M12	110 ... 5600	3 842 990 518 / L
1 pc M12 M16	180 ... 5600	3 842 990 519 / L
1 pc M12 D17	90 ... 5600	3 842 990 640 / L
1 pc M16	120 ... 5600	3 842 990 521 / L
1 pc M16 D17	170 ... 5600	3 842 990 642 / L
1 pc D9,8 D9,8	70 ... 5600	3 842 992 969 / L
1 pc D17	60 ... 5600	3 842 990 648 / L
1 pc D17 D17	80 ... 5600	3 842 990 644 / L
1 pc D17 D17V	80 ... 5600	3 842 990 646 / L
20 pcs	5600	3 842 509 175

Quick & Easy (p. 2-8, see fold-out section)

45x45	3 842 993 734 / ...
Length L (mm)	50 ... 5600
Standard profile finishes (note minimum length, p. 2-25)	M12 / M16 / D9,8 / D17 / DB17
Individual profile finishes (L _{max} = 4900 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 378 / 456 mm

45x60

A = 11,0 cm²

$I_x = 37,2 \text{ cm}^4$

$I_y = 22,7 \text{ cm}^4$

$W_x = 12,4 \text{ cm}^3$

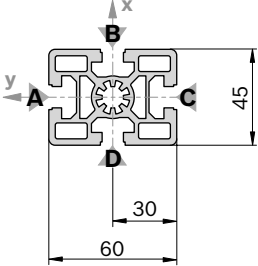
$W_y = 10,1 \text{ cm}^3$

$m = 3,0 \text{ kg/m}$

10 10

45

19433



Cap	Color	ESD		No.
45x60 (1x)	Signal gray		20	3 842 548 754
45x60 (1x)	Black		20	3 842 548 755
Material:		PP		

Cap with hole	Color	ESD		No.
45x60 (1x)	Signal gray		20	3 842 548 802
45x60 (1x)	Black		20	3 842 548 803
Material:		PP		

45x60	L (mm)	No.
1 pc 	50 ... 5600	3 842 990 570 / L
1 pc M12 	60 ... 5600	3 842 990 571 / L
1 pc M12  M12	110 ... 5600	3 842 990 572 / L
1 pc M12  M16	180 ... 5600	3 842 990 575 / L
1 pc M16 	120 ... 5600	3 842 990 573 / L
1 pc D9,8 	50 ... 5600	3 842 992 376 / L
1 pc D17 	60 ... 5600	3 842 990 688 / L
1 pc D17  D17	80 ... 5600	3 842 990 672 / L
1 pc D17  D17V	80 ... 5600	3 842 990 674 / L
1 pc D9,8V 	50 ... 5600	3 842 992 375 / L
1 pc D17V 	60 ... 5600	3 842 990 690 / L
1 pc D17V  D17V	90 ... 5600	3 842 990 670 / L
1 pc LF  LF	80 ... 5600	3 842 993 085 / L
1 pc F1  F1	80 ... 5600	3 842 990 584 / L
 20 pcs 	5600	3 842 509 184

Profile finishing

D9.8, D17: in slots B/D

D9.8, D17: in slots A/C

LF: in slots A/C

F1: in slot A

Quick & Easy (p. 2-8, see fold-out section)

45x60	3 842 993 743 / ...
Length L (mm)	50 ... 5600
Standard profile finishes (note minimum length,p.	M12 / M16 / D9.8 / D17 / DB17 / F1 (A,C) ¹⁾
Individual profile finishes (L _{max} = 4900 mm)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

¹⁾ For the specified slots
²⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 404 / 508 mm

45x90SL

A = 9,0 cm²

$I_x = 73,4 \text{ cm}^4$

$I_y = 18,1 \text{ cm}^4$

$W_x = 16,3 \text{ cm}^3$

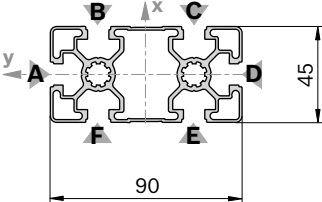
$W_y = 8,0 \text{ cm}^3$

$m = 2,4 \text{ kg/m}$

10 10

45

19434



Cap	Color	ESD		No.
45x90 (1x)	Signal gray		20	3 842 548 756
45x90 (1x)	Black		20	3 842 548 757
Material:		PP		

Cap with hole	Color	ESD		No.
45x90 (1x)	Signal gray		20	3 842 548 804
45x90 (1x)	Black		20	3 842 548 805
Material:		PP		

45x90SL	L (mm)	No.
1 pc 	50 ... 6000	3 842 993 450 / L
 12 pcs 	6070	3 842 537 102

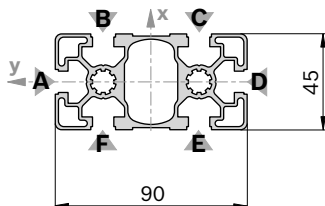
Quick & Easy (p. 2-8, see fold-out section)

45x90SL	3 842 993 759 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Individual profile finishes (L _{max} = 5400 mm)	DI / DIS / DG ¹⁾

¹⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 456 / 612 mm

45x90L

$A = 11,3 \text{ cm}^2$
 $I_x = 82,0 \text{ cm}^4$
 $I_y = 23,6 \text{ cm}^4$
 $W_x = 18,2 \text{ cm}^3$
 $W_y = 10,5 \text{ cm}^3$
 $m = 3,0 \text{ kg/m}$



19435

Cap	Color	ESD	No.
45x90 (1x)	Signal gray	20	3 842 548 756
45x90 (1x)	Black	20	3 842 548 757

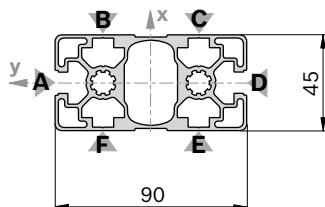
Material: PP

Cap with hole	Color	ESD	No.
45x90 (1x)	Signal gray	20	3 842 548 804
45x90 (1x)	Black	20	3 842 548 805

Material: PP

45x90L 2N

$A = 12,0 \text{ cm}^2$
 $I_x = 85,6 \text{ cm}^4$
 $I_y = 26,9 \text{ cm}^4$
 $W_x = 38,1 \text{ cm}^3$
 $W_y = 6,0 \text{ cm}^3$
 $m = 3,2 \text{ kg/m}$

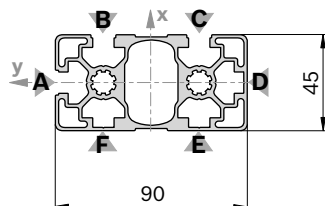


19436

Cap: see 45x90

45x90L 3NVS

$A = 11,8 \text{ cm}^2$
 $I_x = 87,2 \text{ cm}^4$
 $I_y = 25,2 \text{ cm}^4$
 $W_x = 38,8 \text{ cm}^3$
 $W_y = 5,6 \text{ cm}^3$
 $m = 3,2 \text{ kg/m}$



19437

Cap: see 45x90

45x90L	L (mm)	No.
1 pc	50 ... 5600	3 842 992 432 / L
1 pc M12	60 ... 5600	3 842 992 453 / L
1 pc M12 M12	110 ... 5600	3 842 992 433 / L
1 pc D17 D17	80 ... 5600	3 842 992 437 / L
1 pc D17 D17V	80 ... 5600	3 842 992 436 / L
1 pc D17V	60 ... 5600	3 842 992 452 / L
1 pc D17V D17V	90 ... 5600	3 842 992 435 / L
1 pc LF LF	80 ... 5600	3 842 993 084 / L
12 pcs	5600	3 842 511 782

Profile finishing:

- M12: in all core holes
- D17: in slots B/F, C/E
- D17V: in slots A/D
- LF: in slots A/D

Quick & Easy (p. 2-8, see fold-out section)

45x90L	3 842 993 662 / ...
Length L (mm)	50 ... 5600
Standard profile finishes (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17 / F1 (A,D) ¹⁾
Individual profile finishes (L _{max} = 4900 mm)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

¹⁾ For the specified slots

²⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 456 / 612 mm

45x90L 2N	L (mm)	No.
1 pc	50 ... 6000	3 842 993 644 / L
12 pcs	6070	3 842 538 299

Quick & Easy (p. 2-8, see fold-out section)

45x90L 2N	3 842 993 751 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Individual profile finishes (L _{max} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾
¹⁾ DG _{max} = 45°; L _{min1} / L _{min2} = 456 / 612 mm	

45x90L 3NVS	L (mm)	No.
1 pc	50 ... 6000	3 842 993 635 / L
12 pcs	6070	3 842 538 298

Quick & Easy (p. 2-8, see fold-out section)

45x90L 3NVS	3 842 993 752 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Individual profile finishes (L _{max} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾
¹⁾ DG _{max} = 45°; L _{min1} / L _{min2} = 456 / 612 mm	

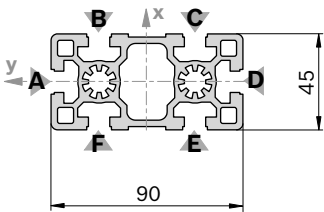
45x90

A = 15,4 cm²
I_x = 124,6 cm⁴
I_y = 32,8 cm⁴
W_x = 27,7 cm³
W_y = 14,6 cm³
m = 4,2 kg/m

10 10

45

19438



Cap	Color	ESD		No.
45x90 (1x)	Signal gray		20	3 842 548 756
45x90 (1x)	Black		20	3 842 548 757
Material:	PP			

Cap with hole	Color	ESD		No.
45x90 (1x)	Signal gray		20	3 842 548 804
45x90 (1x)	Black		20	3 842 548 805
Material:	PP			

45x90	L (mm)	No.
1 pc	50 ... 5600	3 842 990 300 / L
1 pc M12	60 ... 5600	3 842 990 301 / L
1 pc M12 M12	110 ... 5600	3 842 990 302 / L
1 pc M12 D17	90 ... 5600	3 842 990 323 / L
1 pc M12 D17V	90 ... 5600	3 842 990 305 / L
1 pc M16	120 ... 5600	3 842 990 303 / L
1 pc M16 M16	240 ... 5600	3 842 990 304 / L
1 pc M16 D17	170 ... 5600	3 842 990 325 / L
1 pc M16 D17V	170 ... 5600	3 842 990 307 / L
1 pc D17	60 ... 5600	3 842 990 329 / L
1 pc D17 D17	80 ... 5600	3 842 990 313 / L
1 pc D17 D17V	90 ... 5600	3 842 990 311 / L
1 pc D17V	60 ... 5600	3 842 990 331 / L
1 pc D17V D17V	90 ... 5600	3 842 990 309 / L
12 pcs	5600	3 842 509 186

Profile finishing: M12, M16: in all core holes
D17: in slots B/F, C/E
D17V: in slots A/D

Quick & Easy (p. 2-8, see fold-out section)

45x90	3 842 993 661 / ...
Length L (mm)	50 ... 5600
Standard profile finishes (note minimum length, p. 2-25)	M12 / M16 / D9.8 / D17 / DB17 / F1 (A,D) ¹⁾
Individual profile finishes (L _{max} = 4900 mm)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

1) For the specified slots
2) DG_{max} = 45°; L_{min1} / L_{min2} = 456 / 612 mm

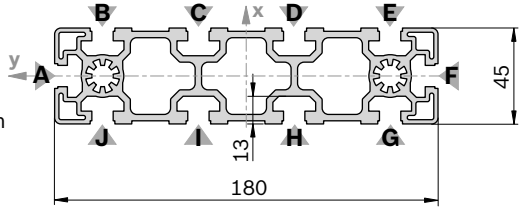
45x180

A = 25,5 cm²
I_x = 766,7 cm⁴
I_y = 57,3 cm⁴
W_x = 85,2 cm³
W_y = 25,5 cm³
m = 6,9 kg/m

10 10

45

19439



Cap	Color	ESD		No.
45x180 (1x)	Signal gray		20	3 842 548 794
45x180 (1x)	Black		20	3 842 548 795
Material:	PP			

45x180	L (mm)	No.
1 pc	50 ... 5600	3 842 990 335 / L
1 pc M12	60 ... 5600	3 842 990 336 / L
1 pc M12 M12	110 ... 5600	3 842 990 339 / L
1 pc D17 D17	80 ... 5600	3 842 990 342 / L
1 pc D17V D17V	90 ... 5600	3 842 990 344 / L
6 pcs	5600	3 842 509 187

Profile finishing: M12: in all core holes
D17: in slots B/J, E/G
D17V: in slots A/F

Quick & Easy (p. 2-8, see fold-out section)

45x180	3 842 993 731 / ...
Length L (mm)	80 ... 5600
Standard profile finishes (note minimum length, p. 2-25)	M12 / M16 / D9.8 (B,C,D,E,G,H,I,J) ¹⁾ / D17 (B,C,D,E,G,H,I,J) ¹⁾ / DB17 / F1 (A,F) ¹⁾
Individual profile finishes (L _{max} = 4900 mm)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

1) For the specified slots
2) DG_{max} = 30°; L_{min1} / L_{min2} = 404 / 508 mm

45x90x90L 4N

A = 21,2 cm²

I_x = 160,8 cm⁴

I_y = 160,8 cm⁴

W_x = 30,6 cm³

W_y = 30,6 cm³

m = 5,95 kg/m

29432

Cap: see 45x90x90L

90x90SL

A = 14,1 cm²

I_x = 130,2 cm⁴

I_y = 130,2 cm⁴

W_x = 28,9 cm³

W_y = 28,9 cm³

m = 3,8 kg/m

19442

Cap: see 90x90L

90x90L

A = 24,1 cm²

I_x = 211,1 cm⁴

I_y = 211,1 cm⁴

W_x = 46,9 cm³

W_y = 46,9 cm³

m = 6,5 kg/m

19443

Cap	Color	ESD	No.
90x90L (1x)	Signal gray	20	3 842 548 758
90x90L (1x)	Black	20	3 842 548 759
Material:	PP		

45x90x90L 4N	L (mm)	No.
8 pcs	6070	3 842 547 827

Quick & Easy (p. 2-8, see fold-out section)

45x90x90L 4N	3 842 993 764
Length L (mm)	50 ... 6070
Standard profile finishes (note minimum length, p. 2-25)	M12 / D9,8 / D17 / DB17 (A,B,C,F,G,H) ¹⁾
Individual profile finishes (L _{max} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

- 1) For the specified slots
- 2) DG_{max} = 45°; L_{min1} / L_{min2} = 456 / 612 mm

90x90SL	L (mm)	No.
1 pc	50 ... 6000	3 842 993 449 / L
6 pcs	6070	3 842 537 100

Quick & Easy (p. 2-8, see fold-out section)

90x90SL	3 842 993 681 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Individual profile finishes (L _{max} = 5400 mm)	DI / DIS / DG ¹⁾

- 1) DG_{max} = 45°; L_{min1} / L_{min2} = 456 / 612 mm

90x90L	L (mm)	No.
1 pc	50 ... 5600	3 842 992 415 / L
1 pc M12	60 ... 5600	3 842 992 416 / L
1 pc M12 M12	110 ... 5600	3 842 992 422 / L
1 pc M12 D17	90 ... 5600	3 842 992 423 / L
1 pc D17	60 ... 5600	3 842 992 417 / L
1 pc D17 D17	80 ... 5600	3 842 992 420 / L
1 pc D17 D17V	80 ... 5600	3 842 992 421 / L
1 pc LF LF	80 ... 5600	3 842 992 418 / L
1 pc LF M12	90 ... 5600	3 842 992 419 / L
6 pcs	5600	3 842 509 658

Profile finishing:

M12: in all central holes

D17: in slots C/H, D/G

D17V: in slots A/F, B/E

LF: in slots C/H, D/G

Quick & Easy (p. 2-8, see fold-out section)

90x90L	3 842 993 680 / ...
Length L (mm)	50 ... 5600
Standard profile finishes (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Individual profile finishes (L _{max} = 4900 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

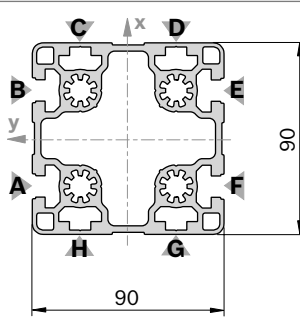
- 1) DG_{max} = 45°; L_{min1} / L_{min2} = 456 / 612 mm

90x90L 4N

$A = 24,2 \text{ cm}^2$
 $I_x = 227,4 \text{ cm}^4$
 $I_y = 214,7 \text{ cm}^4$
 $W_x = 50,5 \text{ cm}^3$
 $W_y = 47,7 \text{ cm}^3$
 $m = 6,5 \text{ kg/m}$



19444



Cap: see 90x90L

90x90L 4N		L (mm)	No.
1 pc		50 ... 6000	3 842 993 628 / L
6 pcs		6070	3 842 538 297

Quick & Easy (p. 2-8, see fold-out section)

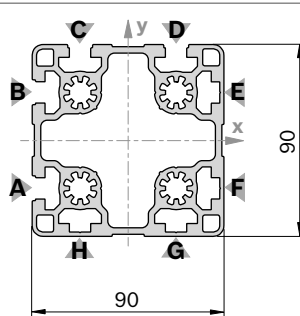
90x90L 4N		3 842 993 755 / ...
Length L (mm)		50 ... 5600
Standard profile finishes (note minimum length, p. 2-25)		M12 / D9.8 / D17 / DB17
Individual profile finishes ($L_{\max} = 4900 \text{ mm}$)		DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

1) $DG_{\max} = 45^\circ$; $L_{\min 1} / L_{\min 2} = 456 / 612 \text{ mm}$ **90x90L 4NVS**

$A = 24,2 \text{ cm}^2$
 $I_x = 220,9 \text{ cm}^4$
 $I_y = 220,9 \text{ cm}^4$
 $W_x = 49,2 \text{ cm}^3$
 $W_y = 49,2 \text{ cm}^3$
 $m = 6,5 \text{ kg/m}$



19445



Cap: see 90x90L

90x90L 4NVS		L (mm)	No.
1 pc		50 ... 6000	3 842 993 621 / L
6 pcs		6070	3 842 538 296

Quick & Easy (p. 2-8, see fold-out section)

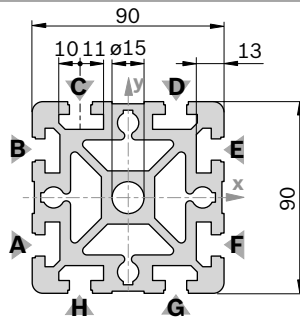
90x90L 4NVS		3 842 993 756 / ...
Length L (mm)		50 ... 5600
Standard profile finishes (note minimum length, p. 2-25)		M12 / D9.8 / D17 / DB17
Individual profile finishes ($L_{\max} = 4900 \text{ mm}$)		DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

1) $DG_{\max} = 45^\circ$; $L_{\min 1} / L_{\min 2} = 456 / 612 \text{ mm}$ **90x90**

$A = 38,4 \text{ cm}^2$
 $I_x = 299,8 \text{ cm}^4$
 $I_y = 299,8 \text{ cm}^4$
 $W_x = 66,7 \text{ cm}^3$
 $W_y = 66,7 \text{ cm}^3$
 $m = 10,4 \text{ kg/m}$



19446



Cap	Color	ESD		No.
90x90 (1x)	Signal gray		20	3 842 548 760
90x90 (1x)	Black		20	3 842 548 761
Material:		PP		

Cap with hole	Color	ESD		No.
90x90 (1x)	Signal gray		20	3 842 548 814
90x90 (1x)	Black		20	3 842 548 815
Material:		PP		

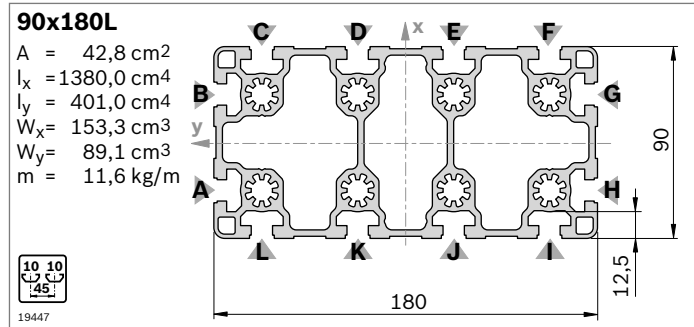
Note: A quick connector cannot be used

90x90		L (mm)	No.
1 pc		50 ... 5600	3 842 990 500 / L
1 pc	M16	120 ... 5600	3 842 990 501 / L
1 pc	M16 M16	240 ... 5600	3 842 990 502 / L
1 pc	M16 D17	170 ... 5600	3 842 992 961 / L
1 pc	M16/D22	60 ... 5600	3 842 992 373 / L
1 pc	M16/D22 M16/D22	120 ... 5600	3 842 993 083 / L
1 pc	D17	60 ... 5600	3 842 990 092 / L
1 pc	D17 D17	80 ... 5600	3 842 990 093 / L
1 pc	D17 D17V	80 ... 5600	3 842 990 094 / L
1 pc	LF LF	80 ... 5600	3 842 993 082 / L
1 pc	F2	60 ... 5600	3 842 990 505 / L
1 pc	F2 F2	110 ... 5600	3 842 990 507 / L
6 pcs		5600	3 842 509 189

Quick & Easy (p. 2-8, see fold-out section)

90x90		3 842 993 679 / ...
Length L (mm)		50 ... 5600
Standard profile finishes (note minimum length, p. 2-25)		M16 / D9.8 / D17 / DB17 / F1
Individual profile finishes ($L_{\max} = 4900 \text{ mm}$)		DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

1) $DG_{\max} = 45^\circ$; $L_{\min 1} / L_{\min 2} = 456 / 612 \text{ mm}$



Cap	Color	ESD	No.
90x90L (2x)	Signal gray		20 3 842 548 758
90x90L (2x)	Black		20 3 842 548 759
Material:	PP		

90x180L	L (mm)	No.
1 pc	50 ... 5600	3 842 992 857 / L
1 pc M12	60 ... 5600	3 842 992 858 / L
1 pc M12 M12	110 ... 5600	3 842 992 859 / L
1 pc M1 LF	90 ... 5600	3 842 992 860 / L
1 pc D17V D17V	90 ... 5600	3 842 992 864 / L
1 pc LF LF	80 ... 5600	3 842 992 861 / L
3 pcs	5600	3 842 516 015

Profile finishing:

M12: in all core holes

D17V: in slots A/H, B/G

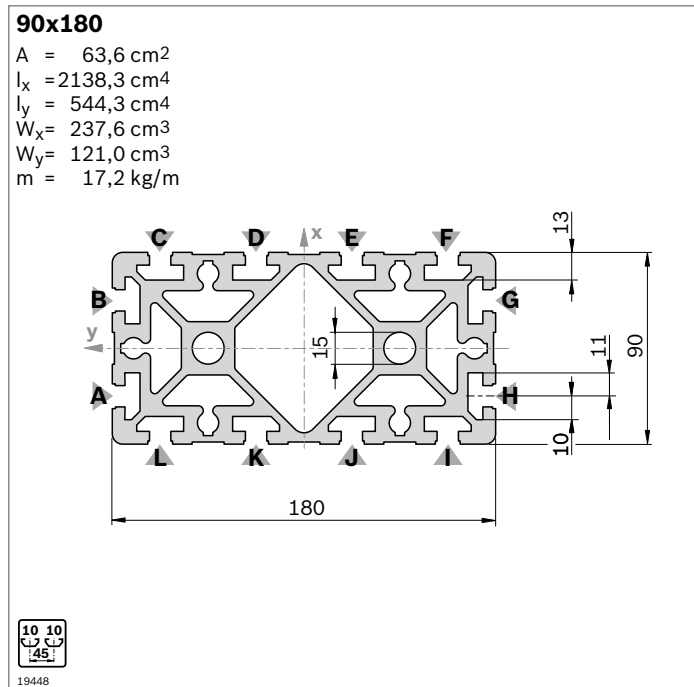
LF: in slots A/H, B/G

Quick & Easy (p. 2-8, see fold-out section)

90x180L	3 842 993 677 / ...
Length L (mm)	80 ... 5600
Standard profile finishes (note minimum length, p. 2-25)	M12 / D9,8 (C,D,E,F,I, J,K,L) ¹⁾ / D17 (C,D,E,F,I,J, K,L) ¹⁾ / DB17 / F1 (A,G) ¹⁾
Individual profile finishes (L _{max} = 4900 mm)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

¹⁾ For the specified slots

²⁾ DG_{max} = 30°; L_{min1} / L_{min2} = 404 / 508 mm



Cap	Color	ESD	No.
90x90 (2x)	Signal gray		20 3 842 548 760
90x90 (2x)	Black		20 3 842 548 761
Material:	PP		
Cap with hole	Color	ESD	No.
90x90 (2x)	Signal gray		20 3 842 548 814
90x90 (2x)	Black		20 3 842 548 815
Material:	PP		

90x180	L (mm)	No.
1 pc	50 ... 5600	3 842 990 416 / L
1 pc M16	120 ... 5600	3 842 990 417 / L
1 pc M16 M16	240 ... 5600	3 842 990 418 / L
1 pc M16 F2	170 ... 5600	3 842 990 419 / L
1 pc D17V D17V	90 ... 5600	3 842 992 378 / L
1 pc LF LF	80 ... 5600	3 842 992 898 / L
1 pc LF-S LF-S	80 ... 5600	3 842 993 081 / L
1 pc F2 F2	110 ... 5600	3 842 990 421 / L
3 pcs	5600	3 842 509 188

Profile finishing:

M16: in all core holes

D17V: in slots A/H, B/G

LF: in slots A/H, B/G

LF-S: in slots D/K, E/J

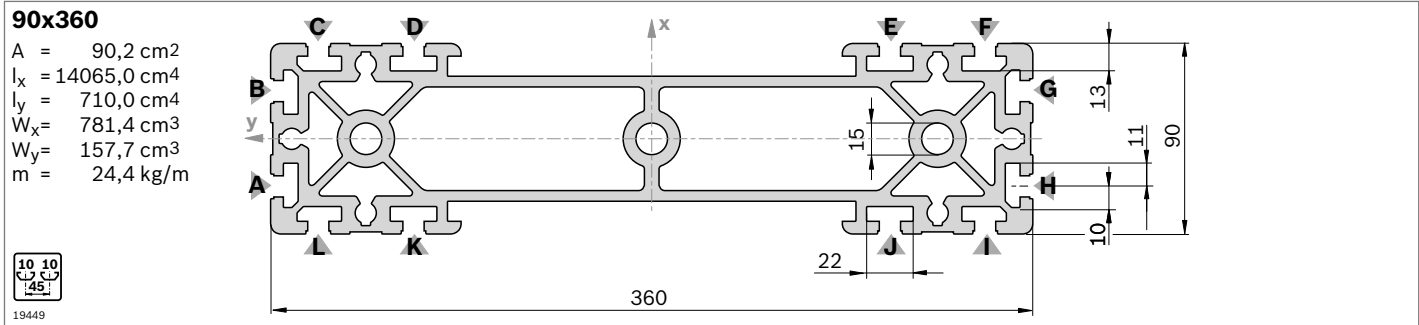
Quick & Easy (p. 2-8, see fold-out section)

90x180	3 842 993 676 / ...
Length L (mm)	80 ... 5600
Standard profile finishes (note minimum length, p. 2-25)	M16 / D9,8 (C,D,E,F,I,J, K,L) ¹⁾ / D17 (C,D,E,F,I,J, K,L) ¹⁾ / DB17 / F1 (A,G) ¹⁾
Individual profile finishes (L _{max} = 4900 mm)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

¹⁾ For the specified slots

²⁾ DG_{max} = 30°; L_{min1} / L_{min2} = 404 / 508 mm

Notice: A quick connector cannot be used with profile 90x180



Cap	Color	ESD		No.
90x90 (2x)	Signal gray		20	3 842 548 760
90x90 (2x)	Black		20	3 842 548 761
Material:	PP			

Cap with hole	Color	ESD		No.
90x90 (2x)	Signal gray		20	3 842 548 814
90x90 (2x)	Black		20	3 842 548 815
Material:	PP			

Note: A quick connector cannot be used

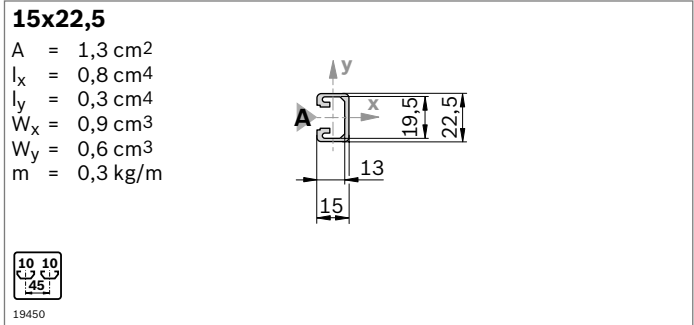
90x360	L (mm)	No.
	50 ... 6000	3 842 993 434
M16 M16	240 ... 6000	3 842 993 435 / L
F2 F2	110 ... 6000	3 842 993 436 / L

Profile finishing: M16: in all core holes

Quick & Easy (p. 2-8, see fold-out section)

90x360	3 842 993 678 / ...
Length L (mm)	80 ... 6000
Standard profile finishes (note minimum length, p. 2-25)	M16 / D9,8 (C,D,E,F,I,J, K,L) ¹⁾ / D17 (C,D,E,F,I,J, K,L) ¹⁾ / DB17 / F1 (A,G) ¹⁾
Individual profile finishes (L _{max} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS

¹⁾ For the specified slots

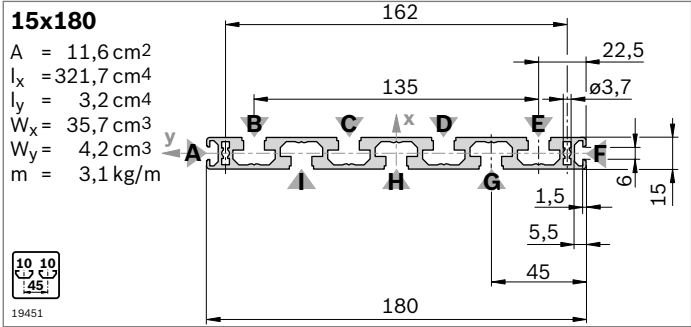


Cap	Color	ESD		No.
15x22.5 (1x)	Signal gray		20	3 842 548 816
15x22.5 (1x)	Black		20	3 842 548 817
Material:	PP			

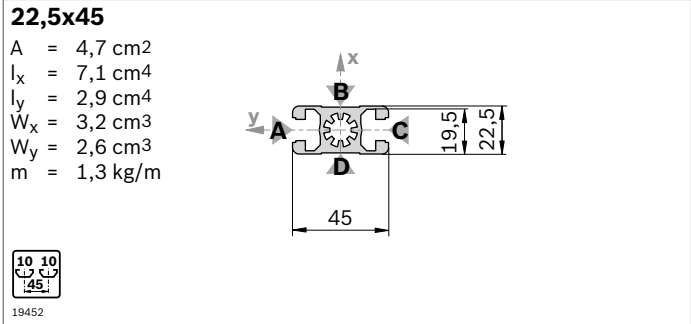
15x22.5	L (mm)	No.
1 pc	50 ... 3000	3 842 992 473 / L
1 pc D17	60 ... 3000	3 842 992 474 / L
1 pc D17 D17	80 ... 3000	3 842 992 475 / L
10 pcs	2000	3 842 513 576

Quick & Easy (p. 2-8, see fold-out section)

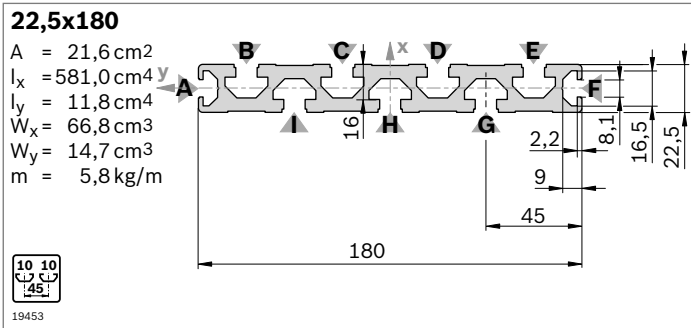
15x22.5	3 842 993 689 / ...
Length L (mm)	50 ... 2000
Standard profile finishes (note minimum length, p. 2-25)	D9.8 / D17
Individual profile finishes	—



Cap	Color	ESD	No.
15x180 (1x)	Signal gray		20 3 842 548 772
15x180 (1x)	Black		20 3 842 548 773
Material:		PP	



Cap	Color	ESD	No.
22,5x45 (1x)	Signal gray		20 3 842 548 830
22,5x45 (1x)	Black		20 3 842 548 831
Material:		PP	



Cap	Color	ESD	No.
22,5x180 (1x)	Signal gray		20 3 842 548 770
22,5x180 (1x)	Black		20 3 842 548 771
Material:		PP	

15x180	L (mm)	No.
1 pc	50 ... 5600	3 842 993 079 / L
6 pcs	5600	3 842 526 821

Quick & Easy (p. 2-8, see fold-out section)

15x180	3 842 993 686 / ...
Length L (mm)	80 ... 5600
Standard profile finishes (note minimum length, p. 2-25)	D9,8 (B,C,D,E,G,H,I) ¹⁾ / D17 (B,C,D,E,G,H,I) ¹⁾
Individual profile finishes (L _{max} = 4900 mm)	DI / DIS / MT / MTS / MI / MIS

¹⁾ For the specified slots

22,5x45	L (mm)	No.
1 pc	50 ... 6000	3 842 990 292 / L
1 pc M12	60 ... 6000	3 842 990 087 / L
1 pc M12	110 ... 6000	3 842 990 090 / L
1 pc D17V	80 ... 6000	3 842 990 091 / L
24 pcs	6070	3 842 537 812

Quick & Easy (p. 2-8, see fold-out section)

22,5x45	3 842 993 700 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p. 2-25)	M12 / D9,8 (A,C) ¹⁾ / D17 / DB17 (A,C) ¹⁾
Individual profile finishes (L _{max} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

¹⁾ For the specified slots

²⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 378 / 456 mm

22,5x180	L (mm)	No.
1 pc	50 ... 5600	3 842 990 345 / L
1 pc D28	60 ... 5600	3 842 990 346 / L
1 pc D28	110 ... 5600	3 842 990 347 / L
6 pcs	5600	3 842 509 179

Profile finishing: D28: in slots G, I

Quick & Easy (p. 2-8, see fold-out section)

22,5x180	3 842 993 699 / ...
Length L (mm)	80 ... 5600
Standard profile finishes (note minimum length, p. 2-25)	D9,8 (B,C,D,E,G,H,I) ¹⁾ / D17 (B,C,D,E,G,H,I) ¹⁾
Individual profile finishes (L _{max} = 4900 mm)	DI / DIS / MT / MTS / MI / MIS

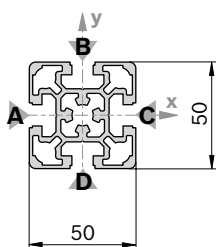
¹⁾ For the specified slots

50x50L

$A = 9,3 \text{ cm}^2$
 $I_x = 21,2 \text{ cm}^4$
 $I_y = 21,2 \text{ cm}^4$
 $W_x = 8,5 \text{ cm}^3$
 $W_y = 8,5 \text{ cm}^3$
 $m = 2,5 \text{ kg/m}$



19454



Cap	Color	ESD	No.
50x50 (1x)	Signal gray		20 3 842 548 820
50x50 (1x)	Black		20 3 842 548 821
Material:	PP		

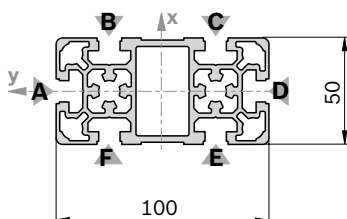
Cap with hole	Color	ESD	No.
50x50 (1x)	Signal gray		20 3 842 548 822
50x50 (1x)	Black		20 3 842 548 823
Material:	PP		

50x100L

$A = 17,2 \text{ cm}^2$
 $I_x = 162,8 \text{ cm}^4$
 $I_y = 42,6 \text{ cm}^4$
 $W_x = 32,6 \text{ cm}^3$
 $W_y = 17,0 \text{ cm}^3$
 $m = 4,6 \text{ kg/m}$



19455



Cap	Color	ESD	No.
50x50 (2x)	Signal gray		20 3 842 548 820
50x50 (2x)	Black		20 3 842 548 821
Material:	PP		

Cap with hole	Color	ESD	No.
50x50 (2x)	Signal gray		20 3 842 548 822
50x50 (2x)	Black		20 3 842 548 823
Material:	PP		

50x50L	L (mm)	No.
1 pc	50 ... 6000	3 842 993 156 / L
1 pc M12	60 ... 6000	3 842 993 157 / L
1 pc M12 M12	110 ... 6000	3 842 993 158 / L
1 pc M12 D17	90 ... 6000	3 842 993 159 / L
1 pc D9,8 D9,8	80 ... 6000	3 842 993 164 / L
1 pc D17	60 ... 6000	3 842 993 160 / L
1 pc D17 D17	80 ... 6000	3 842 993 161 / L
1 pc D17 D17V	80 ... 6000	3 842 993 162 / L
20 pcs	6070	3 842 529 351

Quick & Easy (p. 2-8, see fold-out section)

50x50L	3 842 993 665 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p. 2-25)	M12 / M16 / D9,8 / D17 / DB17
Individual profile finishes ($L_{\max} = 5400 \text{ mm}$)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ $DG_{\max} = 45^\circ$; $L_{\min1} / L_{\min2} = 387 / 474 \text{ mm}$

50x100L	L (mm)	No.
1 pc	50 ... 6000	3 842 993 163 / L
1 pc M12	60 ... 6000	3 842 993 165 / L
1 pc M12 M12	110 ... 6000	3 842 993 166 / L
1 pc D17	90 ... 6000	3 842 993 167 / L
1 pc D17 D17V	80 ... 6000	3 842 993 168 / L
1 pc D17V	60 ... 6000	3 842 993 169 / L
1 pc D17V D17V	90 ... 6000	3 842 993 170 / L
10 pcs	6070	3 842 537 825

Profile finishing:

- M12: in all core holes
- D17: in slots B/F, C/E
- D17V: in slot A/D

Quick & Easy (p. 2-8, see fold-out section)

50x100L	3 842 993 663 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p. 2-25)	M12 / M16 / D9,8 / D17 / DB17 / F1 (A, D) ¹⁾
Individual profile finishes ($L_{\max} = 5400 \text{ mm}$)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

¹⁾ For the specified slots

²⁾ $DG_{\max} = 45^\circ$; $L_{\min1} / L_{\min2} = 474 / 648 \text{ mm}$

50x150L

A = 25,8 cm²
I_x = 540,0 cm⁴
I_y = 64,2 cm⁴
W_x = 72,0 cm³
W_y = 25,7 cm³
m = 6,9 kg/m

10 10

150

19456

Cap	Color	ESD	No.
50x150 (1x)	Signal gray		20 3 842 548 818
50x150 (1x)	Black		20 3 842 548 819
Material:	PP		

50x150L	L (mm)	No.
1 pc	50 ... 6000	3 842 993 196 / L
1 pc M12	60 ... 6000	3 842 993 194 / L
1 pc M12 M12	110 ... 6000	3 842 993 199 / L
1 pc D17 D17	80 ... 6000	3 842 993 200 / L
1 pc D17V D17V	90 ... 6000	3 842 993 228 / L
4 pcs	6070	3 842 537 826

Profile finishing:

M12: in all core holes
D17: in slots B/H, C/G, D/F
D17V: in slots A/E

Quick & Easy (p. 2-8, see fold-out section)

50x150L	3 842 993 664 / ...
Length L (mm)	80 ... 6000
Standard profile finishes (note minimum length, p. 2-25)	M12 / M16 / D9.8 (B,C,D,F,G,H) ¹⁾ / D17 (B,C,D,F,G,H) ¹⁾ / DB17 / F1 (A,E) ¹⁾
Individual profile finishes (L _{max} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

¹⁾ For the specified slots

²⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 450 / 600 mm

100x100L

A = 29,9 cm²
I_x = 318,3 cm⁴
I_y = 318,3 cm⁴
W_x = 63,7 cm³
W_y = 63,7 cm³
m = 8,1 kg/m

10 10

100

19457

Cap	Color	ESD	No.
100x100 (1x)	Signal gray		20 3 842 548 824
100x100 (1x)	Black		20 3 842 548 825
Material:	PP		

100x100L	L (mm)	No.
1 pc	50 ... 6000	3 842 993 171 / L
1 pc M12	60 ... 6000	3 842 993 172 / L
1 pc M12 M12	110 ... 6000	3 842 993 173 / L
1 pc M12 D17	90 ... 6000	3 842 993 174 / L
1 pc D17	60 ... 6000	3 842 993 175 / L
1 pc D17 D17	80 ... 6000	3 842 993 176 / L
1 pc D17 D17V	80 ... 6000	3 842 993 177 / L
6 pcs	6070	3 842 529 355

Profile finishing:

M12: in all core holes
D17: in slots C/H, D/G
D17V: in slots A/F, B/E

Quick & Easy (p. 2-8, see fold-out section)

100x100L	3 842 993 685 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p. 2-25)	M12 / M16 / D9.8 / D17 / DB17 / F1
Individual profile finishes (L _{max} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

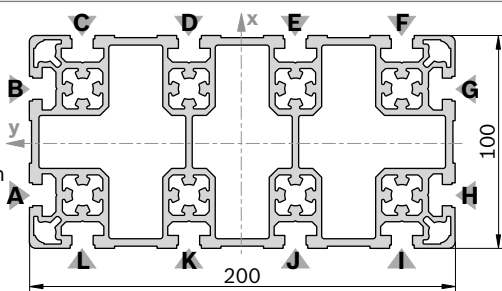
¹⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 474 / 648 mm

100x200L

$A = 54,0 \text{ cm}^2$
 $I_x = 2133,1 \text{ cm}^4$
 $I_y = 602,1 \text{ cm}^4$
 $W_x = 213,3 \text{ cm}^3$
 $W_y = 120,4 \text{ cm}^3$
 $m = 14,6 \text{ kg/m}$



19458



Cap	Color	ESD	No.
100x100 (2x)	Signal gray	20	3 842 548 824
100x100 (2x)	Black	20	3 842 548 825

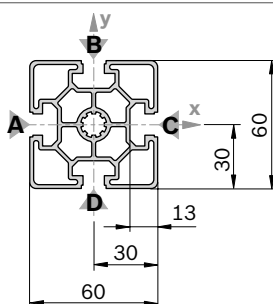
Material: PP

60x60L

$A = 9,6 \text{ cm}^2$
 $I_x = 32,4 \text{ cm}^4$
 $I_y = 32,4 \text{ cm}^4$
 $W_x = 10,8 \text{ cm}^3$
 $W_y = 10,8 \text{ cm}^3$
 $m = 2,6 \text{ kg/m}$



19459



Cap	Color	ESD	No.
60x60 (1x)	Signal gray	100	3 842 548 808
60x60 (1x)	Black	100	3 842 548 809

Material: PP

Cap with hole	Color	ESD	No.
60x60 (1x)	Signal gray	20	3 842 548 810
60x60 (1x)	Black	20	3 842 548 811

Material: PP

100x200L	L (mm)	No.
1 pc	50 ... 6000	3 842 993 178 / L
1 pc M12	60 ... 6000	3 842 993 179 / L
1 pc M12 M12	110 ... 6000	3 842 993 180 / L
1 pc M12 D17	90 ... 6000	3 842 993 181 / L
1 pc D17	60 ... 6000	3 842 993 182 / L
1 pc D17 D17	80 ... 6000	3 842 993 183 / L
1 pc D17V D17V	90 ... 6000	3 842 993 227 / L
3 pcs	6070	3 842 529 357

Profile finishing:

- M12: in all core holes
- D17: in slots C/L, D/K, E/J, F/I
- D17V: in slots A/H, B/G

Quick & Easy (p. 2-8, see fold-out section)

100x200L	3 842 993 687 / ...
Length L (mm)	50 ... 6000
Standard profile finishes (note minimum length, p.	M12 / M16 / D9.8 (C,D,E,F,I,J,K,L) ¹⁾ / D17 (C,D,E,F,I,J,K,L) ¹⁾ / DB17 / F1 (A,G) ¹⁾
Individual profile finishes (L _{max} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

¹⁾ For the specified slots

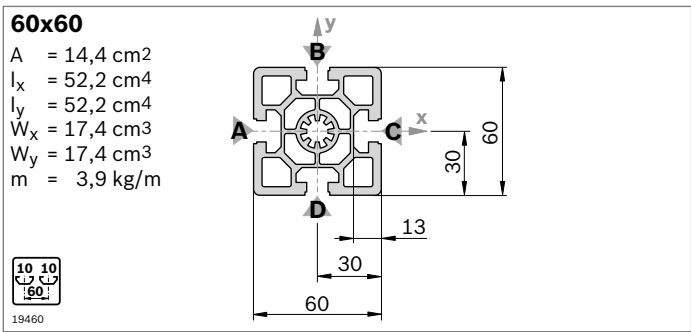
²⁾ DG_{max} = 30°; L_{min} = 416 / 532 mm

60x60L	L (mm)	No.
1 pc	50 ... 5600	3 842 992 443 / L
1 pc M12	60 ... 5600	3 842 992 444 / L
1 pc M12 M12	110 ... 5600	3 842 992 445 / L
1 pc M12 D17	90 ... 5600	3 842 992 446 / L
1 pc D17	60 ... 5600	3 842 992 449 / L
1 pc D17 D17	80 ... 5600	3 842 992 447 / L
1 pc D17 D17V	80 ... 5600	3 842 992 448 / L
20 pcs	5600	3 842 511 872

Quick & Easy (p. 2-8, see fold-out section)

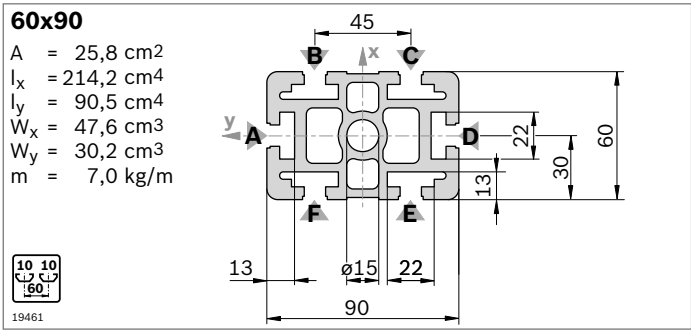
60x60L	3 842 993 670 / ...
Length L (mm)	50 ... 5600
Standard profile finishes (note minimum length, p. 2-25)	M12 / D9.8 / D17 / DB17
Individual profile finishes (L _{max} = 4900 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ DG_{max} = 45°; L_{min} = 404 / 508 mm



Cap	Color	ESD	No.
60x60 (1x)	Signal gray		100 3 842 548 808
60x60 (1x)	Black		100 3 842 548 809
Material:		PP	

Cap with hole	Color	ESD	No.
60x60 (1x)	Signal gray		20 3 842 548 810
60x60 (1x)	Black		20 3 842 548 811
Material:		PP	



Cap	Color	ESD	No.
60x90 (1x)	Signal gray		20 3 842 548 812
60x90 (1x)	Black		20 3 842 548 813
Material:		PP	

Cap with hole	Color	ESD	No.
60x90 (1x)	Black		20 3 842 514 663
Material:		PA	

Note: A quick connector cannot be used

60x60	L (mm)	No.
1 pc	50 ... 5600	3 842 990 350 / L
1 pc M12	60 ... 5600	3 842 990 351 / L
1 pc M12 M12	110 ... 5600	3 842 990 353 / L
1 pc M12 M16	180 ... 5600	3 842 990 354 / L
1 pc M12 D17	90 ... 5600	3 842 990 355 / L
1 pc M16	120 ... 5600	3 842 990 352 / L
1 pc M16 D17	170 ... 5600	3 842 990 373 / L
1 pc D17	50 ... 5600	3 842 990 370 / L
1 pc D17 D17	80 ... 5600	3 842 990 357 / L
1 pc D17 D17V	80 ... 5600	3 842 990 359 / L
20 pcs	5600	3 842 509 185

Quick & Easy (p. 2-8, see fold-out section)

60x60	3 842 993 668 / ...
Length L (mm)	50 ... 5600
Standard profile finishes (note minimum length, p.	M12 / M16 / D9,8 / D17 / DB17
Individual profile finishes ($L_{\max} = 4900 \text{ mm}$)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ $DG_{\max} = 45^\circ$; $L_{\min} = 404 / 508 \text{ mm}$

60x90	L (mm)	No.
1 pc	50 ... 5600	3 842 990 450 / ...
1 pc M16	120 ... 5600	3 842 990 453 / ...
1 pc M16 M16	240 ... 5600	3 842 990 454 / ...
1 pc M16 D17	170 ... 5600	3 842 992 962 / ...
1 pc M16 D17V	170 ... 5600	3 842 992 963 / ...
1 pc M16 F2	170 ... 5600	3 842 990 472 / ...
1 pc D17 D17	80 ... 5600	3 842 990 097 / ...
1 pc D17 D17V	80 ... 5600	3 842 990 099 / ...
1 pc D17V D17V	90 ... 5600	3 842 990 098 / ...
1 pc F1 F1	110 ... 5600	3 842 990 464 / ...
1 pc F1 F1V	110 ... 5600	3 842 990 481 / ...
1 pc F2 F2	110 ... 5600	3 842 990 478 / ...
10 pcs	5600	3 842 509 183

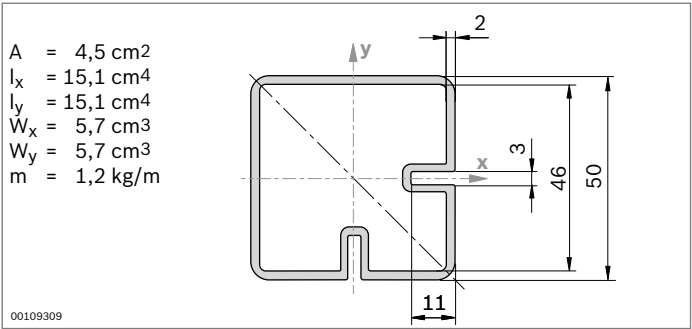
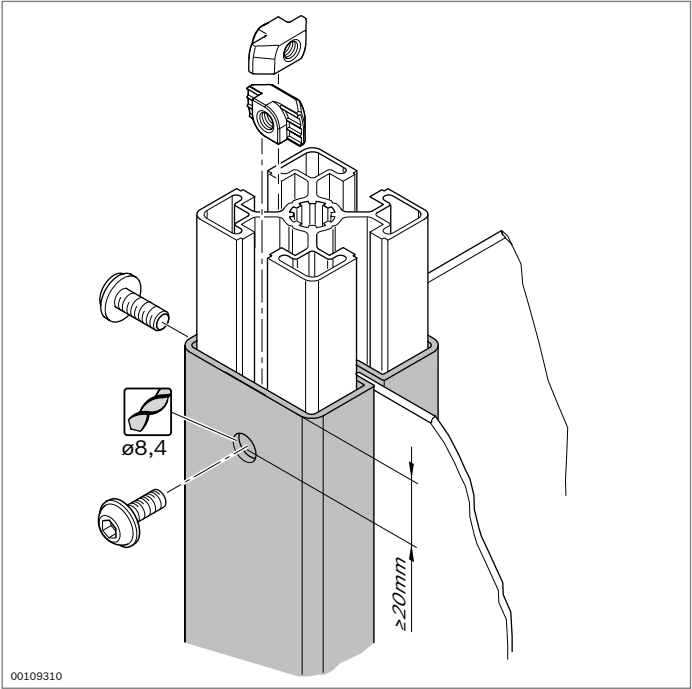
Profile finishing: D17: in slots B/F, C/E
D17V: in slots A/D

Quick & Easy (p. 2-8, see fold-out section)

60x90	3 842 993 671 / ...
Length L (mm)	50 ... 5600
Standard profile finishes (note minimum length, p. 2-25)	M16 / D9.8 / D17 / DB17 / F1 (A, D) ¹⁾
Individual profile finishes ($L_{\max} = 4900 \text{ mm}$)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ For the specified slots

¹⁾ $DG_{\max} = 45^\circ$; $L_{\min} = 456 / 612 \text{ mm}$



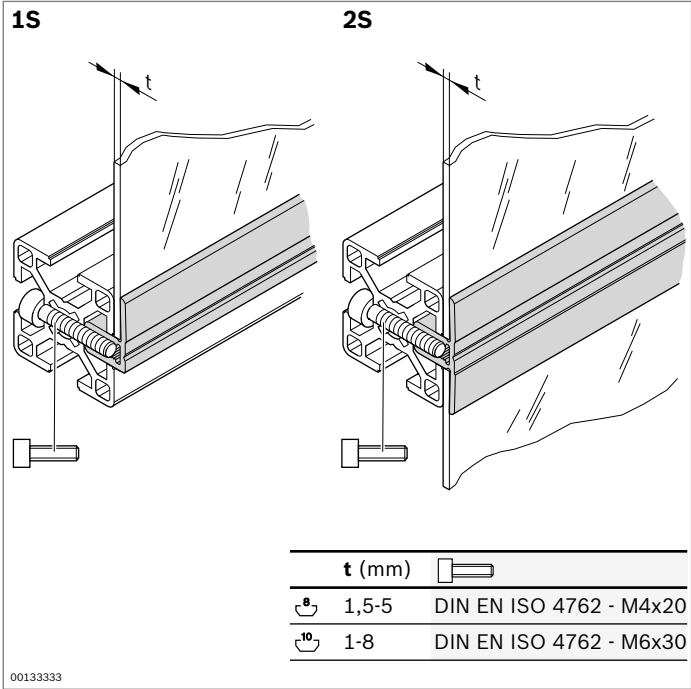
Rectangular tube



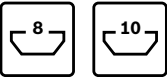
- For constructing manually height-adjustable frames
- Cutouts for holding surface elements
- Profile finishing: hole for screw

Required accessories:
fastening material

Rectangular tube		L (mm)	No.
1 pc		50 ... 5600	3 842 992 913 / L
6 pcs		5600	3 842 537 817



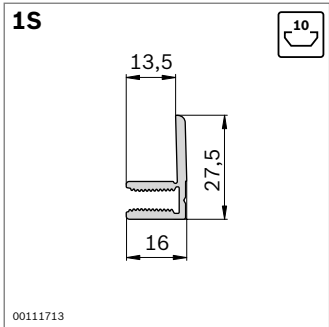
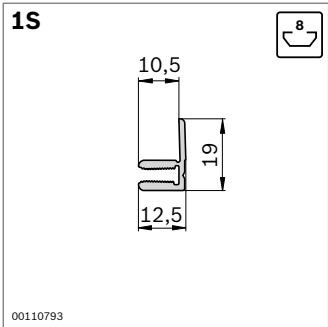
Clamping profile



- For simple fastening of panes, surface elements, or grilles on strut profiles
- For subsequent installation in closed frame constructions
- For surface elements with varying thicknesses
- Profile finishing: through-hole for mounting screw

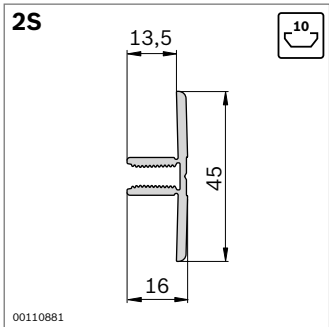
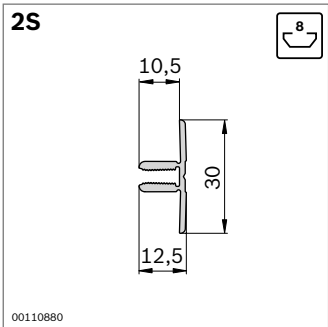
Required accessories:

- Cylinder head bolt DIN EN ISO 4762 – M4x20 (8 mm slot)
- Cylinder head bolt DIN EN ISO 4762 – M6x30 (10 mm slot)



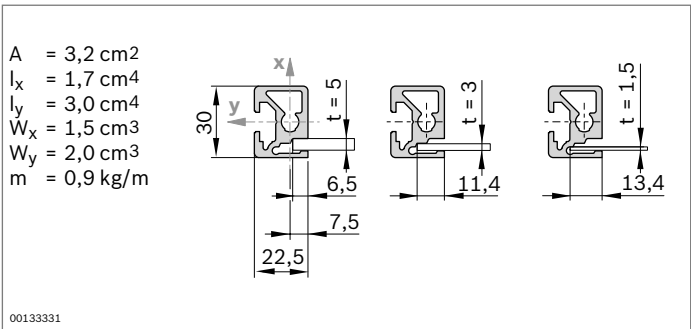
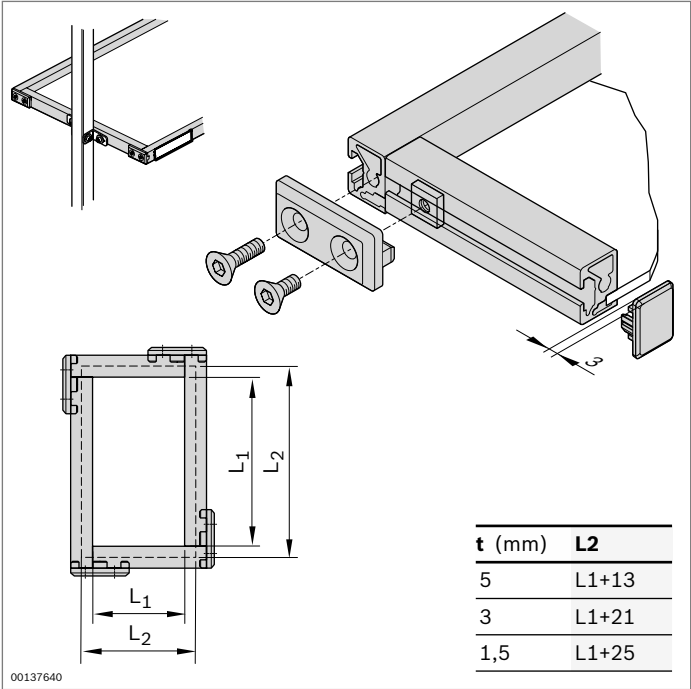
Clamping profile 1S		Slot	L (mm)	No.
1 pc		8	50 ... 3000	3 842 993 017 / L
10 pcs		8	3000	3 842 524 058
1 pc		10	50 ... 3000	3 842 993 019 / L
10 pcs		10	3000	3 842 524 064

Material: Aluminum, anodized

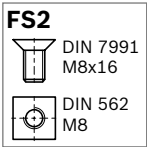
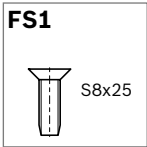
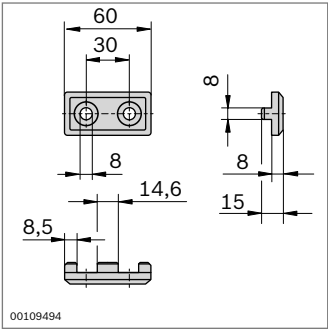


Clamping profile 2S		Slot	L (mm)	No.
1 pc		8	50 ... 3000	3 842 993 018 / L
10 pcs		8	3000	3 842 524 061
1 pc		10	50 ... 3000	3 842 993 020 / L
10 pcs		10	3000	3 842 524 067

Material: Aluminum, anodized



Cap	Color	ESD	No.
22.5x30	Black		20 3 842 516 720



Frame profile 22.5x30



- For inexpensive construction of tablets and material shelves
- Surface elements are mounted under tension so that they do not rattle

Accessories, optional:

- Bracket set M6 (p. 3-28)
- Swivel fastening (p. 4-10)
- Lettering clip for 8 mm slot (p. 2-79)
- Plate (p. 2-59)

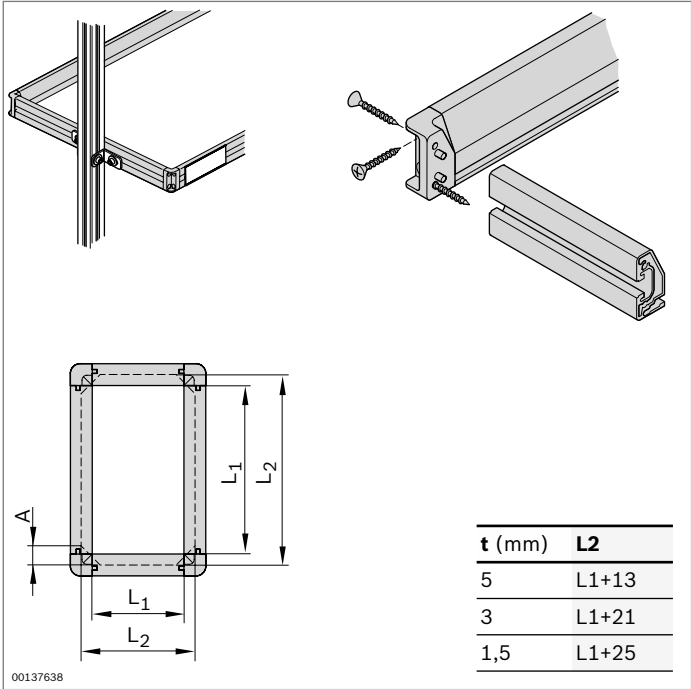
Frame profile 22.5x30	Slot	L (mm)	No.
1 pc		8 50 ... 5600	3 842 992 493 / L
20 pcs		8 5600	3 842 515 229
Material: Aluminum, anodized			

Corner piece for frame profile 22.5x30

- For perpendicular connections between two frame profiles 22.5x30
- Profile finishing: not required

Corner piece	ESD	No.	FS
	20	3 842 535 661	FS1, FS2

Material: PA; black
Scope of delivery: Incl. fastening material (FS)



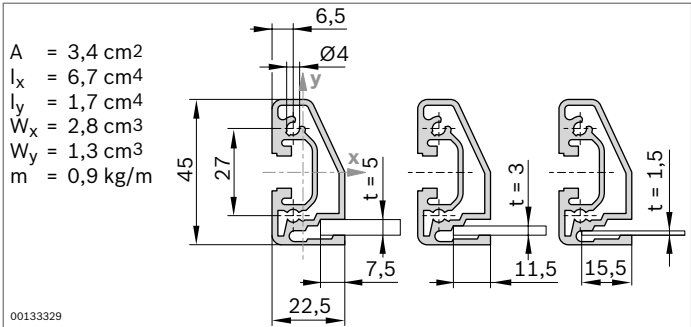
Frame profile 22.5x45



- For inexpensive construction of tablets and material shelves
- Surface elements are mounted under tension so that they do not rattle

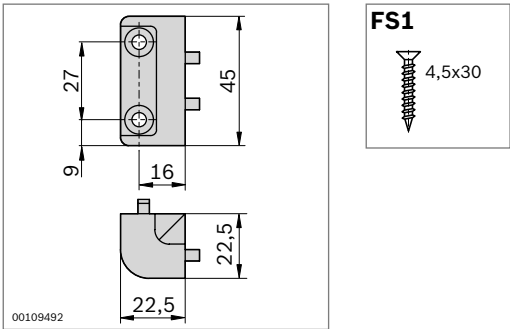
Accessories, optional:

- Bracket set (p. 3-30)
- Swivel fastening (p. 4-10)
- Lettering clip for 10 mm slot (p. 2-79)
- Plate (p. 2-59)



Frame profile 22.5x45	Slot	L (mm)	No.
1 pc	10	50 ... 5600	3 842 992 411 / L
20 pcs	10	5600	3 842 508 102

Material: Aluminum, anodized

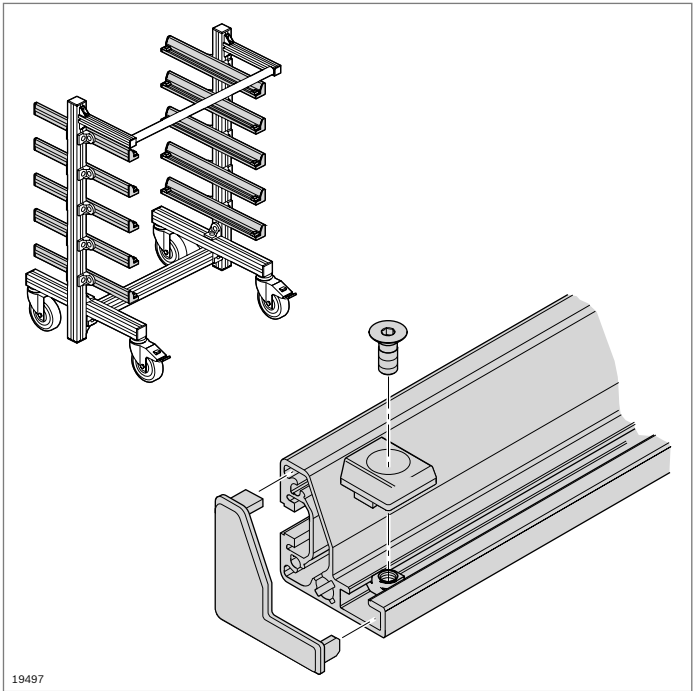


Corner piece for frame profile 22.5x45

- For perpendicular connections of two frame profiles 22.5x45
- Profile machining: not required

Corner bracket	ESD	No.	FS
	20	3 842 535 637	4xFS1

Material: Diecast zinc
Scope of delivery: Incl. fastening material (FS)

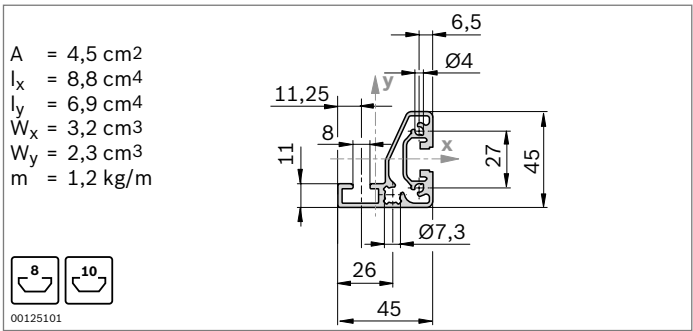


Angle profile



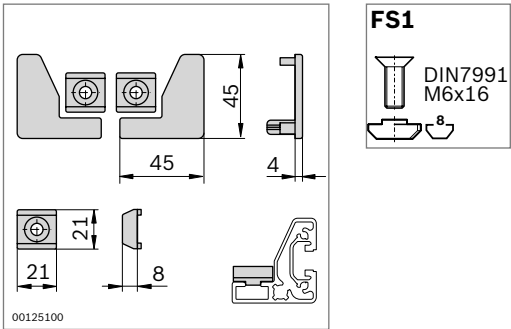
- For supporting containers, plates, or workpiece pallets in flow racks, material shuttles, or hopper stackers

Accessories:
Bracket R40x43 (p. 3-29)



Angle profile		L (mm)	No.
1 pc		50 ... 5600	3 842 992 412 / L
20 pcs		5600	3 842 508 104

Material: Aluminum, anodized

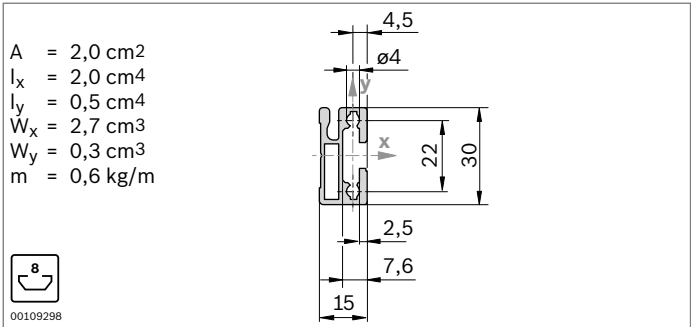
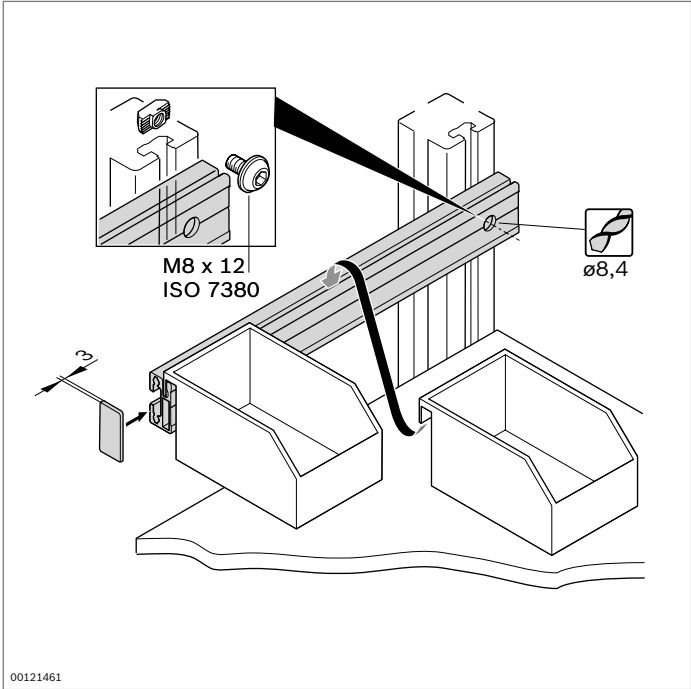


Stopper and cap

- Stoppers prevent containers from sliding on the angle profile
- Cap to prevent injuries at open profile ends
- Attractive design

Stopper, cap	No.	FS
20	3 842 508 116	2xFS1

Material: PA; black
Fastening material: steel; galvanized
Scope of delivery: Incl. fastening material (FS)



Cap	Color	ESD	No.
15x30	black		20 3 842 338 990

Suspension profile



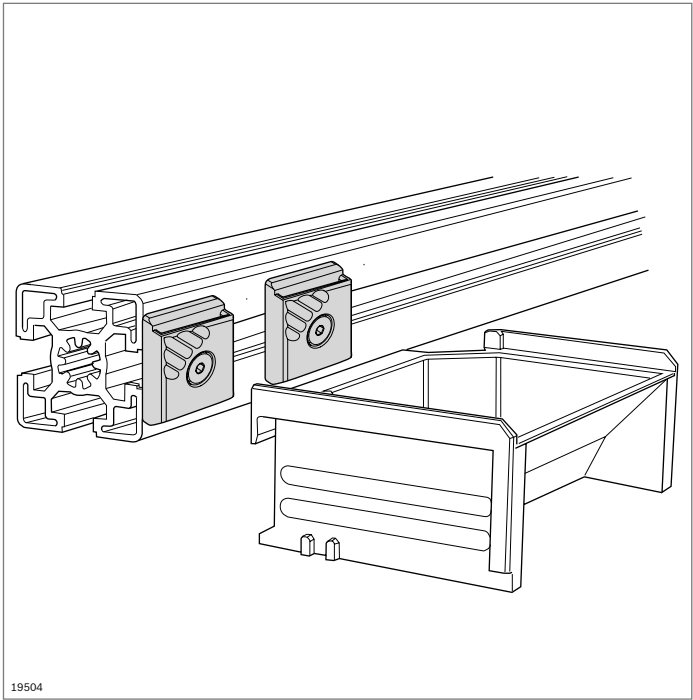
- For the fast, secure suspension of grab containers, grab ledges, grab trays, and tool holders
- Profile finishing:
Through hole for screwdriver
- Matching grab containers in the Manual Production Systems catalog (**3 842 538 280**)

Required accessories:

- Screw
- T-nut (p. 3-4)

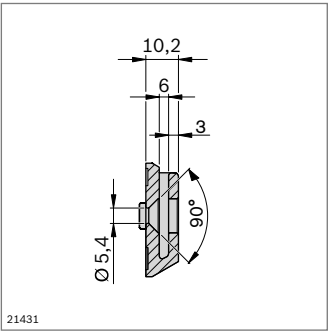
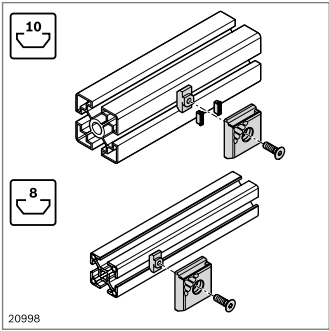
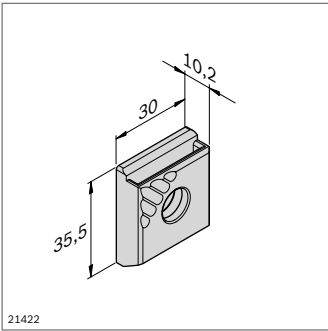
Suspension profile	L (mm)	ESD	No.
1 pc	50 ... 3000		3 842 993 411 / L
10 pcs	3000		3 842 537 679
1 pc	50 ... 3000		3 842 993 359 / L
10 pcs	3000		3 842 537 681

Material: Suspension profile: aluminum, anodized
ESD suspension profile: aluminum, transparent chromated

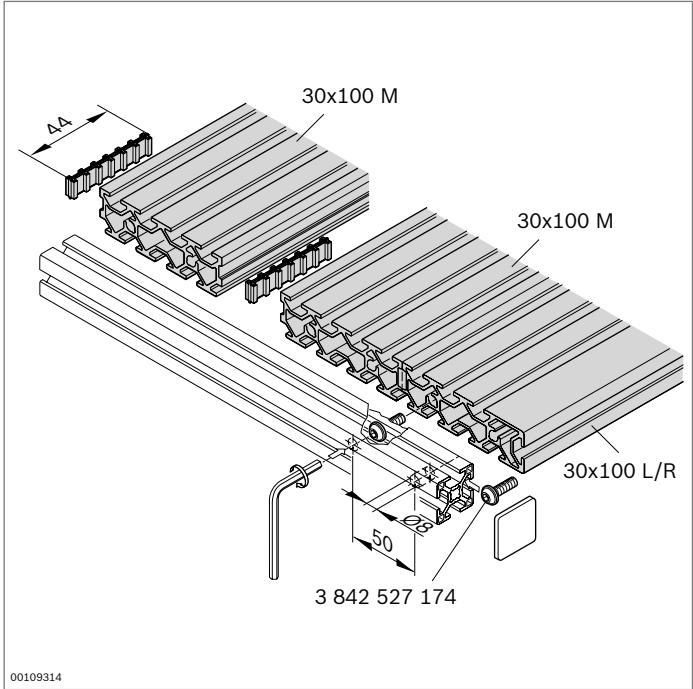


Container mount

- ▶ Container mount for mounting tool holders, grab containers, grab trays, and grab ledges
- ▶ Suitable for 8 mm and 10 mm slot



Container mount		ESD	No.
	10		3 842 544 797
Material:	PA 66; black		
	Fastening material: steel; galvanized		
Scope of delivery:	Incl. fastening material (FS)		

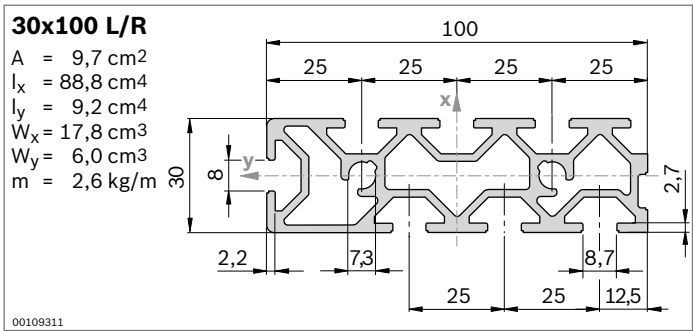


Slotted plate 30x100

- ▶ Modular plate profiles with multiple slots for experimental constructions of any size
- ▶ Slot spacing 25 mm
- ▶ Slot size 8.9 mm
- ▶ 8 mm slot connectors may be used

Accessories, optional:

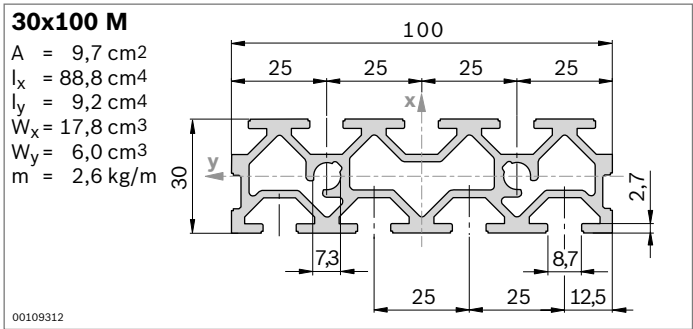
- ▶ Profile 30x30 (p. 2-17)
- ▶ Sliding block



- ▶ Slotted plate **30x100 L/R** with lateral 8 mm slot as outer stop

Slotted plate 30x100 L/R	Slot	L (mm)	No.
1 pc 	8	100 ... 5600	3 842 993 337 / L
 18 pcs 	8	5600	3 842 542 696

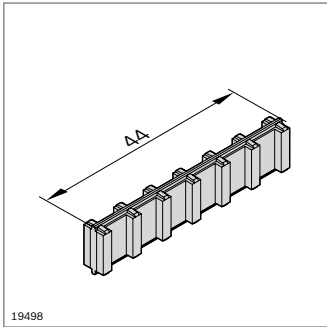
Material: Aluminum, anodized



- ▶ Slotted plate **30x100 M** for constructing slotted plates of any width

Slotted plate 30x100 M	Slot	L (mm)	No.
1 pc 	8	100 ... 5600	3 842 993 336 / L
 18 pcs 	8	5600	3 842 542 698

Material: Aluminum, anodized

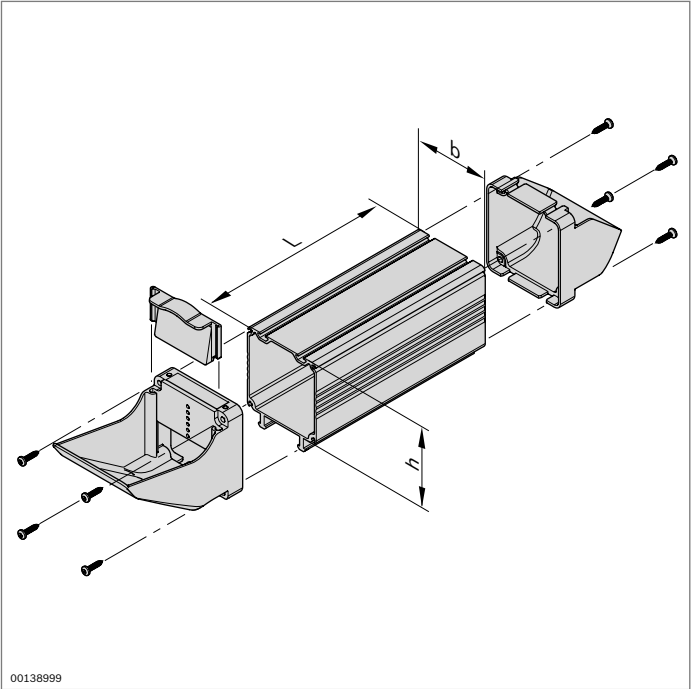


Sliding block

- ▶ For connecting slotted plates 30x100
- ▶ Recommendation: use 3 sliding blocks per meter of profile length

Sliding block	No.
	100 3 842 520 922

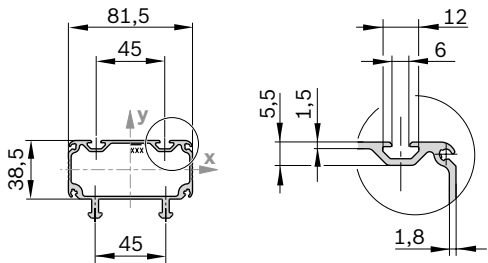
Material: PA



**Material chute
refill end-piece, grab ledge, grab container base**

- ▶ Small parts within easy reach on the workstation
- ▶ Components for the individual construction of stable Vario grab containers
- ▶ Customizable holding capacity

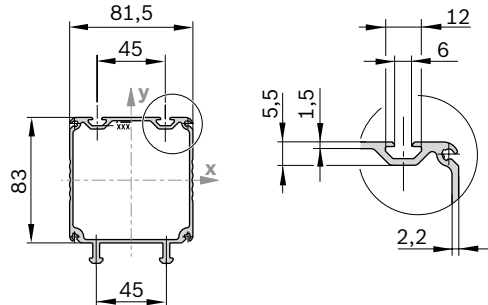
90x45
A = 7,0 cm²
I_x = 20,7 cm⁴
I_y = 54,3 cm⁴
m = 1,8 kg/m



19908

Material chute 90x45		L (mm)	No.
1 pc		50 ... 3000	3 842 993 071 / L
3 pcs		3000	3 842 526 671
Material: Aluminum, anodized			

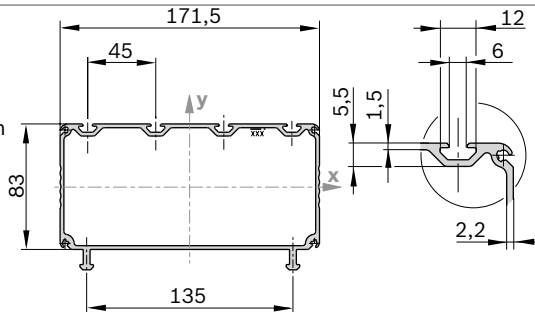
90x90
A = 9,6 cm²
I_x = 118,8 cm⁴
I_y = 88,1 cm⁴
m = 2,5 kg/m



19599

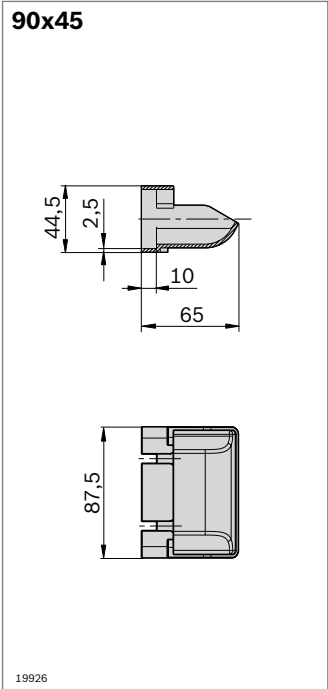
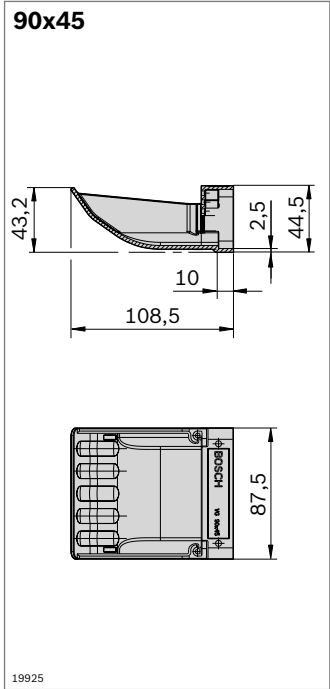
Material chute 90x90		L (mm)	No.
1 pc		50 ... 3000	3 842 993 072 / L
3 pcs		3000	3 842 526 672
Material: Aluminum, anodized			

180x90
A = 15,5 cm²
I_x = 208,2 cm⁴
I_y = 597,5 cm⁴
m = 4,2 kg/m



19909

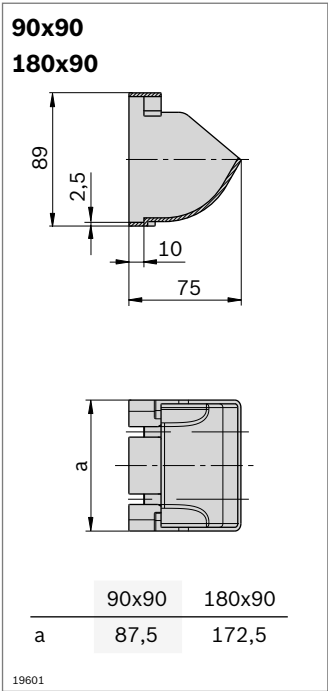
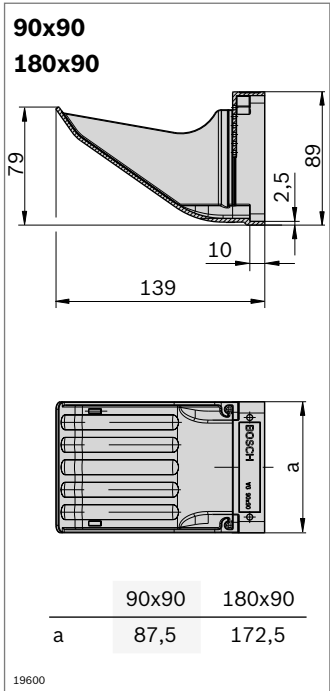
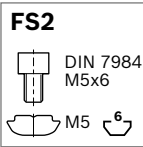
Material chute 180x90		L (mm)	No.
1 pc		50 ... 3000	3 842 993 073 / L
3 pcs		3000	3 842 526 673
Material: Aluminum, anodized			



- ▶ Refill end-piece with large opening for easy filling
- ▶ Ergonomically designed grab ledge for easy, safe grabbing
- ▶ Grab container pusher for closing

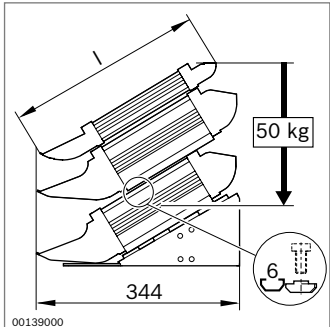
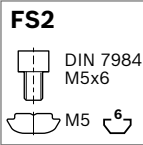
Grab ledge and refill end-piece	No.	FS
90 x 45	3 842 526 626	8xFS1, FS2

Material: Plastic ABS, light gray RAL 7035
Fastening material: steel; galvanized
Scope of delivery: Incl. fastening material (FS)



Grab ledge and refill end-piece	No.	FS
90 x 90	3 842 526 627	8xFS1, FS2
180 x 90	3 842 526 628	8xFS1, FS2

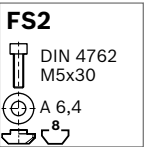
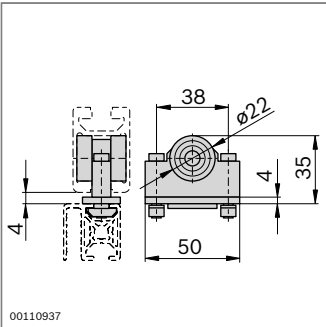
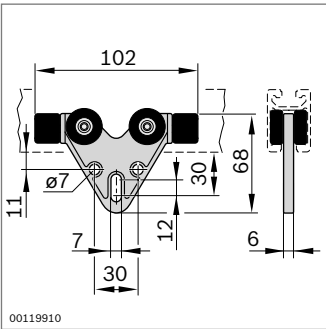
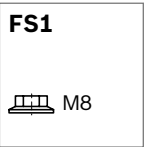
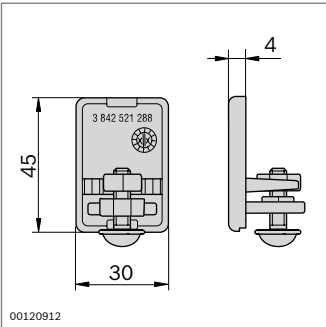
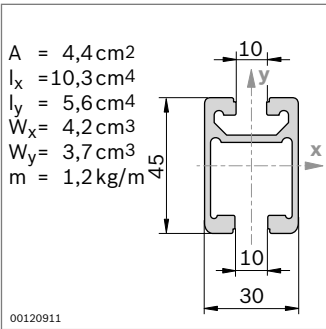
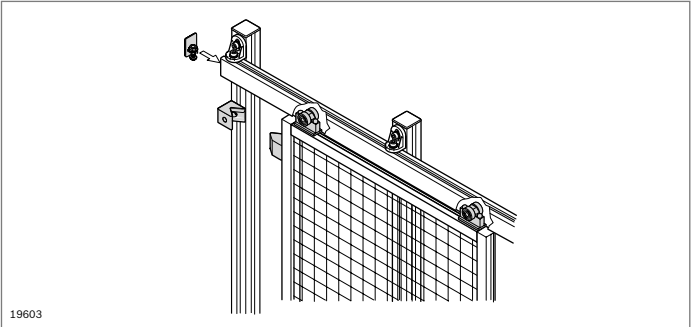
Material: Plastic ABS, light gray RAL 7035
Fastening material: steel; galvanized
Scope of delivery: Incl. fastening material (FS)



- ▶ Grab container base for an ergonomically optimized arrangement of grab containers

Grab container base	w x h x l (mm)	No.
SG 90	90 x 149 x 315	3 842 526 660
SG 180	180 x 149 x 315	3 842 526 665

Material: Sheet steel, light gray powder coating (RAL 7035)



Profile rail, trolley

- Profile rail and trolley for movable mounting of parts, e.g. for use as a screwdriver hanger at work tables or for EcoSafe sliding doors (p. 10-14)

Accessories:
See page 12-4

Profile rail 30x45C		L (mm)	No.
1 pc		50 ... 5600	3 842 992 946 / L
20 pcs		5600	3 842 523 598
Material:		Aluminum, anodized	

End piece

- With screw protection
- As stop for trolley

End piece 30x45C	No.	FS
20	3 842 521 513	FS1
Material:		Aluminum, anodized
Scope of delivery: Incl. fastening material (FS)		

Trolley

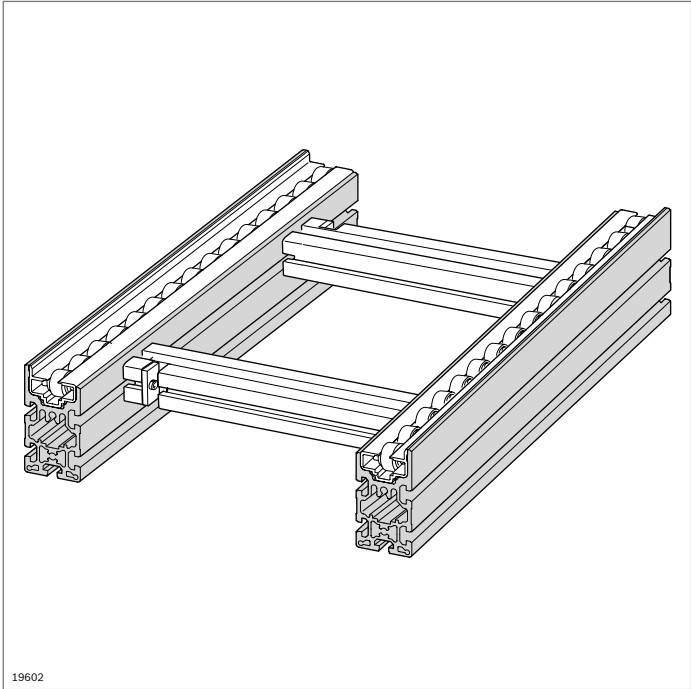
- Trolley with ring, e.g. for hanging a spring hook

Trolley for profile rail 30x45C		No.
		3 842 521 510
Material:	Injection molded plastic	

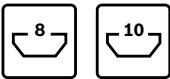
Trolley

- Trolley with dust-proof ball bearings for smooth movement
- For fastening profiles with a 8 mm slot

Trolley	No.	FS
	3 842 524 153	FS2
Material:		PA; black
Scope of delivery: Incl. fastening material (FS)		



Profiles for installing conveyor media



- Profiles that are normally used to construct the transfer systems TS 2*plus* and TS 4, as well as Lean conveyor tracks, are also suitable for the construction of manual conveyor sections. Detailed information is available in chapter 12 “Elements for manual movement” and in the respective special catalogs

U-profile

$A = 4,4 \text{ cm}^2$
 $I_x = 10,3 \text{ cm}^4$
 $I_y = 8,3 \text{ cm}^4$
 $W_x = 4,6 \text{ cm}^3$
 $W_y = 4,1 \text{ cm}^3$
 $m = 1,2 \text{ kg/m}$

19902

U-profile	Slot	L (mm)	ESD No.
1 pc	10	50 ... 6000	3 842 993 316 / L
20 pcs	10	6070	3 842 535 115
1 pc	10	50 ... 6000	3 842 995 027 / L
20 pcs	10	6070	3 842 541 814

Material: U-profile: aluminum, anodized
 U-profile ESD: aluminum, untreated

SP 2/R

$A = 5,2 \text{ cm}^2$
 $I_x = 4,3 \text{ cm}^4$
 $I_y = 11,7 \text{ cm}^4$
 $W_x = 2,4 \text{ cm}^3$
 $W_y = 5,2 \text{ cm}^3$
 $m = 1,4 \text{ kg/m}$

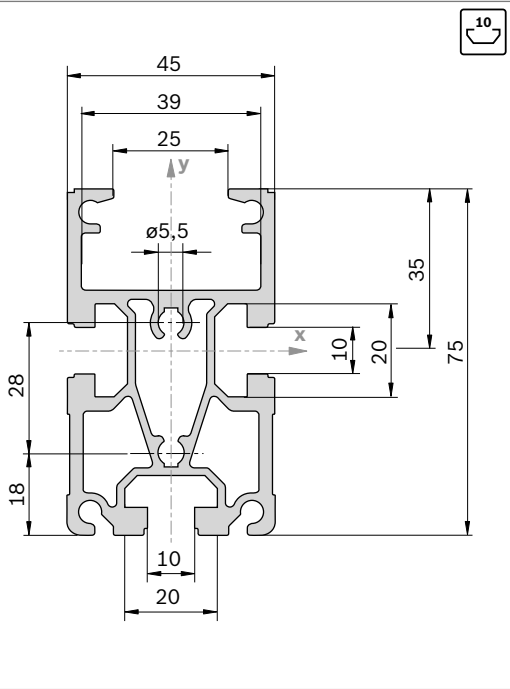
19893

Section profile SP 2/R	L (mm)	No.
	50 ... 6000	3 842 992 676

Material: Aluminum, natural-colored, anodized

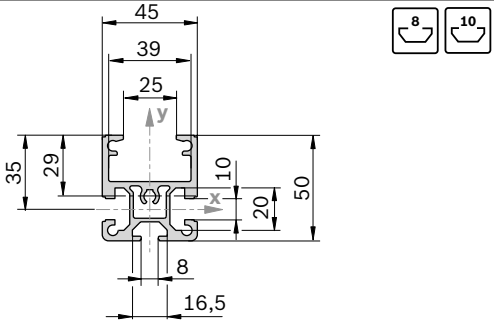
SP 2/B

A = 10,4 cm²
I_x = 49,6 cm⁴
I_y = 25,8 cm⁴
W_x = 12,1 cm³
W_y = 11,5 cm³
m = 2,8 kg/m



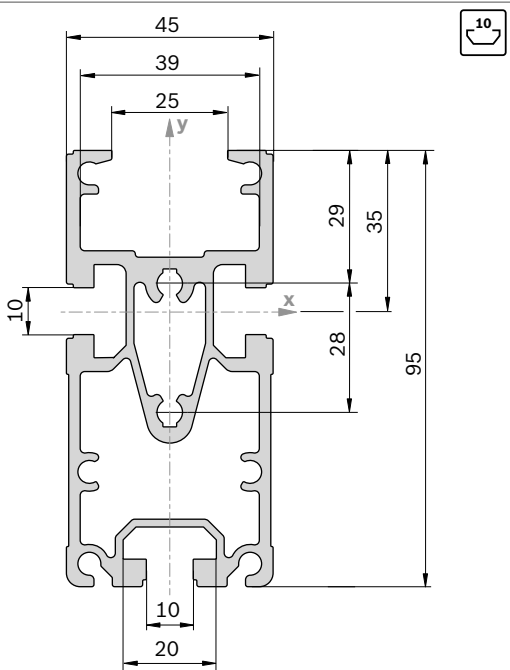
SP 2/B-50

A = 6,9 cm²
I_x = 16,1 cm⁴
I_y = 16,9 cm⁴
W_x = 5,3 cm³
W_y = 7,5 cm³
m = 1,9 kg/m



SP 2/B-100

A = 11,9 cm²
I_x = 95,1 cm⁴
I_y = 30,4 cm⁴
W_x = 20,0 cm³
W_y = 13,5 cm³
m = 3,2 kg/m



Section profile SP 2/B	Slot	L (mm)	No.
1 pc	10	200 ... 6000	3 842 992 884 / L
16 pcs	10	6070	3 842 532 695

Material: Aluminum, natural-colored, anodized

Section profile SP 2/B-50	Slot	L (mm)	No.
1 pc	8 / 10	200 ... 6000	3 842 992 903 / L
20 pcs	8 / 10	6070	3 842 532 697

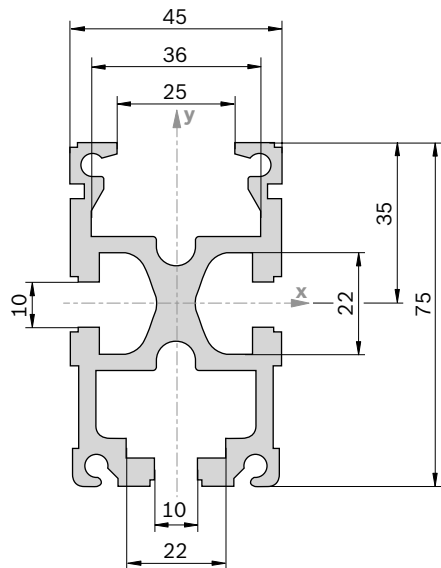
Material: Aluminum, natural-colored, anodized

Section profile SP 2/B-100	Slot	L (mm)	No.
1 pc	10	200 ... 6000	3 842 993 259 / L
16 pcs	10	6070	3 842 532 608

Material: Aluminum, natural-colored, anodized

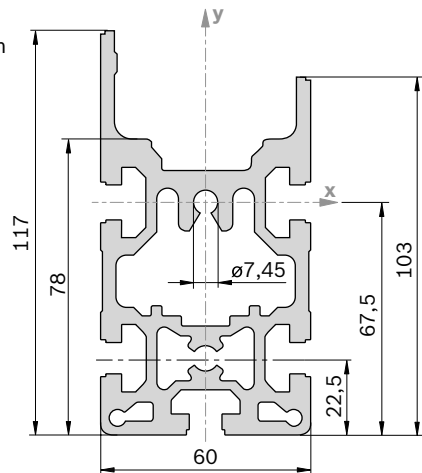
SP 2/BH

A = 12,4 cm²
I_x = 53,7 cm⁴
I_y = 28,6 cm⁴
W_x = 14,0 cm³
W_y = 13,8 cm³
m = 3,3 kg/m



SP 4/R

A = 26,1 cm²
I_x = 222,0 cm⁴
I_y = 95,5 cm⁴
W_x = 84,9 cm³
W_y = 16,4 cm³
m = 3,5 kg/m



19906

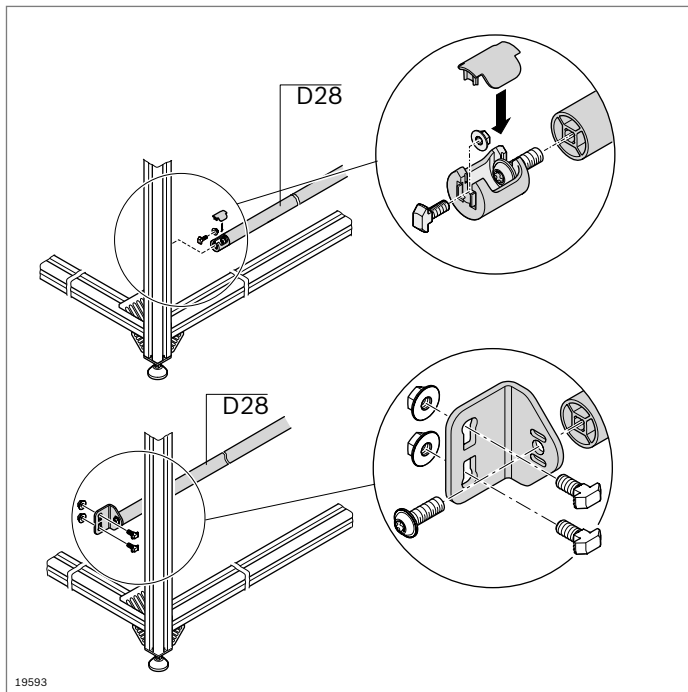
19907

Section profile SP 2/BH		Slot	L (mm)	No.
1 pc		10	200 ... 6000	3 842 990 409 / L
16 pcs		10	6070	3 842 532 696

Material: Aluminum, natural-colored, anodized

Section profile SP 4/R		Slot	L (mm)	No.
10 pcs		10	6000	3 842 532 505

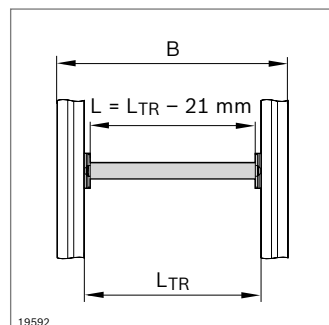
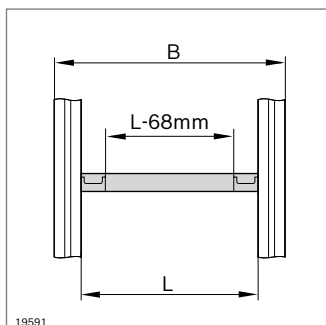
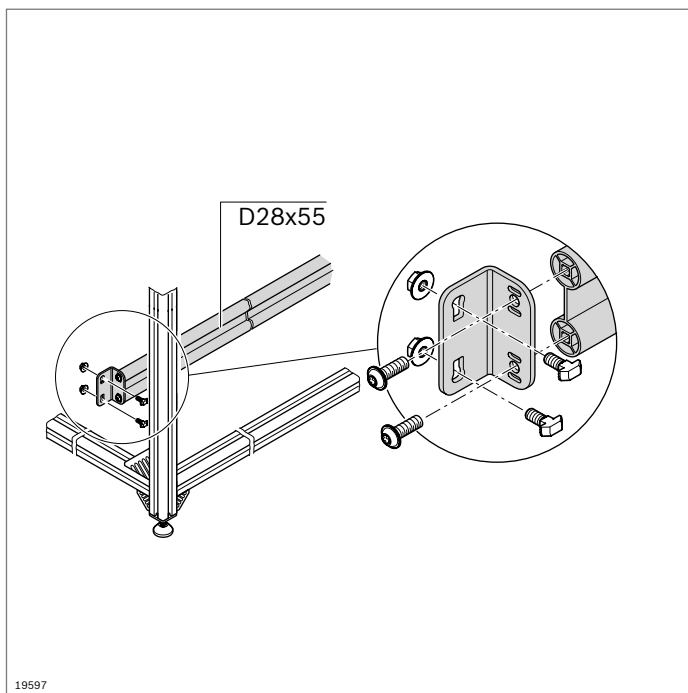
Material: Aluminum, natural-colored, anodized



Round tube D28, strut profile D28x55 bracket, T-connector



- For constructing cross ties in flow racks or workstations
- Designed for heavy loads
- Use of brackets makes for easy assembly
- Elongated hole in the mounting bracket for longitudinal compensation
- Central holes can be used for self-tapping screws S8x25 (p. 3-38)
- For matching components to construct conveyor tracks, see chapter 12 “Elements for manual movement”



D28

A = 2,4 cm²

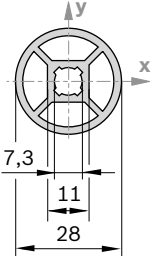
$I_x = 1,5 \text{ cm}^4$

$I_y = 1,5 \text{ cm}^4$

$W_x = 1,1 \text{ cm}^3$

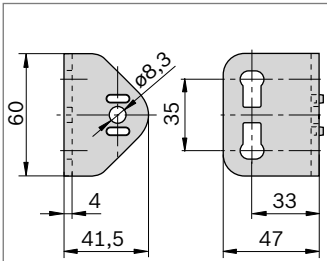
$W_y = 1,1 \text{ cm}^3$

m = 0,7 kg/m



19505

Cap D28	Color	ESD	No.
	Gray		20 3 842 537 718
	Black		20 3 842 535 835



FS1

M8

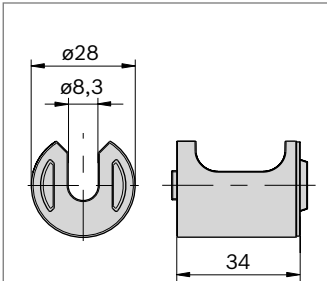
M8x20

10

FS2

S8x25 - T40

19596



FS2

S8x25 - T40

FS3

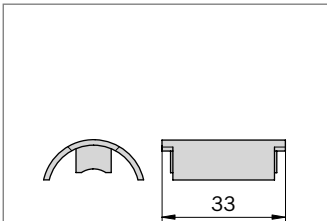
EN1661

M8

M8x20

10

19594



19595

Round tube D28	L (mm)	No.
1 pc	50 ... 6000	3 842 993 317 / L
20 pcs	6070	3 842 535 118

Material Aluminum, anodized

Accessories, optional: Lettering clip (p. 2-84)

Holding bracket for round tube D28

- For mounting a round tube D28 to a strut profile with a 10 mm slot
- Extremely simple mounting thanks to easy adjustment of the installation height

Bracket 60x47x4	No.	FS
	20 3 842 536 002	2xFS1, FS2

Material: Steel; galvanized

Scope of delivery: Incl. fastening material (FS)

T-connector for round tube D28

- For mounting a round tube D28 to a strut profile with a 10 mm slot
- Without interfering contours

T-connector D28	No.	FS
	20 3 842 532 879	FS2, FS3

Material: T-connector: diecast aluminum

Cover cap: ABS; black

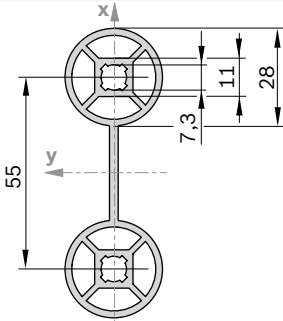
Scope of delivery: Incl. cap, fastening material (FS)

Cap D28	No.
	20 3 842 532 878

Material: ABS; black

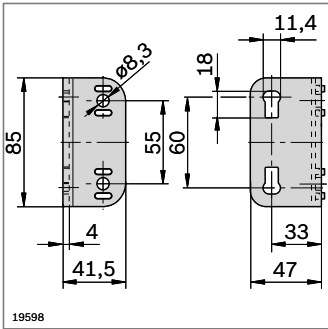
D28x55

A = 5,9 cm²
I_x = 3,2 cm⁴
I_y = 88,3 cm⁴
W_x = 2,3 cm³
W_y = 23,1 cm³
m = 1,6 kg/m

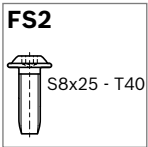
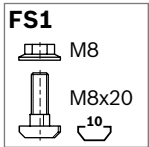


19468

Cap D28	Color	ESD	No.
(2x)	Gray	20	3 842 537 718
(2x)	Black	20	3 842 535 835



19598



Strut profile D28x55	L (mm)	No.
1 pc	100 ... 6000	3 842 993 489 / L
20 pcs	6070	3 842 537 477

Material: Aluminum, anodized
Accessories, optional: Lettering clip (p. 2-84)

Bracket 85x47x4

- For mounting a strut profile D28x55 to a strut profile with a 10 mm slot
- Extremely simple mounting thanks to easy adjustment of the installation height

Bracket 85x47x4	No.	FS
20	3 842 536 730	2xFS1, 2xFS2

Material: Steel; galvanized
Scope of delivery: Incl. fastening material (FS)

EcoShape tubular framing system



- ▶ All connectors can be combined with the EcoShape round tubes D28L and D28L, N10, and the D28 round tube
- ▶ Integrated poka-yoke system for easy and secure connector installation
 - Anti-torsion element for secure joints
 - Positive interlocking connection
- ▶ All connectors are suitable for building ESD-conductive systems.

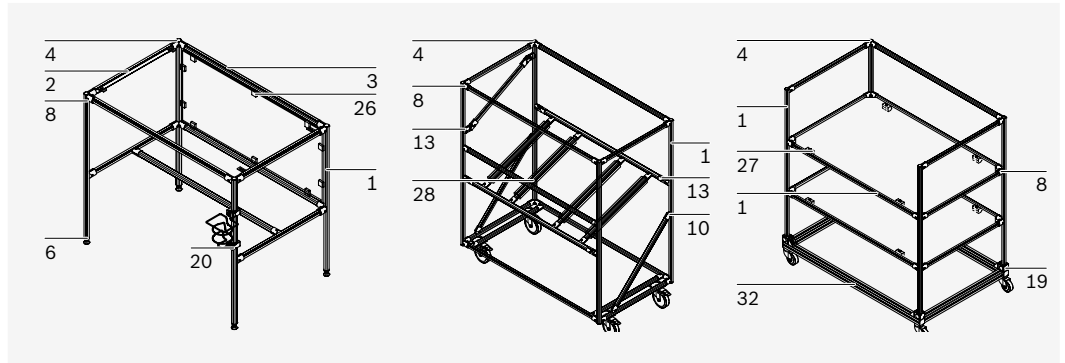
Material: Diecast zinc

Scope of delivery: incl. fastening material

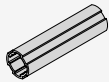


31 components – a myriad of options

The EcoShape system is characterized by its consistent simplicity and efficiency: using just a few components, you can build complete assembly lines as well as simple transport shuttles.

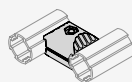


1 D28L
round tube



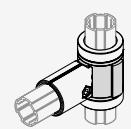
24878

9 Parallel
connector



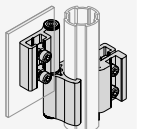
24886

17 Swivel
bearing
D28L



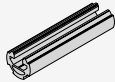
24894

25 Hinge
D28L/-



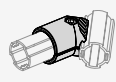
24902

2 D28L, N10
round tube



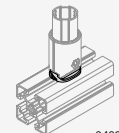
24879

10 45°
connector



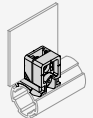
24887

18 N8, N10
adapter



24895

26 Variofix
block PA



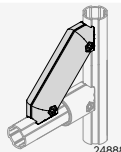
24903

3 Slide rail



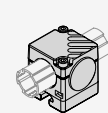
24880

11 Strut D28L,
45°



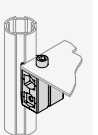
24888

19 N10/45
adapter



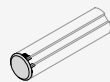
24896

27 Variofix
Block Zn



24904

4 Cap D28L



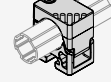
24881

12 Cross
connector



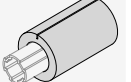
24889

20 N10/30
adapter



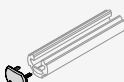
24897

28 Impact
protection
device



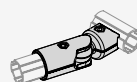
24905

5 Cap D28L,
N10



24882

13 0°-90°
Connector



24890

21 Adapter fix
D28L



24898

29 Ring D50



24906

6 Threaded
sleeve
D28L; PA



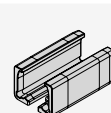
24883

14 0°-90° D28
connector



24891

22 XLean
adapter



24899

30 Rubber foot
D28



24907

7 Threaded
sleeve
D28L, Zn



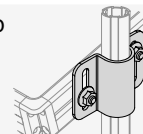
24884

15 Corner
piece D28



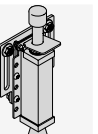
24892

23 Tube clamp
D28L, N10



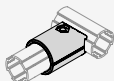
24900

31 Stopper
D28L, N10



24908

8 90°
connector



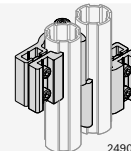
24885

16 Retaining
ring D28L



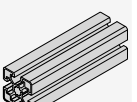
24893

24 Hinge
D28L/D28L



24901

32 Profile
45x45L



24909

1

A = 1,8 cm²

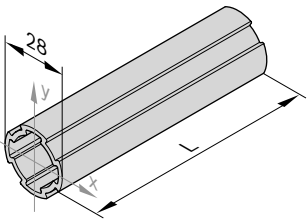
$I_x = 1,3 \text{ cm}^4$

$I_y = 1,3 \text{ cm}^4$

$W_x = 1,0 \text{ cm}^3$

$W_y = 1,0 \text{ cm}^3$

m = 0,5 kg/m



00134985

- ▶ Round tube D28L with 4 interfaces for attaching EcoShape connectors

Round tube D28L		L (mm)	No.
1 pc		50 ... 5600	3 842 996 191/L
50 pcs		5600	3 842 541 211
Material: Aluminum, anodized			

2

A = 2,6 cm²

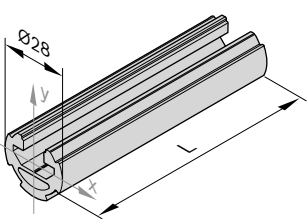
$I_x = 1,2 \text{ cm}^4$

$I_y = 2,0 \text{ cm}^4$

$W_x = 0,8 \text{ cm}^3$

$W_y = 1,4 \text{ cm}^3$

m = 0,7 kg/m

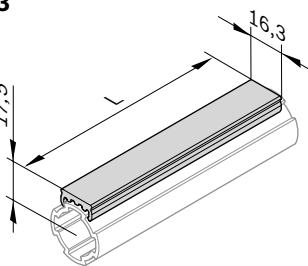


00134986

- ▶ Round tube D28L, N10 with a 10 mm slot for mounting accessories from the modular aluminum framing system
- ▶ 3 interfaces for attaching EcoShape connectors

Round tube D28L, N10		L (mm)	No.
1 pc		50 ... 5600	3 842 996 192/L
20 pcs		5600	3 842 541 213
Material: Aluminum, anodized			

3

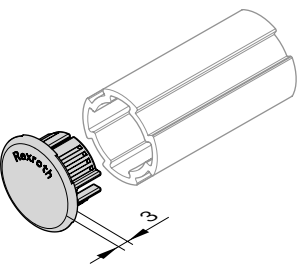


00134987

- ▶ Slide rail for creating a simple conveyor track or manual slide section by clipping the slide rail onto the round tube D28L or D28L, N10

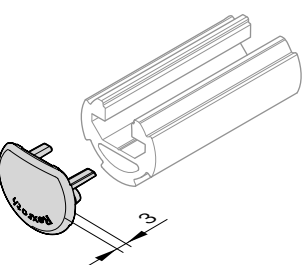
Slider rail	L (mm)	ESD		No.
	2000	10		3 842 541 196
	2000		10	3 842 548 117
Material: PVC; gray ESD: PVC (conductive); black				

4



24132

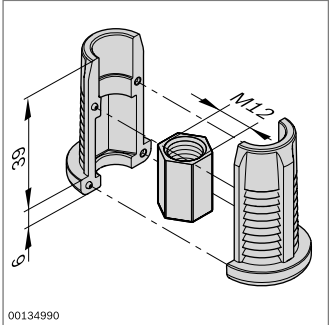
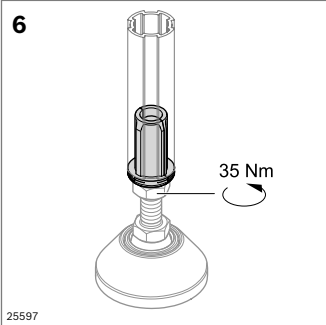
5



24133

- ▶ Cap for round tube D28L and D28L, N10

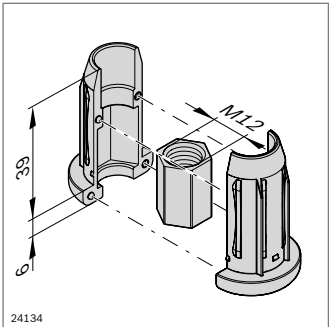
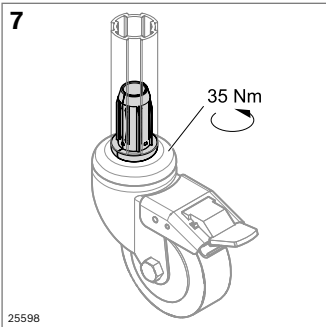
Cap	ESD		No.
4 D28L		20	3 842 548 129
5 D28L, N10		20	3 842 548 130
Material: PA66 (conductive); black			



► Threaded sleeve for incorporating a leveling foot or caster. For further information (see p. 6-7)

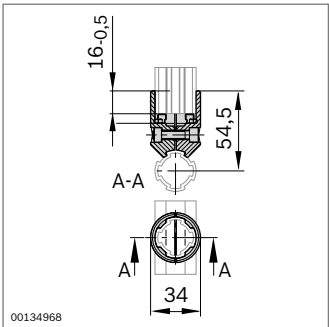
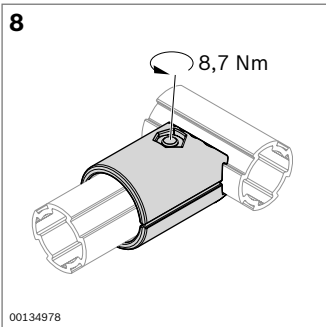
Threaded sleeve D28L, PA	ESD	No.
	20	3 842 541 185

Material: PA66 (conductive); black
Hexagon nut: aluminum



Threaded sleeve D28L, Zn	ESD	No.
	20	3 842 548 119

Material: Diecast zinc
Hexagon nut: aluminum



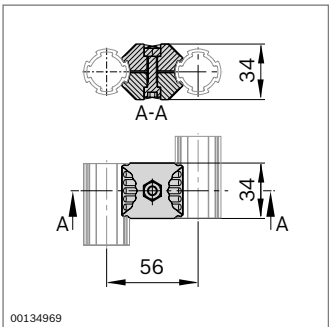
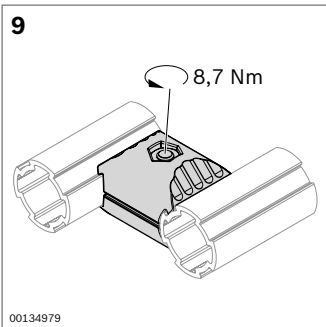
90° connector	ESD	No.	FS
	20	3 842 541 173	FS1

Material: Diecast zinc
Scope of delivery: Incl. fastening material (FS)

FS1

ISO 4762
M6x25

ISO 4032
M6



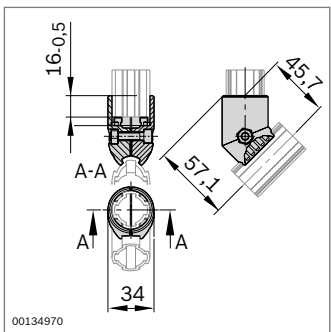
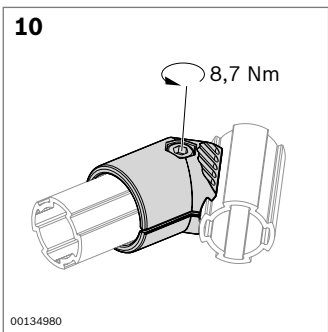
Parallel connector	ESD	No.	FS
	20	3 842 541 183	FS1

Material: Diecast zinc
Scope of delivery: Incl. fastening material (FS)

FS1

ISO 4762
M6x25

ISO 4032
M6



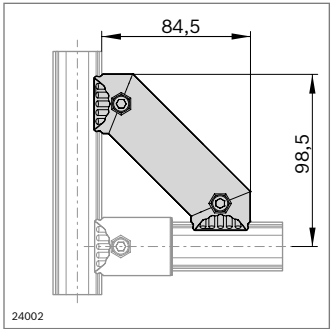
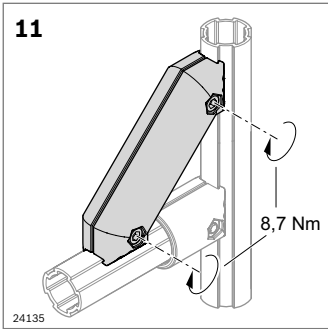
45° connector	ESD	No.	FS
	20	3 842 541 175	FS1

Material: Diecast zinc

Scope of delivery: Incl. fastening material (FS)

FS1

	ISO 4762
	M6x25
	ISO 4032
	M6



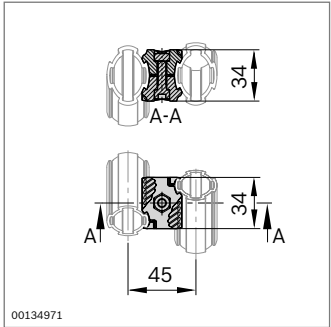
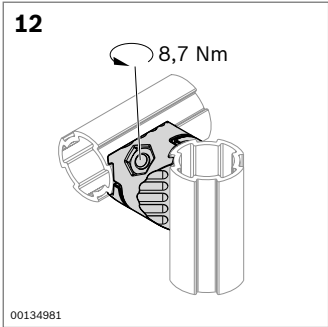
Strut D28L, 45°	ESD	No.	FS
	20	3 842 548 118	2xFS1

Material: Diecast zinc

Scope of delivery: Incl. fastening material (FS)

FS1

	ISO 4762
	M6x25
	ISO 4032
	M6



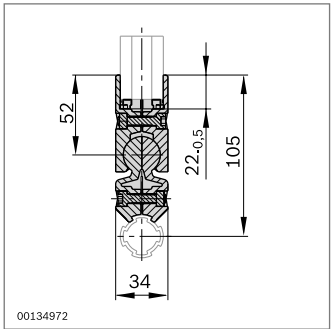
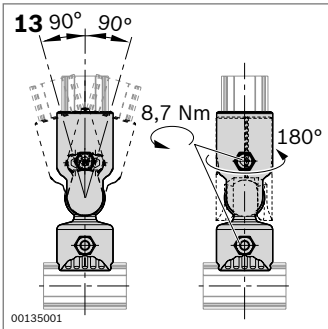
Cross connector	ESD	No.	FS
	20	3 842 541 181	FS1

Material: Diecast zinc

Scope of delivery: Incl. fastening material (FS)

FS1

	ISO 4762
	M6x25
	ISO 4032
	M6



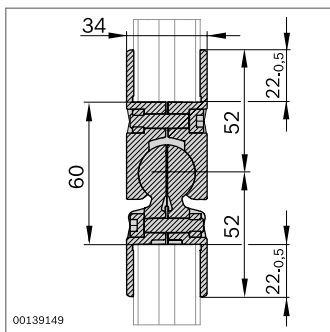
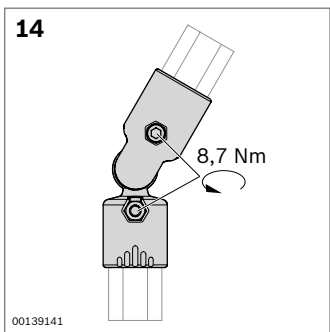
0°-90° connector	ESD	No.	FS
	20	3 842 541 178	2xFS1

Material: Diecast zinc

Scope of delivery: Incl. fastening material (FS)

FS1

	ISO 4762
	M6x25
	ISO 4032
	M6

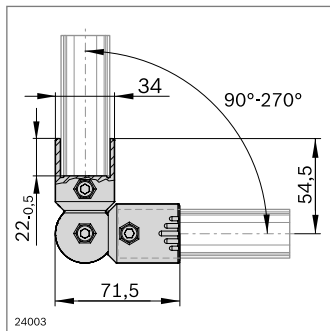
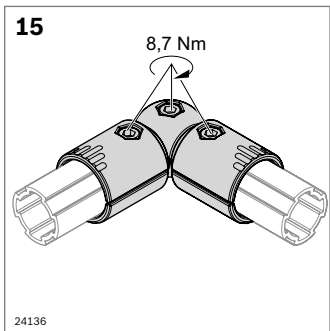


0°-90° D28 connector	ESD	No.	FS
	20	3 842 543 480	2xFS1

Material: Diecast zinc
Scope of delivery: Incl. fastening material (FS)

FS1

ISO 4762
M6x25
ISO 4032
M6



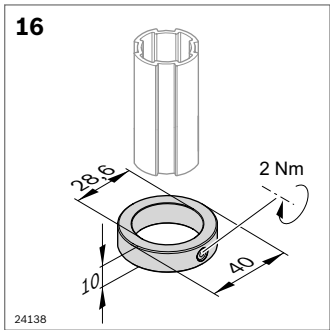
- Corner piece D28 for easy adjustment within a 15° range
- Swivel range: 90°-270°

Corner piece D28	ESD	No.	FS
	20	3 842 548 123	3xFS1

Material: Diecast zinc
Scope of delivery: Incl. fastening material (FS)

FS1

ISO 4762
M6x25
ISO 4032
M6

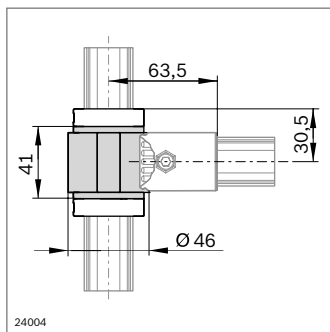
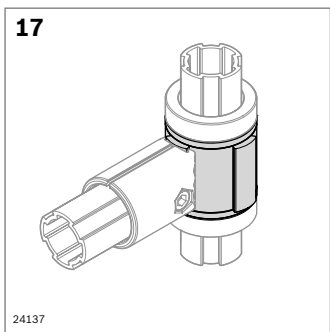


Retaining ring D28L	ESD	No.	FS
	20	3 842 548 122	FS2

Material: Aluminum
Scope of delivery: Incl. fastening material (FS)

FS2

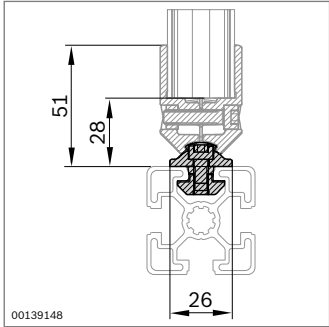
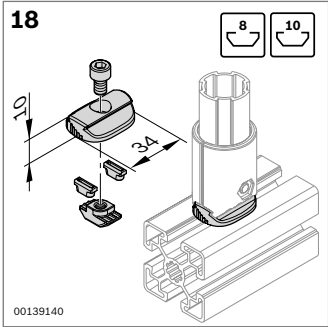
ISO 4026
M6x6



- For axial shifting along the D28L or D28L, N10 round tube; the retaining ring defines the end position.
- Construction of swiveling applications

Swivel bearing D28L	No.
20	3 842 548 121

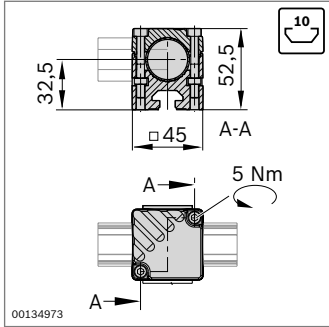
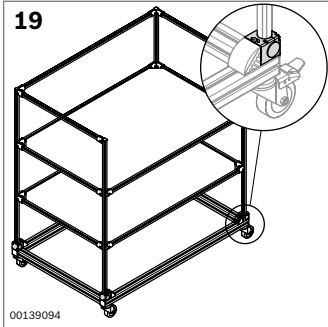
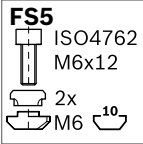
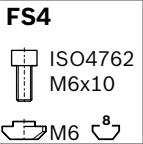
Material: Aluminum,
Socket: POM; black



- N8, N10 adapter for connecting an MGE strut profile (8 mm, 10 mm slots)

N8, N10 adapter	ESD	No.	FS
		20	3 842 543 272 FS4, FS5

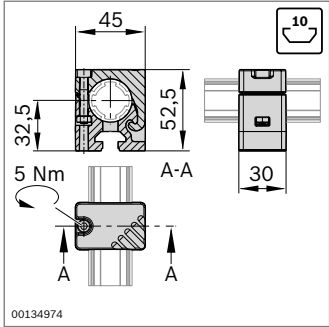
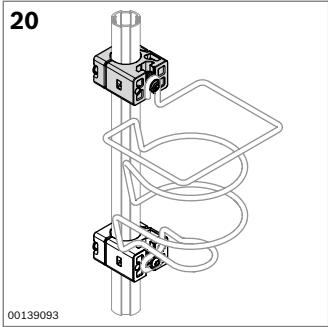
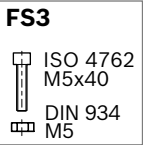
Material: Diecast zinc
Scope of delivery: Incl. fastening material (FS)



- N10/45 adapter for connecting D28L or D28L, N10 round tubes to profiles with a 10 mm slot

N10/45 adapter	ESD	No.	FS
		20	3 842 541 187 2xFS3

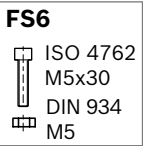
Material: Adapter: Diecast zinc
Cap: PE
Scope of delivery: Incl. cap, fastening material (FS)

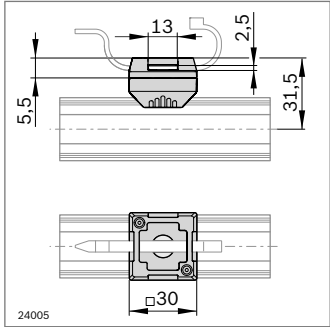
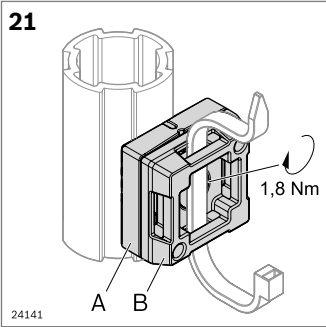


- N10/30 adapter for mounting light accessories such as a bottle holder to a D28L round tube

N10/30 adapter	ESD	No.	FS
		20	3 842 541 190 FS6

Material: Diecast zinc
Scope of delivery: Incl. fastening material (FS)

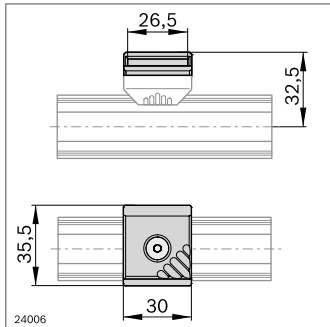
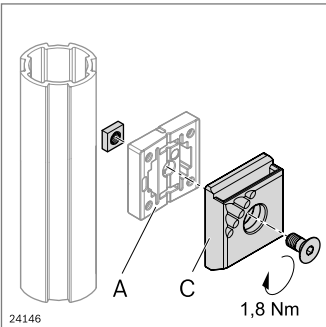
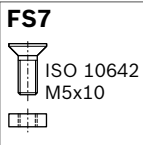




► For attaching cable ties

Adapter fix D28L	ESD	No.	FS
A + B	20	3 842 548 120	FS7

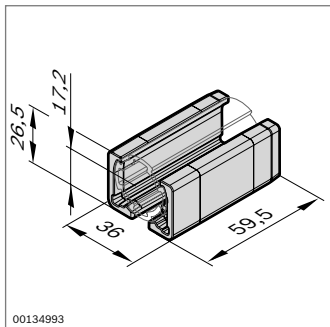
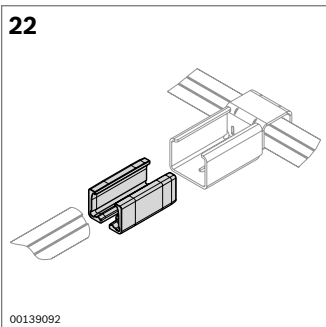
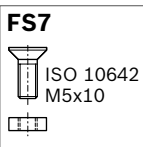
Material: PA66 (conductive); black
Scope of delivery: Incl. fastening material (FS)



► For attaching containers using the container mount

Container mount	ESD	No.	FS
C	10	3 842 544 797	FS7

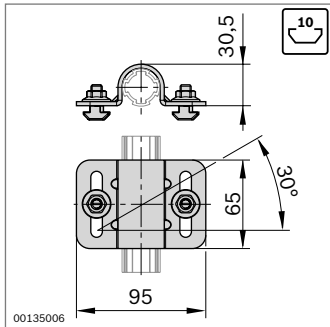
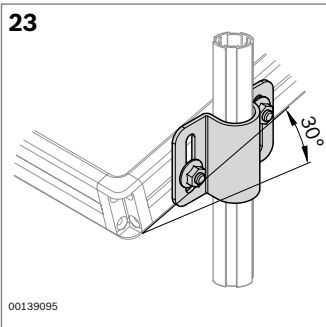
Material: PA66 (conductive); black
Scope of delivery: Incl. fastening material (FS)



► XLean adapter for combination with XLean. The XLean adapter connects the D28L round tube with the XLean rail holder (p. 12-26)

XLean adapter	ESD	No.
	20	3 842 541 296

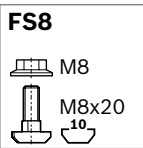
Material: PA66 (conductive); black

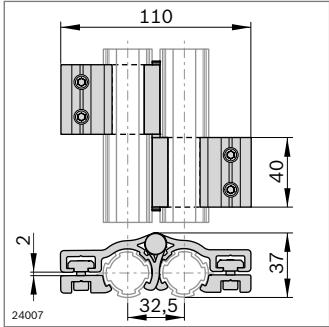
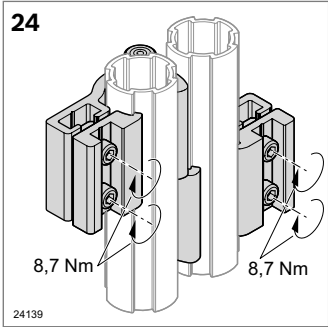


► D28L, N10 tube clamp for fastening material shelves with a 10 mm slot to the D28L round tube; oblique positioning up to 30 degrees is possible

Tube clamp D28L, N10	ESD	No.	FS
	20	3 842 541 193	2xFS8

Material: Steel; galvanized
Scope of delivery: Incl. fastening material (FS)

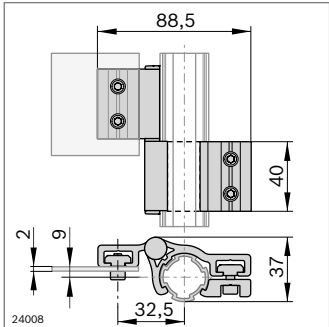
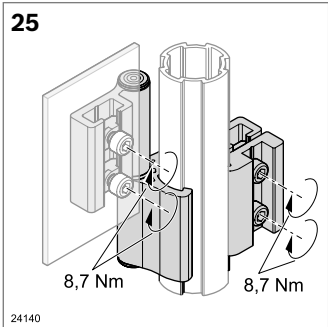
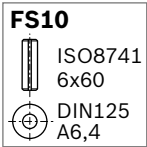
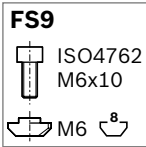




- Opening angle: 180°
- For mounting D28L round tube

Hinge D28L/D28L	ESD	No.	FS
		2	3 842 548 126 4xFS9, FS10

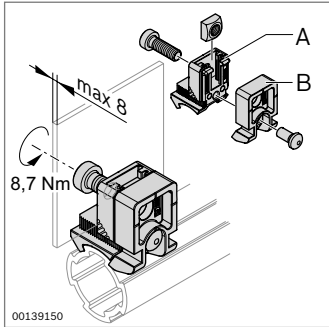
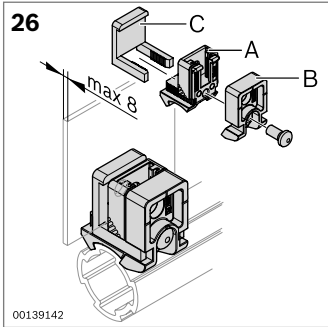
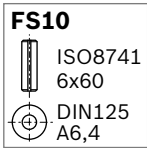
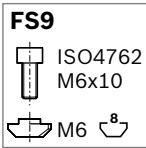
Material: aluminum
Scope of delivery: Incl. fastening material (FS)



- Opening angle: 180°
- For mounting surface elements

Hinge D28L/-	ESD	No.	FS
		2	3 842 548 127 2xFS9, FS10

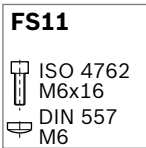
Material: Aluminum
Scope of delivery: Incl. fastening material (FS)



- Plastic Variofix block for fastening surface elements with a snap-in clip or screw
- Variofix remover for releasing the snap-in clip (p. 14-7)

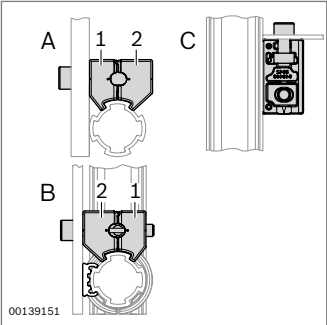
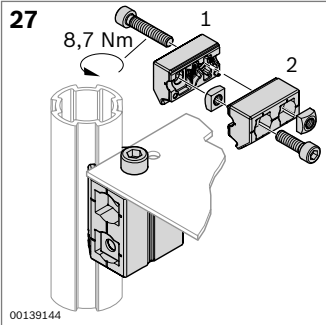
Variofix block PA	No.	FS
A + B	20	3 842 543 311 FS11, FS12

Material: PA66 (conductive); black
Scope of delivery: Incl. fastening material (FS)



Snap-in clip	No.
C	10 3 842 184 738

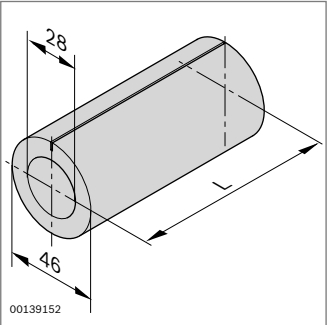
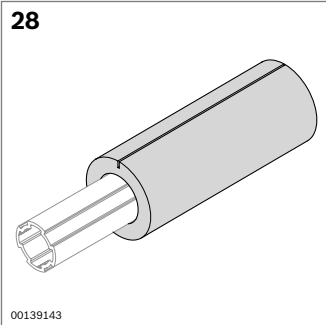
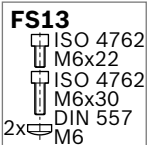
Material: PA6; transparent



- Diecast zinc Variofix block for fastening surface elements
- Three arrangements possible (“A”, “B”, “C”)

Variofix block Zn	ESD	No.	FS
		20	3 842 543 494 FS13

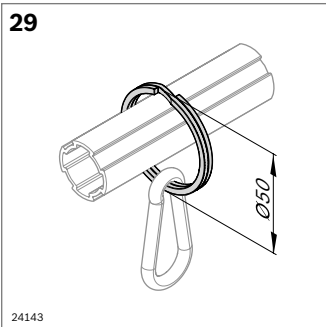
Material: Diecast zinc
Scope of delivery Incl. fastening material (FS)



- Bumper for round tube D28 and D28L

Impact protection device	L (mm)	No.
	2000 10	3 842 544 637

Material: PE-LD; gray



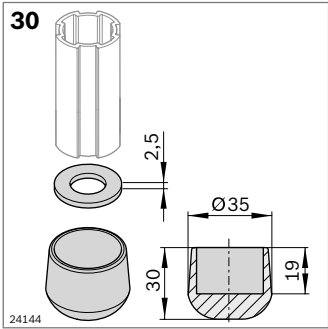
- For designing simple tool holders

Ring D50	No.
	20 3 842 548 131

Material: Steel; nickel-plated

Spring hook	No.
	1 0 842 901 309

Material: Steel, galvanized

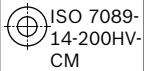


- Non-slip design of flow racks and stands

Rubber foot D28	ESD	No.	FS
		20	3 842 548 128 FS14

Material: NR/SBR (conductive); black

FS14

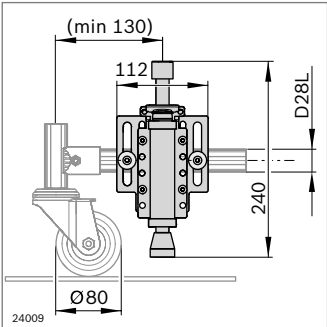
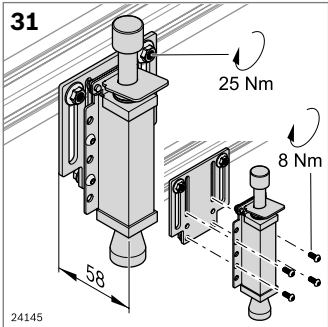


- To stop material shuttles ergonomically at just one point
- All-purpose option for attachment to different round tubes and profile cross-sections
- Clamping travel stopper: 34 mm

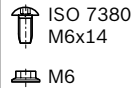
Stopper D28L, N10	No.	FS
	3 842 548 132	4xFS15, 2xFS16

Material: Stopper: stainless steel .EPDM
Attachment plate: aluminum

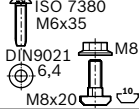
Scope of delivery: Incl. fastening material (FS)

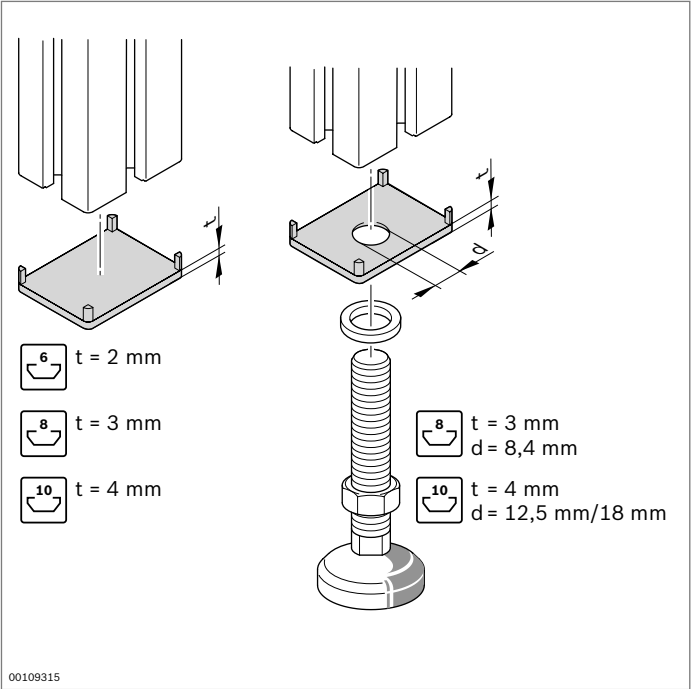


FS15



FS16



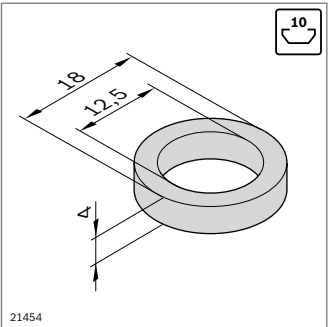


Cap
Cap with hole



- To prevent injuries at open profile ends
- Attractive design
- Cap with hole for use with leveling feet and rollers
- Cap material: PA or PP

Order information for the caps can be found in the profile section

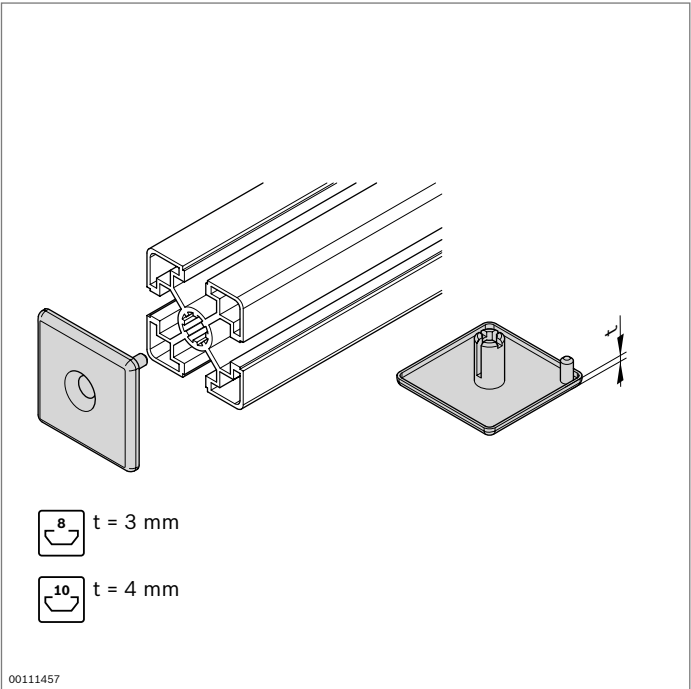


Bearing ring

- For caps with hole
- For M12 threads
- To protect the caps when tightening accessories

Bearing ring	No.
	100 3 842 536 321

Material: stainless steel



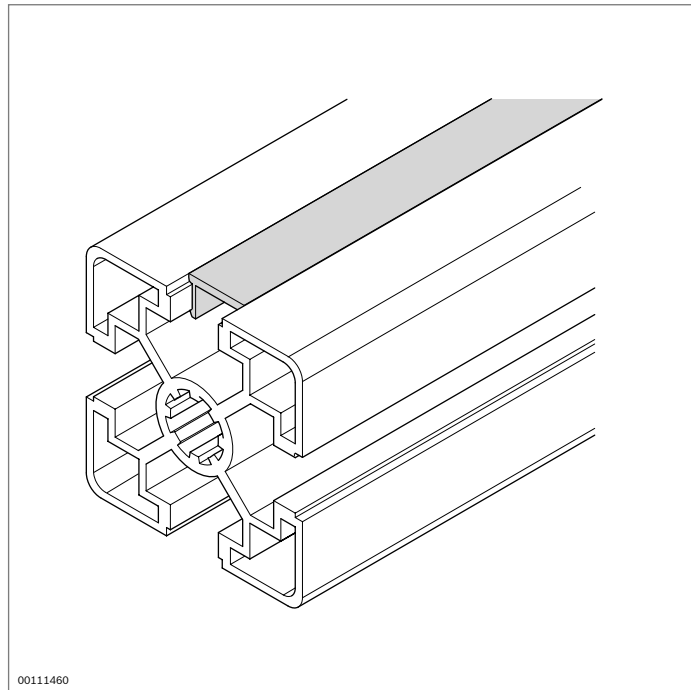
Diecast zinc cover cap

- Shock-proof
- Resistant to aggressive media
- Fastening with countersunk screw; profile finishing not required

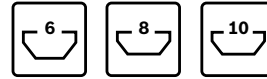
Cap		L1xL2	No.	FS
30x30-ZN		30x30	3 842 518 204	FS1
40x40-ZN		40x40	3 842 541 807	FS2
45x45-ZN		45x45	3 842 518 205	FS2

Material: Diecast zinc

FS1	FS2

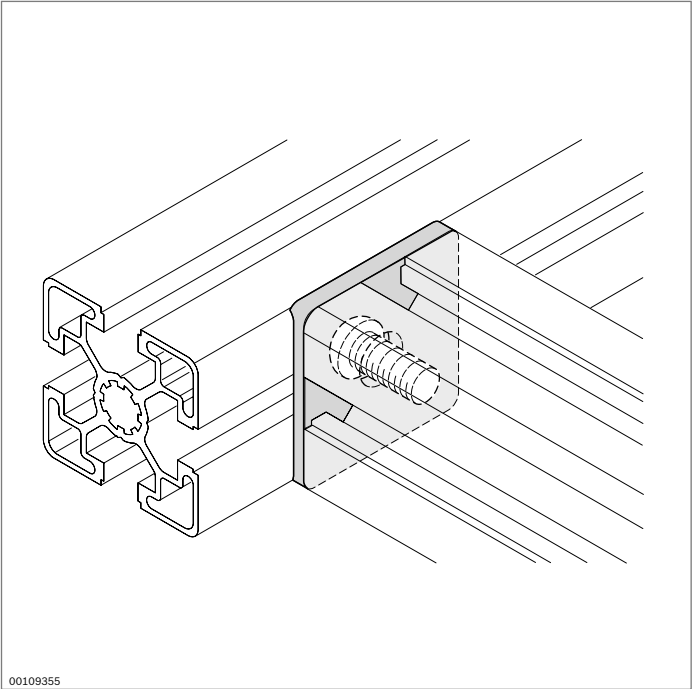


Cover profiles



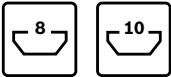
- For mounting cables
- To prevent dirt from entering the profile slot
- Attractive design
- Soft PVC cover profile for 6 mm slot is provided as a roller
- Flush with profile
- An ESD-conductive connection between the cover profile and the strut profile must be ensured through a design solution, e.g. screw

Cover profile, 6 mm slot	Color	Material	ESD	L (mm)		No.
 00109385	Colorless, natural	Aluminum, anodized		2000	10	3 842 523 254
 00117777	Light gray (RAL 7035)	Soft PVC		10000	1	3 842 542 435
Cover profile, 8 mm slot	Color	Material	ESD	L (mm)		No.
 00109366	Colorless, natural	Aluminum, anodized		2000	10	3 842 523 256
 00109367	Signal gray (RAL 7004)	PP		2000	10	3 842 548 878
	Black (RAL 9005)	PP		2000	10	3 842 548 879
	Black (RAL 9005)	Hard PVC		2000	10	3 842 501 962
	Light gray (RAL 7035)	Hard PVC		2000	10	3 842 518 375
	Red (RAL 3020)	Hard PVC		2000	10	3 842 518 376
	Yellow (RAL 1023)	Hard PVC		2000	10	3 842 518 377
	Yellow (RAL 6032)	Hard PVC		2000	10	3 842 549 882
	Blue (RAL 5010)	Hard PVC		2000	10	3 842 538 956
	Orange (RAL 2004)	Hard PVC		2000	10	3 842 538 958
	Colorless, transparent	Hard PVC		2000	10	3 842 503 073
Cover profile, 10 mm slot	Color	Material	ESD	L (mm)		No.
 00109368	Colorless, natural	Aluminum, anodized		2000	10	3 842 523 258
 19502	Signal gray (RAL 7004)	Hard PVC		2000	10	3 842 548 876
	Black (RAL 9005)	Hard PVC		2000	10	3 842 548 877
	Black (RAL 9005)	Hard PVC		2000	10	3 842 146 901
	Light gray (RAL 7035)	Hard PVC		2000	10	3 842 518 367
	Red (RAL 3020)	Hard PVC		2000	10	3 842 518 368
	Yellow (RAL 1023)	Hard PVC		2000	10	3 842 518 369
	Yellow (RAL 6032)	Hard PVC		2000	10	3 842 549 888
	Blue (RAL 5010)	Hard PVC		2000	10	3 842 538 955
	Orange (RAL 2004)	Hard PVC		2000	10	3 842 538 957
	Colorless, transparent	Hard PVC		2000	10	3 842 191 182

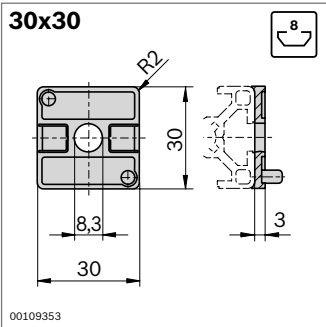


00109355

Radial compensation



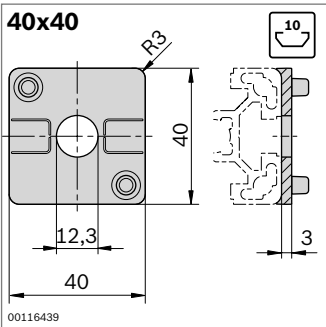
- For avoiding gaps and sharp edges on T-connections between two profiles using a central bolt or quick connector (note spacing of hole from the end of the profile)
- Slot segments can be broken out to support surface elements in the slot
- Important note: the load carrying capacity of the profile connection is reduced when using radial compensation (see “Technical data”, page 19-10)!



00109353

Radial compensation	Slot		No.
30x30	8	10	3 842 524 415

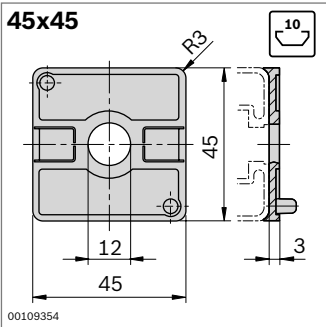
Material: PA; light gray RAL 7035



00116439

Radial compensation	Slot		No.
40x40	10	10	3 842 529 026

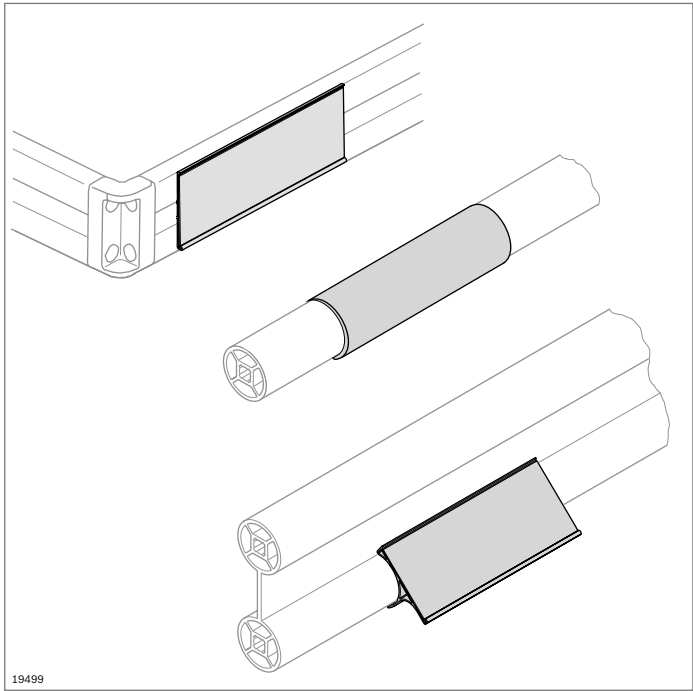
Material: PA; light gray RAL 7035



00109354

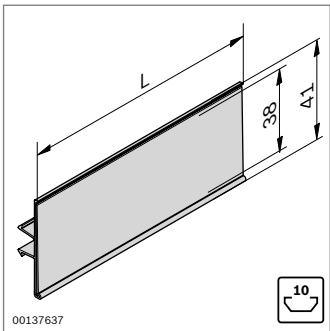
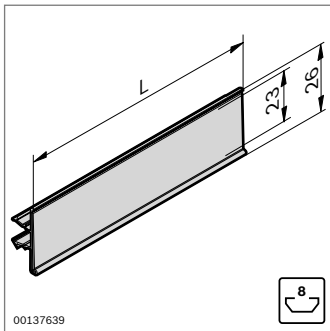
Radial compensation	Slot		No.
45x45	10	10	3 842 524 414

Material: PA; light gray RAL 7035



Lettering clips

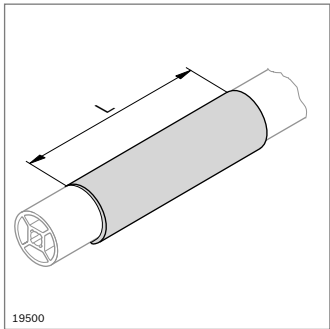
- For labeling profiles and tubular cross ties



- Lettering clip for strut profiles with 8 mm and 10 mm slot

Lettering clip	Slot	L (mm)		No.
	8	2000	20	3 842 537 113
	8	102	20	3 842 537 650
	10	2000	20	3 842 537 116
	10	102	20	3 842 537 651

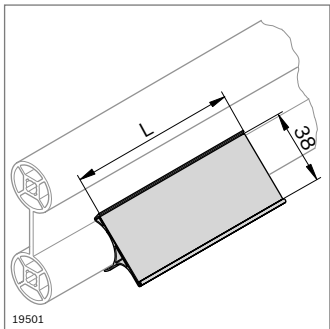
Material: Hard PVC, light gray (RAL 7035), transparent



- Self-adhesive
- Lettering clip with rounded text surface for strut profiles D28; D28L; D28L, N10, and D28x55
- Label height 38 mm

Lettering clip	L (mm)		No.
For tubular cross ties	2000	20	3 842 535 136
	120	20	3 842 538 093

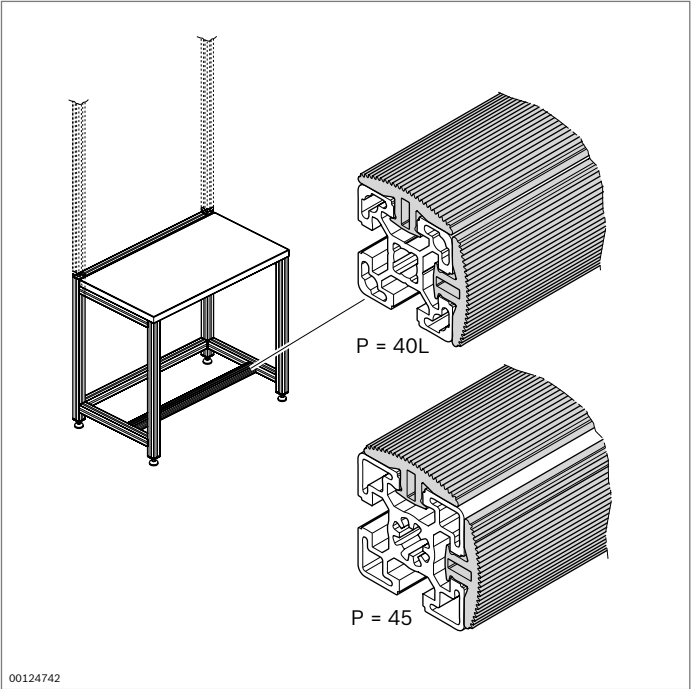
Material: Hard PVC, colorless, transparent



- Self-adhesive
- Lettering clip with flat text surface for strut profiles D28; D28L; D28L, N10, and D28x55

Lettering clip	L (mm)		No.
For tubular cross ties	2000	20	3 842 537 119
	120	20	3 842 537 652

Material: Hard PVC, light gray (RAL 7035), transparent



Rubber profile
Cloth holder

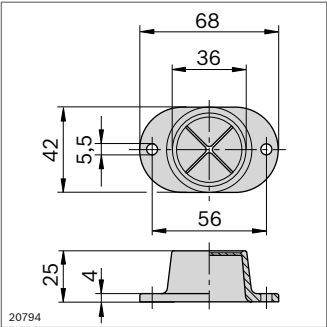
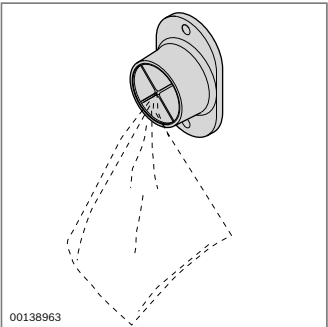


Rubber profile

- To avoid impact on hard edges, such as when setting down impact-sensitive products
- For use as footrest to clip in from top and front on the cross strut of the workstation
- Very simple and inexpensive
- Suitable for the construction of ESD workstations

Rubber profile	L (mm)	ESD	No.
	30 ... 2000		1 3 842 994 979 / L
	2000		10 3 842 537 135

Material: EPDM; conduction resistance
RA = 1x10³ – 1x10⁹ Ω



Screwed-on cloth holder

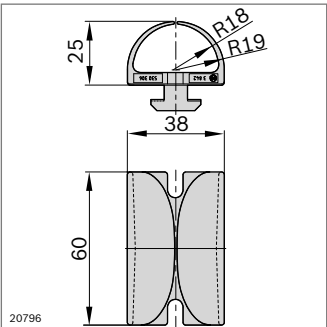
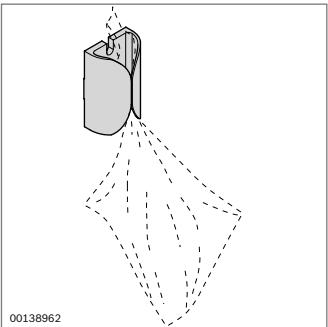
- For hanging cleaning cloths

Required accessories:

- T-nut, 10 mm slot, M5 (3 842 530 283) (p. 3-4)
- Screw DIN 7984 M5x12

Screwed-on cloth holder	No.
	1 845 719 000

Material: PE; black



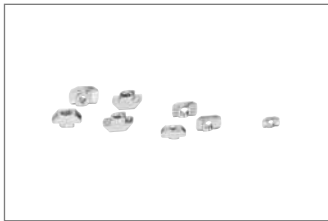
Cloth holder with clamp base

- With injection molded clamp base for direct assembly on strut profile with 10 mm slot
- Can also be used as a cable guide

Cloth holder with clamp base	No.
	3 842 530 306

Material: PA6, black

Connection elements



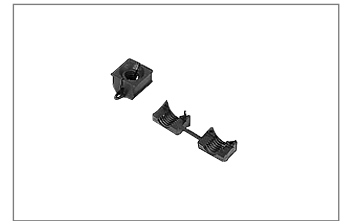
T-nut (p. 3-4)
Collar screw (p. 3-5)



Flange nut, T-bolt (p. 3-6)



Sliding block (p. 3-8)



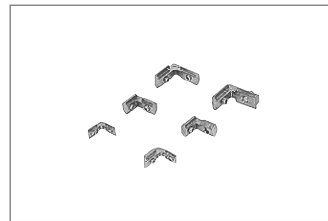
Straddling nut (p. 3-10)



Parallel connector (p. 3-11)



Tensioning connector
(p. 3-12)



Inner bracket (p. 3-13)
Inner bracket R (p. 3-14)



Miter bracket (p. 3-16)



Bracket (p. 3-17)



Bracket R (p. 3-28)



Steel bracket (p. 3-30)



Metal bracket, Supporting
bracket (p. 3-31)



Foundation bracket (p. 3-32)



Holder (p. 3-33)



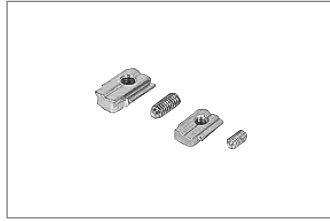
Supporting bracket (p. 3-35)



Profile connector (p. 3-37)



Central bolt (p. 3-38)



Anti-torsion element (p. 3-39)



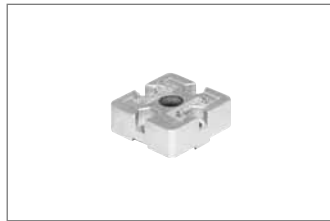
Cubic connector (p. 3-40)



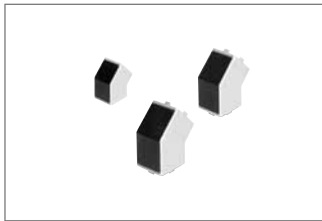
Corner bracket (p. 3-44)



End connector (p. 3-46)



T-connector (p. 3-48)



45° connector (p. 3-50)



Quick connector (p. 3-51)



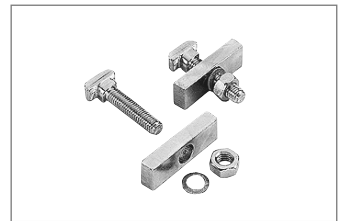
Quick connector, bendable
(p. 3-54)



Longitudinal end connector
(p. 3-56)

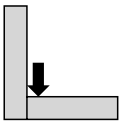
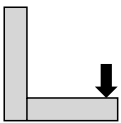
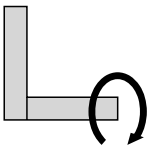
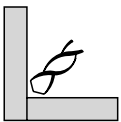
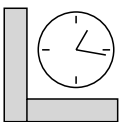
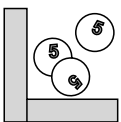
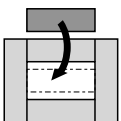
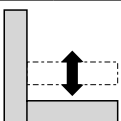
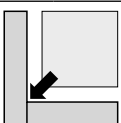
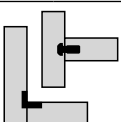


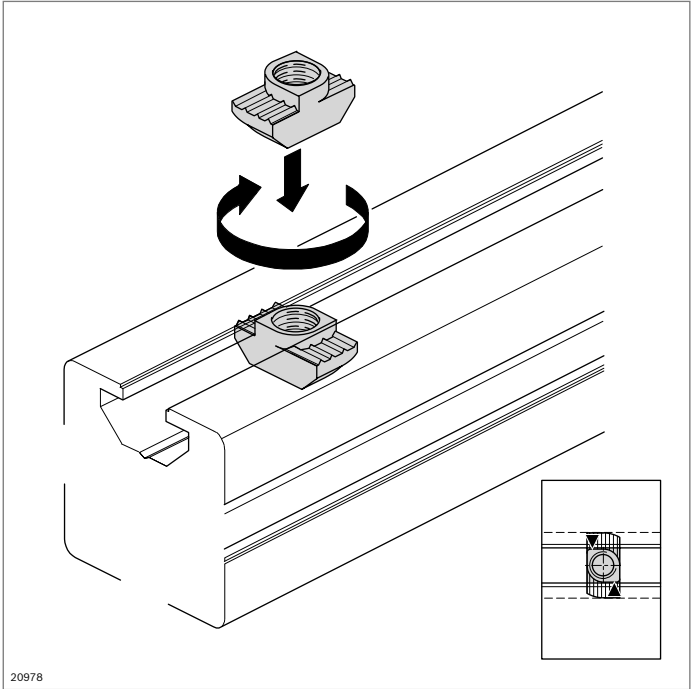
Bolt connector (p. 3-57)



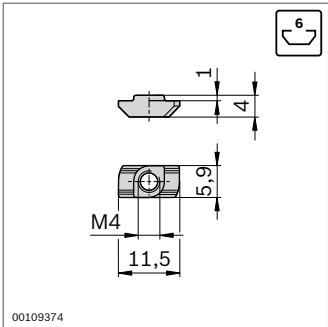
Cross connector (p. 3-59)

Connection elements, selection criteria

		 recommended	 suitable	 unsuitable							
					Bracket	Inner bracket	Bolt connector	Central bolt	Quick connector	T-connector	Tensioning connector
	High feed force										
	High moment										
	High torsional moment										
	Minimal finishing work										
	Minimal assembly										
	Low parts costs										
	Subsequent mounting in closed frame										
	Adjustment possible										
	Support of surface elements										
	Internal connection (concealable)										

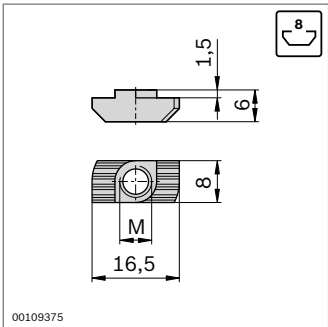


20978



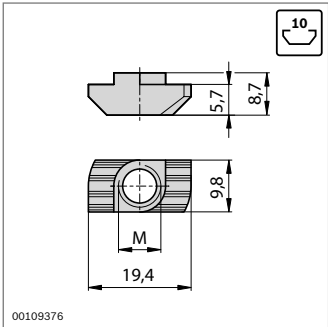
00109374

Slot	
6	1700 N



00109375

Slot	
8 (M6)	4000 N

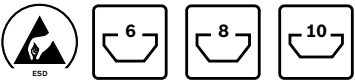


00109376

Slot	
10 (M8)	6000 ... 18000 N ¹⁾

¹⁾ Depending on profile (p. 19-5)

T-nut



- ▶ Standard element for secure, conductive connections
- ▶ Stop for correct positioning in the profile slot
- ▶ Stainless steel T-nut, e.g. for outdoor or cleanroom applications
- ▶ Profile machining: not required

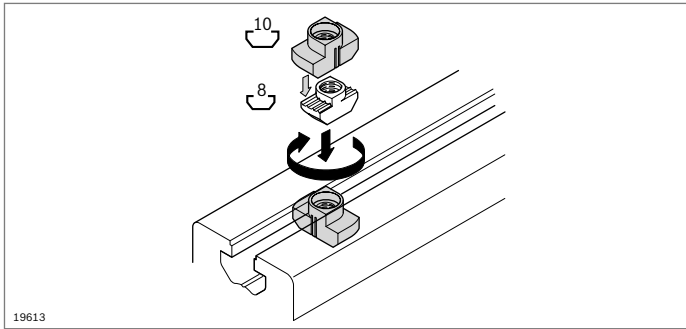
Technical data (p. 19-5)

Accessories:
insulating cap (p. 3-5)

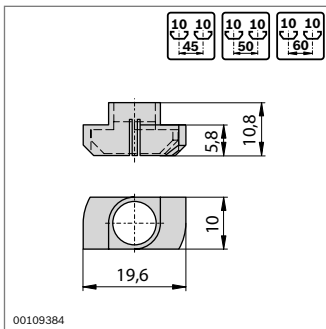
T-nut, 6 mm slot	Slot	M	ESD	No.
Steel, galvanized	6	M4		100 3 842 523 135
Stainless steel	6	M4		100 3 842 536 599

T-nut, 8 mm slot	Slot	M	ESD	No.
Steel, galvanized	8	M4		100 3 842 501 751
		M5		100 3 842 501 752
		M6		100 3 842 501 753
Stainless steel	8	M4		100 3 842 536 600
		M5		100 3 842 536 601
		M6		100 3 842 536 602

T-nut, 10 mm slot	Slot	M	ESD	No.
Steel, galvanized	10	M4		100 3 842 530 281
		M5		100 3 842 530 283
		M6		100 3 842 530 285
		M8		100 3 842 530 287
Stainless steel	10	M4		100 3 842 536 606
		M5		100 3 842 536 605
		M6		100 3 842 536 604
		M8		100 3 842 536 603



19613

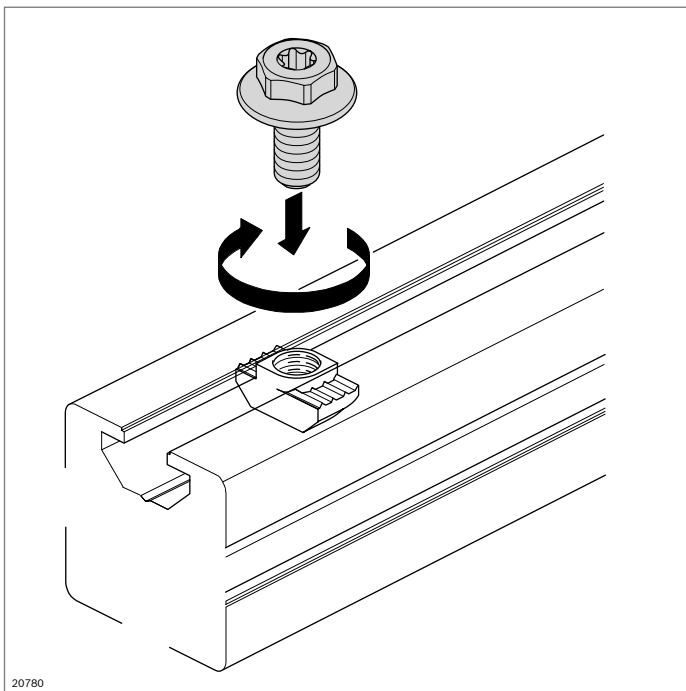


00109384

- Insulating cap for decoupling directly grounded components; for use with T-nuts for 8 mm slots in a 10 mm slot

Insulating cap for T-nut, 8 mm slot	Slot	No.
	10	10 3 842 524 012

Material: high-strength PA, black



20780

Collar screw

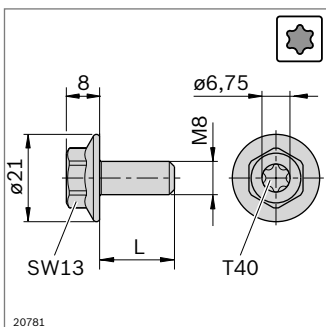


- Collar screw with multi-function head for tightening with ring/open-end wrench (WS 13) or Torx screwdriver (T40)
- Machine threading possible
- Preferably for bracket fastening
- Quick and simple assembly
- Excellent force transmission via broad flange
- ESD-capable
- Polymer spot for precise positioning of T-nut

Tool:
offset screwdriver (p. 14-6)

Accessories:

T-nut (p. 3-4)



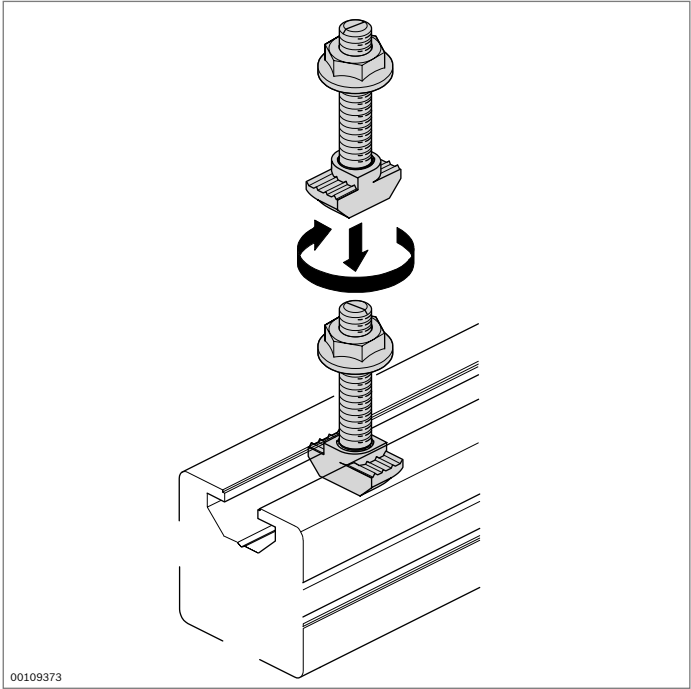
20781

Collar screw	M	L (mm)	ESD	No.
M8x18-SW13-T40¹⁾	M8	18	100	3 842 541 246
M8x20-SW13-T40²⁾	M8	20	100	3 842 541 409

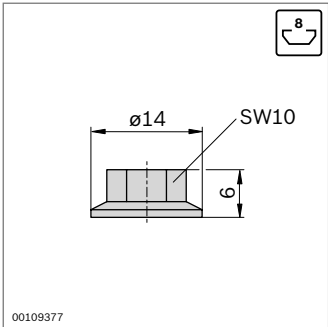
¹⁾ For 40/40 and 60/60 brackets

²⁾ For all other brackets for 10 mm slot

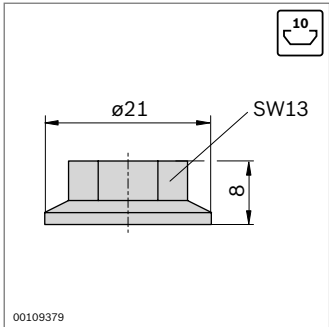
Material: Steel, galvanized



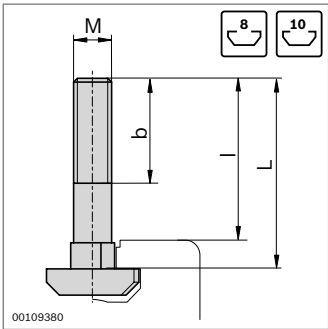
00109373



00109377



00109379



00109380

Slot	
8	4000 N
10	6000 ... 18000 N ¹⁾

¹⁾ Depending on profile (p. 19-5)

Flange nut
T-bolt



- Secure, conductive connection
- Notch at bolt end as marker for correct position identification
- Profile machining: not required

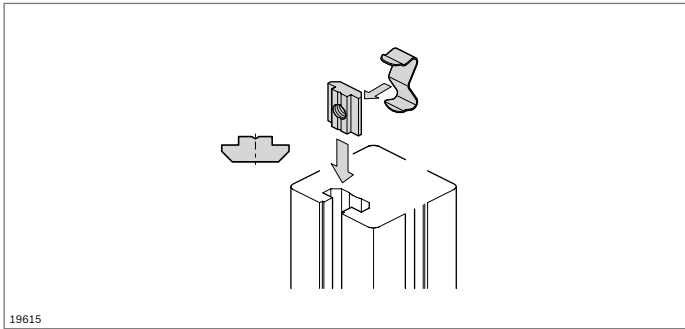
Technical data (p. 19-5)

Flange nut	Slot	M	ESD	No.
	8	M6	100	3 842 523 925
	10	M8	100	3 842 345 081

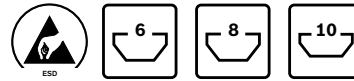
Material: Steel, galvanized

T-bolt	Slot	MxL	b (mm)	l (mm)	ESD	No.
	8	M6x16	10	14	100	3 842 523 920
		M6x20	14	18	100	3 842 523 921
		M6x25	18	23	100	3 842 523 922
	10	M8x20	14	14	100	3 842 528 715
		M8x25	19	19	100	3 842 528 718
		M8x30	24	24	100	3 842 528 721
		M8x40	22	34	100	3 842 528 724
		M8x50	22	44	100	3 842 528 727

Material: Steel, galvanized

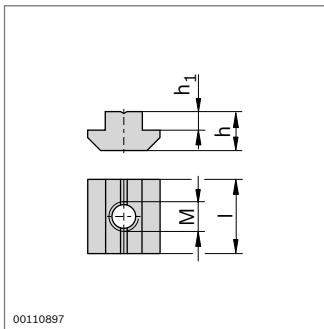


Sliding block, sliding block profile



- ▶ Sliding block for reliable absorption of high forces
- ▶ Sliding block profile for self-assembly of individual fastening elements
- ▶ Profile machining: not required
- ▶ The spring assists with the assembly and positioning of the sliding block and swivel-in sliding block (p. 3-8)

Technical data (p. 19-5)

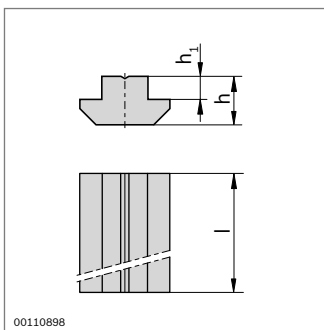


Slot	
6 (M5)	3 000 N
8 (M8)	6 000 N
10 (M8)	8 000 ... 24 000 N ¹⁾

¹⁾ Depending on profile (p. 19-5)

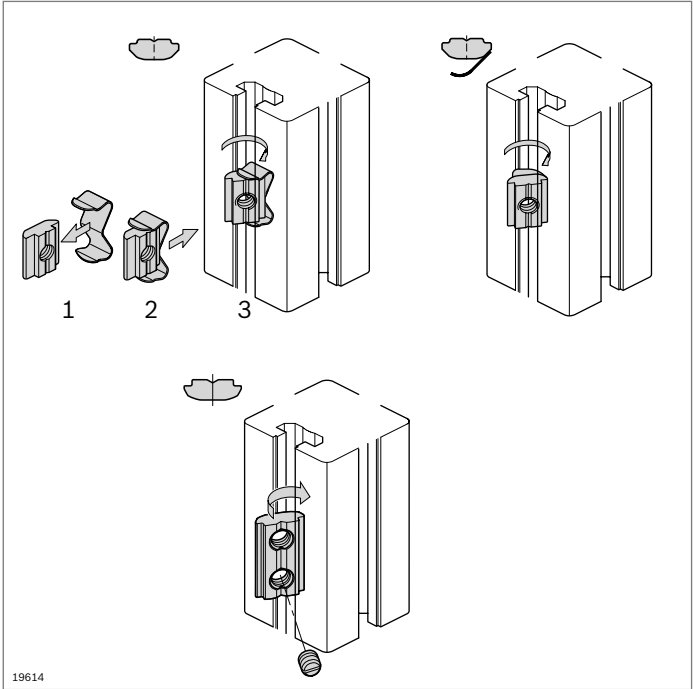
Sliding block	Slot	M	h (mm)	h ₁ (mm)	l (mm)	ESD		No.
Steel, galvanized	6	M4	4.0	1.0	12		100	3 842 542 692
		M5	4.0	1.0	12		100	3 842 542 693
	8	M4	6.0	2.0	16		100	3 842 514 928
		M5	6.0	2.0	16		100	3 842 514 929
		M6	6.0	2.0	16		100	3 842 514 930
		M8	6.0	2.0	16		100	3 842 514 931
	10	M5	10.5	5.0	20		100	3 842 528 741
		M6	10.5	5.0	20		100	3 842 528 738
		M8	10.5	5.0	20		100	3 842 528 735
Steel, stainless	6	M4	4.0	1.0	20		100	3 842 523 140
		M5	4.0	1.0	20		100	3 842 523 142
	8	M4	6.0	2.0	16		100	3 842 547 817
		M5	6.0	2.0	16		100	3 842 547 816
		M6	6.0	2.0	16		100	3 842 547 815
		M8	6.0	2.0	16		100	3 842 547 814
	10	M5	10.5	5.0	20		100	3 842 547 813
		M6	10.5	5.0	20		100	3 842 547 812
		M8	10.5	5.0	20		100	3 842 547 811

Accessories: Spring (p. 3-9)

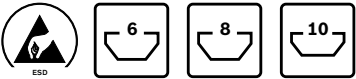


Sliding block profile	Slot	h (mm)	h ₁ (mm)	l (mm)	No.
Steel, galvanized	6	4.0	1.0	1000	3 842 542 694
	8	6.0	2.0	1000	3 842 510 078
	10	10.5	5.0	1000	3 842 528 744
Steel, stainless	6	4.0	1.0	1000	3 842 523 438

Accessories: Spring (p. 3-9)

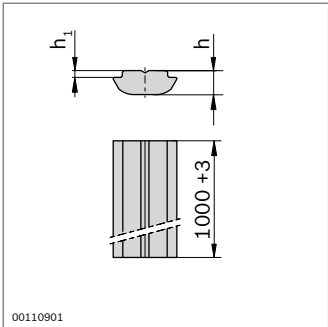


Sliding block, swivel-in
sliding block profile, swivel-in spring



- ▶ Swivel-in sliding block profile for self-assembly of individual fastening elements
- ▶ The swivel-in sliding block can be inserted directly at the assembly point for easy assembly
- ▶ The swivel-in sliding block with spring can be inserted directly at the assembly point and fixed in position thanks to attached springs
- ▶ The swivel-in sliding block with headless setscrews permits shake-proof fixing in all positions
- ▶ Profile machining: not required

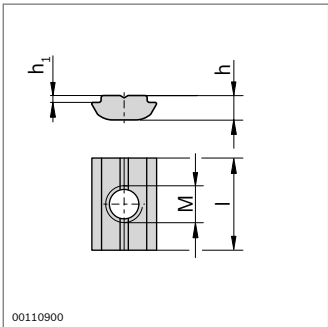
Technical data (p. 19-5)



Slot	
8 (M8)	2 200 N
10 (M8)	8 000 ... 18 000 N ¹⁾

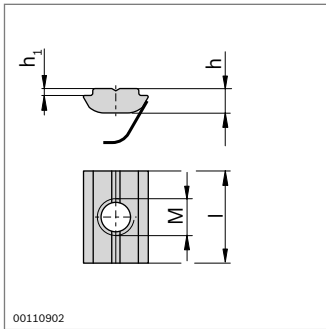
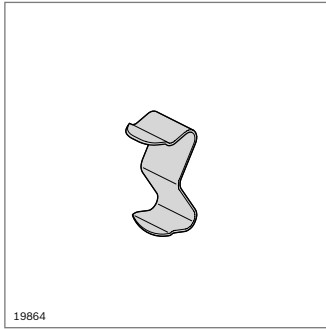
¹⁾ Depending on profile (p. 19-5)

Sliding block profile, swivel-in	Slot	h (mm)	h ₁ (mm)	l (mm)	No.
Steel, galvanized	8	4.8	1.0	1000	3 842 529 327
	10	5.3	1.5	1000	3 842 529 325



Sliding block, swivel-in	Slot	M	h (mm)	h ₁ (mm)	l (mm)	ESD	No.
Steel, galvanized	8	M5	4.8	1.0	16		3 842 529 319
		M6	4.8	1.0	16		3 842 529 320
		M8	4.8	1.0	16		3 842 529 321
	10	M6	5.3	1.5	20		3 842 529 323
		M8	5.3	1.5	20		3 842 529 324
Steel, stainless	6	M3	3.0	0.9	12		3 842 547 826
		M4	3.0	0.9	12		3 842 536 669
		M5	3.0	0.9	12		3 842 547 825
	8	M6	4.8	1.0	16		3 842 530 321
		M8	5.3	1.5	20		3 842 530 316

Accessories: Spring (p. 3-9)



Slot	
8 (M8)	2 200 N
10 (M8)	8 000 ... 18 000 N ¹⁾

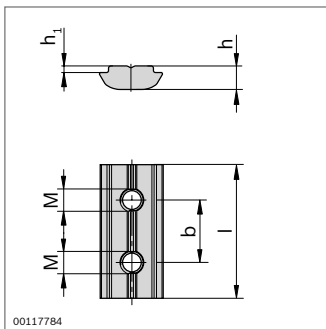
¹⁾ Depending on profile (p. 19-5)

- The spring assists with the assembly and positioning of the sliding block and swivel-in sliding block

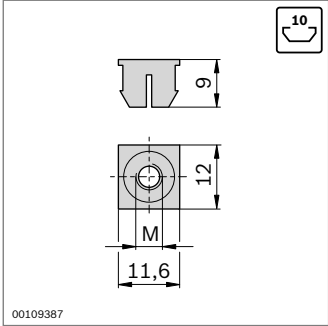
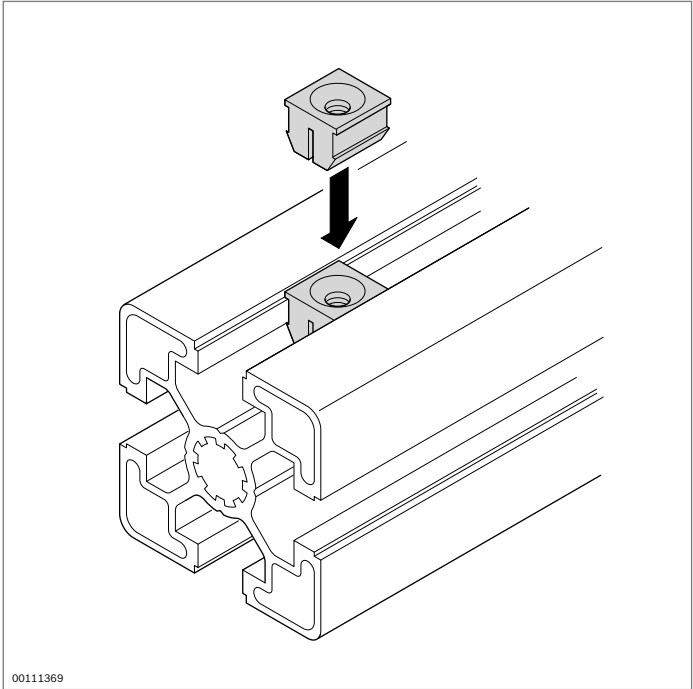
Spring	Slot		No.
Spring steel, stainless	6	100	3 842 523 145
	8	100	3 842 516 685
	10	100	3 842 516 669

Swivel-in sliding block with spring	Slot	M	h (mm)	h ₁ (mm)	l (mm)	ESD		No.
Steel, galvanized	8	M4	4.8	1.0	16		100	3 842 529 294
		M5	4.8	1.0	16		100	3 842 529 295
		M6	4.8	1.0	16		100	3 842 529 296
		M8	4.8	1.0	16		100	3 842 529 297
	10	M4	5.3	1.5	20		100	3 842 541 393
		M5	5.3	1.5	20		100	3 842 529 298
		M6	5.3	1.5	20		100	3 842 529 299
		M8	5.3	1.5	20		100	3 842 529 300
Steel, stainless	8	M4	4.8	1.0	16		100	3 842 547 824
		M5	4.8	1.0	16		100	3 842 547 823
		M6	4.8	1.0	16		100	3 842 547 822
		M8	4.8	1.0	16		100	3 842 547 821
	10	M5	5.3	1.5	20		100	3 842 547 808
		M6	5.3	1.5	20		100	3 842 547 807
		M8	5.3	1.5	20		100	3 842 547 806

Material: Spring: spring steel, stainless



Sliding block, swivel-in, with headless setscrew	Slot	M	b (mm)	h (mm)	h ₁ (mm)	l (mm)		No.
Steel, galvanized	8	M5	12	4.8	1.0	24	100	3 842 536 675
	10	M5	14	5.3	1.5	30	100	3 842 536 676
Steel, stainless	6	M4	8	3.0	0.9	15	100	3 842 536 673



Straddling nut

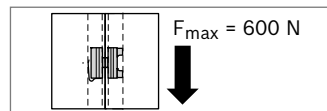
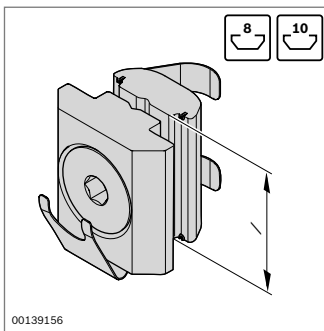
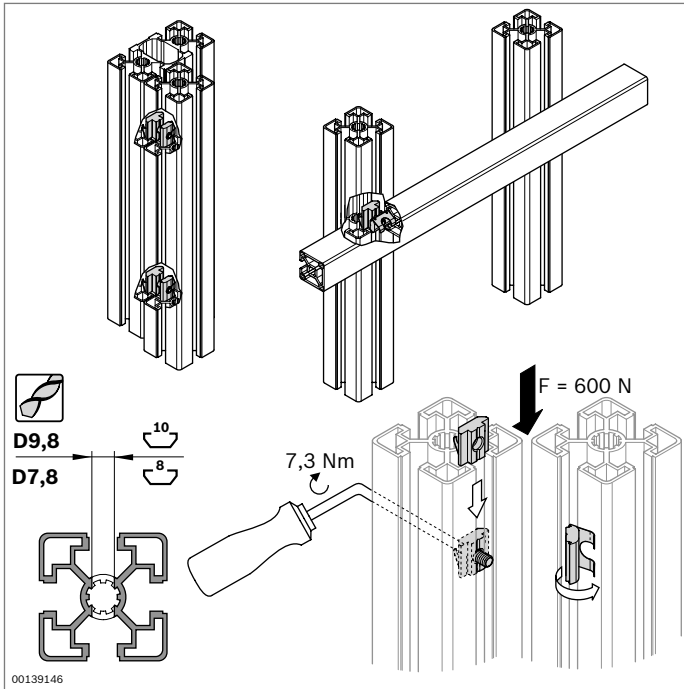


- For attaching light accessories such as cable fasteners or rings
- Easy assembly by clipping into the profile groove
- Profile machining: not required

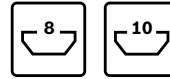
Accessories, required:
Countersunk screw

Straddling nut	Slot	M		No.
	10	M4	100	3 842 111 987
		M5	100	3 842 111 988
		M6	100	3 842 111 989

Material: PA; black



Parallel connector

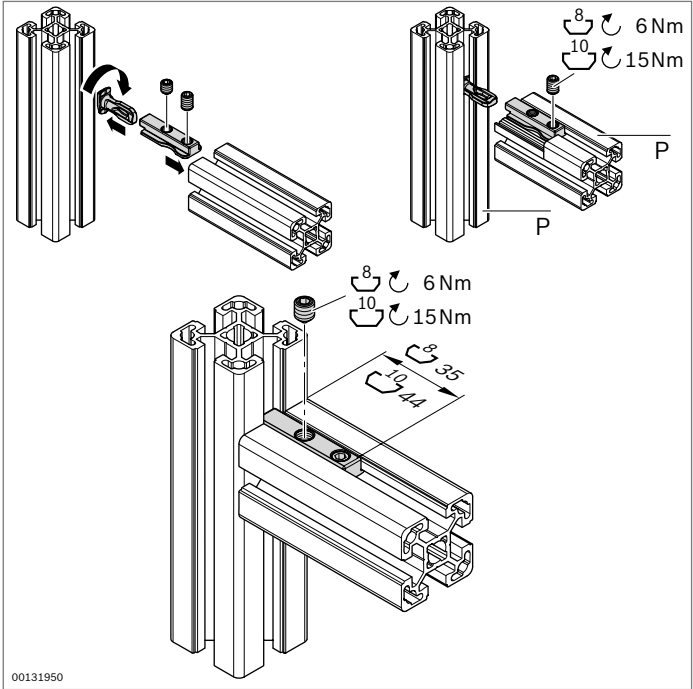


- For a gap-free connection between two strut profiles, parallel to the axis or at any angle
- Parallel connector consisting of two sliding blocks with welded springs for simple assembly
- Attractive-looking interior connection, e.g. for material shelves
- Connection possible in any position
- Transferable displacement force per parallel connector: 600 N
- Profile machining: through-hole

Parallel connector	Slot	I (mm)	No.
	8	16 10	3 842 542 737
	10	20 10	3 842 542 736

Material: Sliding block: steel, galvanized
Spring: spring steel, stainless

Scope of delivery: Sliding block with spring, swivel-in sliding block with spring, countersunk screw M5



P			
30x...	1000 N	35 Nm	15 Nm
45x...L	3500 N	110 Nm	30 Nm
40x..., 45x..., 50x..., 90x...	3500 N	110 Nm	30 Nm
60x...	3500 N	195 Nm	60 Nm

Tensioning connector

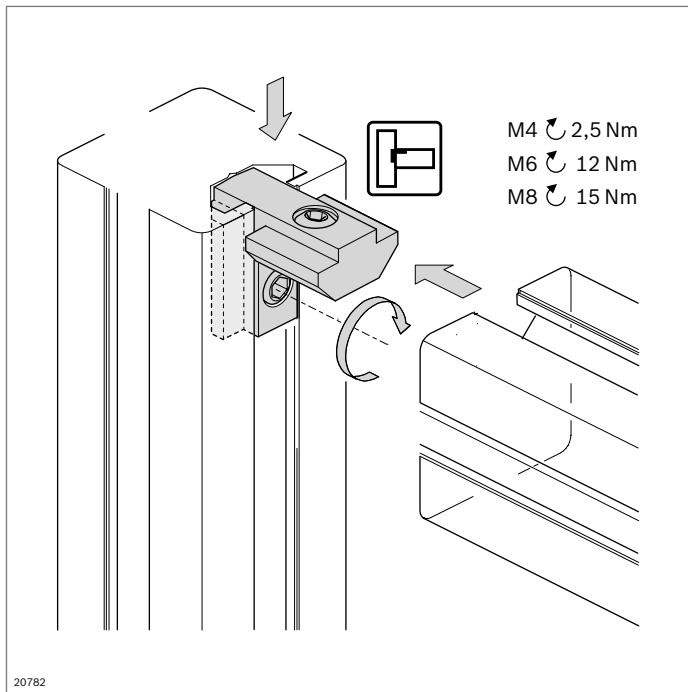


- Tensioning connector for fast assembly
- The connector can be moved within the slot
- Easily accessible screws
- Three slots are left free for mounting surface elements
- Profile machining: not required

Technical data (p. 19-8)

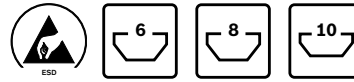
Tensioning connector	Slot	P	ESD		No.
8	8	30x...		10	3 842 538 489
10L	10	45x...L		10	3 842 538 491
10	10	40x..., 45x..., 50x..., 60x..., 90x...		10	3 842 538 490

Material: Steel, galvanized



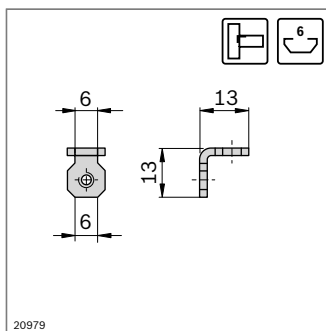
20782

Inner bracket



- For elegant, easy-to-assemble profile connections
- Especially suitable for constructing door frames, protective grilles, or partition walls
- The inner bracket, 6 mm slot, can also be used as an inner bracket R, 6 mm slot
- Profile machining: not required

Technical data (p. 19-8)

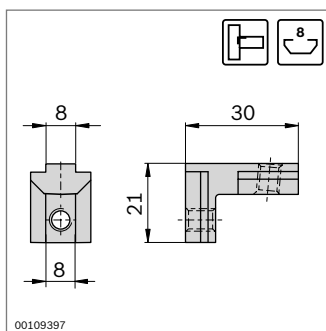


20979



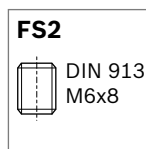
Inner bracket	Slot	ESD	No.	FS
	6 / 6		10	3 842 535 574 2xFS1

Material: Sheet steel; galvanized
Fastening material: steel, galvanized
Scope of delivery: Incl. fastening material (FS)



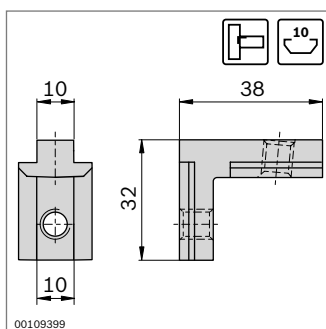
00109397

Slot	F_{max}	M_{max}
8 / 8	2200 N	50 Nm



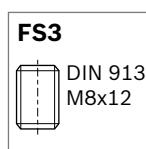
Inner bracket	Slot	ESD	No.	FS
	8 / 8		10	3 842 535 578 2xFS2

Material: Cast steel; galvanized
Fastening material: steel, galvanized
Scope of delivery: Incl. fastening material (FS)



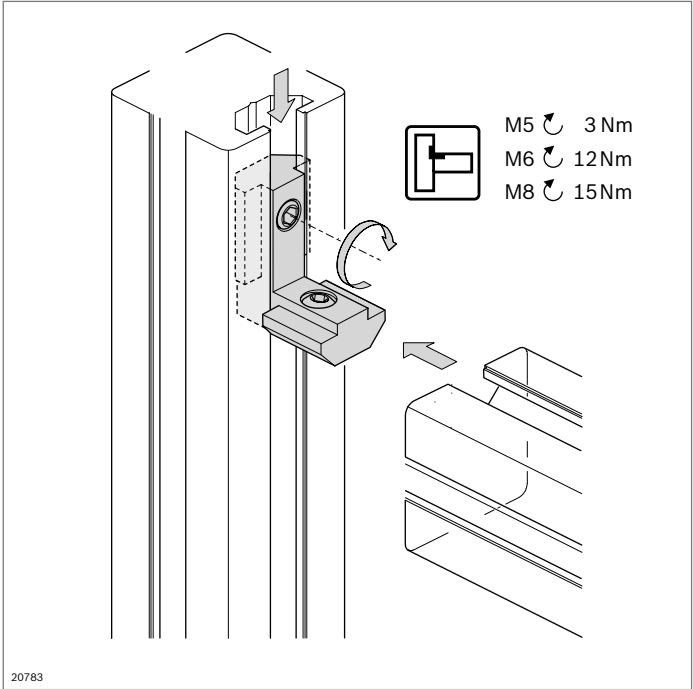
00109399

Slot	F_{max}	M_{max}
10 / 10	2800 N	100 Nm

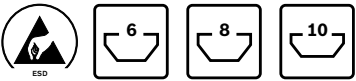


Inner bracket	Slot	ESD	No.	FS
	10 / 10		10	3 842 535 572 2xFS3

Material: Cast steel; galvanized
Fastening material: steel, galvanized
Scope of delivery: Incl. fastening material (FS)

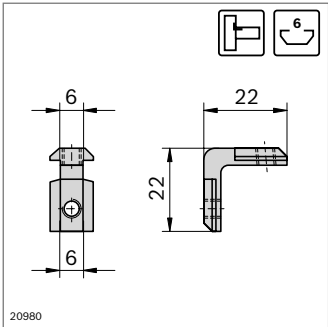


Inner bracket R



- For elegant, easy-to-assemble profile connections
- Especially suitable for constructing door frames, protective grilles, or partition walls
- Profile machining: not required

Technical data (p. 19-8)



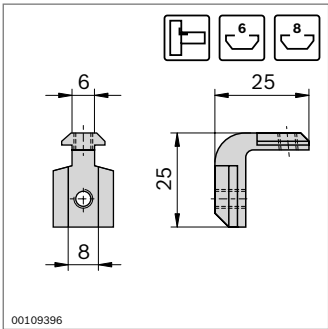
Slot		
6 / 6	600 N	10 Nm

FS1

DIN 913
M5x5

Inner bracket R	Slot	ESD		No.	FS
	6 / 6		10	3 842 535 575	2xFS1

Material: Cast steel; galvanized
Fastening material: steel, galvanized
Scope of delivery: Incl. fastening material (FS)



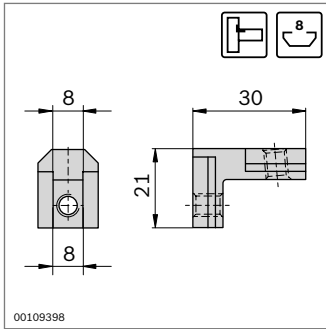
Slot		
6 / 8	600 N	10 Nm

FS1

DIN 913
M5x5

Inner bracket R	Slot	ESD		No.	FS
	6 / 8		10	3 842 535 573	2xFS1

Material: Cast steel; galvanized
Fastening material: steel, galvanized
Scope of delivery: Incl. fastening material (FS)

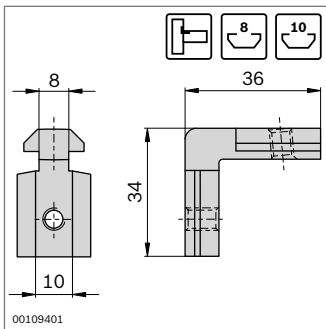


Slot	F_{max}	M_{max}
8 / 8	2500 N	50 Nm

FS2


Inner bracket R	Slot	ESD	No.	FS
	8 / 8		10	3 842 535 577 2xFS2

Material: Cast steel; galvanized
Fastening material: steel, galvanized
Scope of delivery: Incl. fastening material (FS)



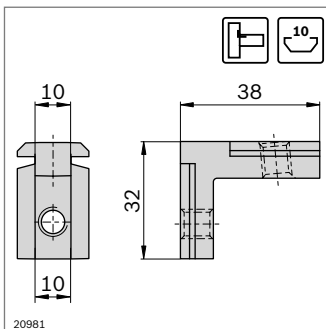
Slot	F_{max}	M_{max}
8 / 10	2500 N	50 Nm

FS2

FS3


Inner bracket R	Slot	ESD	No.	FS
	8 / 10		10	3 842 535 576 FS2, FS3

Material: Cast steel; galvanized
Fastening material: steel, galvanized
Scope of delivery: Incl. fastening material (FS)

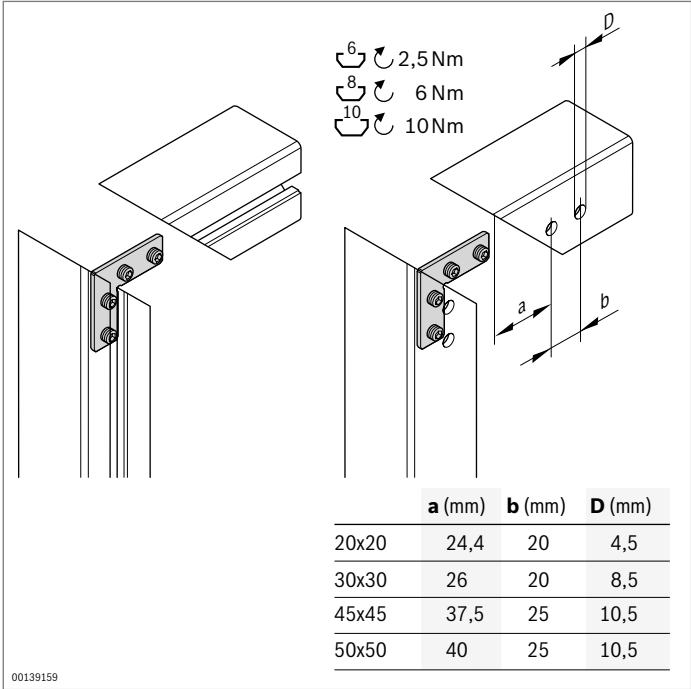


Slot	F_{max}	M_{max}
10 / 10	3000 N	100 Nm

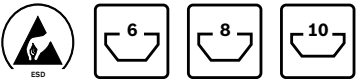
FS4


Inner bracket R	Slot	ESD	No.	FS
	10 / 10		10	3 842 535 571 2xFS4

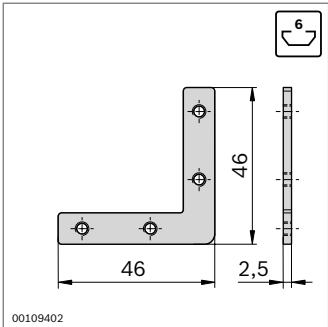
Material: Cast steel; galvanized
Fastening material: steel, galvanized
Scope of delivery: Incl. fastening material (FS)



Miter bracket



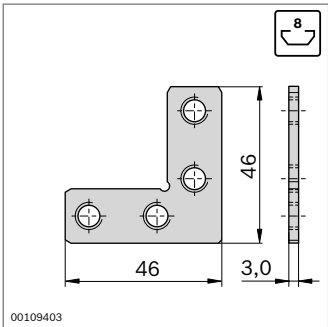
- For right-angled connections of miter-cut profiles
- Profile finishing with open profile slots: not required
- Profile finishing with closed profile slots: through-holes for screwdriver



FS1

DIN 915
M4x5

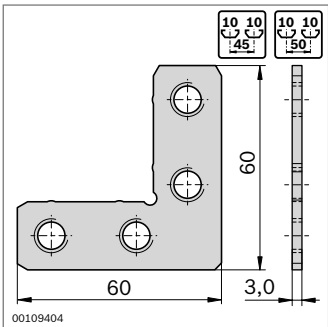
Miter bracket	Slot	ESD	No.	FS
	6		20	3 842 535 626 4xFS1
Material:	Steel, stainless			
	Fastening material: steel, galvanized			
Scope of delivery:	Incl. fastening material (FS)			



FS2

DIN 913
M8x8

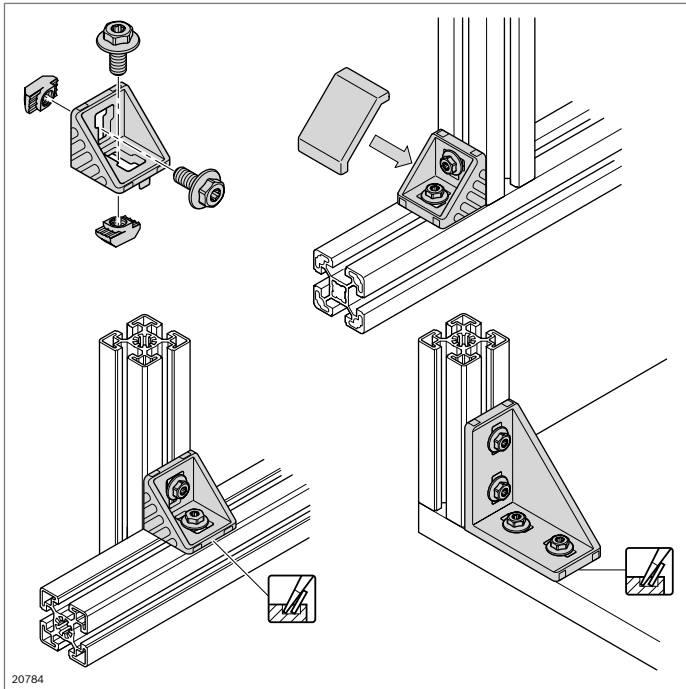
Miter bracket	Slot	ESD	No.	FS
	8		20	3 842 535 627 4xFS2
Material:	Steel, galvanized			
	Fastening material: steel, galvanized			
Scope of delivery:	Incl. fastening material (FS)			



FS3

DIN 913
M10x10

Miter bracket	Slot	ESD	No.	FS
	10		20	3 842 535 625 4xFS3
Material:	Steel, galvanized			
	Fastening material: steel, galvanized			
Scope of delivery:	Incl. fastening material (FS)			



Bracket



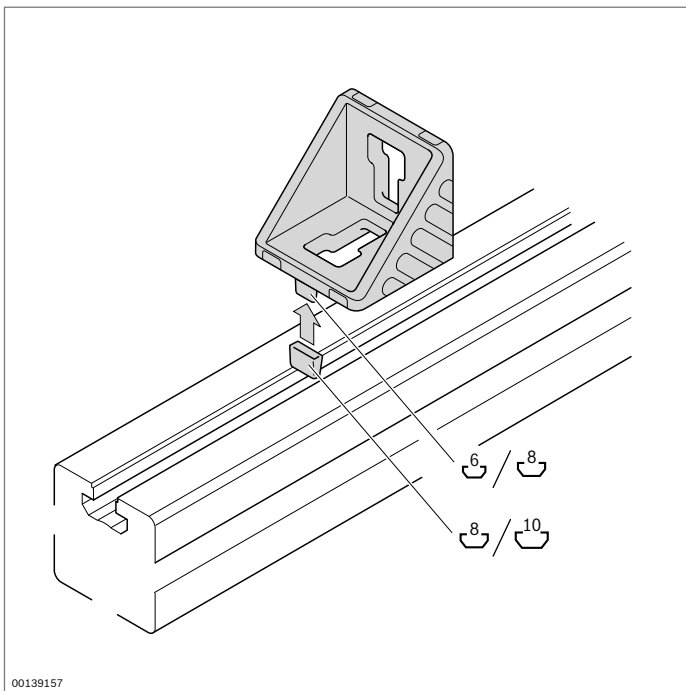
designLINE

3

- ▶ Brackets with centering lugs for rapid, precise assembly with protection against turning
- ▶ Centering lugs can be easily broken off for assembly on plates or at right angles to the slot
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- ▶ Intermediate element for positioning brackets in the next largest slot
- ▶ Offset sliding block for off-center positioning of the 45/45 bracket
- ▶ Cover cap to protect from dirt, available in signal gray (RAL 7004) and black ESD (RAL 9005)
- ▶ Profile machining: not required

Technical data (p. 19-9)

Notice: The collar screws enable the brackets to be assembled really quickly and easily (p. 3-5)

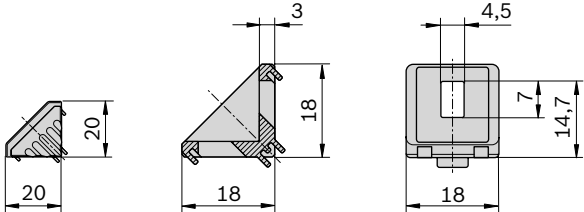


20/20



6

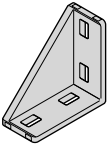
8



00109407

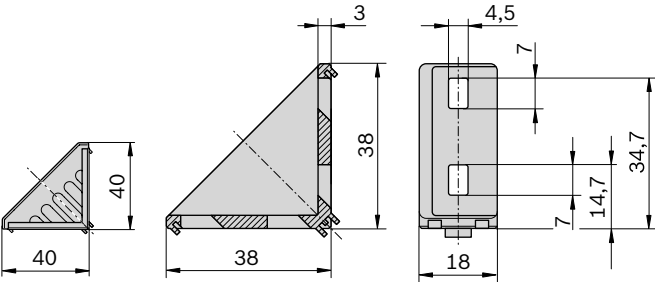
Model				
20/20	700 N	6 Nm	25 Nm	—

20/40



6

8



00109411

Model				
20/40	1400 N	15 Nm	50 Nm	8 Nm

20/20	Slot	ESD		No.	FS
Set (standard)	6 / 6		1	3 842 523 511	2xFS1
<i>designLINE</i> set	6 / 6		1	3 842 551 596	2xFS1
Bracket (standard)	6		100	3 842 523 508	
Cap, signal gray			100	3 842 548 842	
Cap, black			100	3 842 548 843	
Adapter for 8 mm slot	6 / 8		100	3 842 523 516	

Material: Bracket: Diecast aluminum, vibratory ground
 designLINE bracket: painted (RAL 9006)
 Adapter: PA, black
 Cap: PP
 Fastening material: steel, galvanized
 Scope of delivery: Set incl. fastening material (FS)

FS1



DIN 7984
M4x8

6

8

20/40	Slot	ESD		No.	FS
Set (standard)	6 / 6		1	3 842 523 520	4xFS1
<i>designLINE</i> set	6 / 6		1	3 842 551 597	4xFS1
Bracket (standard)	6		20	3 842 523 517	
Cap, signal gray			20	3 842 548 844	
Cap, black			20	3 842 548 845	
Adapter for 8 mm slot	6 / 8		100	3 842 523 516	

Material: Bracket: Diecast aluminum, vibratory ground
 Bracket *designLINE*: painted (RAL 9006)
 Adapter: PA; black
 Cap: PP
 Fastening material: steel, galvanized
 Scope of delivery: Set incl. fastening material (FS)

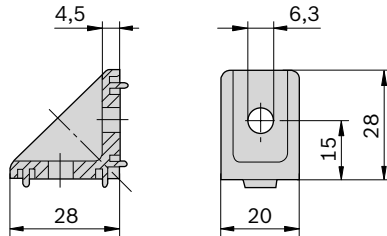
FS1



DIN 7984
M4x8

6

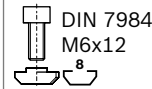
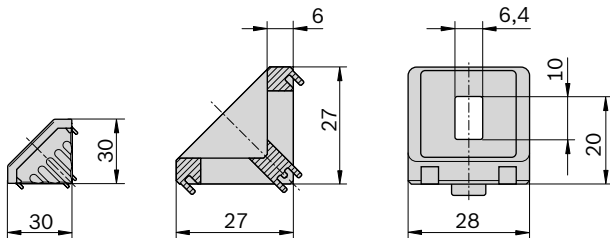
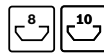
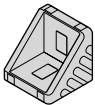
8

20x28


00125983

20x28	Slot	ESD	No.	FS
Set (standard)	8 / 8		1 3 842 502 137	2xFS1
Bracket (standard)	8		100 3 842 501 587	

Material: Diecast zinc
Fastening material: steel, galvanized
Scope of delivery: Set incl. fastening material (FS)

FS1

30/30


00109415

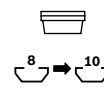
30/30	Slot	ESD	No.	FS
Set (standard)	8 / 8		1 3 842 523 528	2xFS2
	8 / 10		1 3 842 523 530	1xFS2, 2xFS3, 1xFS4
	10 / 10		1 3 842 523 532	4xFS3, 2xFS4
<i>designLINE</i> set	8 / 8		1 3 842 551 598	2xFS2
	8 / 10		1 3 842 551 600	1xFS2, 2xFS3, 1xFS4
	10 / 10		1 3 842 551 599	4xFS3, 2xFS4
Bracket (standard)	8		100 3 842 523 525	
Cap, signal gray			100 3 842 548 846	
Cap, black			100 3 842 548 847	
Adapter for 10 mm slot	8 / 10		100 3 842 523 537	

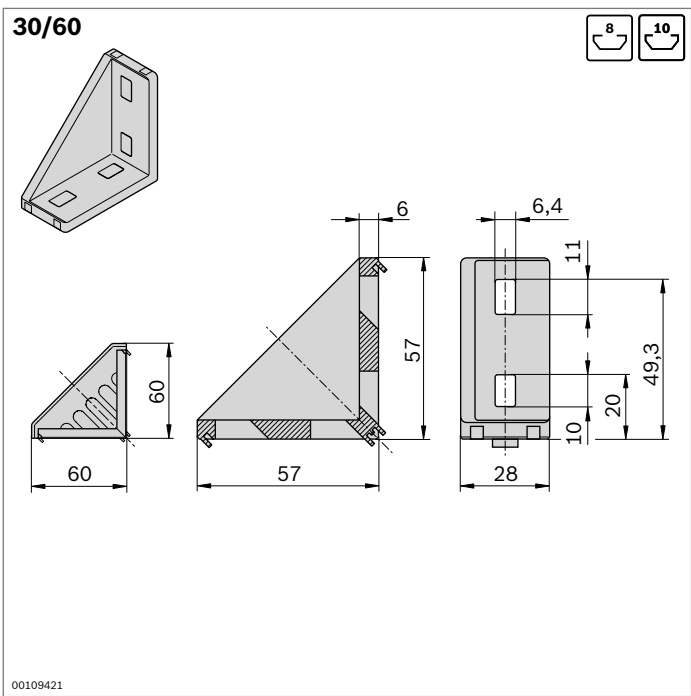
Material: Bracket: Diecast aluminum, vibratory ground
Bracket *designLINE*: painted (RAL 9006)
Adapter: PA, black
Cap: PP
Fastening material: steel, galvanized

Scope of delivery: Set incl. fastening material (FS)

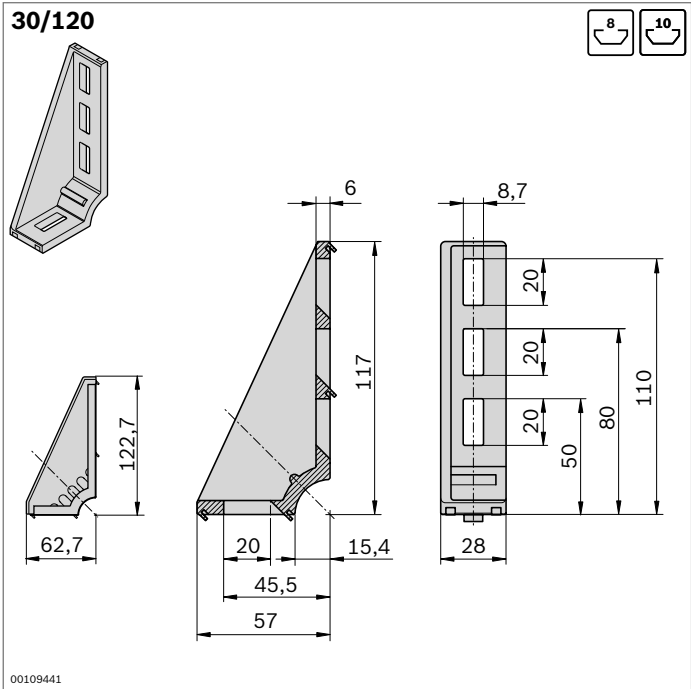
Model				
30/30	1250 N	25 Nm	75 Nm	—

FS2

FS3

FS4

Model				
30/60	2500 N	100 Nm	170 Nm	25 Nm



Model			
30/120	3750 N	100 Nm	47 Nm

30/60	Slot	ESD		No.	FS
Set (standard)	8 / 8		1	3 842 523 541	4xFS2
<i>designLINE</i> set	8 / 8		1	3 842 551 601	4xFS2
Bracket (standard)	8		20	3 842 523 538	
Cap, signal gray			20	3 842 548 848	
Cap, black			20	3 842 548 849	
Adapter for 10 mm slot	8 / 10		100	3 842 523 537	

Material:

- Bracket: Diecast aluminum, vibratory ground
- Bracket *designLINE*: painted (RAL 9006)
- Adapter: PA, black
- Cap: PP
- Fastening material: steel, galvanized

Scope of delivery: Set incl. fastening material (FS)

FS2

DIN 7984
M6x14

8

30/120	Slot	ESD		No.	FS
<i>designLINE</i> set	8 / 8		1	3 842 551 602	2xFS6
Bracket (standard)	8		20	3 842 523 587	
Cap, signal gray			20	3 842 548 850	
Cap, black			20	3 842 548 851	
Adapter for 10 mm slot	8 / 10		100	3 842 523 537	

Material:

- Bracket: Diecast aluminum, vibratory ground
- Bracket *designLINE*: painted (RAL 9006)
- Adapter: PA, black
- Cap: PP
- Fastening material: steel, galvanized

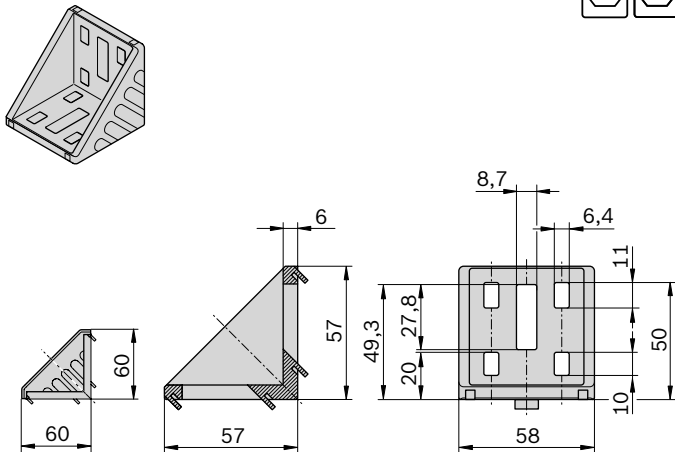
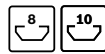
Scope of delivery: Set incl. fastening material (FS)

FS6

M6x16

8

60/60

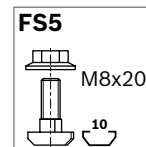
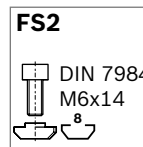


00109425

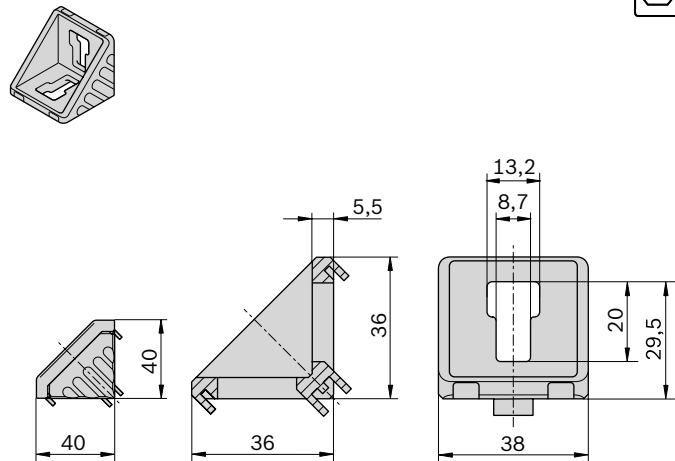
60/60	Slot	ESD	No.	FS
Set (standard)	8 / 8		1	3 842 523 549 8xFS2
	8 / 10		1	3 842 523 551 4xFS2, 1xFS5
	10 / 10		1	3 842 523 553 2xFS5
designLINE set	8 / 8		1	3 842 551 609 8xFS2
	8 / 10		1	3 842 551 610 4xFS2, 1xFS5
	10 / 10		1	3 842 551 611 2xFS5
Bracket (standard)	8		20	3 842 523 546
Cap, signal gray			20	3 842 548 852
Cap, black			20	3 842 548 853
Adapter for 10 mm slot	10		100	3 842 523 537

Material: Bracket: Diecast aluminum, vibratory ground
 Bracket *designLINE*: painted (RAL 9006)
 Adapter: PA; black
 Cap: PP
 Fastening material: steel, galvanized
 Scope of delivery: Set incl. fastening material (FS)

Model	Slot		F_{max}		M_{max}		M_{max}
60/60	8		5000 N		320 Nm		370 Nm
	10		3000 N		125 Nm		150 Nm



40/40

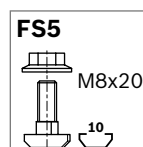


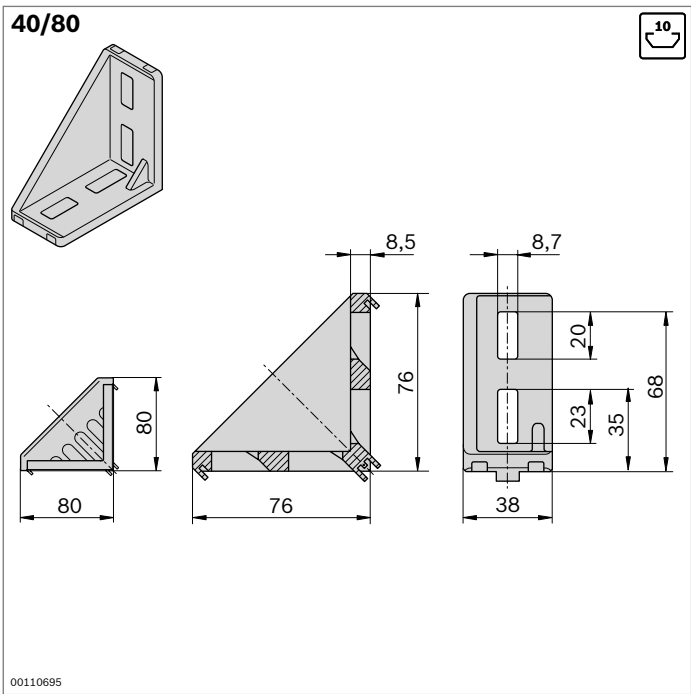
00110693

40/40	Slot	ESD	No.	FS
Set (standard)	10 / 10		1	3 842 529 383 2xFS5
designLINE set	10 / 10		1	3 842 551 603 2xFS5
Bracket (standard)	10		100	3 842 528 967
Cap, signal gray			100	3 842 548 854
Cap, black			100	3 842 548 855

Material: Bracket: Diecast aluminum, vibratory ground
 Bracket *designLINE*: painted (RAL 9006)
 Cap: PP
 Fastening material: steel, galvanized
 Scope of delivery: Set incl. fastening material (FS)

Model		F_{max}		M_{max}		M_{max}
40/40		3000 N		55 Nm		145 Nm



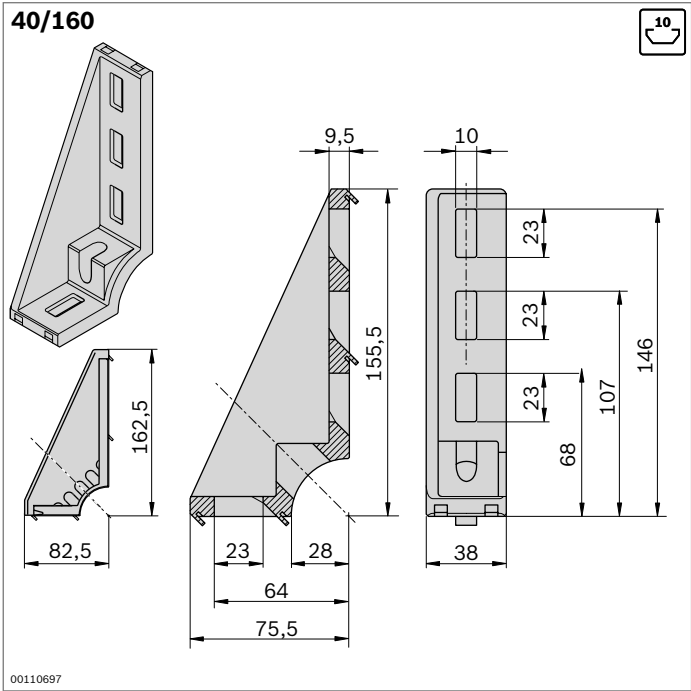
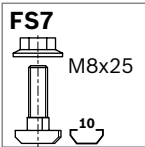


40/80	Slot	ESD		No.	FS
Set (standard)	10 / 10		1	3 842 529 386	4xFS7
<i>designLINE</i> set	10 / 10		1	3 842 551 604	4xFS7
Bracket (standard)	10		20	3 842 529 005	
Cap, signal gray			20	3 842 548 856	
Cap, black			20	3 842 548 857	

Material: Bracket: Diecast aluminum, vibratory ground
designLINE bracket: painted (RAL 9006)
 Cap: PP
 Fastening material: steel, galvanized

Scope of delivery: Set incl. fastening material (FS)

Model				
40/80	6000 N	180 Nm	400 Nm	60 Nm

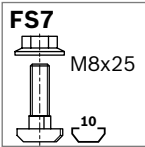


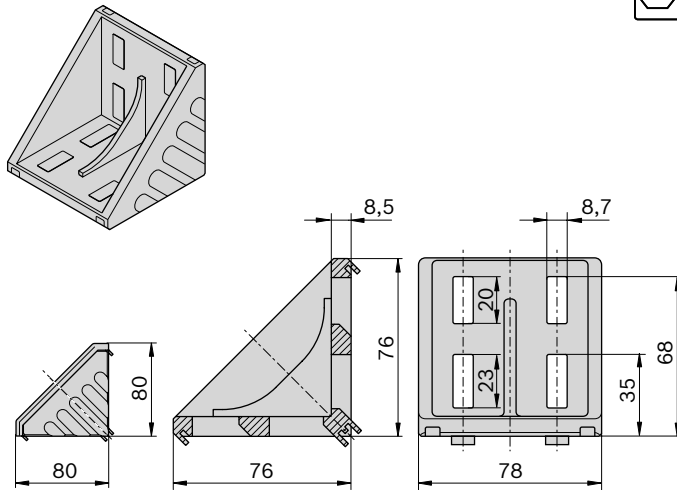
40/160	Slot	ESD		No.	FS
<i>designLINE</i> set	10 / 10		1	3 842 551 605	2xFS7
Bracket (standard)	10		20	3 842 529 006	
Cap, signal gray			20	3 842 548 858	
Cap, black			20	3 842 548 859	

Material: Bracket: Diecast aluminum, vibratory ground
 Bracket *designLINE*: painted (RAL 9006)
 Cap: PP
 Fastening material: steel, galvanized

Scope of delivery: Set incl. fastening material (FS)

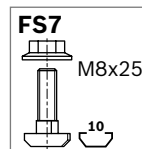
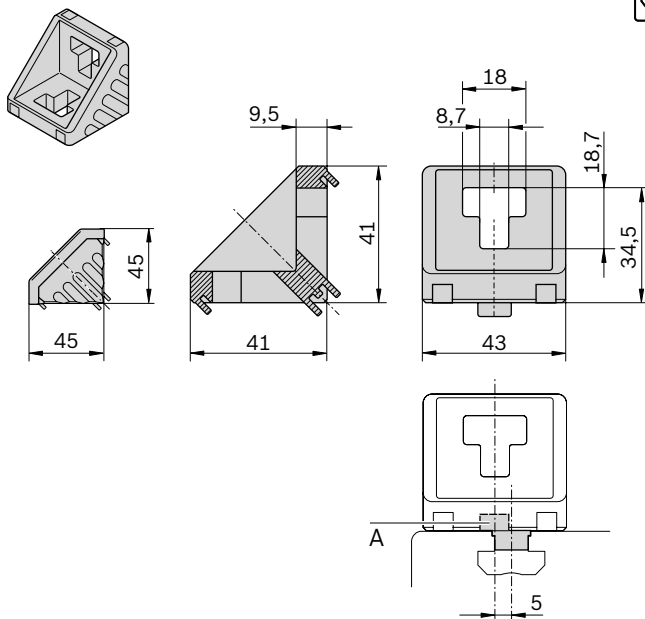
Model			
40/160	9000 N	250 Nm	60 Nm



80/80


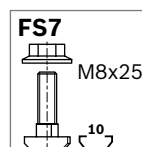
00116446

Model	F_{max}	M_{max}	M_{max}	M_{max}
80/80	14000 N	500 Nm	1000 Nm	400 Nm


45/45


00109431

Model	F_{max}	M_{max}	M_{max}	M_{max}
45/45	3000 N	60 Nm	160 Nm	—

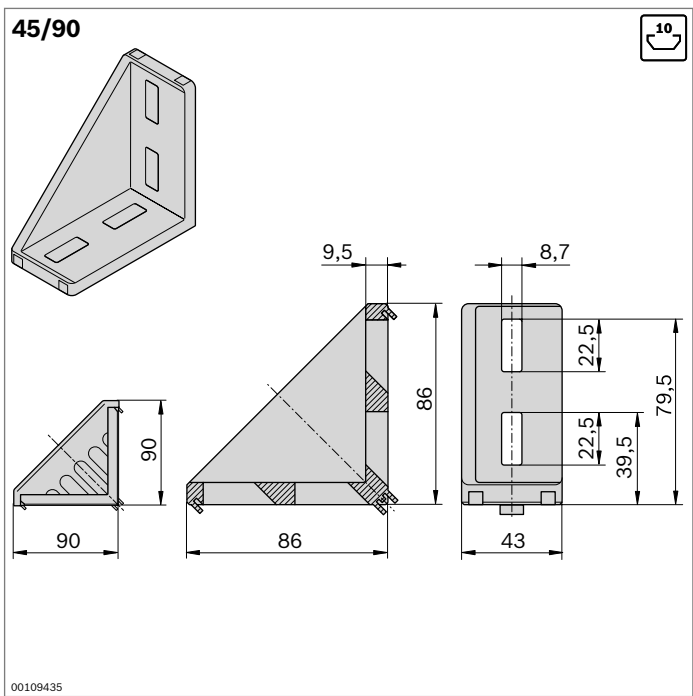


80/80	Slot	ESD	No.	FS
Set (standard)	10 / 10		1	3 842 530 360 8xFS7
<i>designLINE</i> set	10 / 10		1	3 842 551 612 8xFS7
Bracket (standard)	10		20	3 842 530 231
Cap, signal gray			20	3 842 548 860
Cap, black			20	3 842 548 861

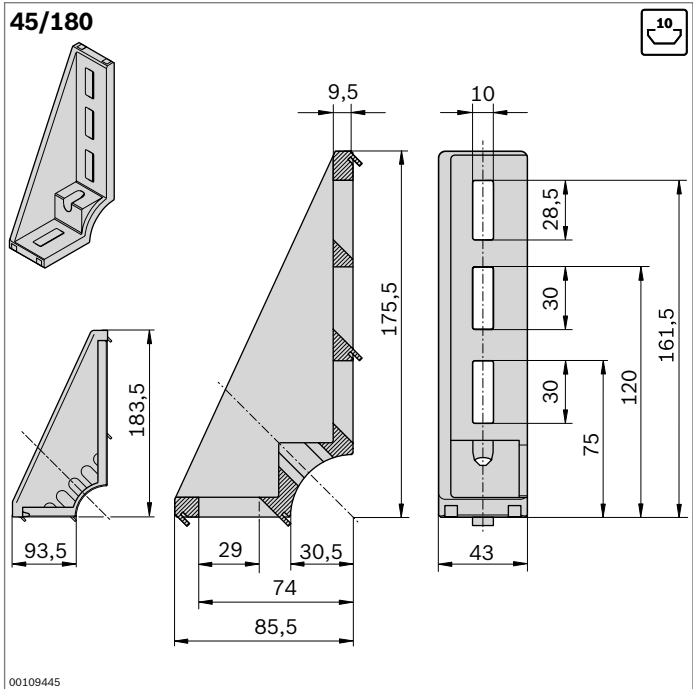
Material: Bracket: Diecast aluminum, vibratory ground
 Bracket *designLINE*: painted (RAL 9006)
 Cap: PP
 Fastening material: steel, galvanized
 Scope of delivery: Set incl. fastening material (FS)

45/45	Slot	ESD	No.	FS
Set (standard)	10 / 10		1	3 842 523 561 2xFS7
<i>designLINE</i> set	10 / 10		1	3 842 551 606 2xFS7
Bracket (standard)	10		100	3 842 523 558
Cap, signal gray			100	3 842 548 862
Cover cap, black			100	3 842 548 863
Sliding block, offset (A)	10		100	3 842 523 593

Material: Bracket: Diecast aluminum, vibratory ground
 Bracket *designLINE*: painted (RAL 9006)
 Sliding block, offset: PA, black
 Cap: PP
 Fastening material: steel, galvanized
 Scope of delivery: Set incl. fastening material (FS)



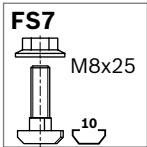
Model				
45/90	6000 N	180 Nm	400 Nm	60 Nm



Model			
45/180	9000 N	250 Nm	65 Nm

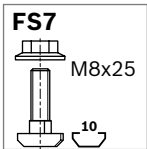
45/90	Slot	ESD		No.	FS
Set (standard)	10 / 10		1	3 842 523 570	4xFS7
<i>designLINE</i> set	10 / 10		1	3 842 551 607	4xFS7
Bracket (standard)	10		100	3 842 523 567	
Cap, signal gray			100	3 842 548 864	
Cap, black			100	3 842 548 865	

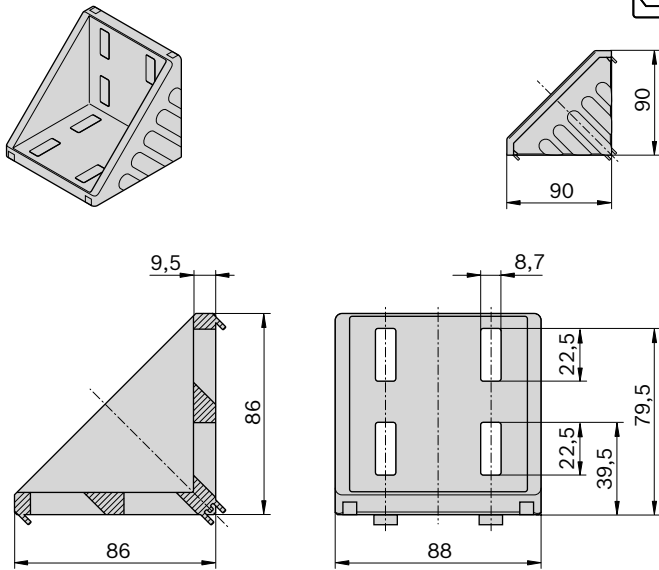
Material: Bracket: Diecast aluminum, vibratory ground
designLINE bracket: painted (RAL 9006)
 Cap: PP
 Fastening material: steel, galvanized
 Scope of delivery: Set incl. fastening material (FS)



45/180	Slot	ESD		No.	FS
<i>designLINE</i> set	10 / 10		1	3 842 551 608	2xFS7
Bracket (standard)	10		20	3 842 523 583	
Cap, signal gray			20	3 842 548 866	
Cap, black			20	3 842 548 867	

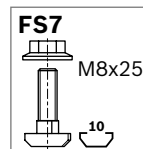
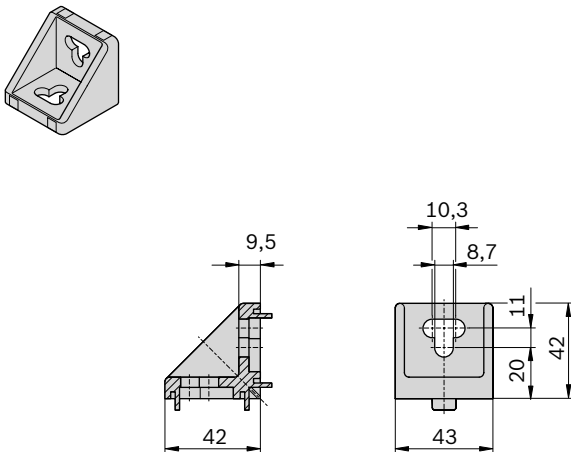
Material: Bracket: Diecast aluminum, vibratory ground
 Bracket *designLINE*: painted (RAL 9006)
 Cap: PP
 Fastening material: steel, galvanized
 Scope of delivery: Set incl. fastening material (FS)



90/90


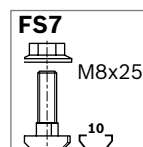
00109438

Model				
90/90	12000 N	370 Nm	800 Nm	200 Nm


43x42


00109449

Model				
43x42	2000 N	–	160 Nm	–



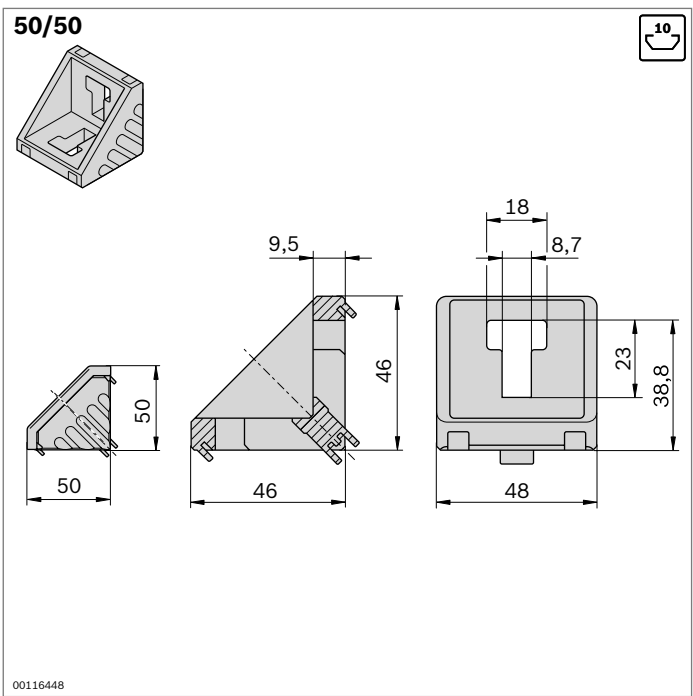
90/90	Slot	ESD		No.	FS
Set (standard)	10 / 10		1	3 842 523 578	8xFS7
<i>designLINE</i> set	10 / 10		1	3 842 551 613	8xFS7
Bracket (standard)	10		20	3 842 523 575	
Cap, signal gray			20	3 842 548 868	
Cap, black			20	3 842 548 869	

Material: Bracket: Diecast aluminum, vibratory ground
designLINE bracket: painted (RAL 9006)

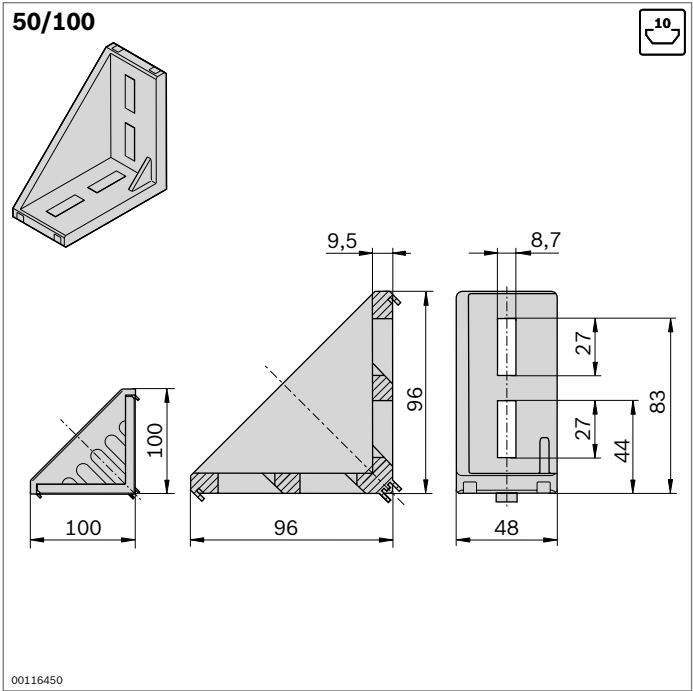
Cap: PP

Fastening material: steel, galvanized

Scope of delivery: Set incl. fastening material (FS)



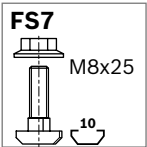
Model				
50/50	4000 N	125 Nm	250 Nm	38 Nm



Model				
50/100	7500 N	300 Nm	600 Nm	73 Nm

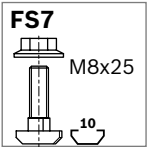
50/50	Slot	ESD		No.	FS
Set (standard)	10 / 10		1	3 842 530 259	2xFS7
Bracket (standard)	10		20	3 842 530 381	
Cap, signal gray			20	3 842 548 870	
Cap, black			20	3 842 548 871	

Material: Bracket: Diecast aluminum, vibratory ground
 Cover cap: PP
 Fastening material: steel, galvanized
 Scope of delivery: Set incl. fastening material (FS)

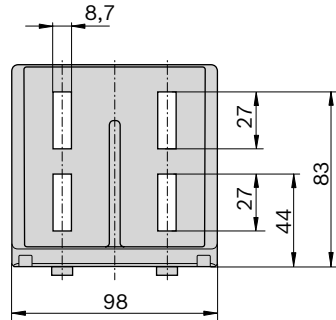
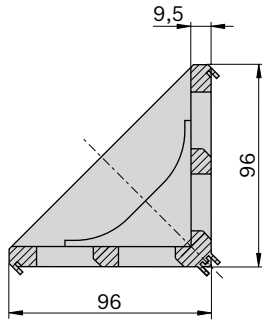
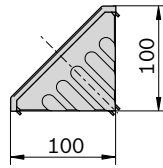
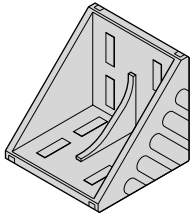


50/100	Slot	ESD		No.	FS
Set (standard)	10 / 10		1	3 842 530 260	4xFS7
Bracket (standard)	10		20	3 842 530 382	
Cap, signal gray			20	3 842 548 872	
Cap, black			20	3 842 548 873	

Material: Bracket: Diecast aluminum, vibratory ground
 Cap: PP
 Fastening material: steel, galvanized
 Scope of delivery: Set incl. fastening material (FS)



100/100



00116452

100/100	Slot	ESD	No.	FS
Set (standard)	10 / 10		1	3 842 530 361 8xFS7
Bracket (standard)	10		20	3 842 530 460
Cap, signal gray			20	3 842 548 874
Cap, black			20	3 842 548 875

Material: Bracket: Diecast aluminum, vibratory ground

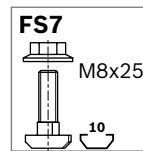
Cap: PP

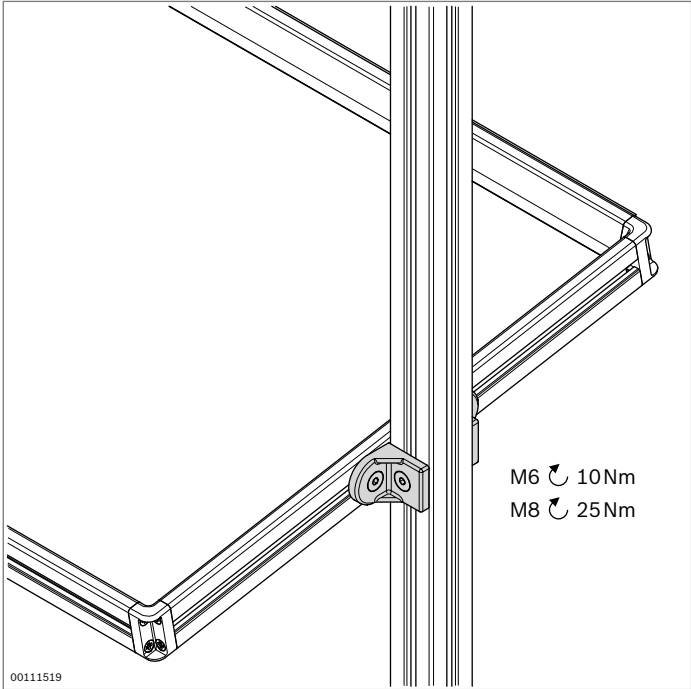
Fastening material: steel, galvanized

Scope of delivery: Set incl. fastening material (FS)

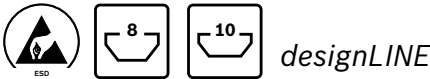
3

Model				
100/100	15000 N	550 Nm	1100 Nm	480 Nm

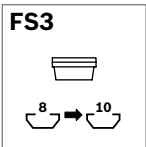
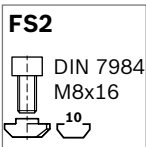
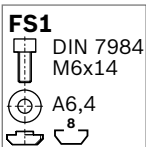
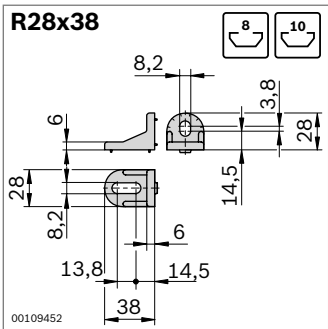




Bracket R

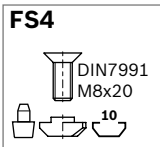
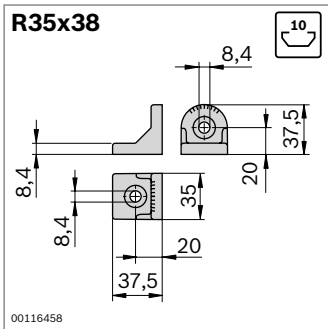


- For connecting profiles at any angle
- No interfering edges thanks to rounded bracket
- Brackets with centering lugs for rapid, precise assembly with protection against turning
- Centering lugs can be easily broken off for assembly on plates or at right angles to the slot
- *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- Profile machining: not required



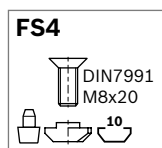
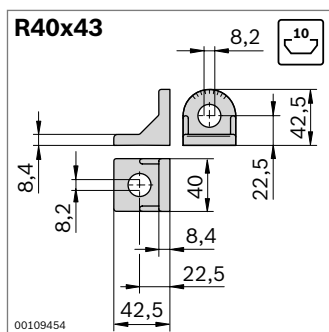
R28x38	Slot	ESD	No.	FS
Set (standard)	8 / 10		1	3 842 515 547 FS1, FS2, 2xFS3
	10 / 10		1	3 842 521 580 2xFS2, 4xFS3
<i>designLINE</i> set	8 / 10		1	3 842 538 703 FS1, FS2, 2xFS3
	10 / 10		1	3 842 538 704 2xFS2, 4xFS3
Bracket (standard)	8, 10		100	3 842 515 473

Material: Bracket: Diecast zinc
designLINE bracket: painted (RAL 9006)
Adapter: PA; black
Fastening material: steel, galvanized
Scope of delivery: Set incl. fastening material (FS)



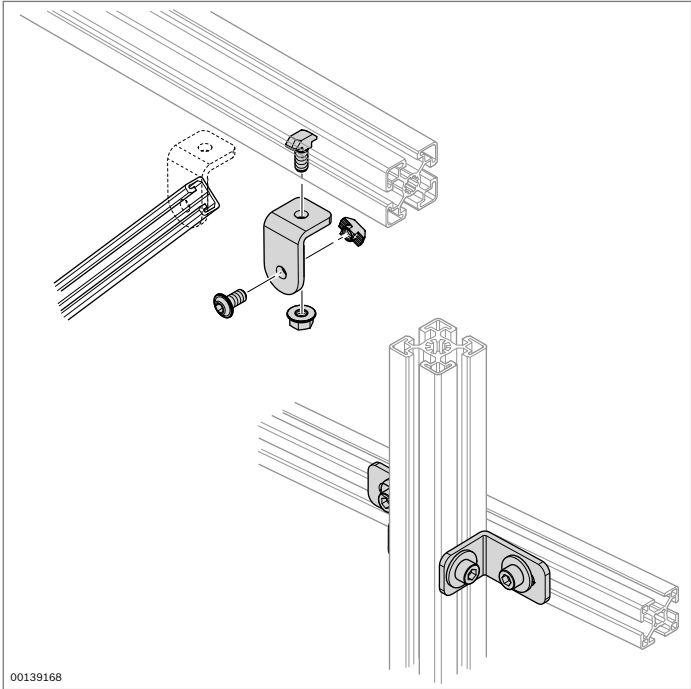
R35x38	Slot	ESD	No.	FS
Set (standard)	10 / 10		1	3 842 532 274 2xFS4
<i>designLINE</i> set	10 / 10		1	3 842 538 705 2xFS4
Bracket (standard)	10		100	3 842 529 020

Material: Bracket: Die-cast aluminum
Bracket *designLINE*: painted (RAL 9006)
Centering bolts: PA6, black
Fastening material: steel, galvanized
Scope of delivery: Set incl. fastening material (FS)

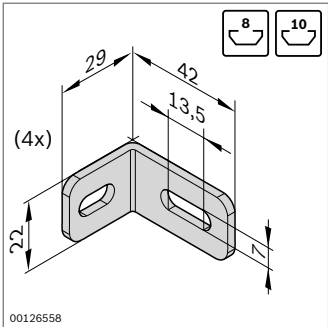


R40x43	Slot	ESD		No.	FS
Set (standard)	10 / 10		1	3 842 518 424	2xFS4
<i>designLINE</i> set	10 / 10		1	3 842 538 706	2xFS4
Bracket (standard)	10		100	3 842 504 760	

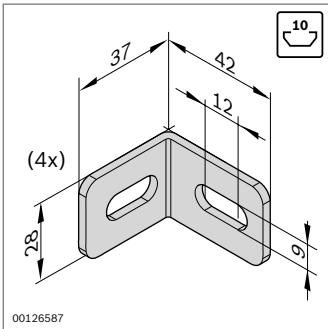
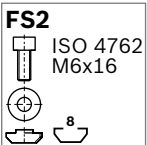
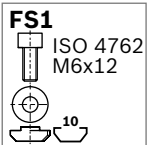
Material: Bracket: Diecast zinc
designLINE bracket: painted (RAL 9006)
 Centering bolts: PA6, black
 Fastening material: steel, galvanized
 Scope of delivery: Set incl. fastening material (FS)



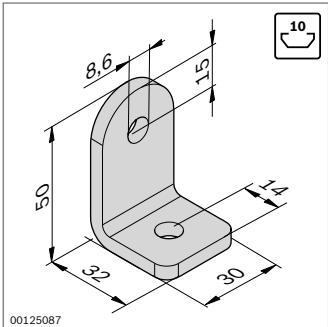
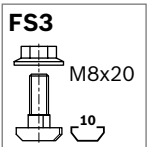
00139168



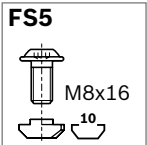
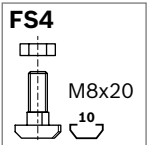
00126558



00126587



00125087



Steel bracket

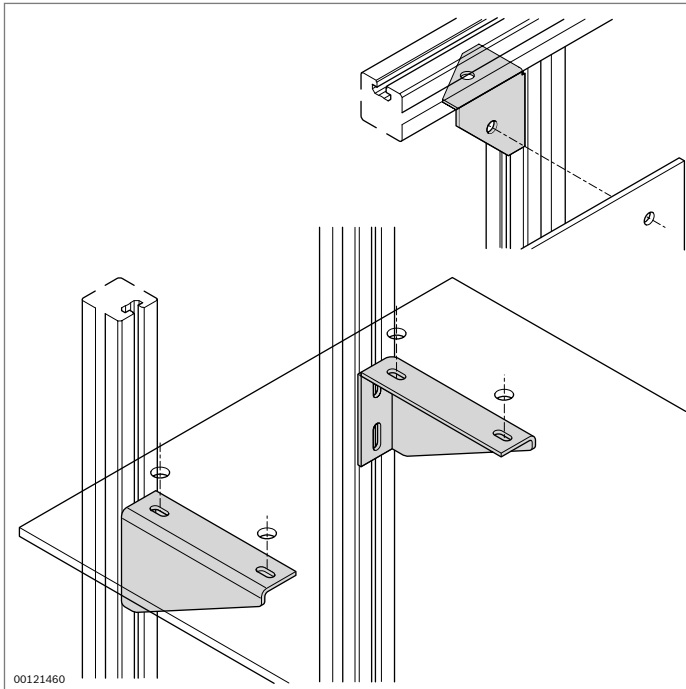


- Steel bracket without centering lugs for fastening at any angle
- Profile machining: not required

Bracket set	Slot	ESD	No.	FS
	8 / 10		4	3 842 537 862
Material:	Steel, galvanized			
Fastening material:	steel, galvanized			
Scope of delivery:	Set incl. fastening material (FS)			

Bracket set	Slot	ESD	No.	FS
	10 / 10		4	3 842 537 861
Material:	Steel, galvanized			
Fastening material:	steel, galvanized			
Scope of delivery:	Set incl. fastening material (FS)			

Bracket set	Slot	ESD	No.	FS
	10 / 10		20	3 842 536 729
Material:	Steel, galvanized			
Fastening material:	steel, galvanized			
Scope of delivery:	Set incl. fastening material (FS)			



Metal bracket Supporting bracket

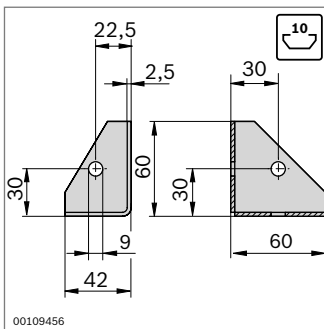


Metal bracket

- ▶ Metal bracket for right-angled profile connections
- ▶ Screw fitting of surface elements in the stiffening fin bore
- ▶ Profile machining: not required

Supporting bracket

- ▶ Supporting bracket for fastening surface elements to profiles, e.g. for shelves
- ▶ Profile machining: not required



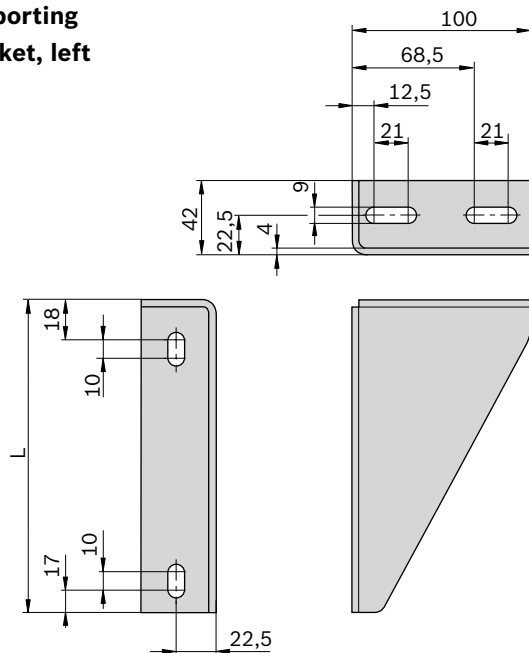
Metal bracket	ESD	No.
	20	3 842 146 813

Material: Sheet steel; galvanized

Accessories, required:

- ▶ T-bolt M8x20, 10 mm slot, **3 842 528 715** (p. 3-6)
- ▶ Flange nut M8, **3 842 345 081** (p. 3-6)

Supporting bracket, left

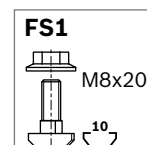


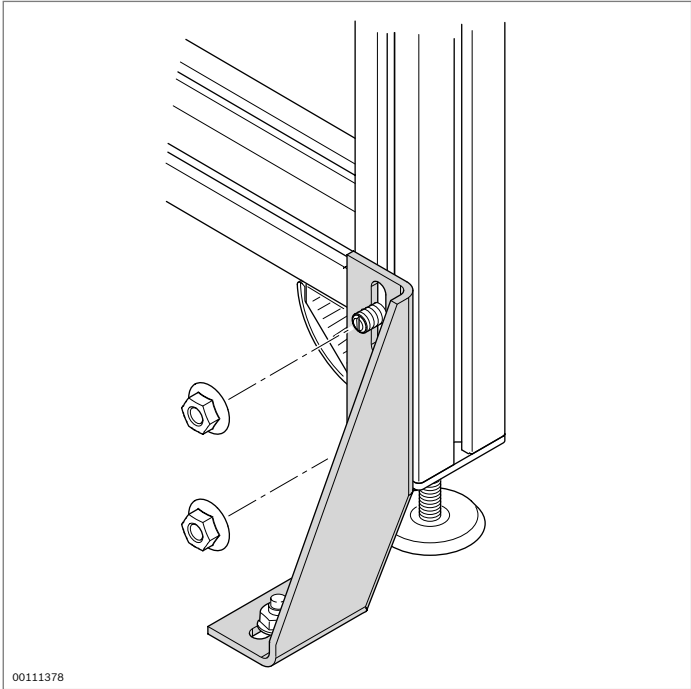
Supporting bracket	L (mm)	ESD	No.	FS
	255		3 842 536 119	2xFS1
	335		3 842 536 121	2xFS1
	415		3 842 536 123	2xFS1
	495		3 842 536 125	2xFS1
	255		3 842 536 120	2xFS1
	335		3 842 536 122	2xFS1
	415		3 842 536 124	2xFS1
	495		3 842 536 126	2xFS1

Material: Sheet steel; powder-coated, RAL 7037

Fastening material: steel, galvanized

Scope of delivery: Incl. fastening material (FS)





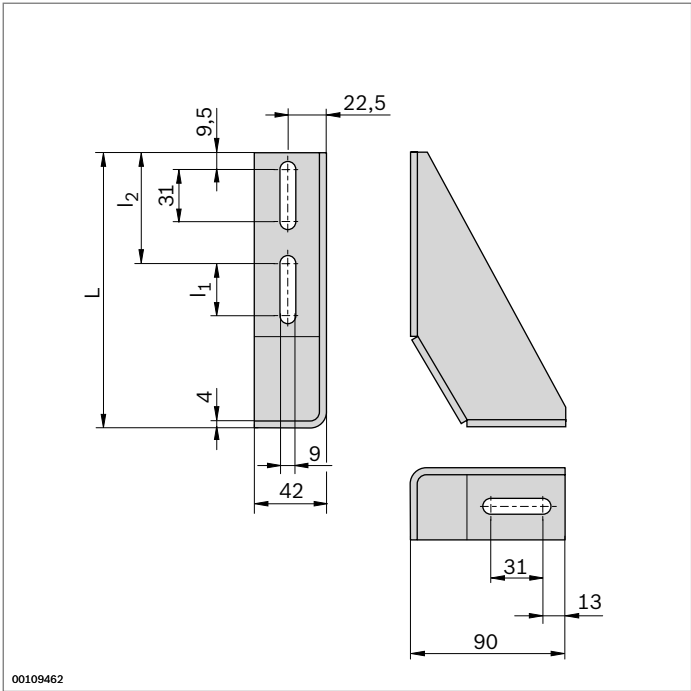
Foundation bracket



- Foundation bracket for securing frames to the floor
- The hole for the floor dowel can be bored without removing the foundation bracket
- Profile machining: not required

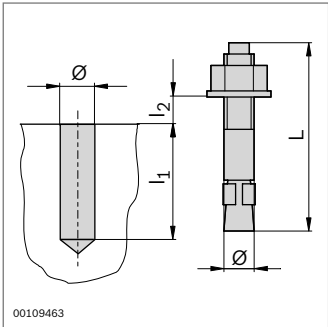
Accessories, required:

- T-bolt M8x20, 10 mm slot, **3 842 528 715** (p. 3-6)
- Flange nut M8, **3 842 345 081** (p. 3-6)
- Floor dowel



Foundation bracket	L (mm)	I ₁ (mm)	I ₂ (mm)		No.
	160	31	64.5	20	3 842 146 815
	210	91	54.5	20	3 842 146 848

Material: Sheet steel; galvanized



Floor dowel	Ø	L (mm)	I ₁ (mm)	I _{2 max} (mm)		No.
	8	80	65	15 100		3 842 526 560

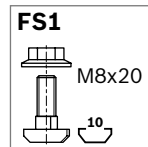
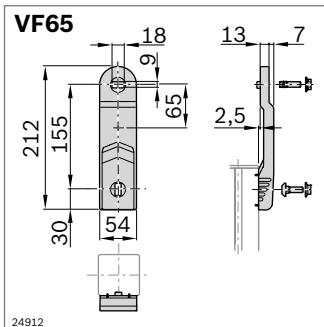
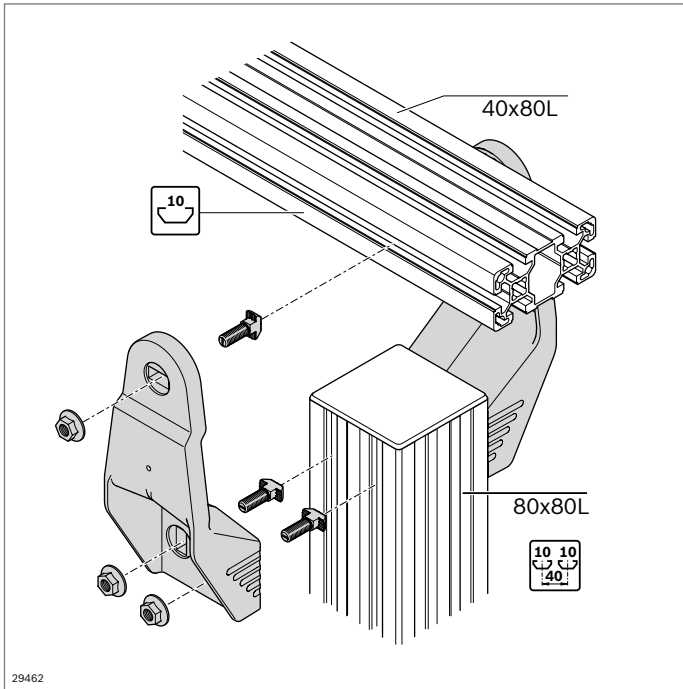
Material: Steel, galvanized

Holder AL

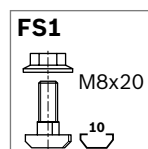
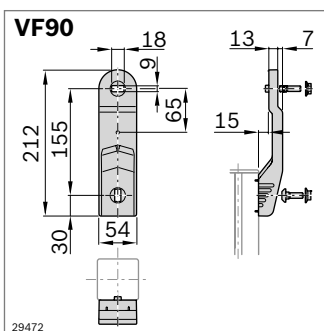


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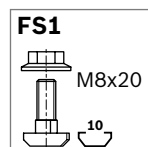
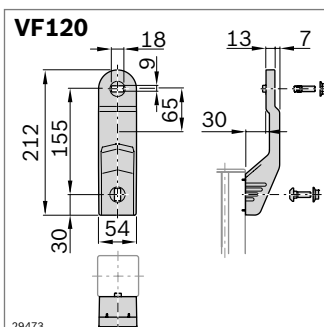
- For connecting profiles at right-angles to each other and with defined spacing, e.g. for floor supports made of 80x80L or 60x60 profiles
- Longitudinal connection possible in all profiles with 10 mm slot
- Transverse connection possible with 40 mm slot spacing
- Profile machining: not required



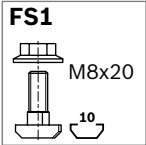
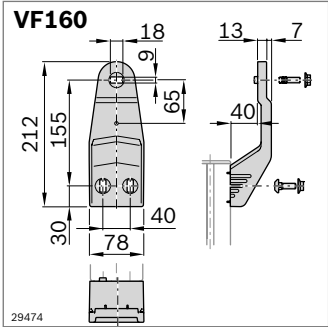
Holder	b (mm)	A (mm)	No.	FS
VFplus 65	65	2.5	Set 3 842 546 625	8xFS1
Material: Holder: diecast aluminum; silver fastening material: steel, galvanized				
Scope of delivery: 2 x holder, fastening material (FS)				



Holder	b (mm)	A (mm)	No.	FS
VFplus 90	90	15	Set 3 842 546 626	8xFS1
Material: Holder: diecast aluminum; silver fastening material: steel, galvanized				
Scope of delivery: 2 x holder, fastening material (FS)				



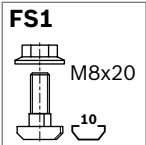
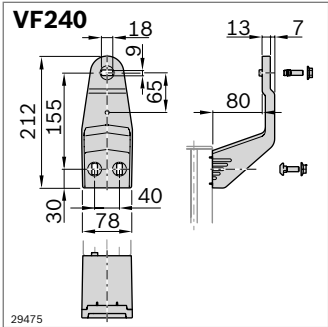
Holder	b (mm)	A (mm)	No.	FS
VFplus 120	120	30	Set 3 842 546 627	8xFS1
Material: Holder: diecast aluminum, silver fastening material: steel, galvanized				
Scope of delivery: 2 x holder, fastening material (FS)				



Holder	b (mm)	A (mm)		No.	FS
VFplus 160	160	40	Set	3 842 546 628	8xFS1

Material: Holder: diecast aluminum, silver
Fastening material: steel, galvanized

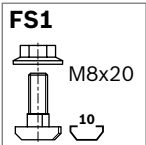
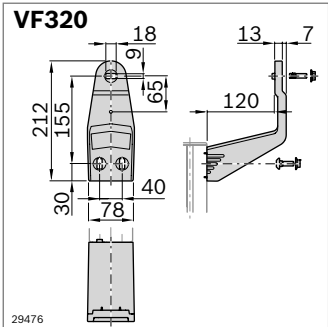
Scope of delivery: 2 x holder, fastening material (FS)



Holder	b (mm)	A (mm)		No.	FS
VFplus 240	240	80	Set	3 842 546 629	8xFS1

Material: Holder: diecast aluminum, silver
Fastening material: steel, galvanized

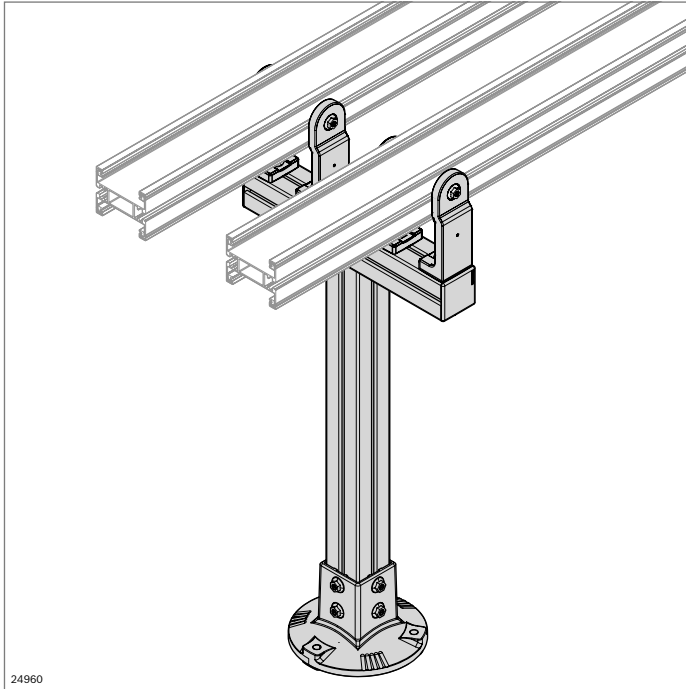
Scope of delivery: 2 x holder, fastening material (FS)



Holder	b (mm)	A (mm)		No.	FS
VFplus 320	320	120	Set	3 842 546 630	8xFS1

Material: Holder: diecast aluminum, silver
Fastening material: steel, galvanized

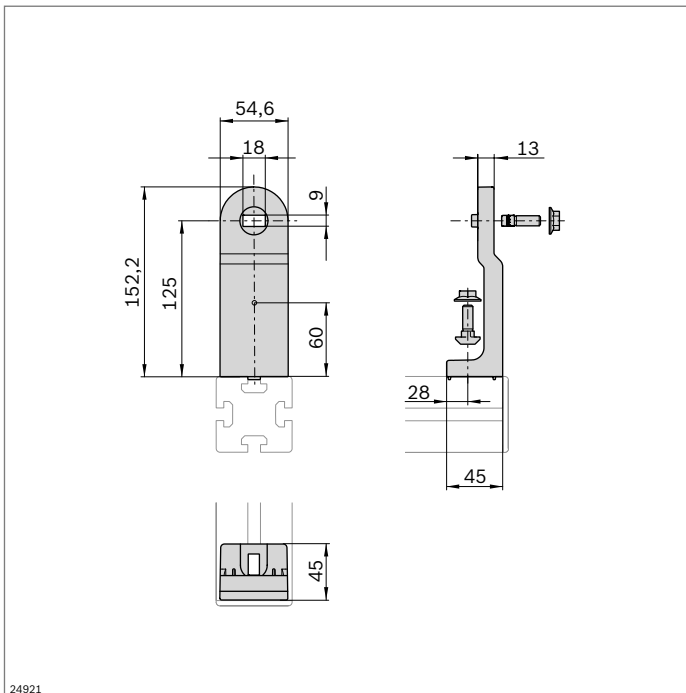
Scope of delivery: 2 x holder, fastening material (FS)



Supporting bracket AL



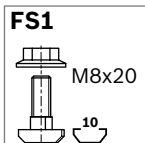
- ▶ Supporting bracket for connecting two profiles with defined spacing (approx. 2–3 m)
- ▶ Profile machining: not required
- ▶ Centering lugs make centering the supporting brackets in the slot easy
- ▶ If the centering lugs are removed, the supporting bracket can also be used for upward and downward sloping sections (up to approx. 45° depending on the return chain)
- ▶ Very easy to assemble due to push-in screwed connection
- ▶ Easy-clean design with self-draining surfaces

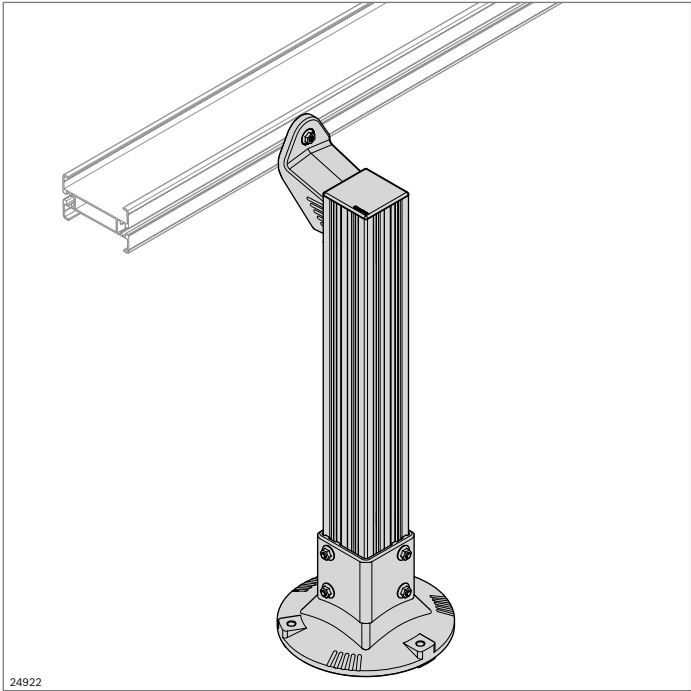


Supporting bracket VFplus AL	No.	FS
Set	3 842 546 632	6xFS1

Material: Holder: diecast aluminum, silver
Fastening material: steel, galvanized

Scope of delivery: Incl. fastening material (FS)

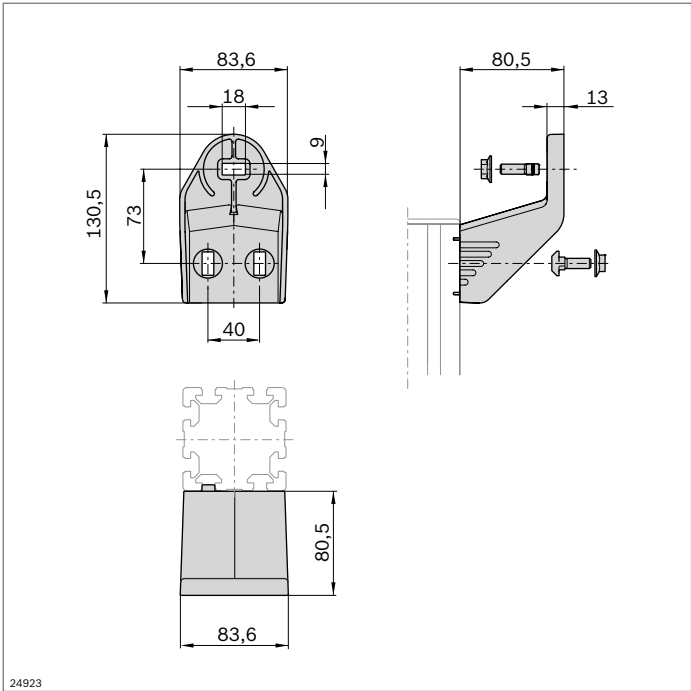




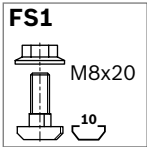
Supporting bracket AL, lateral

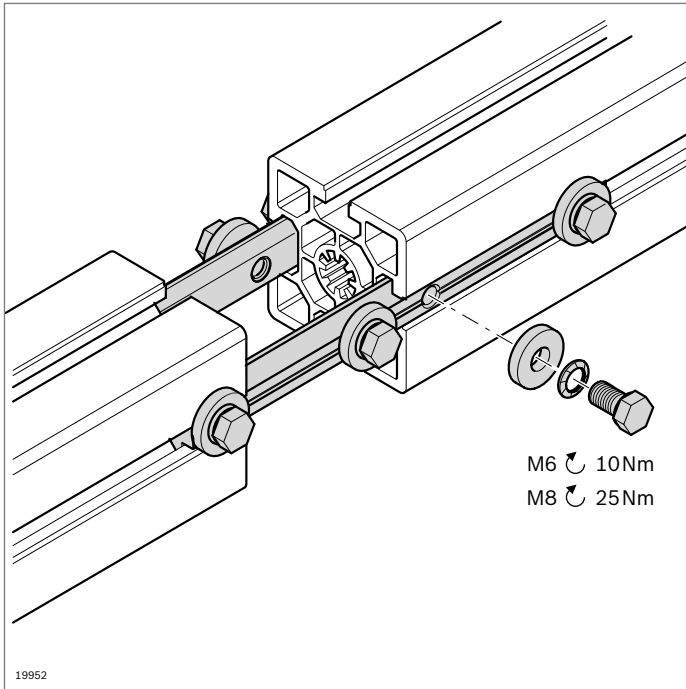


- Supporting bracket for connecting two profiles with defined spacing (approx. 2–3 m)
- Profile machining: not required
- Centering lugs make centering the supporting brackets in the slot easy
- If the centering lugs are removed, the supporting bracket can also be used for upward and downward sloping sections (up to approx. 45° depending on the return chain)
- Designed for attachment to a vertical 80x80 strut profile

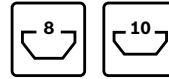


Supporting bracket VFplus lateral AL		No.	FS
Set		3 842 547 461	6xFS1
Material:		Holder: diecast aluminum, silver	
		Fastening material: steel, galvanized	
Scope of delivery:		Incl. fastening material (FS)	



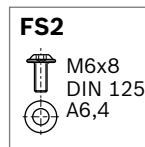
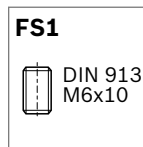
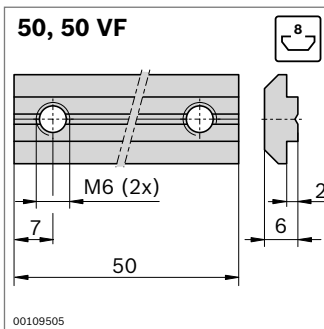


Profile connector



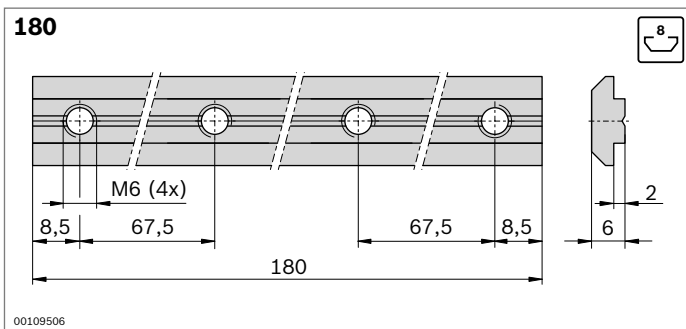
- ▶ Profile connector for end-to-end joining of any profiles
- ▶ For an especially strong connection: one profile connector per slot
- ▶ Profile machining: not required

3



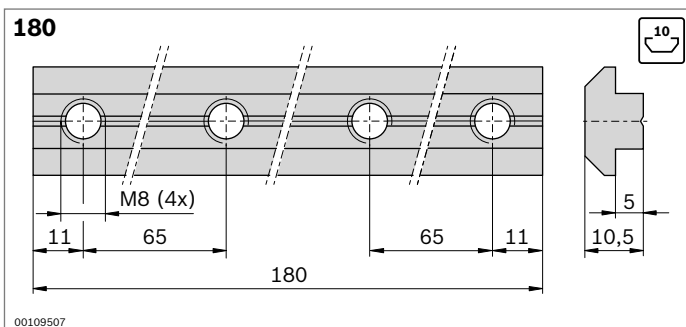
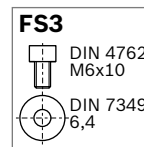
Profile connector	Slot	No.	FS
50 VF	8	10	3 842 536 787 2xFS2
50	8	1	3 842 518 427 2xFS1

Material: Steel, galvanized
Fastening material: steel, galvanized
Scope of delivery: Incl. fastening material (FS)



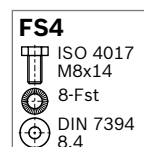
Profile connector	Slot	No.	FS
180	8	3 842 521 216	4xFS3

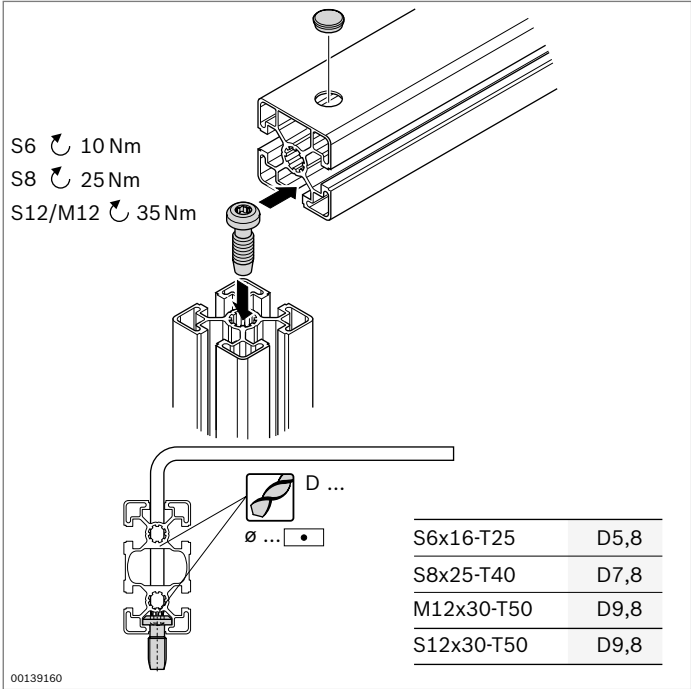
Material: Steel, galvanized
Fastening material: steel, galvanized
Scope of delivery: Incl. fastening material (FS)



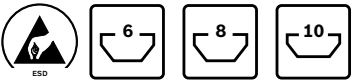
Profile connector	Slot	No.	FS
180	10	3 842 528 746	4xFS4

Material: Steel, galvanized
Fastening material: steel, galvanized
Scope of delivery: Incl. fastening material (FS)





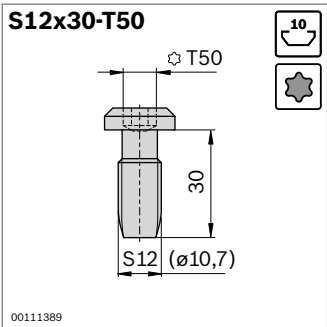
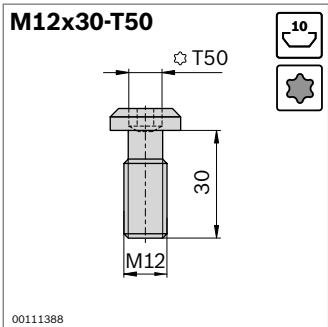
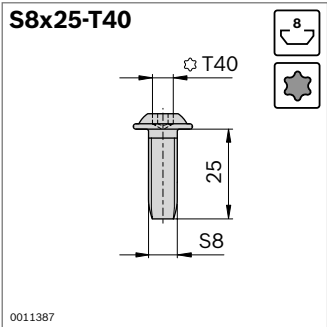
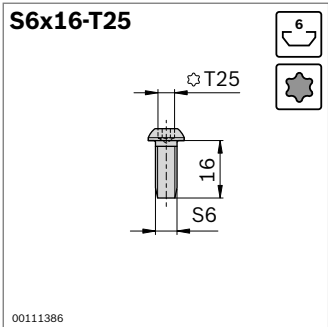
Central bolt, Anti-torsion element, cap



Central bolt

- ▶ Best-value connecting element
- ▶ Self-tapping screw, can be mounted without profile finishing
- ▶ Profile machining:
 - Thread cutting for M12x30 screw
 - Through-hole for screwdriver/offset screwdriver

Tool:
offset screwdriver (p. 14-6)



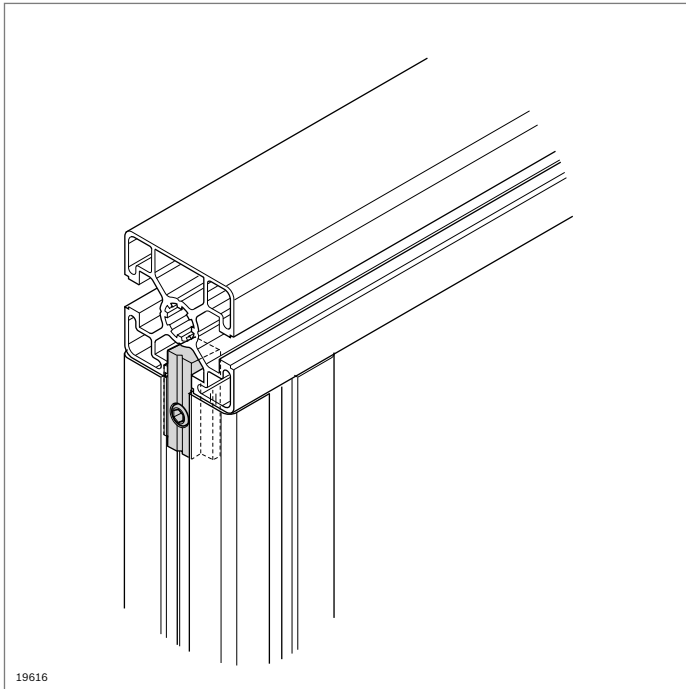
Central bolt	Slot	ESD	No.
S6x16-T25 (self-tapping)	6	100	3 842 528 593
S8x25-T40 (self-tapping)	8	100	3 842 527 174

Material: Steel, galvanized

Central bolt	Slot	ESD	No.
M12x30-T50	10	100	3 842 530 235
S12x30-T50 (self-tapping)	10	100	3 842 530 236

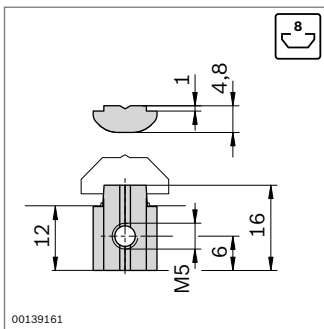
Material: Steel, galvanized

Size	F _{max}	M _{max}
S6	500 N	8 Nm
S8	800 N	43 Nm
S12	1300 N	80 Nm
M12	3000 N	80 Nm



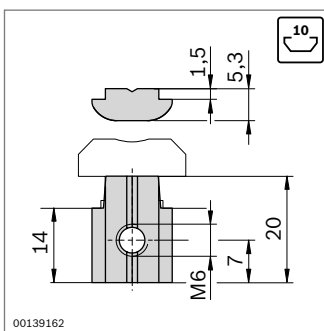
Anti-torsion element

- Provides torsion resistance for profile connections with central bolts or quick connectors
- Subsequent installation in the connection possible



FS1

DIN 916
M5x8



FS2

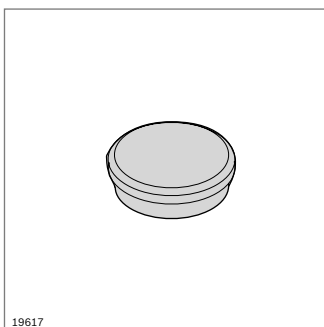
DIN 916
M6x12

Anti-torsion element	Slot	No.	FS
	8	10	3 842 530 325 FS1

Material: Steel, galvanized
Fastening material: steel, galvanized

Anti-torsion element	Slot	No.	FS
	10	10	3 842 530 326 FS2

Material: Steel, galvanized
Fastening material: steel, galvanized

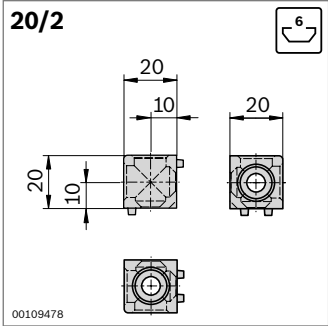
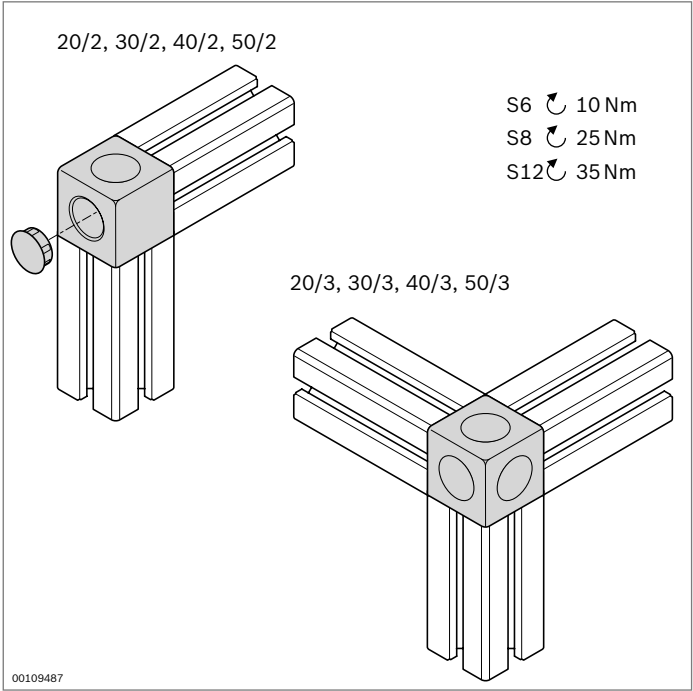


Cap

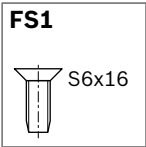
- For sealing through-holes in closed profiles

Cap	Ø	No.
	5.8	100 3 842 538 565
	7.8	100 3 842 538 566
	9.8	100 3 842 538 567

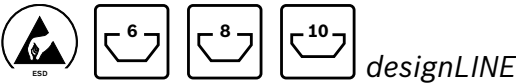
Material: PA, light gray RAL 7035



Model	
20/2	18 Nm



Cubic connector



- For torsion-proof corner connections of profiles with equivalent cross-sections
- *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- Caps to cover the openings
- Screw fitting on profile with self-tapping screws
- Profile machining: not required

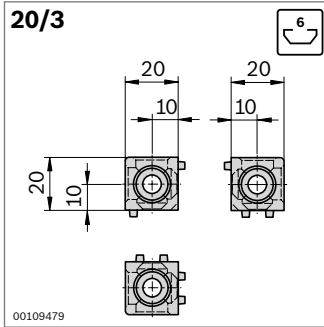
Technical data (p. 19-8)

Cubic connector 20/2	Slot	ESD	No.	FS
Set (standard), signal gray	6	⚡*	1	3 842 549 858 2xFS1
Set <i>designLINE</i> , signal gray	6	⚡*	1	3 842 549 859 2xFS1
Cubic connector	6	⚡	20	3 842 523 875
Cap D12	signal gray (PP)		100	3 842 548 700
	black (PP)	⚡	100	3 842 548 704
Countersunk screw S6x16	6	⚡	100	3 842 517 132

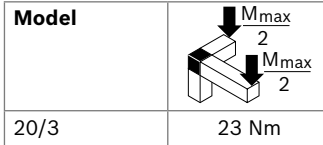
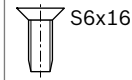
Material: Cubic connector: Die-cast aluminum
designLINE cubic connector: painted (RAL 9006)
 Fastening material: steel, galvanized

Scope of delivery: Set incl. fastening material (FS), caps

* Cubic connector creates conductive connection, but the caps included in the set are not ESD-compatible.

20/3


00109479

Model

FS1


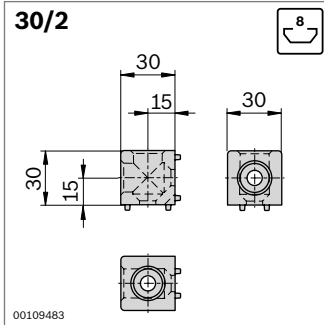
Cubic connector 20/3	Slot	ESD	No.	FS
Set (standard), signal gray	6	⚡*	1 3 842 549 860	3xFS1
Set <i>designLINE</i> , signal gray	6	⚡*	1 3 842 549 861	3xFS1
Cubic connector	6	⚡	20 3 842 523 872	
Cap D12			100 3 842 548 700	
		⚡	100 3 842 548 704	
Countersunk screw S6x16	6	⚡	100 3 842 517 132	

Material: Cubic connector: Die-cast aluminum
designLINE cubic connector: painted (RAL 9006)
 Fastening material: steel, galvanized

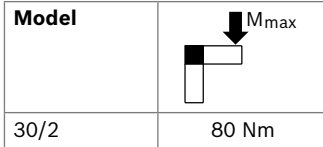
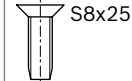
Scope of

delivery: Set incl. fastening material (FS), caps

* Cubic connector creates conductive connection, but the caps included in the set are not ESD-compatible.

30/2


00109483

Model

FS2


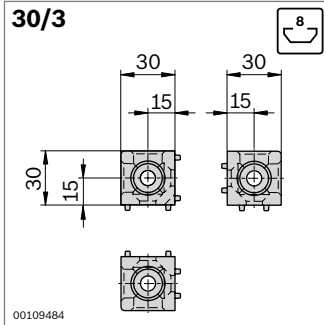
Cubic connector 30/2	Slot	ESD	No.	FS
Set (standard), signal gray	8	⚡*	1 3 842 549 862	2xFS2
Set <i>designLINE</i> , signal gray	8	⚡*	1 3 842 549 863	2xFS2
Cubic connector	8	⚡	20 3 842 523 876	
Cap D18			100 3 842 548 701	
		⚡	100 3 842 548 705	
Countersunk screw S8x25	8	⚡	100 3 842 517 543	

Material: Cubic connector: Die-cast aluminum
designLINE cubic connector: painted (RAL 9006)
 Fastening material: steel, galvanized

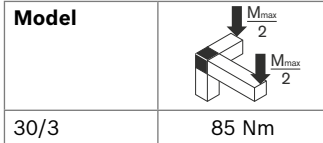
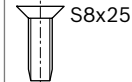
Scope of

delivery: Set incl. fastening material (FS), cover caps

* Cubic connector creates conductive connection, but the caps included in the set are not ESD-compatible.

30/3


00109484

Model

FS2


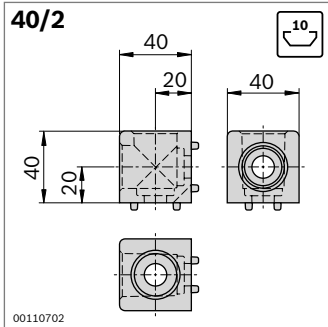
Cubic connector 30/3	Slot	ESD	No.	FS
Set (standard), signal gray	8	⚡*	1 3 842 549 864	3xFS2
Set <i>designLINE</i> , signal gray	8	⚡*	1 3 842 549 865	3xFS2
Cubic connector	8	⚡	20 3 842 523 873	
Cap D18			100 3 842 548 701	
		⚡	100 3 842 548 705	
Countersunk screw S8x25	8	⚡	100 3 842 517 543	

Material: Cubic connector: Die-cast aluminum
designLINE cubic connector: painted (RAL 9006)
 Fastening material: steel, galvanized

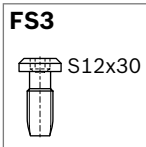
Scope of

delivery: Set incl. fastening material (FS), cover caps

* Cubic connector creates conductive connection, but the caps included in the set are not ESD-compatible.



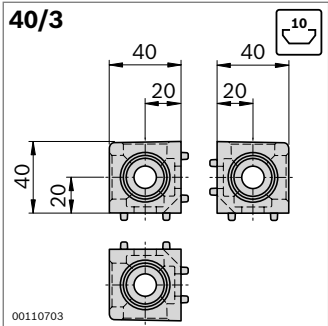
Model	
40/2	
	60 Nm



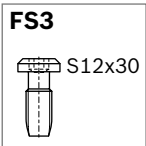
Cubic connector 40/2	Slot	ESD		No.	FS
Set (standard), signal gray	10		*	1	3 842 549 866 2xFS3
Set <i>designLINE</i> , signal gray	10		*	1	3 842 549 867 2xFS3
Cubic connector	10			20	3 842 529 010
Cap D24	signal gray (PP)			100	3 842 548 702
	black (PP)			100	3 842 548 706
Countersunk screw S12x30	10			100	3 842 530 236

Material: Cubic connector: Diecast aluminum
designLINE cubic connector: painted (RAL 9006)
Fastening material: steel, galvanized

Scope of delivery: Set incl. fastening material (FS), caps
* Cubic connector creates conductive connection, but the caps included in the set are not ESD-compatible.



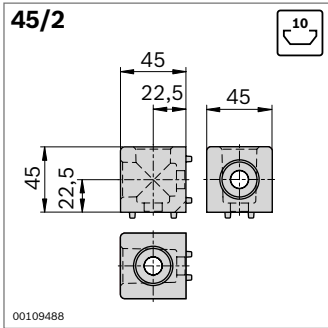
Model	
40/3	
	70 Nm



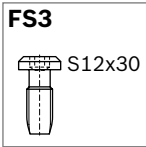
Cubic connector 40/3	Slot	ESD		No.	FS
Set (standard), signal gray	10		*	1	3 842 549 868 3xFS3
Set <i>designLINE</i> , signal gray	10		*	1	3 842 549 869 3xFS3
Cubic connector	10			20	3 842 529 011
Cap D24	signal gray (PP)			100	3 842 548 702
	black (PP)			100	3 842 548 706
Countersunk screw S12x30	10			100	3 842 530 236

Material: Cubic connector: Die-cast aluminum
designLINE cubic connector: painted (RAL 9006)
Fastening material: steel, galvanized

Scope of delivery: Set incl. fastening material (FS), caps
* Cubic connector creates conductive connection, but the caps included in the set are not ESD-compatible.



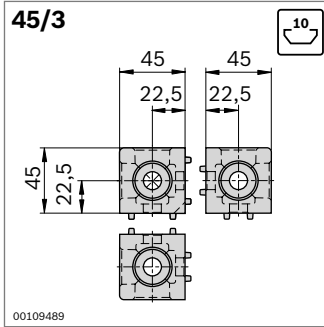
Model	
45/2	
45x45L	150 Nm
45x45	200 Nm



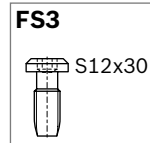
Cubic connector 45/2	Slot	ESD		No.	FS
Set (standard), signal gray	10		*	1	3 842 549 870 2xFS3
Set <i>designLINE</i> , signal gray	10		*	1	3 842 549 871 2xFS3
Cubic connector	10			20	3 842 523 877
Cap D24	signal gray (PP)			100	3 842 548 702
	black (PP)			100	3 842 548 706
Countersunk screw S12x30	10			100	3 842 530 236

Material: Cubic connector: die-cast aluminum
designLINE cubic connector: painted (RAL 9006)
Fastening material: steel, galvanized

Scope of delivery: Set incl. fastening material (FS), caps
* Cubic connector creates conductive connection, but the caps included in the set are not ESD-compatible.



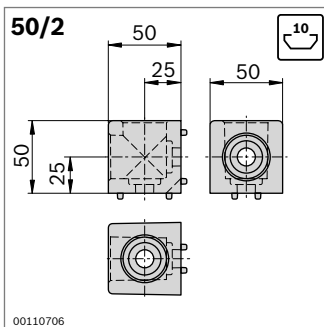
Model		
45/3	45x45L	170 Nm
	45x45	240 Nm



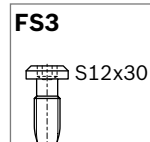
Cubic connector 45/3	Slot	ESD	No.	FS
Set (standard), signal gray	10	⚡*	1	3 842 549 872
Set <i>designLINE</i> , signal gray	10	⚡*	1	3 842 549 873
Cubic connector	10	⚡	20	3 842 523 874
Cap D24	signal gray (PP)		100	3 842 548 702
	black (PP)	⚡	100	3 842 548 706
Countersunk screw S12x30	10	⚡	100	3 842 530 236

Material: Cubic connector: Die-cast aluminum
designLINE cubic connector: painted (RAL 9006)
 Fastening material: steel, galvanized

Scope of delivery: Set incl. fastening material (FS), caps
 * Cubic connector creates conductive connection, but the caps included in the set are not ESD-compatible.



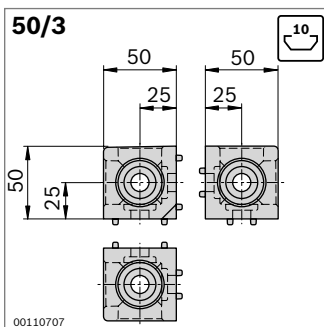
Model		
50/2		120 Nm



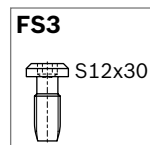
Cubic connector 50/2	Slot	ESD	No.	FS
Set (standard), signal gray	10	⚡*	1	3 842 549 874
Cubic connector	10	⚡	20	3 842 529 012
Cap D30	signal gray (PP)		100	3 842 548 703
	black (PP)	⚡	100	3 842 548 707
Countersunk screw S12x30	10	⚡	100	3 842 530 236

Material: Cubic connector: die-cast aluminum
 Fastening material: steel, galvanized

Scope of delivery: Set incl. fastening material (FS), caps
 * Cubic connector creates conductive connection, but the caps included in the set are not ESD-compatible.



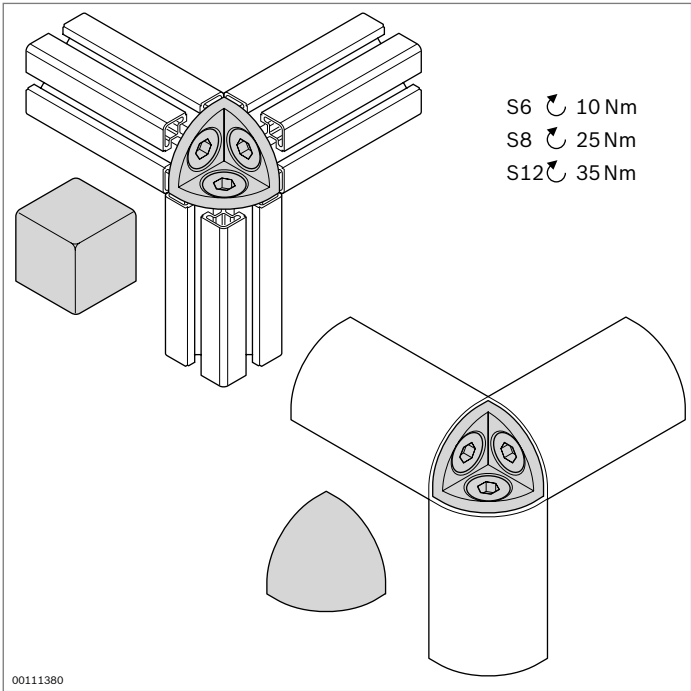
Model		
50/3		140 Nm



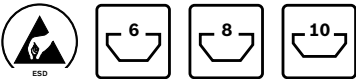
Cubic connector 50/3	Slot	ESD	No.	FS
Set (standard), signal gray	10	⚡*	1	3 842 549 876
Cubic connector	10	⚡	20	3 842 529 013
Cap D30	signal gray (PP)		100	3 842 548 703
	black (PP)	⚡	100	3 842 548 707
Countersunk screw S12x30	10	⚡	100	3 842 530 236

Material: Cubic connector: die-cast aluminum
 Fastening material: steel, galvanized

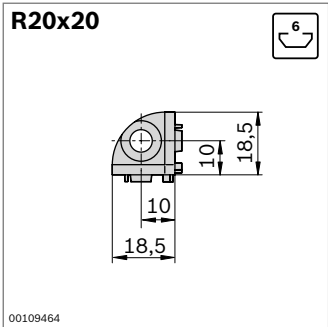
Scope of delivery: Set incl. fastening material (FS), caps
 * Cubic connector creates conductive connection, but the caps included in the set are not ESD-compatible.



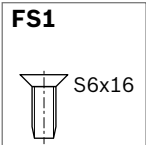
Corner piece



- ▶ Corner bracket for corner connection of three square or half-round profiles with equivalent cross-sections
- ▶ Screw fitting on profiles with self-tapping screws
- ▶ Ball or cubic caps to prevent injuries and avoid dirt
- ▶ Profile machining: not required



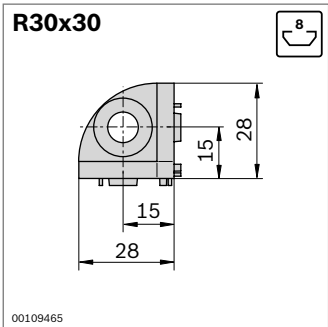
Model	
20/3	23 Nm



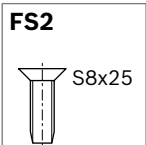
R20x20	Slot	ESD		No.	FS
Corner bracket	6		1	3 842 519 318	3xFS1
Cap	signal gray (PP)		10	3 842 548 708	
K (ball)	black (PP)		10	3 842 548 712	
Cap W (cube)	signal gray (PP)		10	3 842 548 716	
	black (PP)		10	3 842 548 720	

Material: Corner bracket: Diecast zinc
Fastening material: steel, galvanized

Scope of delivery: Incl. fastening material (FS)



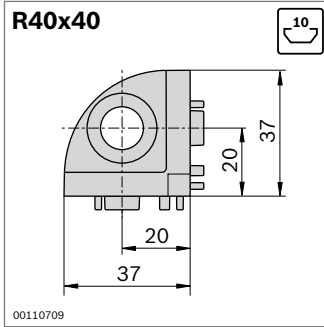
Model	
30/3	85 Nm



R30x30	Slot	ESD		No.	FS
Corner bracket	8		1	3 842 519 319	3xFS2
Cap	signal gray (PP)		10	3 842 548 709	
K (ball)	black (PP)		10	3 842 548 713	
Cap	signal gray (PP)		10	3 842 548 717	
W (cube)	black (PP)		10	3 842 548 721	

Material: Corner bracket: Diecast zinc
Fastening material: steel, galvanized

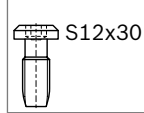
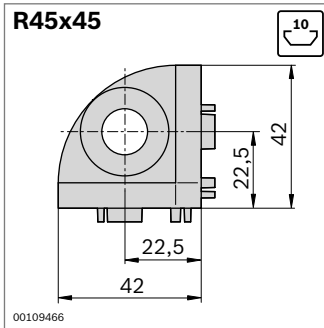
Scope of delivery: Incl. fastening material (FS)

R40x40


00110709

Model

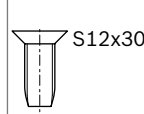
40/3		70 Nm

FS3

R45x45


00109466

Model

45/3	45x45L	170 Nm
	45x45	240 Nm

FS4


R40x40	Slot	ESD		No.	FS
Corner bracket	10		1	3 842 529 404	3xFS3
Cap K (ball)	signal gray (PP)		10	3 842 548 710	
	black (PP)		10	3 842 548 714	
Cap W (cube)	signal gray (PP)		10	3 842 548 718	
	black (PP)		10	3 842 548 722	

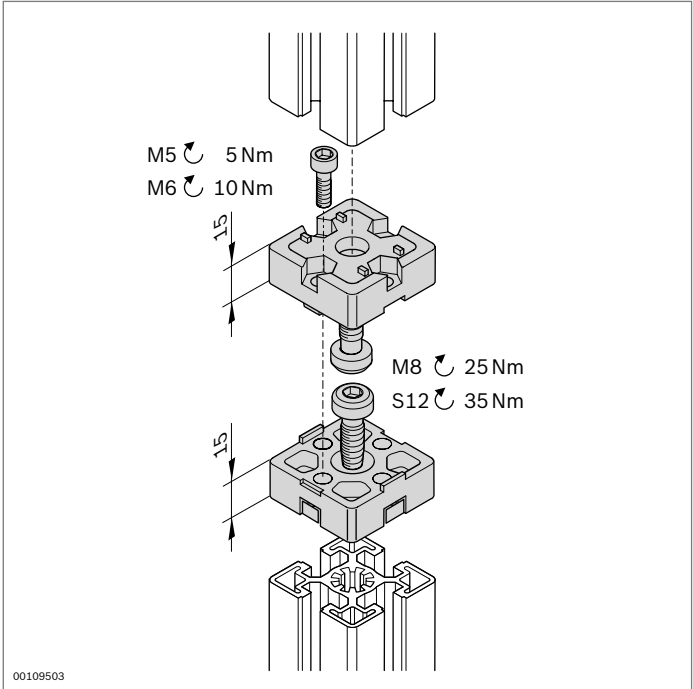
Material: Corner bracket: Diecast zinc
Fastening material: steel, galvanized

Scope of delivery: Incl. fastening material (FS)

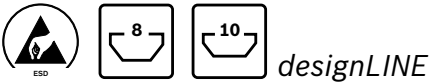
R45x45	Slot	ESD		No.	FS
Corner bracket	10		1	3 842 519 321	3xFS4
Cap K (ball)	signal gray (PP)		10	3 842 548 711	
	black (PP)		10	3 842 548 715	
Cap W (cube)	signal gray (PP)		10	3 842 548 719	
	black (PP)		10	3 842 548 723	

Material: Corner bracket: Diecast zinc
Fastening material: steel, galvanized

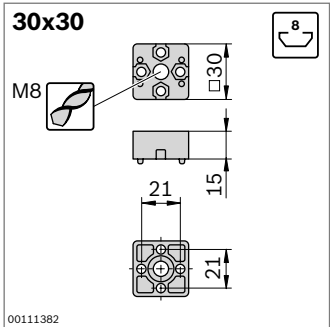
Scope of delivery: Incl. fastening material (FS)



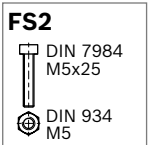
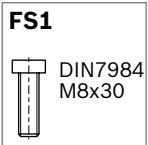
End connector



- For end-to-end profile connections
- *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- Profile machining:
 - 30x30: M8 thread cutting in core
 - 40x40, 45x45, 50x50: not required



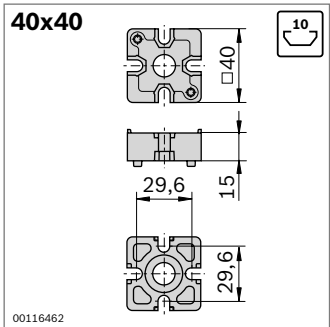
Model	
30x30	81 Nm



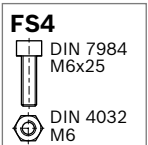
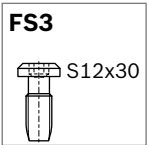
End connector	Slot	ESD	No.	FS
30x30 Set (standard)	8		3 842 526 003	2xFS1, 4xFS2
<i>designLINE</i> set	8		3 842 538 656	2xFS1, 4xFS2

Material: End connector: diecast aluminum
designLINE end connector: painted (RAL 9006)
 Fastening material: steel, galvanized

Scope of delivery: Set incl. fastening material (FS)



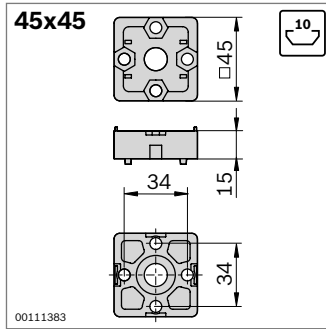
Model	
40x40	170 Nm



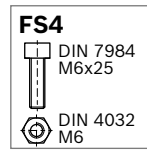
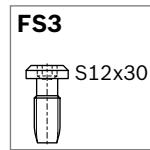
End connector	Slot	ESD	No.	FS
40x40 Set (standard)	10		3 842 532 196	2xFS3, 4xFS4
<i>designLINE</i> set	10		3 842 538 657	2xFS3, 4xFS4

Material: End connector: die-cast aluminum
designLINE end connector: painted (RAL 9006)
 Fastening material: steel, galvanized

Scope of delivery: Set incl. fastening material (FS)



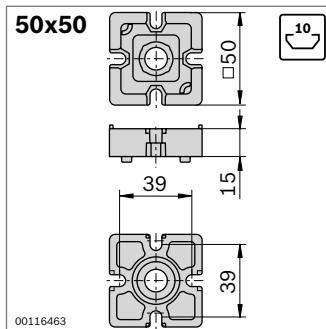
Model	
45x45	 200 Nm



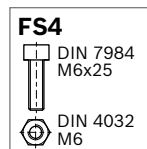
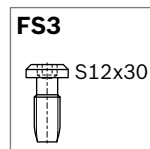
End connector	Slot	ESD	No.	FS
45x45 Set (standard)	10		3 842 191 175	2xFS3, 4xFS4
<i>designLINE</i> set	10		3 842 538 658	2xFS3, 4xFS4

Material: End connector: Diecast zinc
designLINE end connector: painted (RAL 9006)
Fastening material: steel, galvanized

Scope of delivery: Set incl. fastening material (FS)



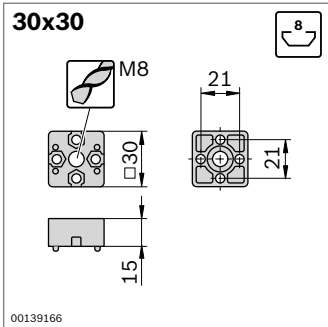
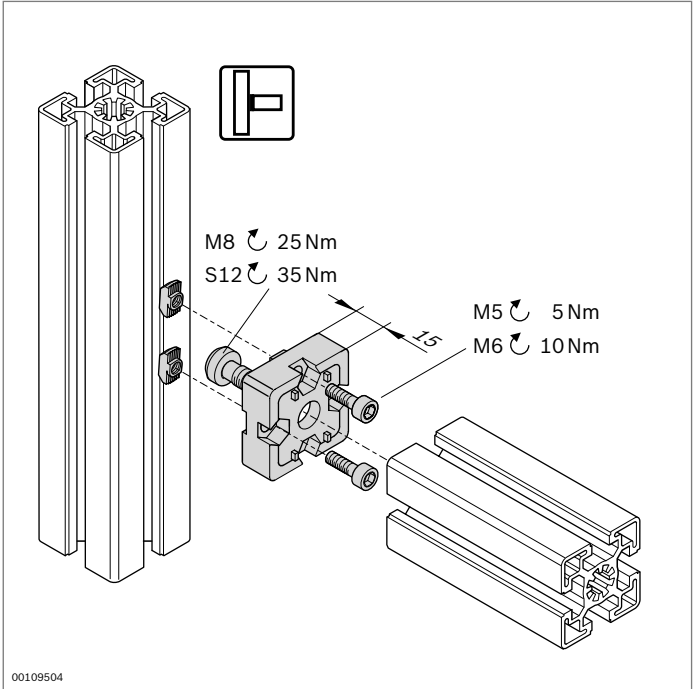
Model	
50x50	 180 Nm



End connector	Slot	ESD	No.	FS
50x50 Set (standard)	10		3 842 532 199	2xFS3, 4xFS4

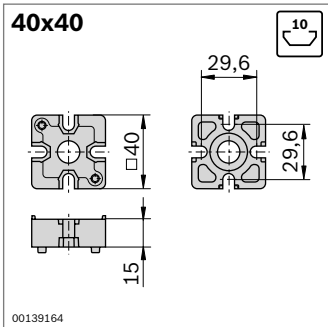
Material: End connector: Diecast zinc
Fastening material: steel, galvanized

Scope of delivery: Set incl. fastening material (FS)



Model		
30x30	4000 N	80 Nm

FS1	FS2
 DIN 7984 M8x30	 DIN 7984 M5x16



Model		
40x40	9000 N	150 Nm

FS3	FS4
 S12x30	 DIN 7984 M6x20

T-connector



- ▶ For right-angled profile connections
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- ▶ Profile machining:
 - 30x30: M8 thread cutting in central bores
 - 40x40, 45x45, 50x50: not required

T-connector	Slot	ESD	No.	FS
30x30 Set (standard)	8		3 842 524 476	1xFS1, 2xFS2
<i>designLINE</i> set	8		3 842 538 696	1xFS1, 2xFS2

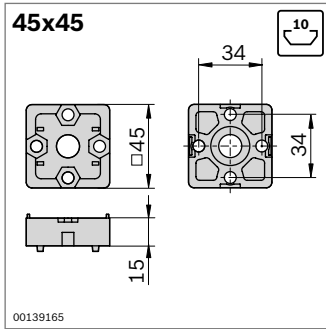
Material: T-connector: diecast aluminum
designLINE T-connector: painted (RAL 9006)
 Fastening material: steel, galvanized

Scope of delivery: Set incl. fastening material (FS)

T-connector	Slot	ESD	No.	FS
40x40 Set (standard)	10		3 842 532 195	1xFS3, 2xFS4
<i>designLINE</i> set	10		3 842 538 697	1xFS3, 2xFS4

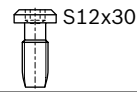
Material: T-connector: diecast aluminum
designLINE T-connector: painted (RAL 9006)
 Fastening material: steel, galvanized

Scope of delivery: Set incl. fastening material (FS)

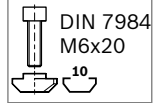


Model		
45x45	9000 N	200 Nm

FS3

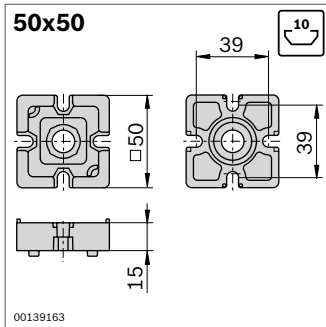


FS4



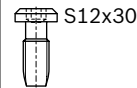
T-connector	Slot	ESD	No.	FS
45x45 Set (standard)	10		3 842 520 802	1xFS3, 2xFS4
<i>designLINE</i> set	10		3 842 538 698	1xFS3, 2xFS4

Material: T-connector: Diecast zinc
designLINE T-connector: painted (RAL 9006)
 Fastening material: steel, galvanized
 Scope of delivery: Set incl. fastening material (FS)

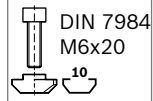


Model		
50x50	10 000 N	170 Nm

FS3

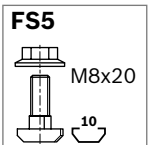
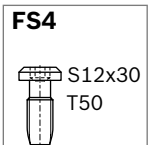
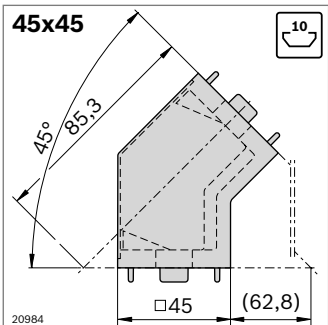
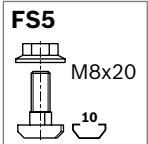
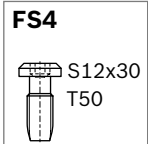
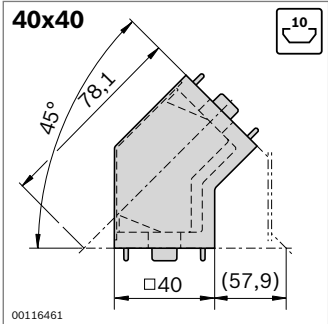
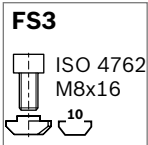
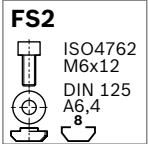
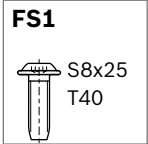
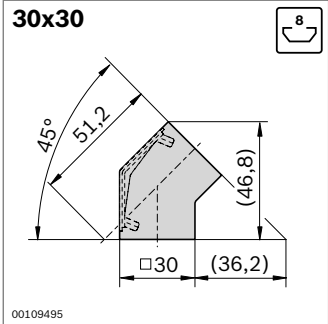
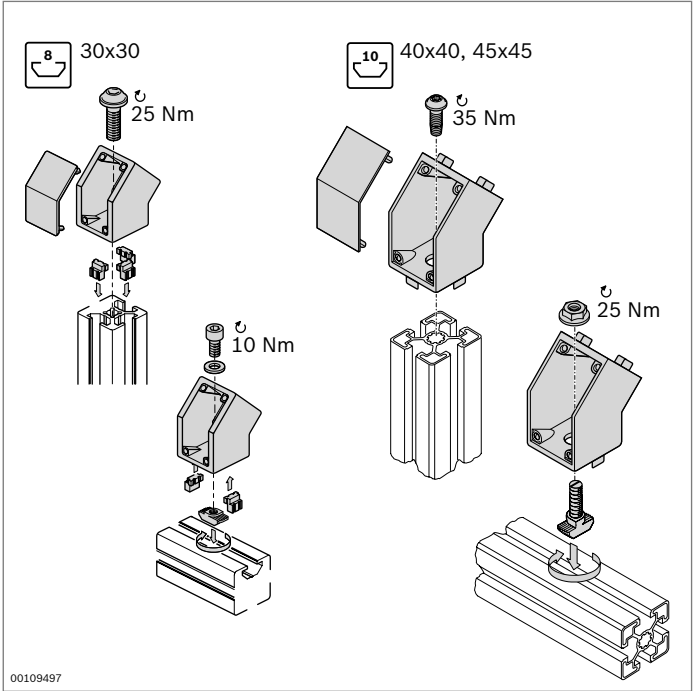


FS4

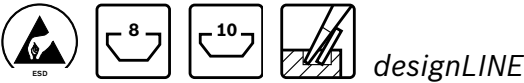


T-connector	Slot	ESD	No.	FS
50x50 Set (standard)	10		3 842 532 198	1xFS3, 2xFS4

Material: T-connector: Diecast zinc
 Fastening material: steel, galvanized
 Scope of delivery: Set incl. fastening material (FS)



Connector 45°



- For connecting profiles at an angle of less than 45°
- Suitable for reinforcing frames
- Suitable for connections at the end-face or in the profile slot
- Connectors 45° 40x40 and 45x45 with centering lugs for easy positioning (centering lugs can simply be broken off for installation in the profile slot)
- *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- Profile machining: not required

45° connector	Slot	ESD	No.	FS
30x30 Set (standard)	8		3 842 518 426	2xFS1, FS2, FS3
<i>designLINE</i> set	8		3 842 538 700	2xFS1, FS2, FS3

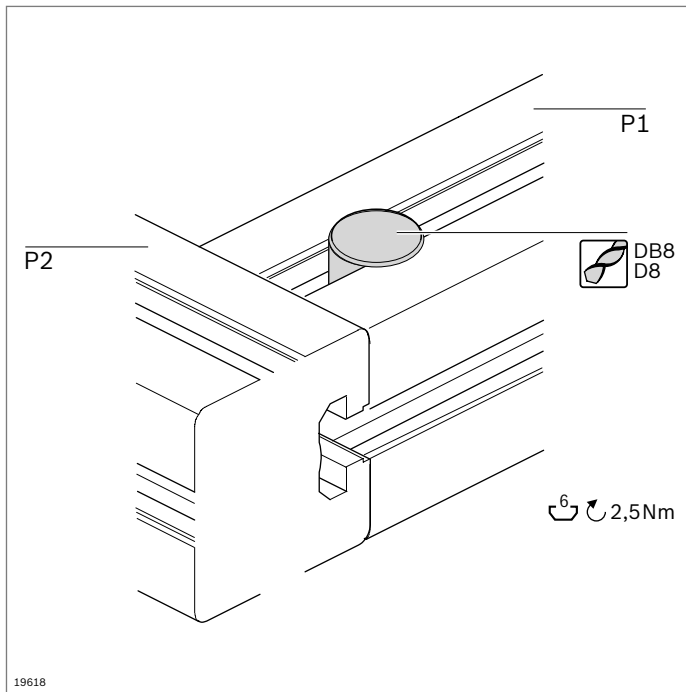
Material	Connector 45°: Diecast zinc <i>designLINE</i> 45° connector: painted (RAL 9006) Centering element, cap: PA; black Fastening material: steel, galvanized
Scope of delivery:	Set incl. fastening material (FS), 6 x centering piece, cap

45° connector	Slot	ESD	No.	FS
40x40 Set (standard)	10		3 842 532 205	2xFS4, FS5
<i>designLINE</i> set	10		3 842 538 701	2xFS4, FS5

Material	Connector 45°: cast aluminum <i>designLINE</i> 45° connector: painted (RAL 9006) Cap: PA; black Fastening material: steel, galvanized
Scope of delivery:	Set incl. fastening material (FS), cover cap

45° connector	Slot	ESD	No.	FS
45x45 Set (standard)	10		3 842 535 428	2xFS4, FS5
<i>designLINE</i> set	10		3 842 538 702	2xFS4, FS5

Material	Connector 45°: cast aluminum <i>designLINE</i> 45° connector: painted (RAL 9006) Cap: PA; black Fastening material: steel, galvanized
Scope of delivery:	Set incl. fastening material (FS), cap

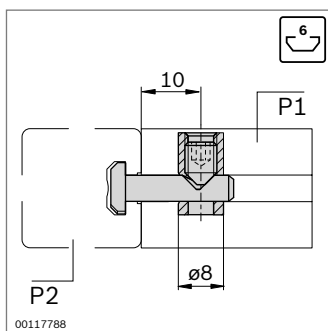
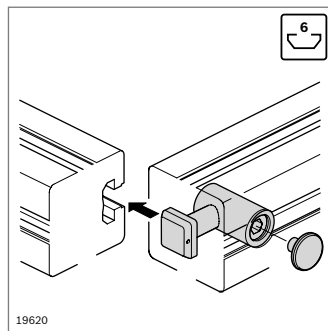
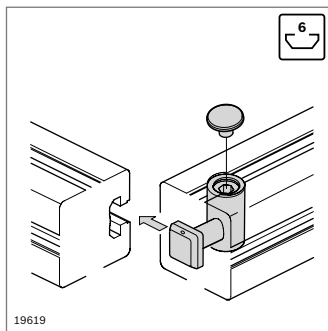


Quick connector, 6 mm slot, 0°, 90° cap



- For right-angled connections between two profiles
- Excellent accessibility for tools during mounting
- Quick connector for 6 mm slot with square head; can be used as a 0° or 90° connector
- Profile machining:
blind hole DB8 or through-hole D8

Accessories, optional:
drilling jig (p. 14-2)



Slot	F_{max}	M_{max}
6 / 6	450 N	18 Nm

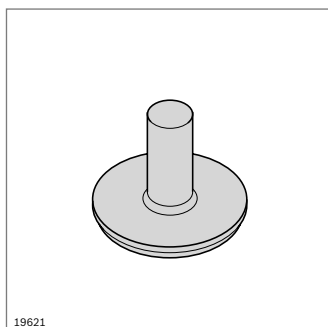
Quick-clamp connector, P1 / P2	D (mm)	ESD	No.
0° / 90°	6 / 6	8	10
			3 842 537 013

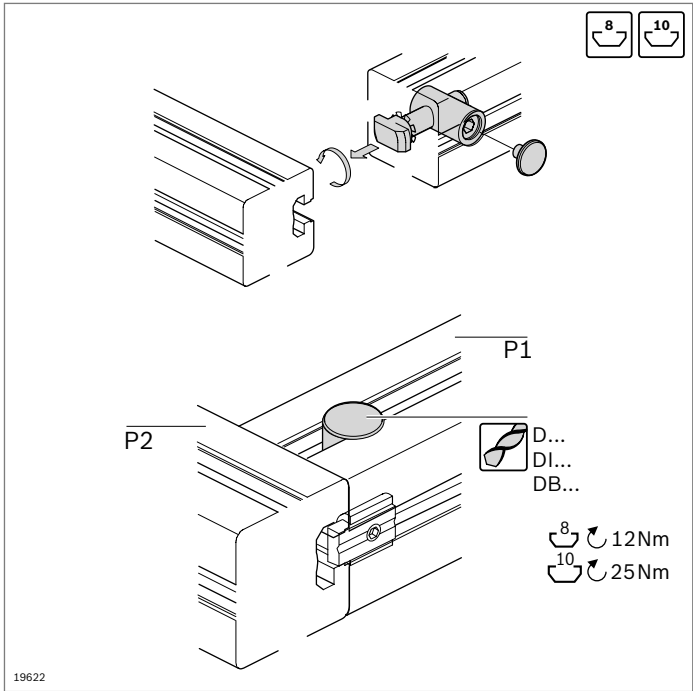
Material: Steel, stainless

- Cap for connector sleeves

Cap	D (mm)	No.
	8	100
		3 842 538 562

Material: PE, light gray RAL 7035





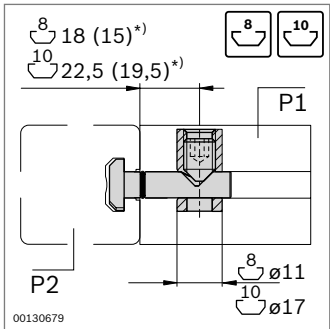
Quick connector, 8/10 mm slot, 0°



- For right-angled connections between two profiles
- Excellent accessibility for tools during mounting
- O-ring for mounting enables overhead assembly
- Quick connectors can be swiveled into the profile slot at the point of assembly
- Profile machining:
blind hole DI, DB11, DB17 or through hole DI, D11, D17
- Note differing drilling intervals and load-bearing capacities when using with radial compensation (“Technical data” p. 19-6)

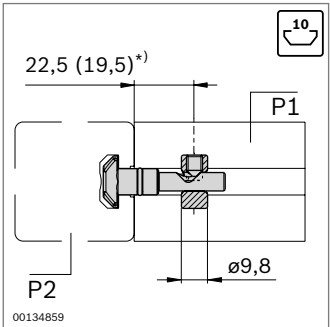
Accessories, optional:

- Anti-torsion element (p. 3-39)
- Radial compensation (p. 2-83)
- Drilling jig (p. 14-2)
- Cap (p. 3-51)



Slot	F_{max}	M_{max}
8 / 8	500 N	40 Nm
8 / 10	2000 N	70 Nm
10 / 10	4000 N	140 Nm

*) With the use of a radial compensation



Slot	F_{max}	M_{max}
10 / 10	800 N	50 Nm

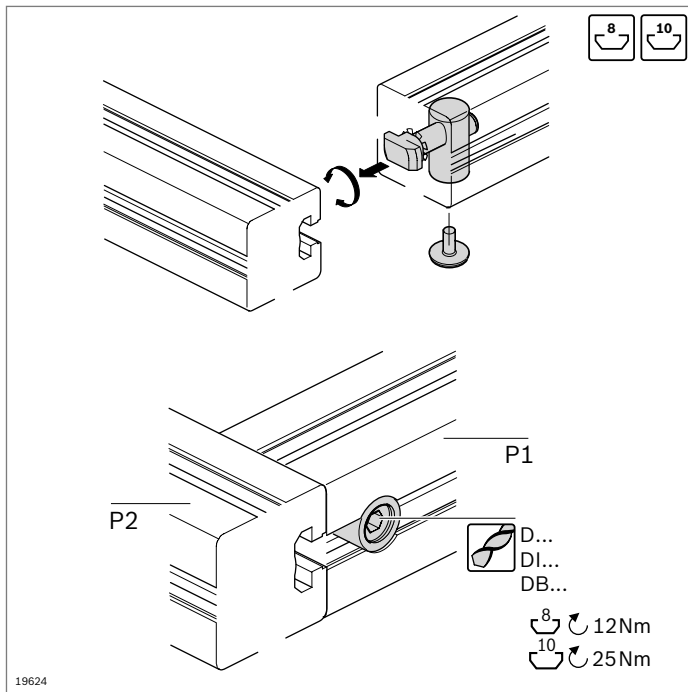
*) With the use of radial compensation

Quick connector, 0°	P1 / P2 (mm)	D ESD	No.
Steel, galvanized	8 / 8	11	3 842 535 459
	8 / 10	11	3 842 535 464
	10 / 10	17	3 842 535 458
Steel, stainless	8 / 8	11	3 842 548 934
	8 / 10	11	3 842 548 935
	10 / 10	17	3 842 548 936

- Quick connector 9.8 with smaller connector sleeve
- The hole for the connector sleeve does not make contact with the slot flanks. This permits a visually attractive connection; the slot can be completely closed with the cover profile

Quick connector 0°, connector sleeve D = 9.8	P1 / P2 (mm)	D ESD	No.
Steel, galvanized	10 / 10	9.8 ¹⁾	3 842 541 412

¹⁾ No standard hole in modular dimensions 40, 50 and 60, target distance from profile end: 22.5 mm



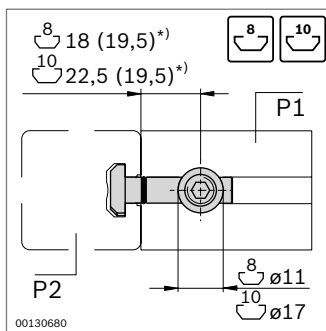
Quick connector, 8/10 mm slot, 90°, Cap



- ▶ Tie rod head rotated at a 90° angle to the connector sleeve
- ▶ Profile machining:
blind hole DI, DB11, DB17 or through hole DI, D11, D17

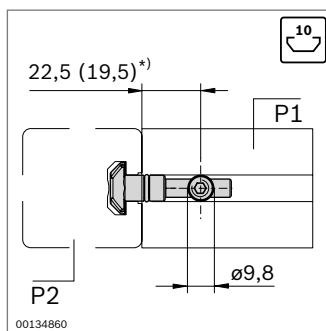
Accessories, optional:

- ▶ Anti-torsion element (p. 3-39)
- ▶ Radial compensation (p. 2-83)
- ▶ Drilling jig (p. 14-2)
- ▶ Cap



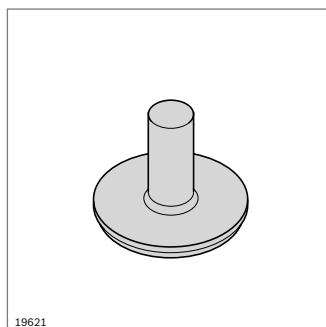
Slot	F_{max}	M_{max}
8 / 8	2000 N	70 Nm
10 / 10	4000 N	140 Nm

*) With the use of a radial compensation



Slot	F_{max}	M_{max}
10 / 10	800 N	50 Nm

*) With the use of a radial compensation



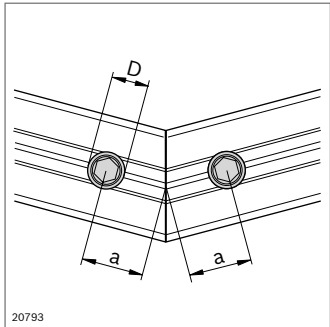
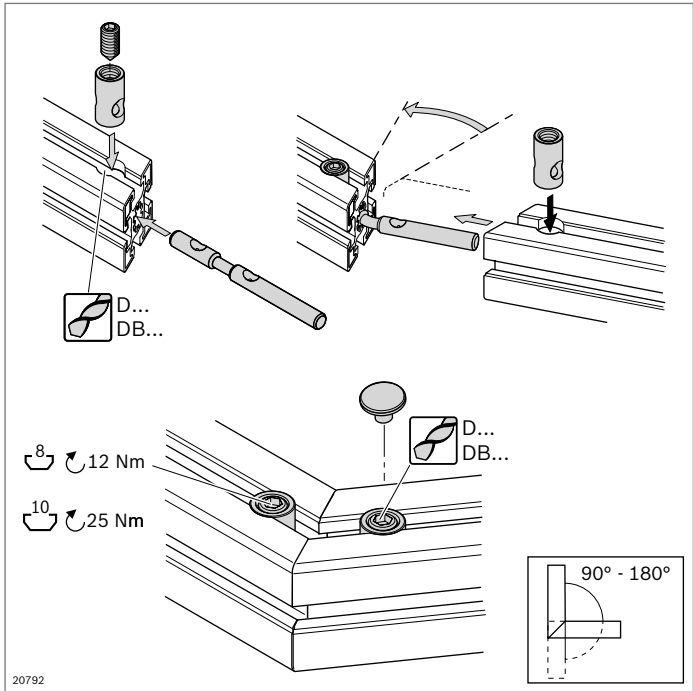
Quick connector, 90°	P1 / P2	D	ESD	No.
		(mm)		
Steel, galvanized	8 / 8	11	10	3 842 535 465
	10 / 10	17	10	3 842 535 466
Steel, stainless	8 / 8	11	10	3 842 548 937
	10 / 10	17	10	3 842 548 938

Quick connector 90°, connector sleeve D = 9.8	P1 / P2	D	ESD	No.
		(mm)		
Steel, galvanized	10 / 10	9.8 ¹⁾	10	3 842 541 410

¹⁾ No standard hole in modular dimensions 40, 50 and 60
Target distance from profile end: 22.5 mm

Cap	D (mm)	No.
	11	100 3 842 538 563
	17	100 3 842 538 564

Material: PE, light gray RAL 7035



30x30	24 Nm
40x40L	100 Nm
45x45L	110 Nm
45x45	145 Nm
50x50L	160 Nm

Quick connector, bendable – end-to-end



- For end-to-end connecting of two profiles with equal cross-sections and at any angle, e.g. for frames
- Profile machining:
 - blind hole DB11, DB17 or through hole D11, D17
 - miter cut

Technical data (p. 19-6)

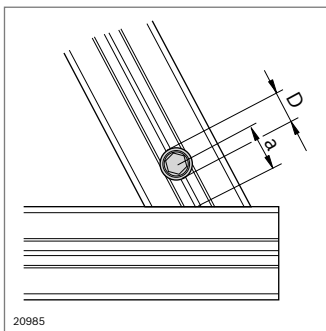
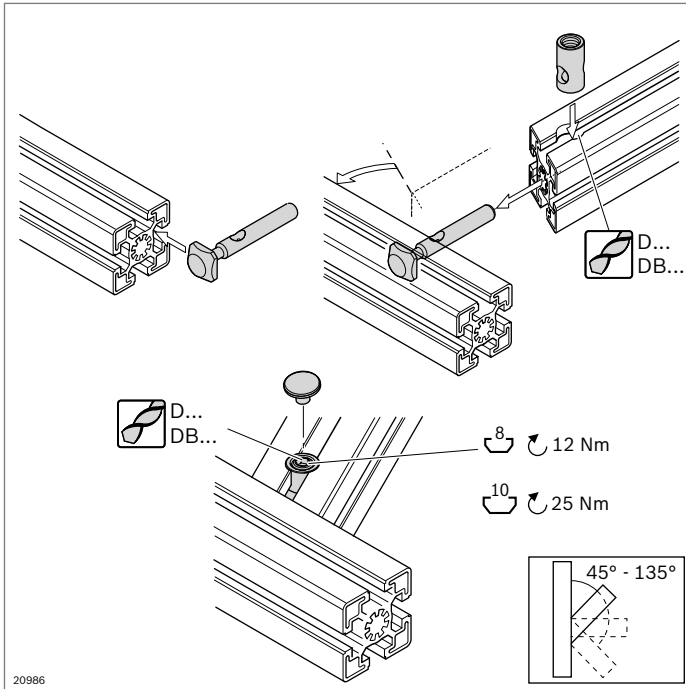
Accessories:

- drilling jig (p. 14-2)
- cap (p. 3-51)

Quick connector, bendable	P1 / P2	a (mm)	D (mm)	ESD		No.
End-to-end	8 / 8	18	11		10	3 842 535 630
	10 / 10	22.5	17		10	3 842 535 634

Material:

Tie rod: steel, stainless
 Socket: steel, galvanized



Quick connector, bendable – end-to-slot



- For end-to-slot connecting of two profiles at any angle, e.g. for framework constructions
- Profile machining:
 - blind hole DB11, DB17 or through-hole D11, D17
 - miter cut

Technical data (p. 19-6)

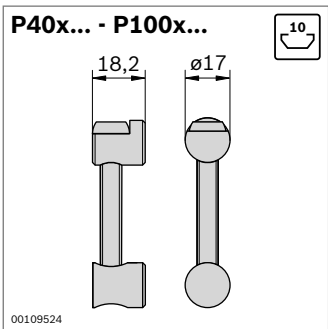
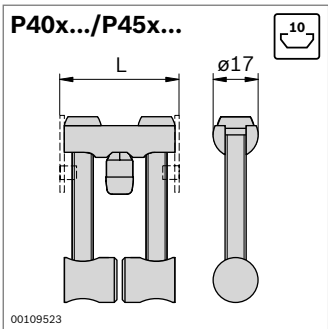
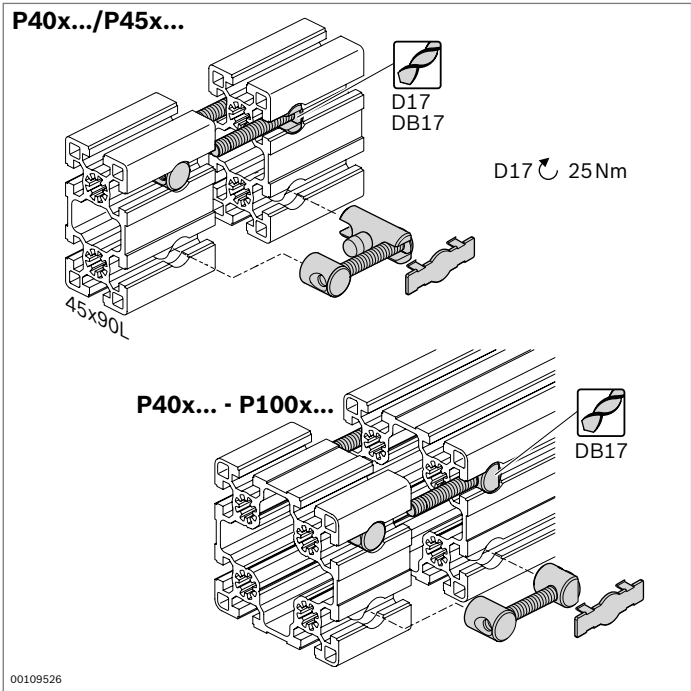
Accessories:

- drilling jig (p. 14-2)
- cap (p. 3-51)

Quick connector, bendable	P1 / P2	a (mm)	D (mm)	ESD	No.
End-to-slot	8 / 8	18	11		10 3 842 535 629
	10 / 10	22.5	17		10 3 842 535 635

Material: Tie rod: steel, stainless
Socket: steel, galvanized

30x30	1100 N	35 Nm	650 N	40 Nm
40x40L	1500 N	110 Nm	1000 N	80 Nm
45x45L	1500 N	120 Nm	1000 N	95 Nm
45x45	1500 N	140 Nm	1100 N	180 Nm
50x50L	1500 N	150 Nm	1100 N	180 Nm



End connector



- For the end-to-end connecting of two profiles
- Standard profile finishes:
 - Through hole D17 (two-sided longitudinal end connector)
 - Blind hole DB17 or through hole D17 (one-sided longitudinal end connector)

End connector, two-sided	L (mm)	ESD	No.
Profile 40x...	40		3 842 529 293
Profile 45x...	45		3 842 529 248

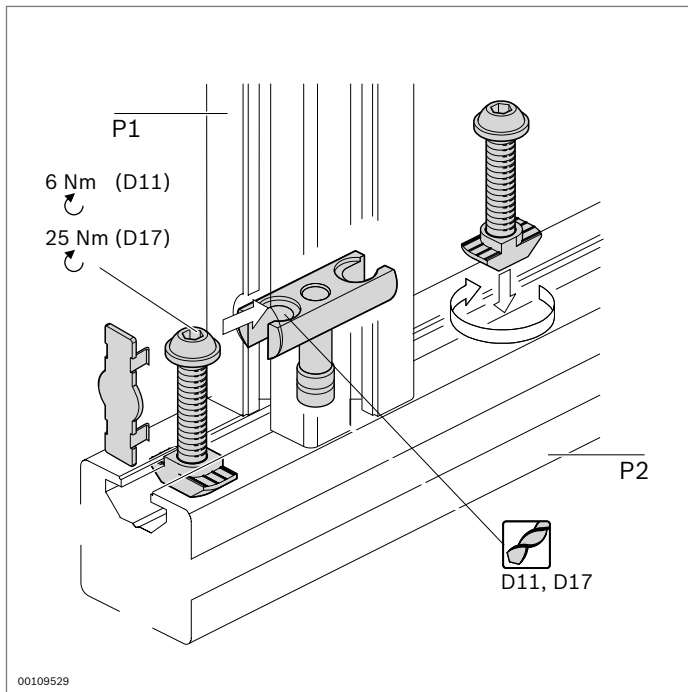
Material: End connector: screw steel, galvanized
Centering bolt, caps: PA; black

Scope of delivery: Incl. 4 x cap

End connector, one-sided	ESD	No.
Profile 40x... - 100x...		3 842 529 334

Material: End connector: screw steel, galvanized
Centering pin, caps: PA; black

Scope of delivery: Incl. 2 x cap



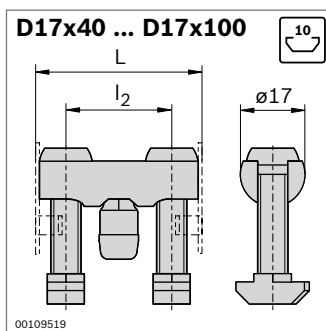
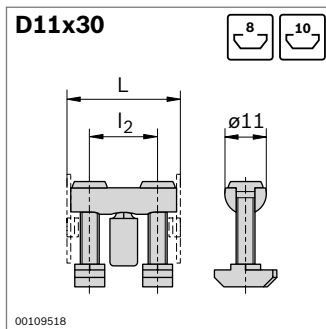
Bolt connector



- For right-angled connections between two profiles
- Designed for heavy loads and torsion
- Can be installed in closed frames
- Profile machining: through-hole D11, D17

Technical data (p. 19-7)

Accessories:
drilling jig (p. 14-2)



Bolt connector	P1 / P2	L (mm)	l ₂ (mm)	ESD	No.
D11x30	8 / 8	30	18	⚡	10 3 842 535 624
	8 / 10	30	18	⚡	10 3 842 535 583

Material: Bolt connector: steel, galvanized
Centering pin, caps: PA; black

Scope of delivery: Incl. 2 x cap

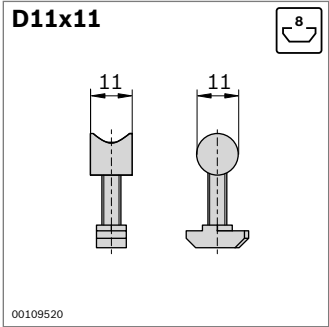
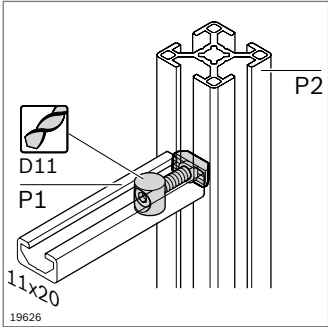
Bolt connector	P1 / P2	L (mm)	l ₂ (mm)	ESD	No.
D17x40	10 / 10	40	23	⚡	10 3 842 535 620
D17x45	10 / 10	45	28	⚡	10 3 842 500 921
D17x50	10 / 10	50	33	⚡	10 3 842 535 621
D17x60	10 / 10	60	43	⚡	10 3 842 500 922
D17x80	10 / 10	80	63	⚡	10 3 842 535 622
D17x90	10 / 10	90	73	⚡	10 3 842 500 923
D17x100	10 / 10	100	83	⚡	10 3 842 535 618

Material: Bolt connector: steel, galvanized
Centering bolt, caps: PA; black

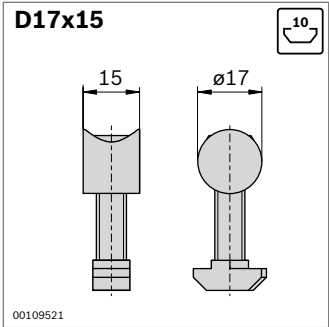
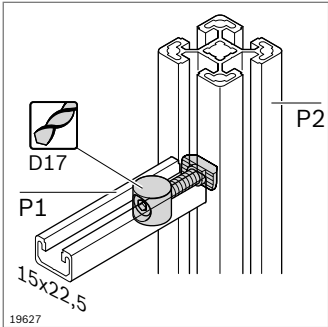
Scope of delivery: Incl. 2 x cap

Size			
30	2500 N	60 Nm	20 Nm
40	4000 N	180 Nm	40 Nm
45	4000 N	180 Nm	60 Nm
50	4000 N	200 Nm	65 Nm

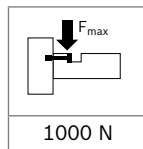
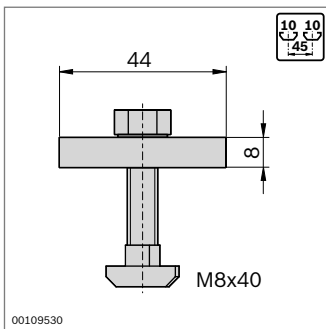
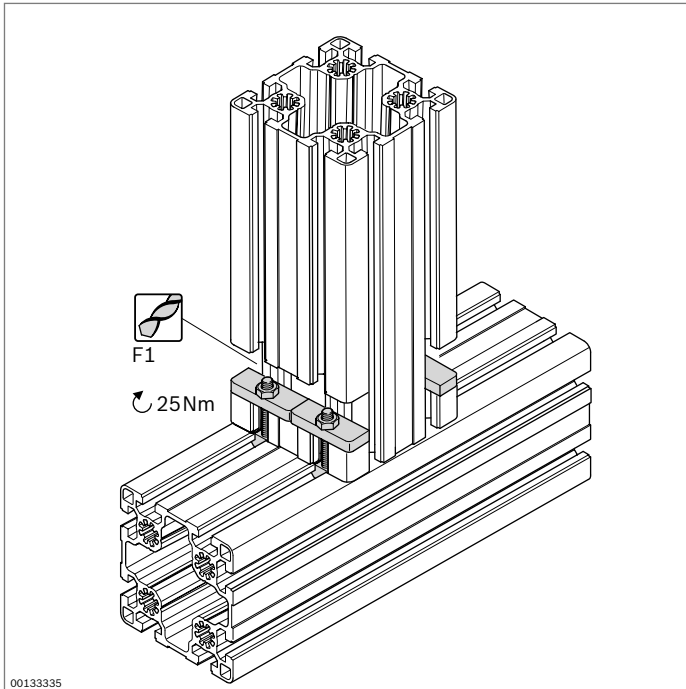
Size			
60	4000 N	200 Nm	80 Nm
80	5000 N	800 Nm	170 Nm
90	5000 N	800 Nm	200 Nm
100	5000 N	1000 Nm	480 Nm



Bolt connector	P1 / P2	ESD	No.
D11x11	8 / 8		10 3 842 535 617
Material: Steel, galvanized			



Bolt connector	P1 / P2	ESD	No.
D17x15	10 / 10		10 3 842 535 619
Material: Steel, galvanized			



Transverse connector



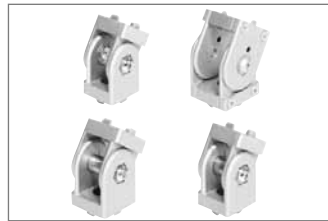
- For right-angled connections between two profiles
- Excellent accessibility for tools during mounting
- Profile machining: Standard milling F1
- Bending moments must be avoided

Transverse connector		No.
	10	3 842 146 972
Material:	Steel, galvanized	

Joints



Joint 45x45 lockable (p. 4-2)



Joints (p. 4-3)



Swivel bearing (p. 4-7)



Supporting arm joint (p. 4-8)



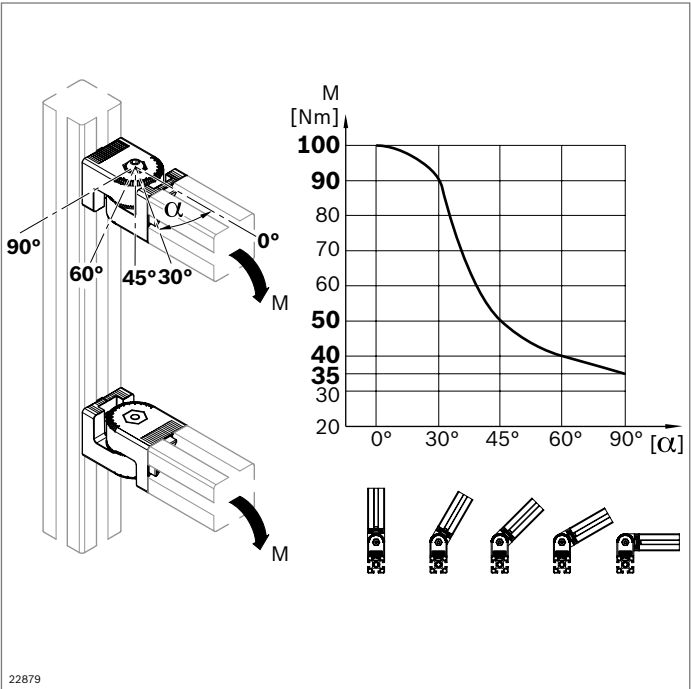
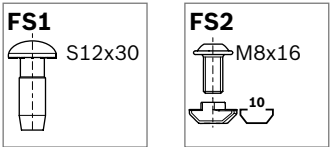
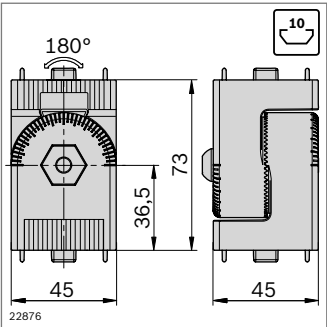
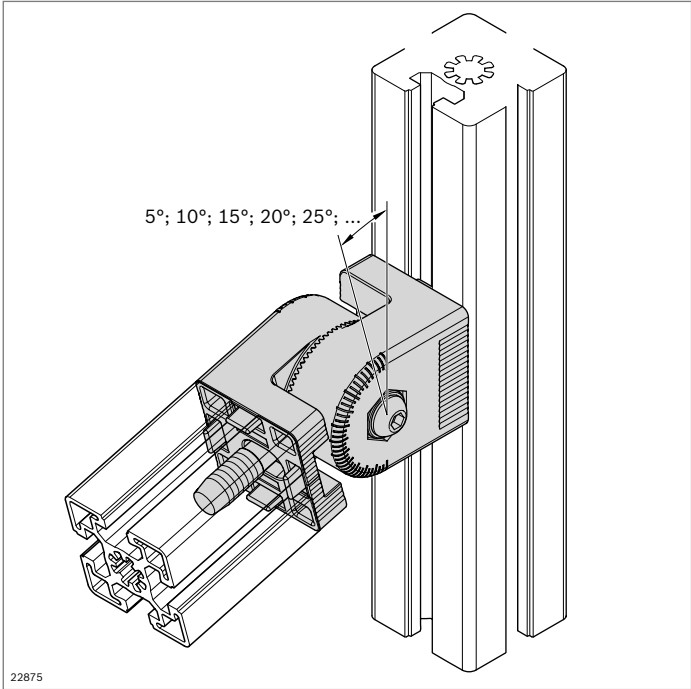
Bearing pedestal (p. 4-9)



Swivel fastening (p. 4-10)



Clamping lever, star knob
(p. 4-11)



Joint 45x45 lockable

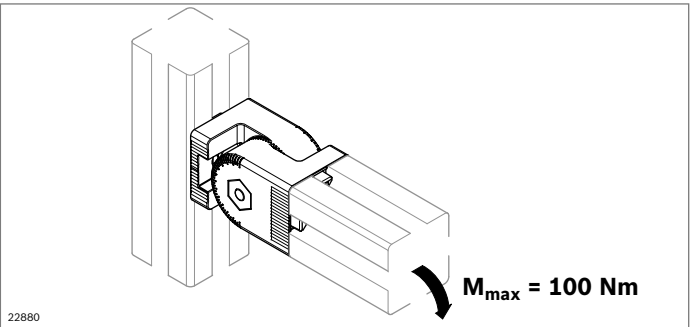


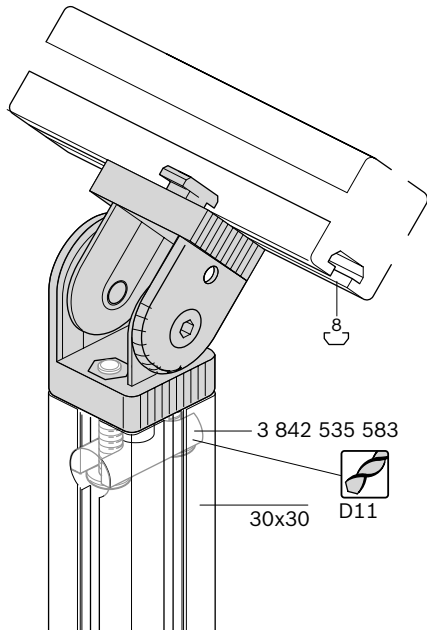
- For adjustable or rigid profile connections
- For high loads up to 100 Nm in the swivel direction
- Form fit thanks to Hirth teething
- Swivel range 180°
- Easy adjustment in a 5° grid
- Marking with a 5° graduation for easy detection of the adjustment angle
- Clamping and convenient adjustment of joint using a clamping lever or screw
- Profile finishing: not required (self-tapping screw for front end-to-end connections)
- Compatible with joint 45x45 and joint 45x45 support (p. 4-4)

Accessories, optional:
Clamping lever (p. 4-11)

Joint 45x45 lockable	Slot	ESD	No.	FS
	10		3 842 546 564	2xFS1, 2xFS2

Material: Diecast zinc
Fastening material: steel, galvanized
Scope of delivery: Incl. fastening material (FS)



30x30


00139179

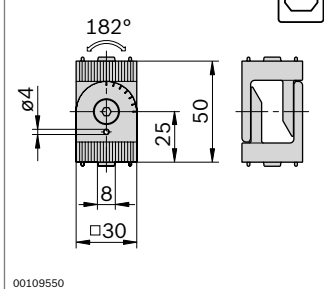
Joint 30x30


designLINE

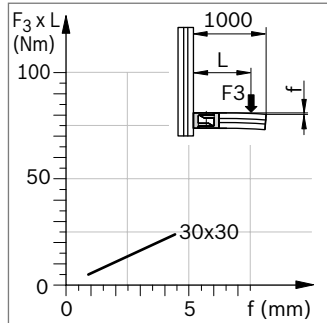
- For movable or rigid profile connections at any angle
- Swivel range 182°
- With a 15° graduation
- Locking by clamping (5 Nm) or fixing with pins (15 Nm)
- *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- Profile machining:
Through hole D11 for end face profile connections

Required accessories:

bolt connector D11 for end face connections

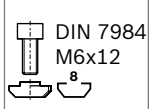
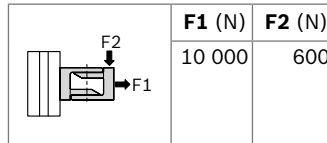
30x30


00109550



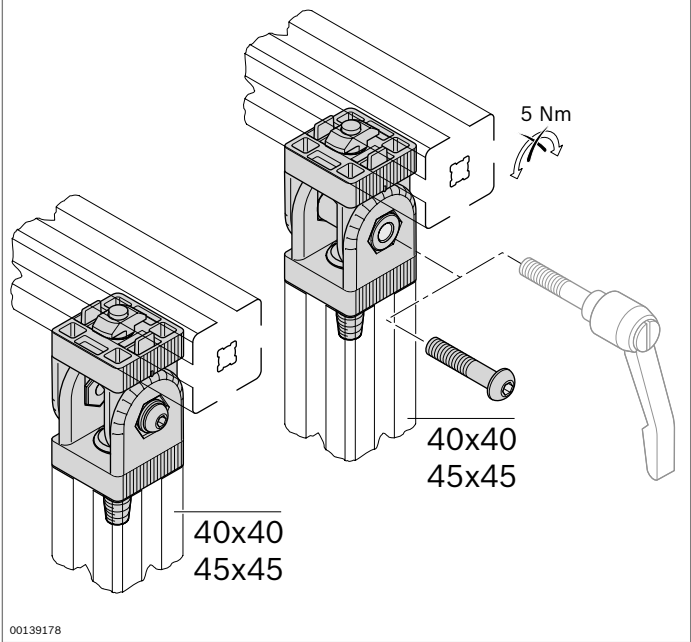
Joint 30x30	Slot	ESD	No.	FS
Standard	8		3 842 502 683	2xFS1, 4xFS2
designLINE	8		3 842 538 683	2xFS1, 4xFS2

Material: Standard: diecast zinc
designLINE: painted, RAL 9006
Fastening material: steel, galvanized
Scope of delivery: Incl. fastening material (FS)

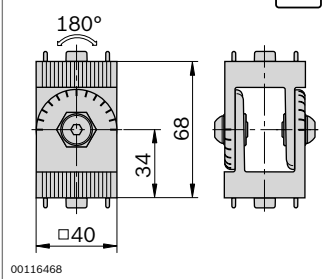
FS1

FS2


F1 (N)	F2 (N)
10 000	600

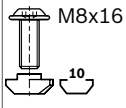
40x40, 45x45



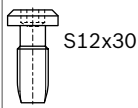
40x40



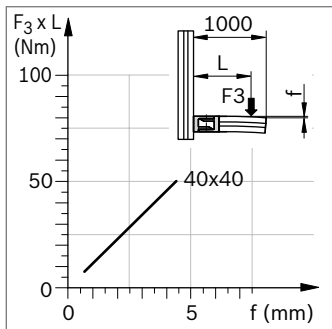
FS3



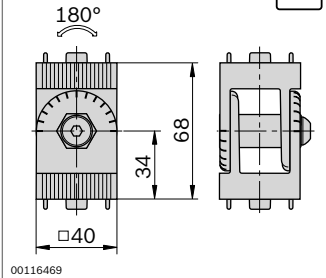
FS4



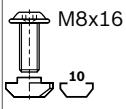
	F1 (N)	F2 (N)
	15 000	1 000



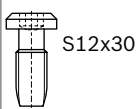
40x40 support



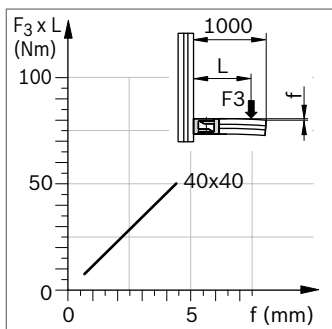
FS3



FS4



	F1 (N)	F2 (N)
	15 000	1 000



**Joint 40x40, 40x40 support,
45x45, 45x45 support**



designLINE

- For movable or rigid profile connections at any angle
- Swivel range 180°
- With a 15° graduation
- Clamping and convenient adjustment of “support” joint using a clamping lever (5 Nm)
- *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design

Joint 40x40	Slot	ESD	No.	FS
Standard	10		3 842 543 401	2xFS3, 2xFS4
<i>designLINE</i>	10		3 842 538 684	2xFS3, 2xFS4

Material: Standard: diecast aluminum
designLINE: painted, RAL 9006
 Fastening material: steel, galvanized

Scope of delivery: Incl. fastening material (FS)

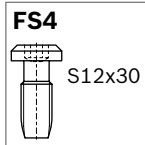
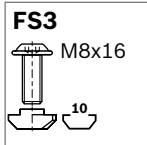
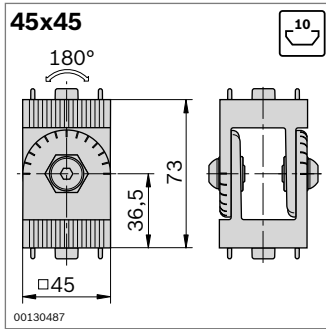
Joint 40x40 support	Slot	ESD	No.	FS
Standard	10		3 842 543 402	2xFS3, 2xFS4
<i>designLINE</i>	10		3 842 538 685	2xFS3, 2xFS4

Material: Standard: die-cast aluminum
designLINE: painted, RAL 9006
 Fastening material: steel, galvanized

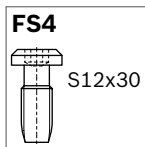
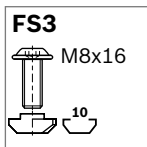
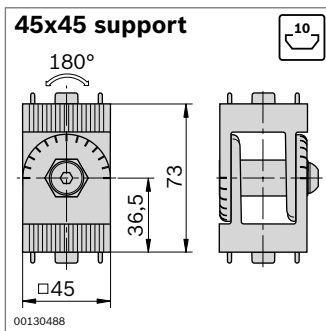
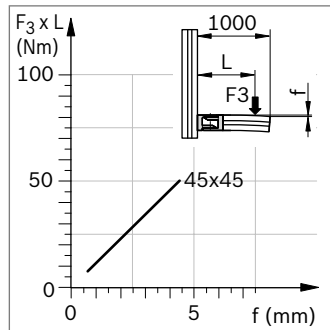
Scope of delivery: Incl. fastening material (FS)

Clamping lever	No.
for joint 40x40 support	3 842 516 847

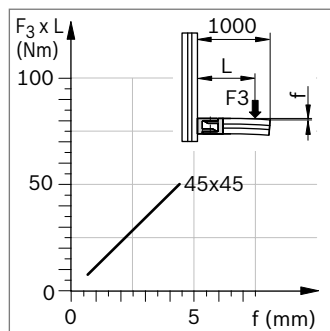
Material: diecast zinc, black polymer coating



	F1 (N)	F2 (N)
	15 000	1 000



	F1 (N)	F2 (N)
	15 000	1 000



Joint 45x45	Slot	ESD	No.	FS
Standard	10		3 842 543 403	2xFS3, 2xFS4
designLINE	10		3 842 538 686	2xFS3, 2xFS4

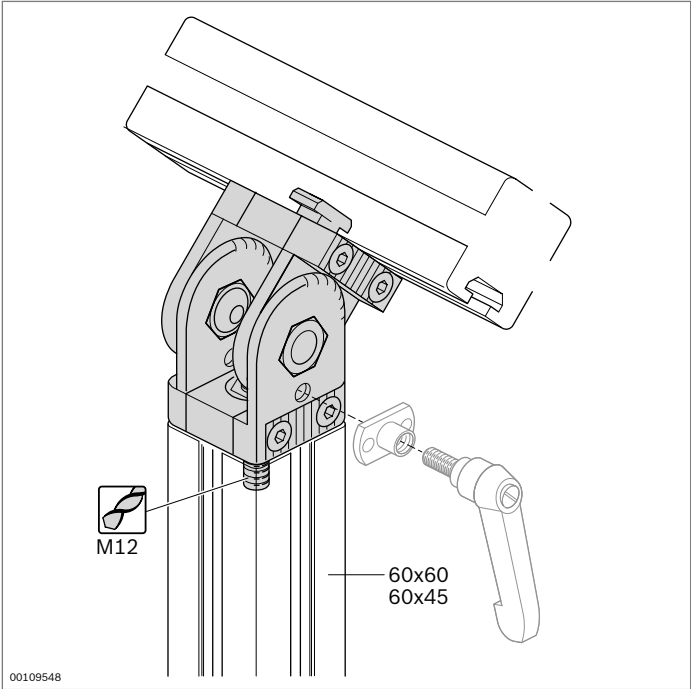
Material: Standard: diecast aluminum
 designLINE: painted, RAL 9006
 Fastening material: steel, galvanized
 Scope of delivery: Incl. fastening material (FS)

Joint 45x45 support	Slot	ESD	No.	FS
Standard	10		3 842 543 404	2xFS3, 2xFS4
designLINE	10		3 842 538 687	2xFS3, 2xFS4

Material: Standard: diecast aluminum
 designLINE: painted, RAL 9006
 Fastening material: steel, galvanized
 Scope of delivery: Incl. fastening material (FS)

Clamping lever	No.
for joint 45x45 support	3 842 538 607

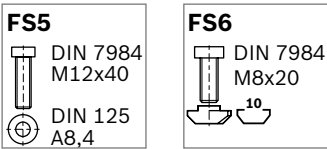
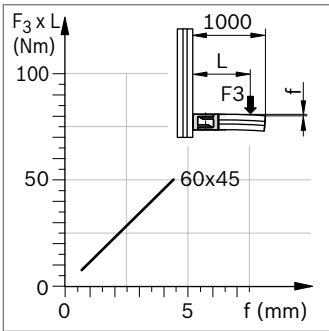
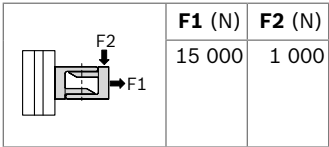
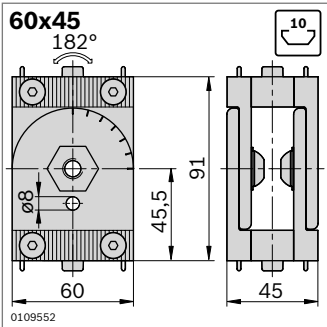
Material: Diecast zinc, black polymer coating



Joint 60x45, 60x60



- For movable or rigid profile connections at any angle
- Swivel range 182°
- With a 15° graduation
- Locking by clamping (5 Nm) or fixing with pins (15 Nm)
- The joint can be adjusted using a clamping lever.
- *designLINE* version with special silver paint (RAL 9006)
- Profile machining:
Thread cutting (M12) in central bore for end connection

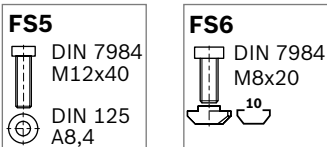
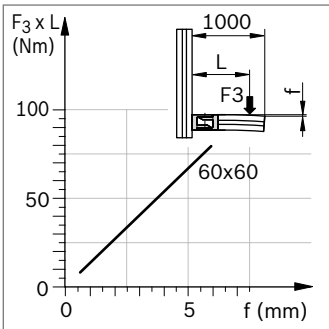
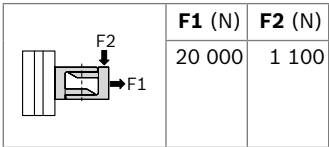
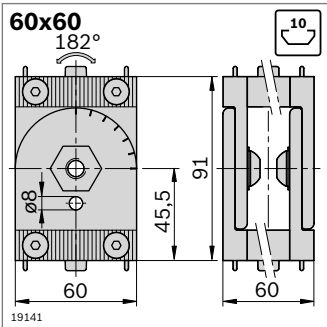


Joint 60x45	Slot	ESD	No.	FS
Standard	10		3 842 502 688	2xFS5, 2xFS6
designLINE	10		3 842 539 799	2xFS5, 2xFS6

Material: Standard: diecast zinc
designLINE: painted, RAL 9006
 Fastening material: steel, galvanized
 Scope of delivery: Incl. fastening material (FS)

Clamping lever	No.
for joint 60x45	3 842 505 144

Material: Diecast zinc, black polymer coating

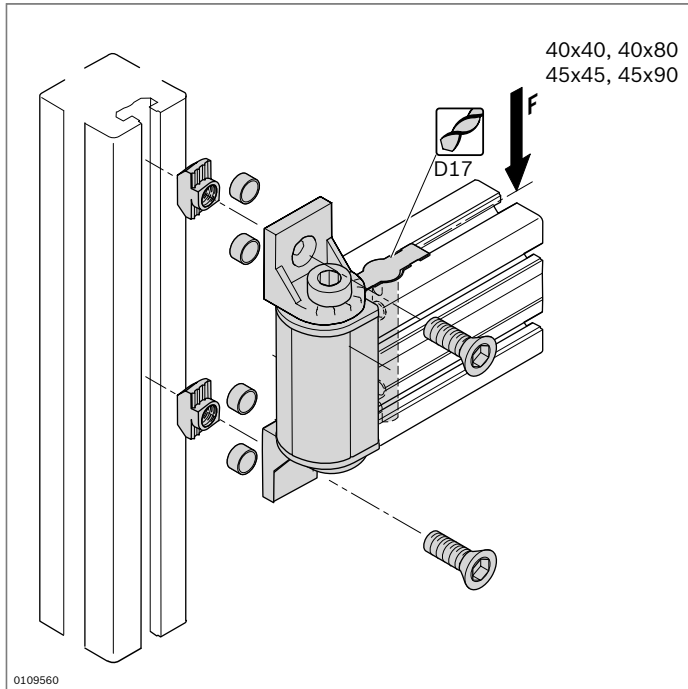


Joint 60x60	Slot	ESD	No.	FS
Standard	10		3 842 502 687	2xFS5, 2xFS6
designLINE	10		3 842 539 800	2xFS5, 2xFS6

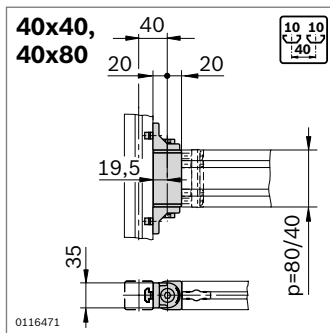
Material: Standard: diecast zinc
designLINE: painted, RAL 9006
 Fastening material: steel, galvanized
 Scope of delivery: Incl. fastening material (FS)

Clamping lever	No.
for joint 60x60	3 842 505 144

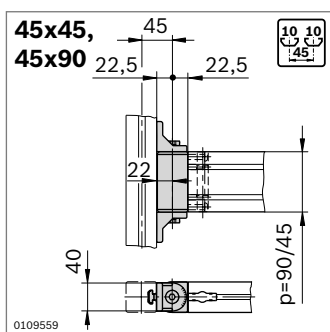
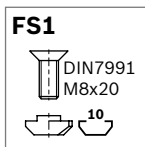
Material: Diecast zinc, black polymer coating



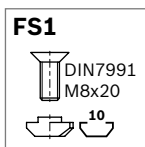
0109560



Profile	
	$M_{max} = F \times L \text{ (Nm)}$
40x40	40
40x80	130



Profile	
	$M_{max} = F \times L \text{ (Nm)}$
45x45	50
45x90	150



Swivel bearing


designLINE

- Suitable for swiveling right-angled profile connections, e.g. for constructing supporting arms or doors
- *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- Profile machining:
drilling of through hole D17

4

Swivel bearing		p (mm)	ESD	No.	FS
40x40	Standard	40		3 842 532 208	2xFS1
	<i>designLINE</i>	40		3 842 538 688	2xFS1
40x80	Standard	80		3 842 532 209	2xFS1
	<i>designLINE</i>	80		3 842 538 689	2xFS1

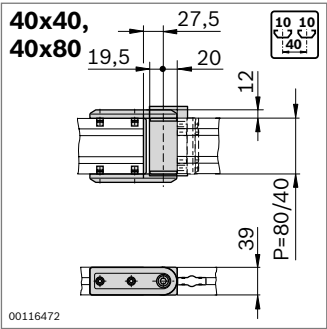
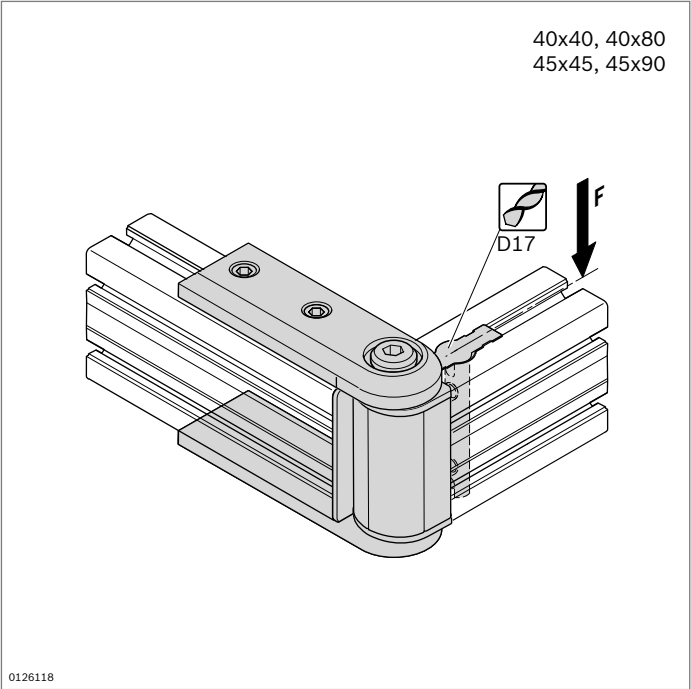
Material: Standard: diecast aluminum
designLINE: painted, RAL 9006
 Fastening material: steel, galvanized
 Cap: PA; black

Scope of delivery: Incl. caps, bolt connectors, fastening material (FS)

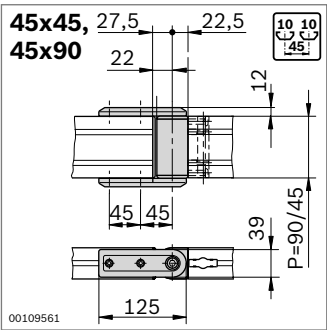
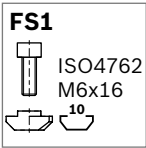
Swivel bearing		p (mm)	ESD	No.	FS
45x45	Standard	45		3 842 522 634	2xFS1
	<i>designLINE</i>	45		3 842 538 690	2xFS1
45x90	Standard	90		3 842 522 633	2xFS1
	<i>designLINE</i>	90		3 842 538 691	2xFS1

Material: Standard: diecast zinc
designLINE: painted, RAL 9006
 Fastening material: steel, galvanized
 Cap: PA; black

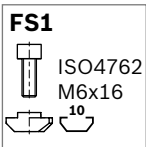
Scope of delivery: Incl. caps, bolt connectors, fastening material (FS)



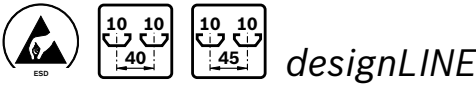
Profile	
	$M_{max} = F \times L \text{ (Nm)}$
40x40	40
40x80	130



Profile	
	$M_{max} = F \times L \text{ (Nm)}$
45x45	50
45x90	150



Supporting arm joint



- Suitable for swiveling end connections, e.g. for the construction of supporting arms
- *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- Profile machining:
drilling of through hole D17

Supporting arm joint		p (mm)	ESD	No.	FS
40x40	Standard	40		3 842 532 206	4xFS1
	<i>designLINE</i>	40		3 842 538 692	4xFS1
40x80	Standard	80		3 842 532 207	4xFS1
	<i>designLINE</i>	80		3 842 538 693	4xFS1

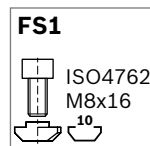
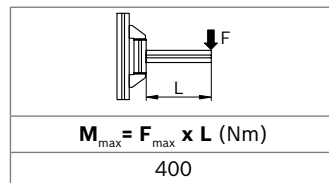
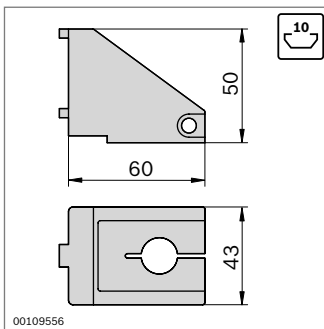
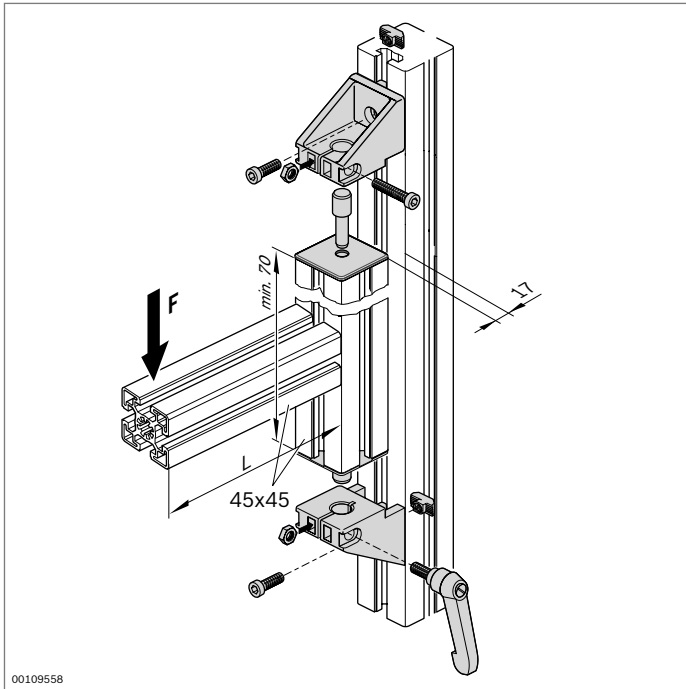
Material: Standard: diecast zinc
designLINE: painted (RAL 9006)
Cap: PA; black
Fastening material: steel, galvanized

Scope of delivery: Incl. caps, bolt connectors, fastening material (FS)

Supporting arm joint		p (mm)	ESD	No.	FS
45x45	Standard	45		3 842 521 263	4xFS1
	<i>designLINE</i>	45		3 842 538 694	4xFS1
45x90	Standard	90		3 842 521 262	4xFS1
	<i>designLINE</i>	90		3 842 538 695	4xFS1

Material: Standard: diecast zinc
designLINE: painted (RAL 9006)
Cap: PA; black
Fastening material: steel, galvanized

Scope of delivery: Incl. caps, bolt connectors, fastening material (FS)



Bearing pedestal



designLINE

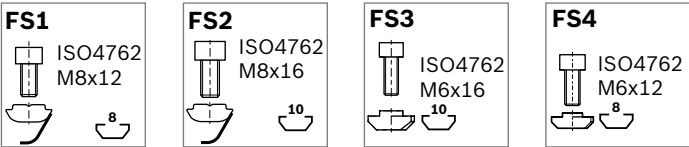
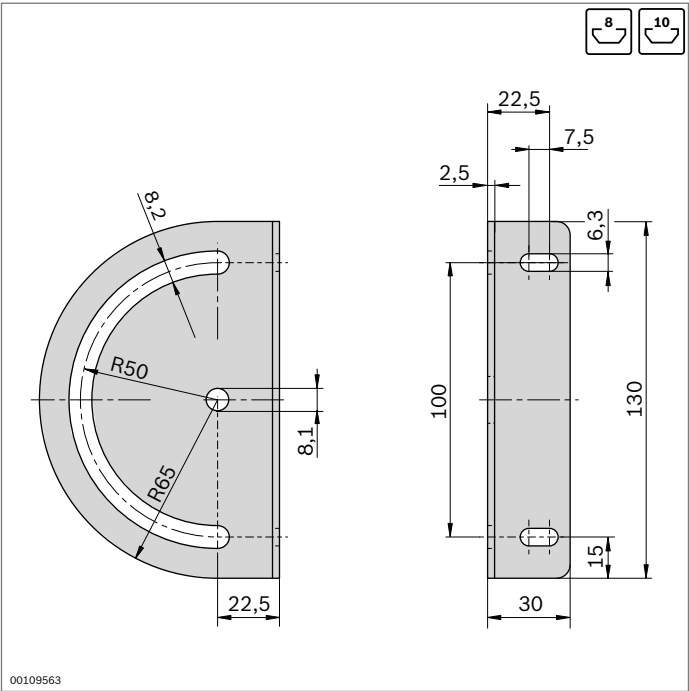
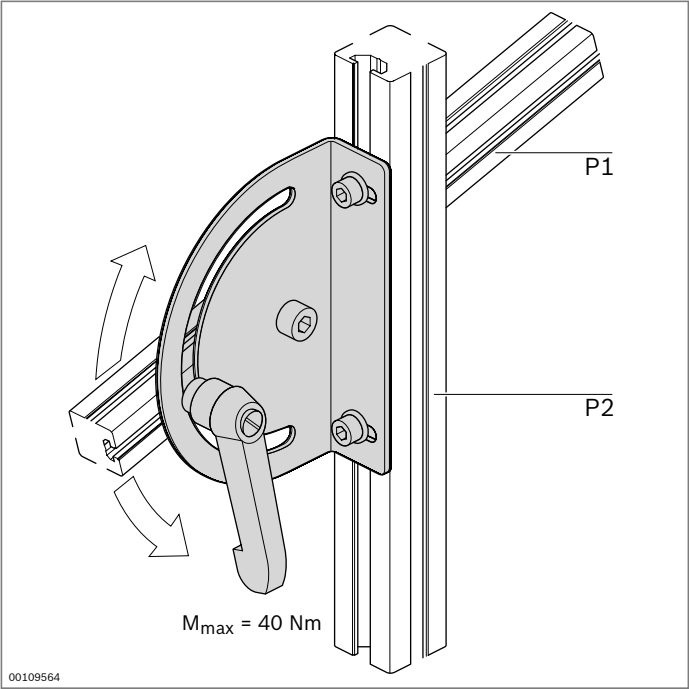
- Bearing pedestal for heavy constructions which have to be swiveled
- *designLINE* version with special silver paint (RAL 9006) for a really high-quality design

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Bearing pedestal	Slot	No.	FS
Standard	10	3 842 547 868	2xFS1
<i>designLINE</i>	10	3 842 547 869	2xFS1

Material: Standard: diecast zinc
designLINE: painted (RAL 9006)
 Fastening material: steel, galvanized
 Clamping lever handle: diecast zinc; black plastic coated
 Cap: PA

Scope of delivery: Incl. fastening material (FS), 2 x cap, 2 x bolt, clamping lever (and additional standard parts for clamping the bearing pedestal)



Pivoting fastener, 180°

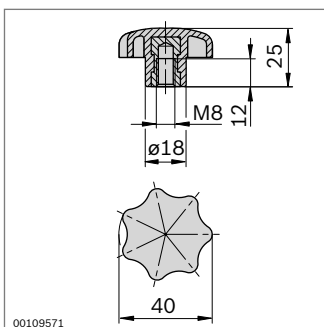
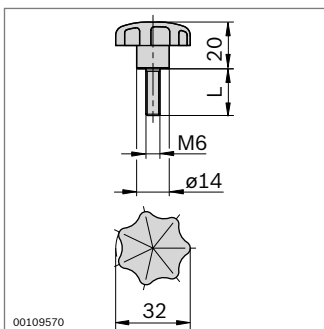
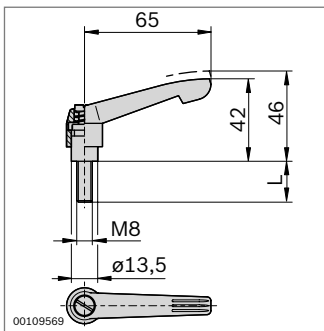
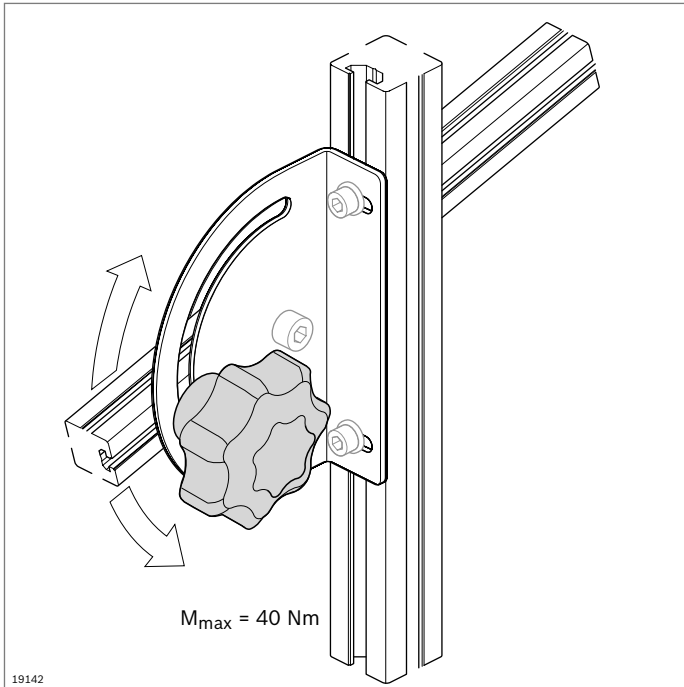


- Swivel fastening for shelves, etc. which need to be positioned at an angle of $\pm 90^\circ$.

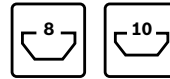
Swivel fastening, 180°	P1 / P2	ESD	No.	FS
	8 / 8	⚠	3 842 538 275	FS1
	8 / 10			2xFS3
				2xFS4
				2xFS5
	10 / 8	⚠	3 842 538 276	FS2
	10 / 10			2xFS3
				2xFS4
				2xFS5

Material: Pivoting fastener: steel, galvanized
Clamping lever: diecast zinc; black plastic coated

Scope of delivery: Incl. fastening material (FS), clamping lever with disk and swivel-in sliding block with spring



Clamping lever, star knob



► Clamping elements for adjustable connections

Accessories:

Screws and sliding blocks; see fastening material (p. 4-10)

Clamping lever	L (mm)	No.
	12	3 842 516 845
	20	3 842 516 846
	40	3 842 516 847
	45	3 842 538 607
	55	3 842 516 848

Material: Clamping lever: diecast zinc; black plastic coated
Steel elements: galvanized, strength class 5.8

Star knob M6	L (mm)	No.
	15	3 842 516 849
	20	3 842 516 850

Material: Star knob: PA; black
Steel elements: galvanized, strength class 5.8

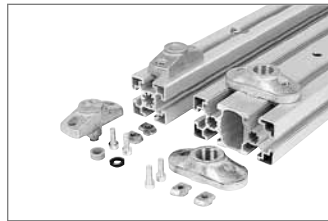
Star knob M8	No.
	3 842 516 851

Material: Star knob: PA; black
Steel elements: galvanized, strength class 5.8

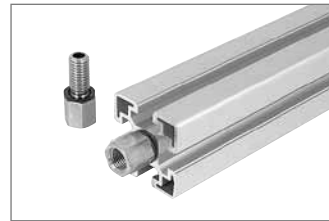
Air-supply elements



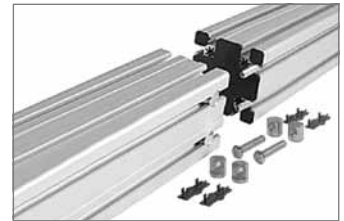
Flanged plate (p. 5-3)



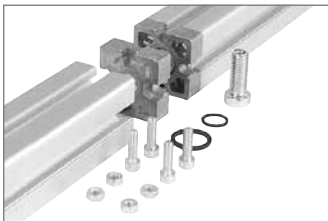
Connection piece (p. 5-4)



Connection screw fitting
M12-1/4" (p. 5-4)



Longitudinal end connector
(p. 5-5)

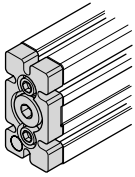


Longitudinal end connector 45
Pneu (p. 5-6)

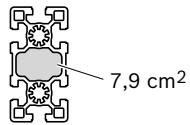


T-connector 45 Pneu (p. 5-6)

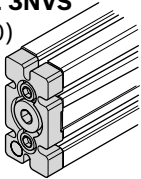
45x90
(p. 2-41)



45x90

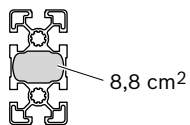


45x90L
45x90L 2N
45x90L 3NVS
(p. 2-40)



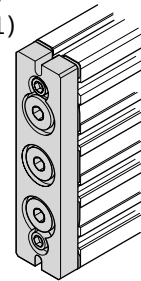
19585

45x90L

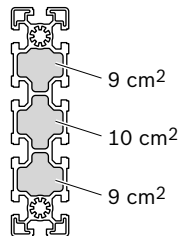


00109731

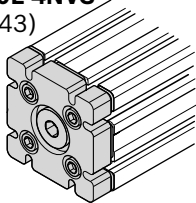
45x180
(p. 2-41)



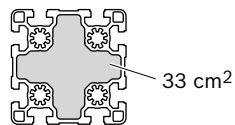
45x180



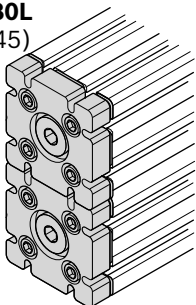
90x90L
90x90L 4N
90x90L 4NVS
(p. 2-43)



90x90L

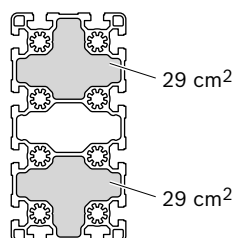


90x180L
(p. 2-45)



19588

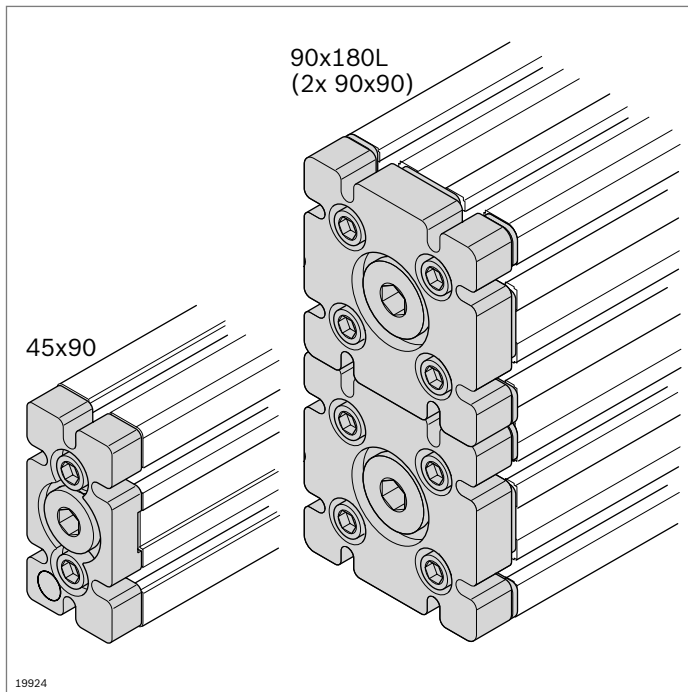
90x180L



00109734

Air-supply elements

- Rexroth **strut profiles** can be used as compressed-air leads and reservoirs. The hollow chambers or central holes are used
- **Flanged plate** for end closing of profiles (p. 5-3)
- Compressed-air intake or discharge at the flanged plate, **connection piece**, or **connection screw fitting** (p. 5-4)
- Air-tight connecting of profiles with **longitudinal end connectors or T-connectors** (p. 5-6, 5-5)
- The use of the heavy-duty profiles is preferable in the case of more demanding leak-tightness requirements (e.g. for underwater applications)

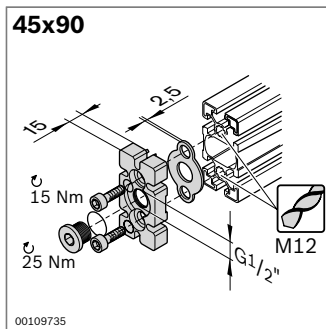


Flanged plate



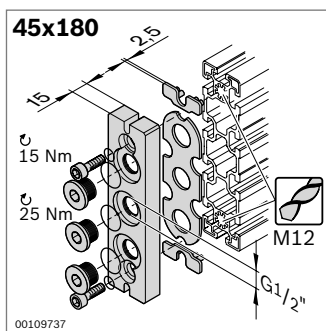
- For sealing the ends of the hollow chambers. This enables the profiles to be used as a compressed-air lead
- For compressed-air introduction or removal when screw plugs are replaced by pneumatic screw fittings
- Profile machining: M12 thread cutting in the central holes
- For a maximum pressure ($p_{\max}$) of 8 bar

5



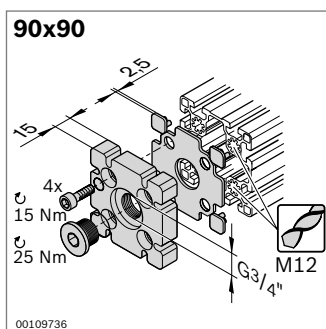
FS1

DIN 7984
M12x30



FS2

DIN 7984
M12x20



FS1

DIN 7984
M12x30

Flanged plate	No.	FS
45x90	3 842 523 097	2xFS1

Material: Flanged plate: diecast aluminum

Seal: NBR

Fastening material: steel; galvanized

Scope of delivery: Incl. fastening material (FS), screw plug, seals

Flanged plate	No.	FS
45x180	2 3 842 535 721	2xFS2

Material: Flanged plate: aluminum

Seal: NBR

Fastening material: steel; galvanized

Scope of delivery: Incl. fastening material (FS), 2 x spacer,
3 x screw plug, seals

Flanged plate	No.	FS
90x90	3 842 523 098	4xFS1

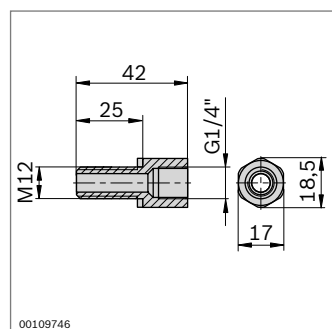
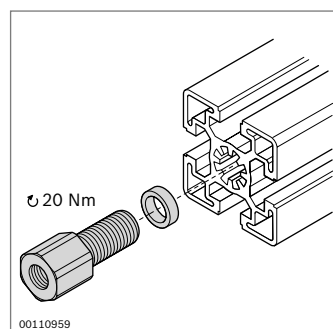
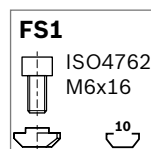
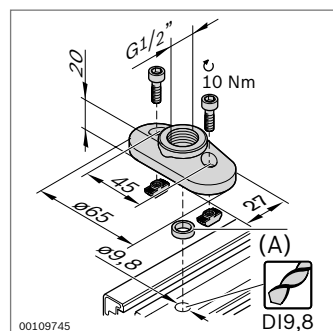
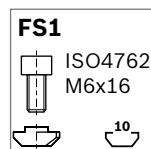
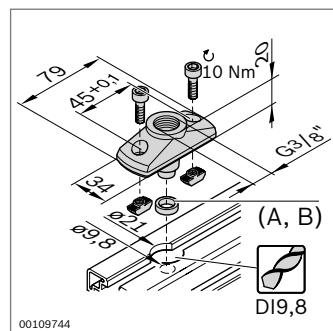
Material: Flanged plate: diecast aluminum

Seal: NBR

Fastening material: steel; galvanized

Scope of delivery: Incl. fastening material (FS), 4 x spacer, screw
plug, seals

Notice: Only suitable for light profiles 90x90L and 90x180L.



- ▶ For compressed-air intake or discharge at any point on the profile
- ▶ G3/8" for connection at central hole
- ▶ G1/2" for connection at hollow chamber
- ▶ Suitable for light and standard profiles
- ▶ Profile machining: blind hole D19,8; blind hole $\varnothing$ 21 mm (drilling jig **3 842 528 574**, p. 14-3)
- ▶ For a maximum pressure ($p_{\max}$) of 8 bar

Connection piece		No.	FS
G3/8"		3 842 523 092	2xFS1
Material:	Connection piece diecast aluminum		
	Seal: NBR		
Scope of delivery:	Incl. fastening material, seals (A , B)		
Accessories:	Seals A , B (p. 5-6)		

Connection piece		No.	FS
G1/2"		3 842 352 085	2xFS1
Material:	Connection piece diecast zinc Seal: NBR		
Scope of delivery:	Incl. fastening material, seal (A)		
Accessories:	Seal A (p. 5-6)		

- ▶ For screw fitting in central hole
- ▶ Profile machining: M12
- ▶ For a maximum pressure ($p_{\max}$) of 8 bar

Bosch Rexroth AG, 3 842 540 392 (2015-09)

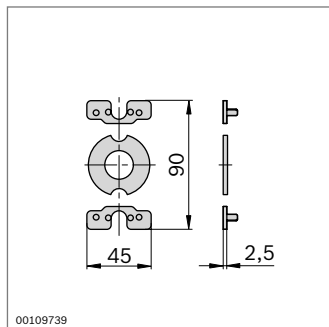
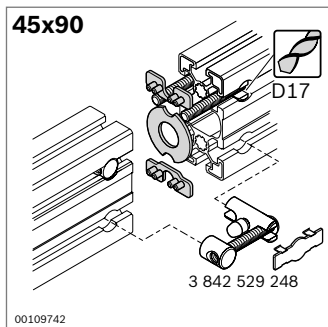
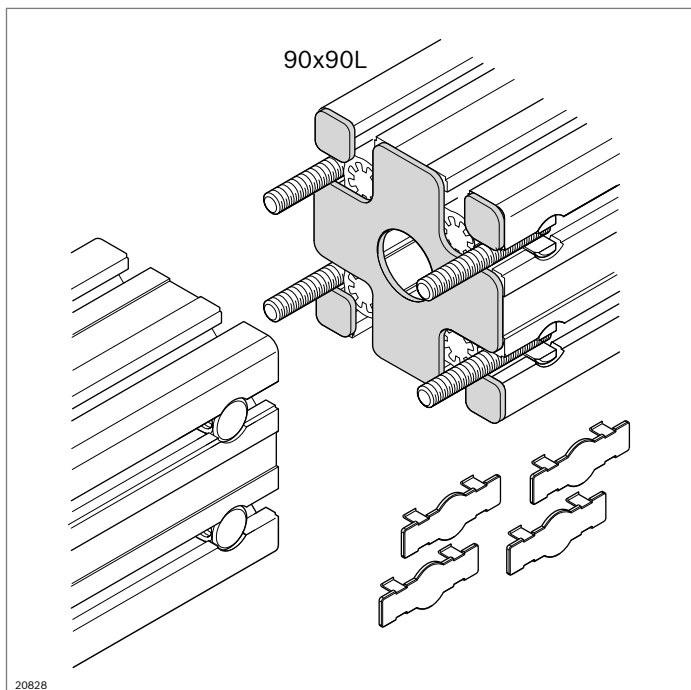
Longitudinal end connection



- Seal for end-to-end connection of profiles carrying compressed air
- Profile machining: through hole D17 (45x90, 45x180); blind hole LF (90x90L)
- For a maximum pressure ($p_{\max}$) of 8 bar

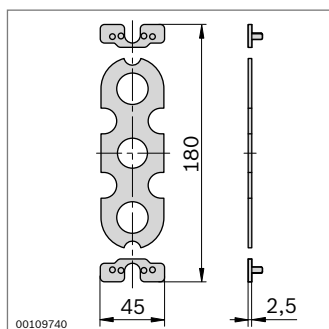
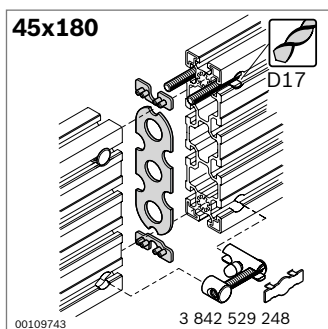
Required accessories:

Longitudinal end connector for profile connection (p. 3-56)



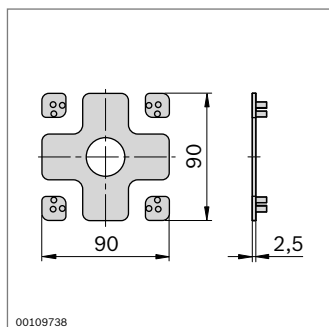
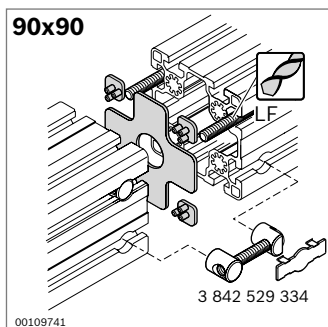
Longitudinal end connection	No.
45x90	3 842 508 087

Material: Seal: PUR
Spacer: PA
Scope of delivery: Seal, 2 x spacer



Longitudinal end connection	No.
45x180	3 842 508 088

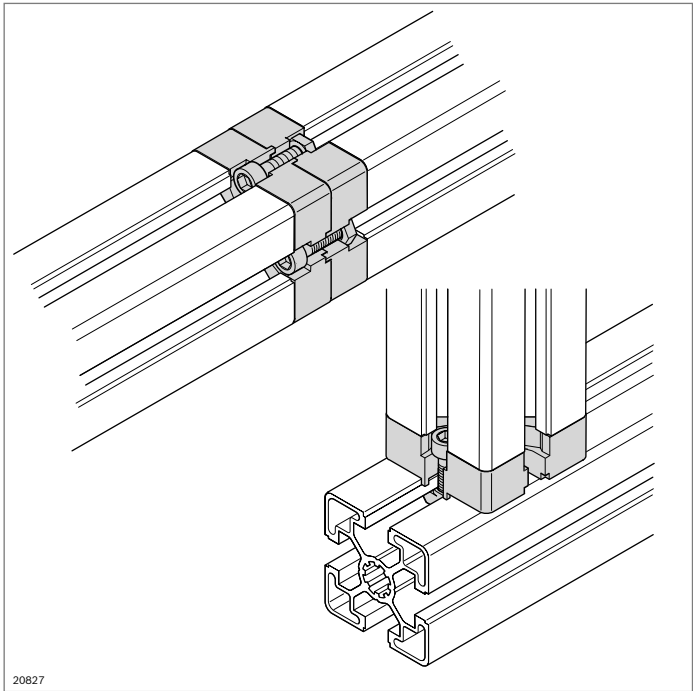
Material: Seal: NBR
Spacer: PA
Scope of delivery: Seal, 2 x spacer



Longitudinal end connection	No.
90x90	3 842 510 145

Material: Seal: NBR
Spacer: PA
Scope of delivery: Seal, 4 x spacer

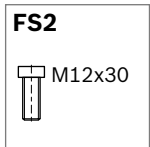
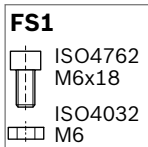
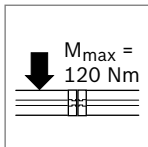
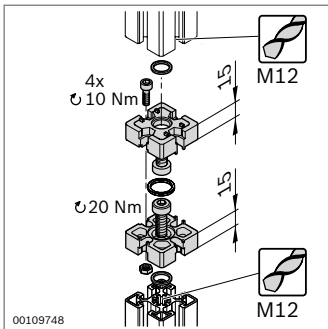
Note: Only suitable for light profile 90x90L.



Longitudinal end connector 45 Pneu
T-connector 45 Pneu, seal



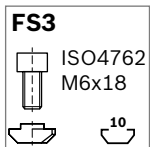
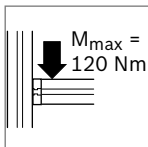
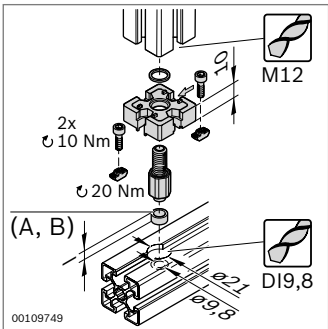
- ▶ Longitudinal end connector 45 Pneu for end face mechanical and pneumatic connections of two 45x45 or 45x45L profiles to convert the central bore into a compressed-air line
- ▶ T-connector 45 Pneu for mechanical and pneumatic connections of two 45x45 or 45x45L profiles at a 90° angle to convert the central bore into a compressed-air line
- ▶ Profile machining: M12 in central bore; blind hole DI9.8; blind hole $\varnothing$ 21 mm (drilling jig **3 842 528 574**, p. 14-3)
- ▶ For a maximum pressure (p_{max}) of 8 bar



Longitudinal end connector	No.	FS
45 Pneu	3 842 523 094	4xFS1, 2xFS2

Material: Longitudinal end connector: diecast aluminum
Seal: NBR

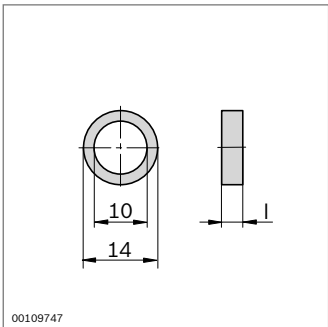
Scope of delivery: Incl. fastening material, sealing rings



T-connector	No.	FS
45 Pneu	3 842 523 093	2xFS3

Material: T-connector: diecast aluminum
Seal: NBR

Scope of delivery: Incl. fastening material, seals **(A, B)** for standard and light profiles



- ▶ Seal for connection piece and T-connector

Seal	I (mm)	No.
A For standard profiles	4 10	3 842 503 242
B For light profiles	7 10	3 842 523 102

Material: NBR

Feet and wheels



Modular leveling feet (p. 6-2)



Leveling foot, foot, damping ring (p. 6-4)



Plate (p. 6-6)



Base plate, steel (p. 6-8)



Base plate (p. 6-8)



Base plate (p. 6-11)



Foot (p. 6-12)



Foot, stainless steel (p. 6-14)



Double wheel (p. 6-16)



Roller (p. 6-17)



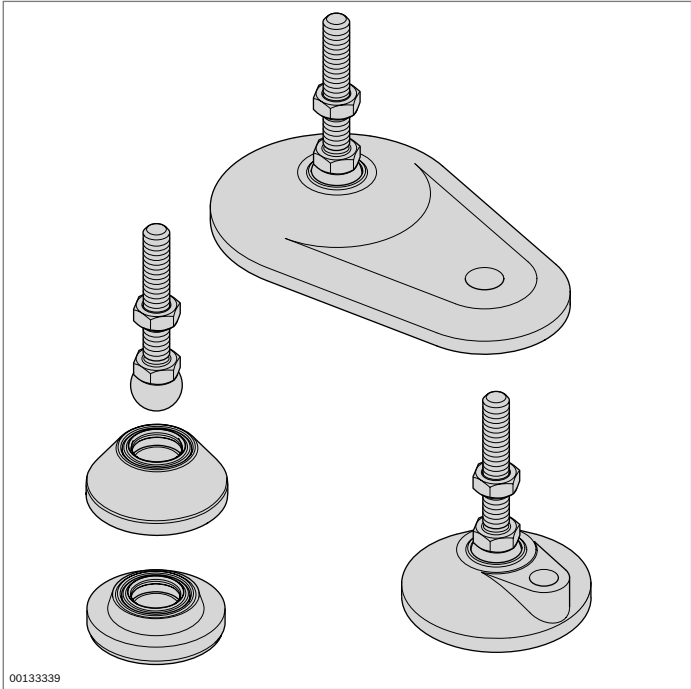
Heavy-duty wheel (p. 6-20)



Lifting wheel (p. 6-22)



Roller with mounting flange (p. 6-23)

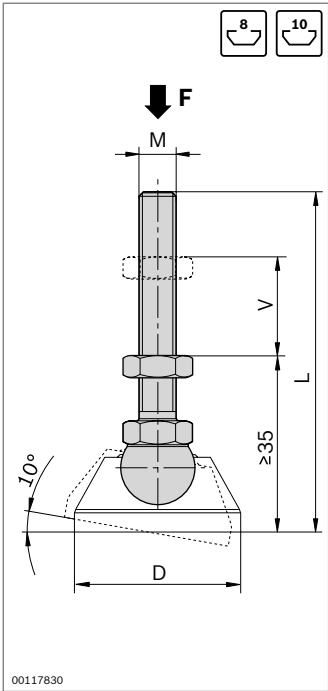


Modular leveling feet

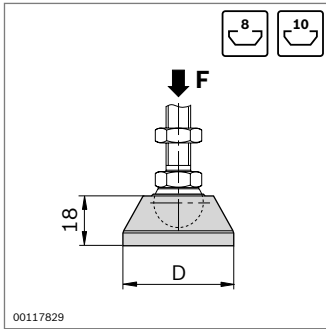


- Leveling feet for compensating irregularities in the floor up to 10°
 - Modular system, various combinations possible
 - Spindles and base plates can be combined as desired
 - Base plates with screw hole for simple screw fitting to the floor
- The damping plate prevents the transfer of vibrations and allows a defined conduction of voltages via a set of grounding components (p. 17-2)
- Profile machining: thread M in central hole

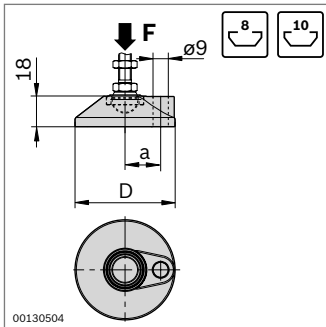
Accessories: bearing ring (p. 6-16)



Shaft	F (N)	M	L (mm)	V (mm)	ESD	No.
Stainless steel	10000	M8	75	20		20 3 842 536 811
	20000	M12	85	30		20 3 842 536 812
	20000	M12	145	80		20 3 842 537 223
	20000	M12	200	135		20 3 842 537 225
	30000	M16	85	20		20 3 842 537 227
	30000	M16	145	80		20 3 842 537 229
	30000	M16	200	135		20 3 842 537 231
	30000	M16	200	135		20 3 842 537 232
Steel, galvanized	10000	M8	75	20		20 3 842 537 220
	20000	M12	85	30		20 3 842 537 222
	20000	M12	145	80		20 3 842 537 224
	20000	M12	200	135		20 3 842 537 226
	30000	M16	85	20		20 3 842 537 228
	30000	M16	145	80		20 3 842 537 230
	30000	M16	200	135		20 3 842 537 232
	30000	M16	200	135		20 3 842 537 232

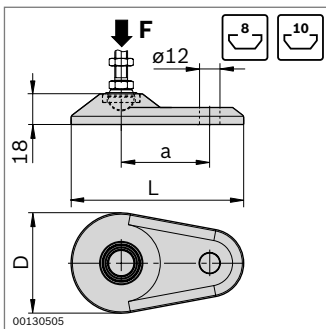


Base plate	F (N)	D (mm)	ESD	No.
Stainless steel	20000	29	20	3 842 536 694
	30000	39	20	3 842 536 695
	30000	44	20	3 842 536 696
	30000	59	20	3 842 538 673
	30000	79	20	3 842 537 206
Diecast zinc, black powder coating	20000	29	20	3 842 538 674
	30000	39	20	3 842 538 675
	30000	44	20	3 842 538 676
	30000	59	20	3 842 538 677
	30000	79	20	3 842 538 678
PA; black	5000	29	20	3 842 538 832
	9000	39	20	3 842 538 833
	9000	44	20	3 842 538 834
	9000	59	20	3 842 538 835
	9000	79	20	3 842 538 836



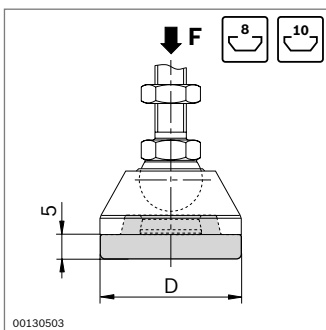
Base plate with screw hole	F (N)	D (mm)	a (mm)	No.
	30000	59	21	3 842 538 932
	30000	79	31	3 842 538 934

Material: diecast zinc, black powder coating



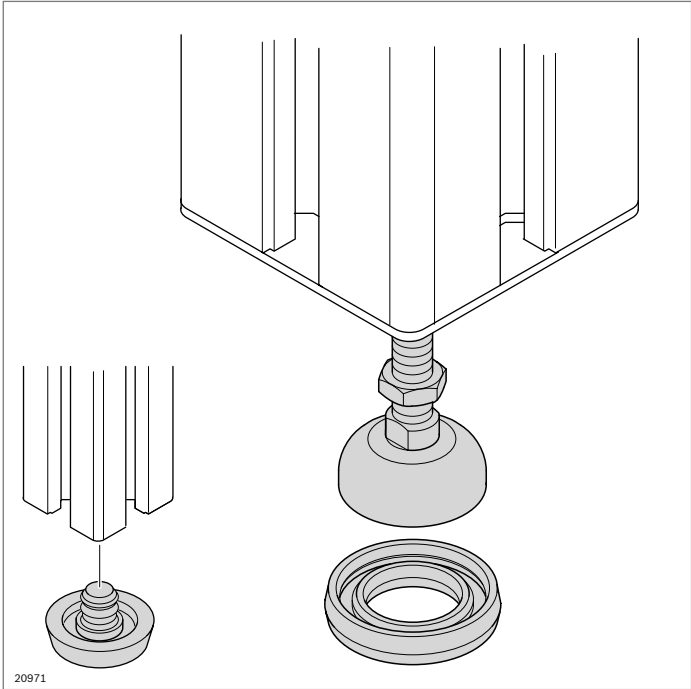
Oval base plate with screw hole	F (N)	D (mm)	a (mm)	L (mm)	No.
	30000	59	52	100	3 842 538 679
	30000	79	65	130	3 842 538 680

Material: diecast zinc, black powder coating

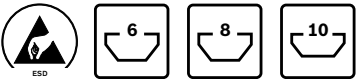


Damping plate	F (N)	D (mm)	No.
	1100	29	3 842 538 555
	1600	39	3 842 538 556
	2000	44	3 842 538 557
	2500	59	3 842 538 558
	2800	79	3 842 538 559

Material: PUR, black



Leveling foot, foot, damping ring



Leveling foot

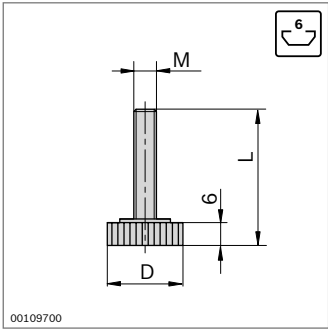
- For compensating irregularities in the floor up to 5°
- Fully assembled spindle and base plate
- Profile machining: threading in central hole

Damping ring

- The electrically insulating damping ring prevents the transfer of vibrations and allows a defined conduction of voltages via a set of grounding components (p. 17-2)

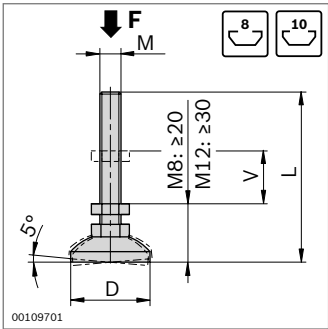
Accessories:

bearing ring (p. 6-16); for when cover caps with a hole are used



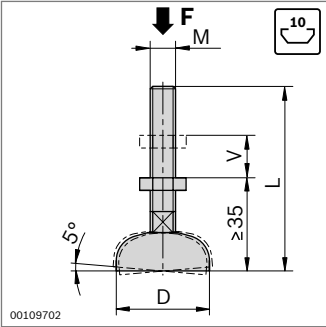
Leveling foot	M	D (mm)	L (mm)	No.
	M6	20	41	20 3 842 518 743

Material: steel/plastic



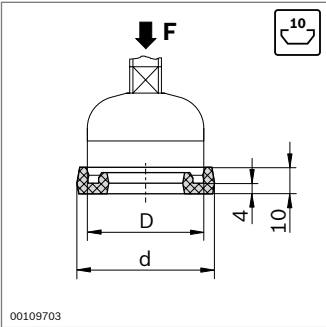
Leveling foot	F (N)	M	D (mm)	L (mm)	V (mm)	ESD	No.
	5000	M8	30	65	15		20 3 842 502 257
	8000	M12	30	72	14		20 3 842 529 025

Material: steel, galvanized



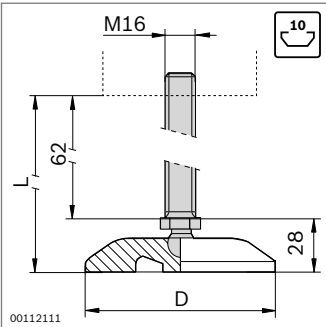
Leveling foot	F (N)	M	D (mm)	L (mm)	V (mm)	ESD	No.
	10000	M12	44	85	30		20 3 842 352 061
	20000	M16	44	145	80		20 3 842 311 956
	10000	M12	44	160	80		20 3 842 536 470
	10000	M12	58	85	30		20 3 842 511 893
	20000	M16	90	85	20		20 3 842 311 950
	20000	M16	90	145	80		20 3 842 311 951
	20000	M16	90	200	135		20 3 842 527 186

Material: steel, galvanized



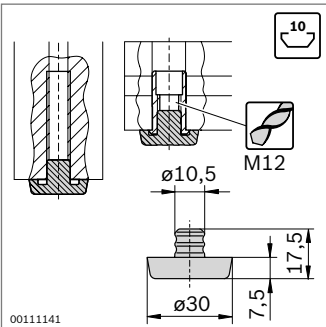
Damping ring	F (N)	D (mm)	d (mm)	No.
	1600	30	39	20 3 842 529 024
	2000	44	52	20 3 842 521 817
	2500	58	66	20 3 842 522 301
	3000	90	98	20 3 842 522 303

Material: PUR; natural, hardness: shore A 70-80



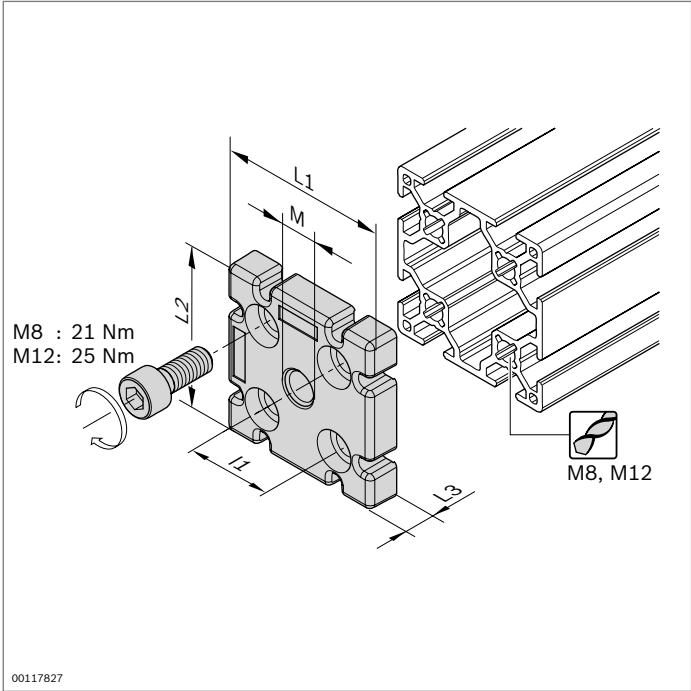
Leveling foot	M	D (mm)	L (mm)	V (mm)	No.
	M16	80	95	62	1 3 842 533 310

Material: Shaft: stainless steel
Base plate: PA



Foot	No.
	100 3 842 514 568

Material: TPE, black



Plate



- For fastening leveling feet in profiles without a central hole
- For use as an end connector or T-connector
- Profile machining: tapping of thread in the central hole

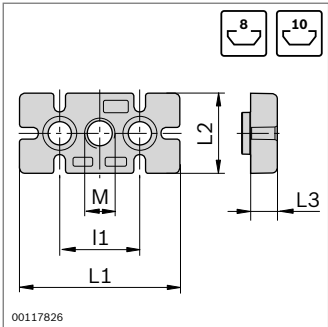


Plate	F (N)	M	L1 (mm)	I1 (mm)	L2 (mm)	L3 (mm)	No.	FS
30x60	8000	M12	60	30	30	11	3 842 536 560	2xFS1
40x80	10000	M12	80	40	40	15	3 842 536 562	2xFS2
45x90	20000	M16	90	45	45	15	3 842 536 564	2xFS2

Material: Plate: diecast aluminum
Fastening material: steel, galvanized

Scope of delivery: Incl. fastening material (FS)

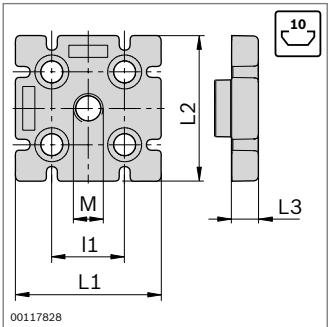
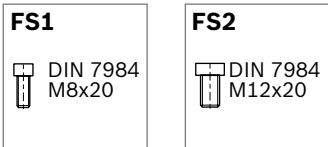
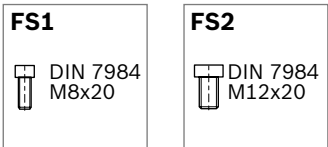
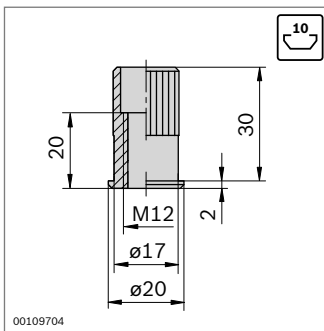
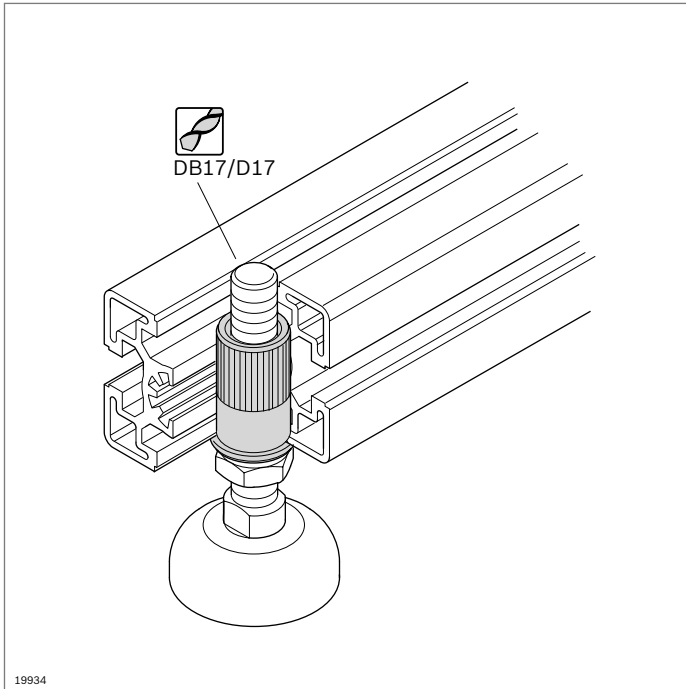


Plate	F (N)	M	L1 (mm)	I1 (mm)	L2 (mm)	L3 (mm)	No.	FS
60x60 8N	10000	M12	60	30	60	11	3 842 536 566	4xFS1
80x80L	10000	M12	80	40	80	15	3 842 529 416	4xFS2
90x90L	20000	M16	90	45	90	15	3 842 511 352	4xFS2
100x100L	20000	M16	100	50	100	15	3 842 529 417	4xFS2

Material: Plate: diecast aluminum
Fastening material: steel, galvanized

Scope of delivery: Incl. fastening material (FS)

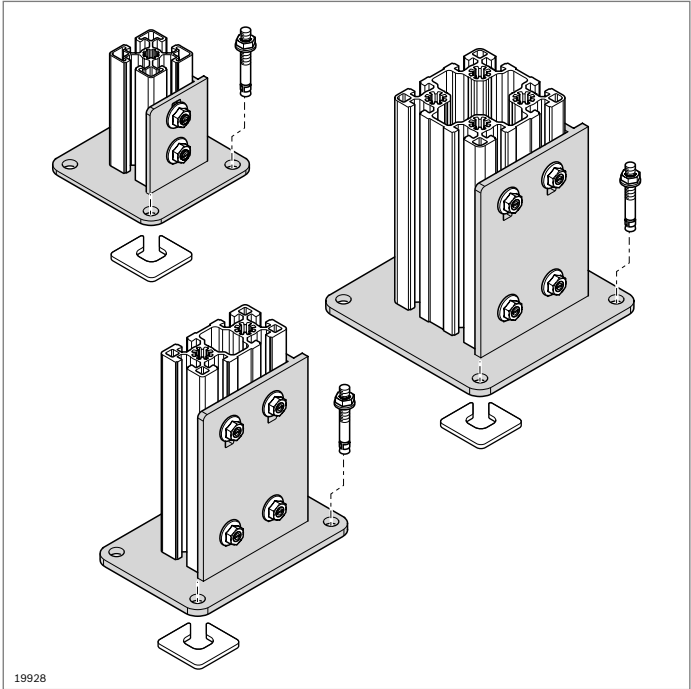




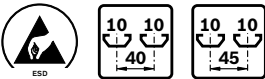
Threaded sleeve

- For fastening leveling feet at an angle to the longitudinal profile direction
- Profile machining:
 - drilling of blind hole DB17
 - drilling of through-hole D17

Threaded sleeve	No.
	3 842 504 790
Material:	Steel, galvanized



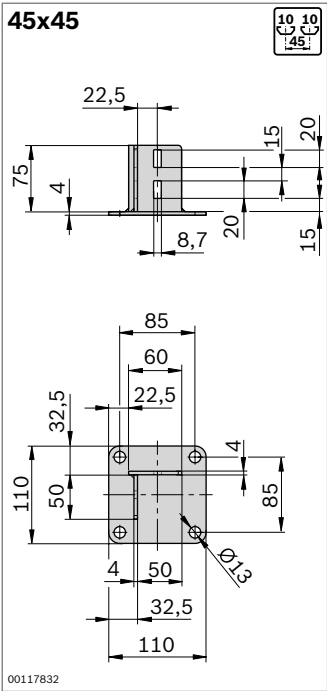
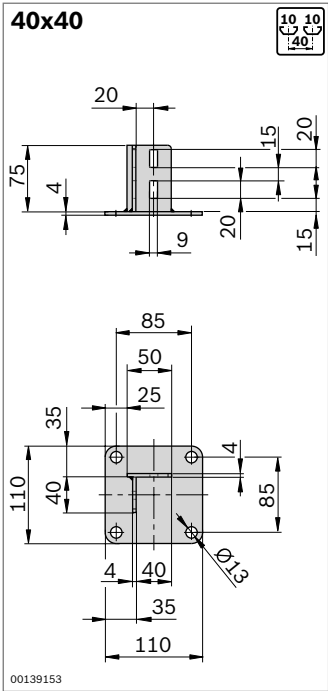
Base plate, steel



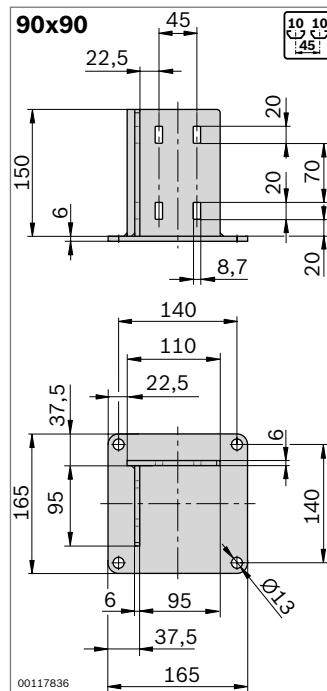
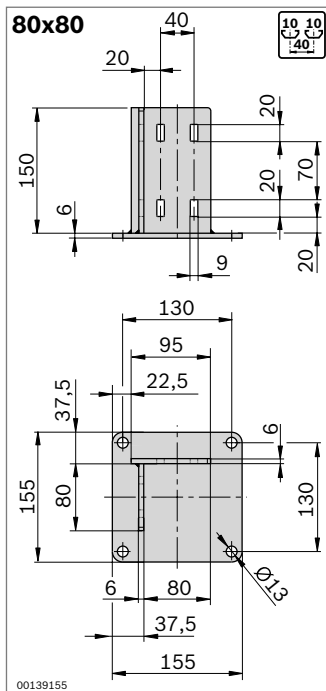
- Used in construction for supporting separating and protective walls
- Profile machining: not required

Accessories:

- T-bolt M8x20, 10 mm slot (p. 3-6)
- Flange nut M8 (p. 3-6)
- Floor dowel **3 842 526 561** (p. 6-12)
- Washer (p. 6-13)



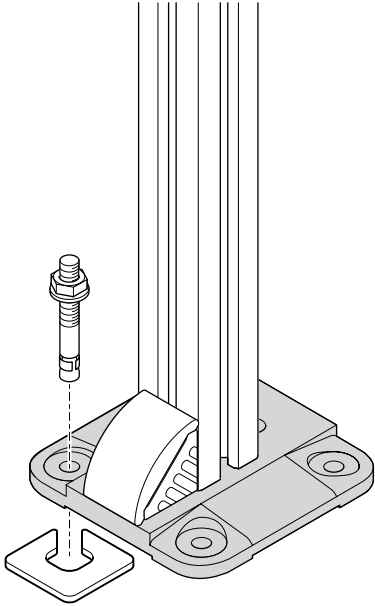
Base plate, steel	ESD	No.
40x40		3 842 542 667
45x45		3 842 536 581
Material:	Steel, galvanized	



Material:	Steel, galvanized
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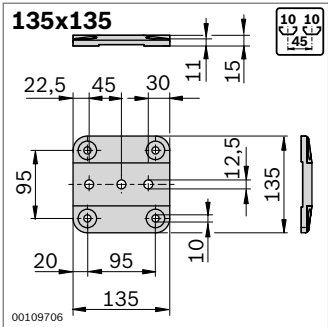
Material:	Steel, galvanized
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135x135
270x360



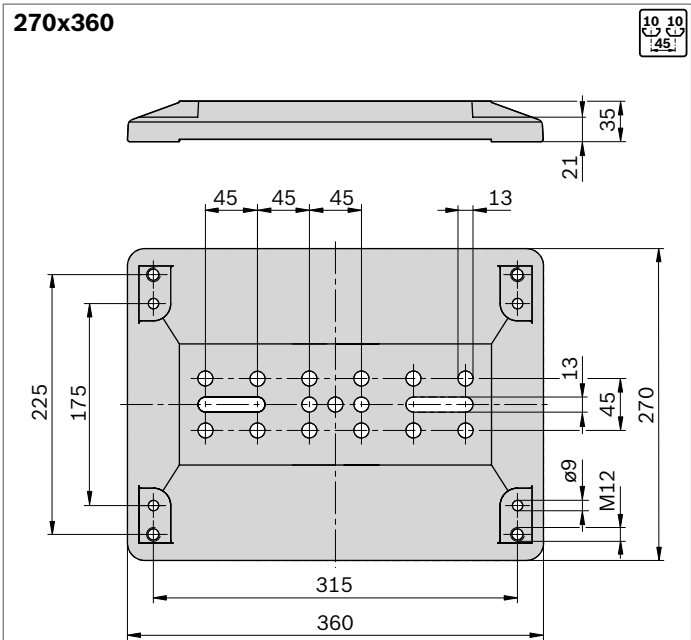
19628

135x135



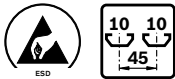
00109706

270x360



00109707

Base plate 135x135, 270x360



- Used in construction for supporting separating and protective walls
- Anchoring with floor dowel

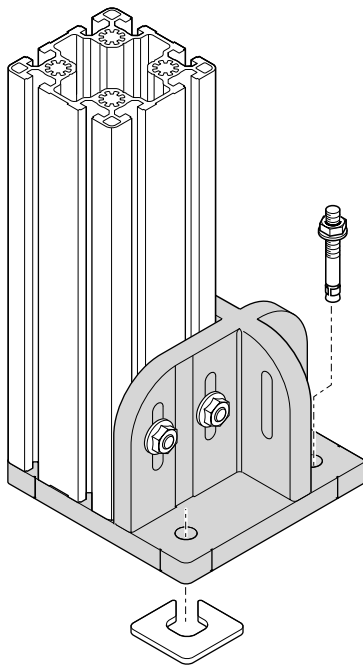
Required accessories:
Bracket (p. 3-17)

Base plate	ESD	No.
135x135		3 842 516 175
Material: Diecast aluminum		

- Accessories, required:
- floor dowel **3 842 526 560** (p. 6-12)
 - washer (p. 6-13)

Base plate	No.
270x360	3 842 514 567
Material: Gray cast iron, painted black	

- Accessories, required:
- floor dowel **3 842 540 668** (p. 6-12)
 - washer (p. 6-13)

120x120
150x150

19929

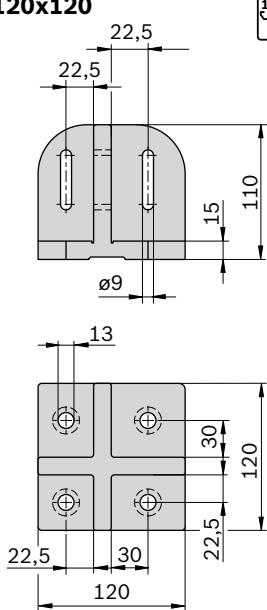
Base plate 120x120, 150x150

- For flush mounting of supports. No danger of tripping!
- Markings arranged at the center of the profile for precise alignment
- Anchoring with floor dowel

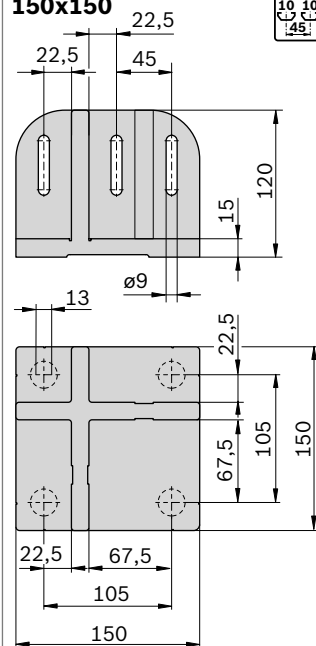
Accessories, required:

- T-bolt M8x30 **3 842 528 721** (p. 3-6)
- Flange nut M8, **3 842 345 081** (p. 3-6)
- Floor dowel **3 842 526 561** (p. 6-12)
- Washer (p. 6-13)

6

120x120

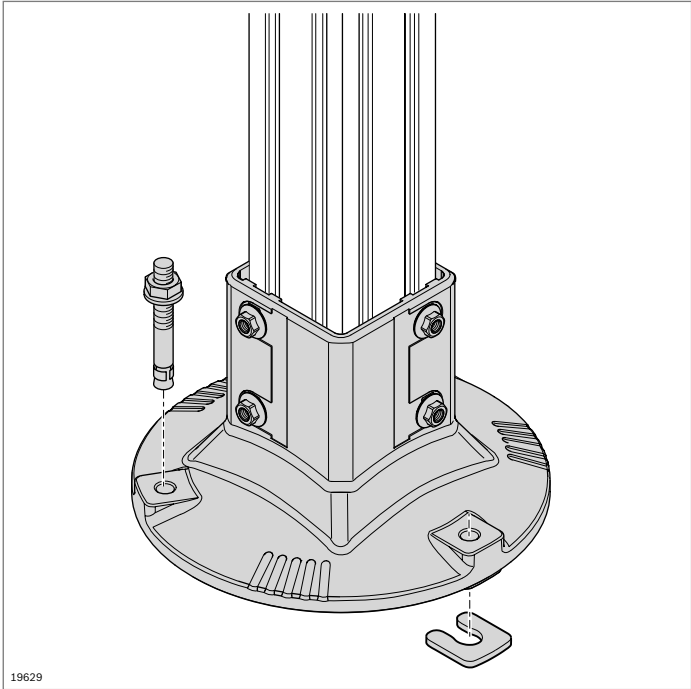
00109708

150x150

00109711

Base plate	ESD	No.
120x120		3 842 527 553
150x150		3 842 524 469

Material: Diecast aluminum



Foot
Floor dowel, washer

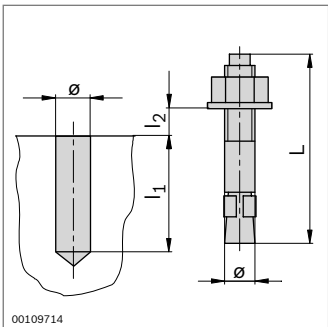
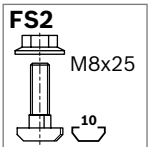
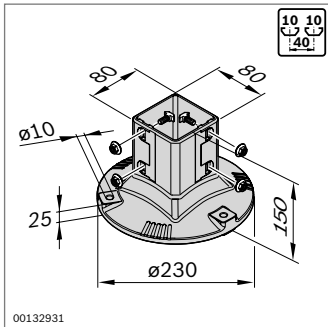
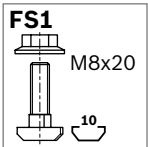
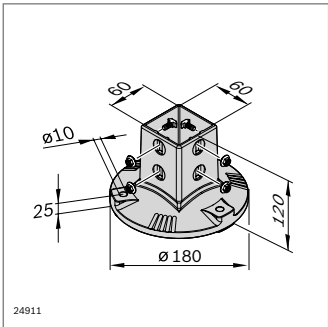


Foot

- For constructing supports made of 80x80L and 60x60 profiles
- Large standing surface for high stability
- Easy cleaning thanks to few horizontal surfaces
- Open on the inside to enable draining of liquids
- Stop as depth limit for profile (removable)

Required accessories:

- floor dowel **3 842 540 668**
- washer **3 842 546 717** or **3 842 546 718**



Foot, AL	No.	FS
60x60	1 3 842 544 875	4xFS1
Material: Aluminum, silver coating (RAL 9006)		
Fastening material: steel, galvanized		
Scope of delivery: Incl. fastening material (FS1)		

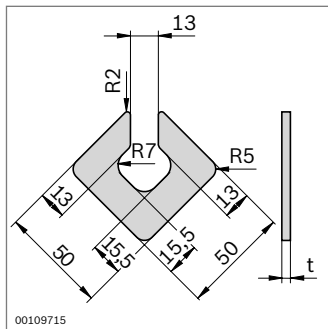
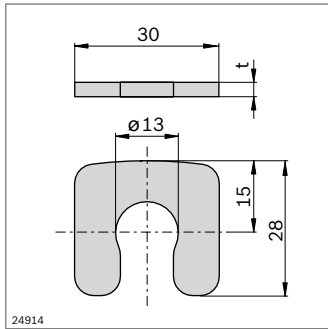
Foot	No.	FS
80x80	3 842 540 173	4xFS2
Material: Aluminum, silver coating (RAL 9006)		
Fastening material: steel, galvanized		
Scope of delivery: Incl. fastening material (FS1)		

Floor dowel

- For anchoring the base plates

Floor dowel	ø	L (mm)	I ₁ (mm)	I _{2 max} (mm)	No.
	8	80	65	15 100	3 842 526 560
	10	90	70	15 100	3 842 526 561
	8	95	65	30 100	3 842 540 668

Material: Steel, galvanized



Washer

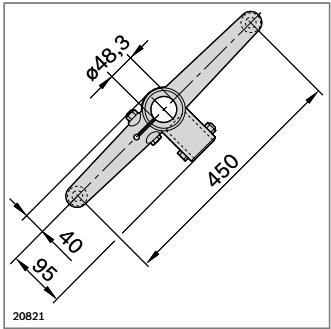
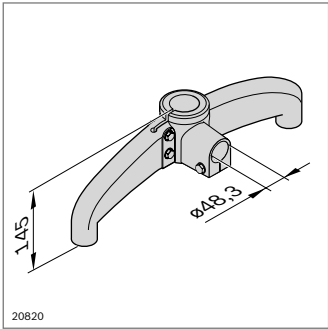
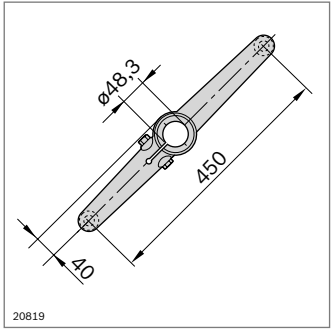
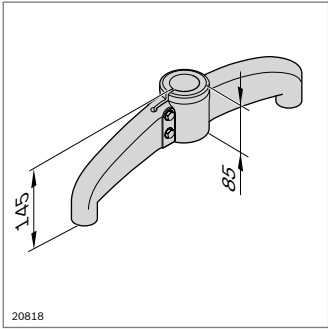
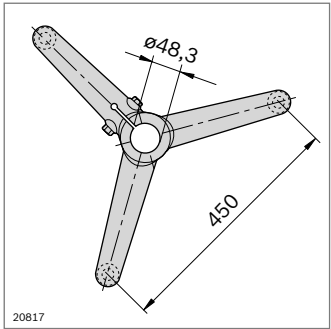
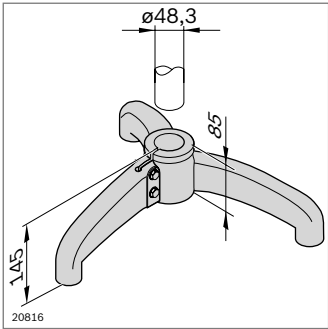
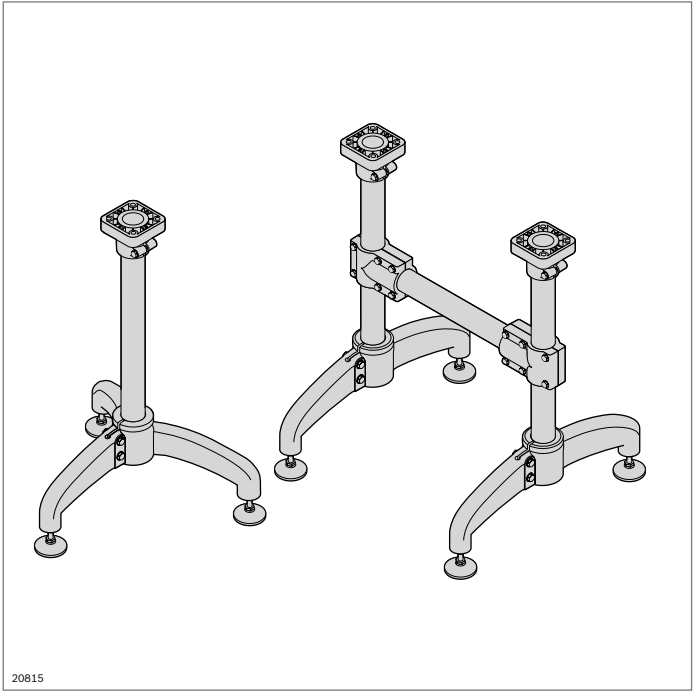
- For leveling in case of uneven flooring

Washer	t (mm)		No.
for round feet	1	100	3 842 546 717
	3	100	3 842 546 718

Material: Steel; stainless

Washer	t (mm)		No.
for square feet	1	100	3 842 528 189
	4	100	3 842 528 191

Material:	Steel; stainless
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Foot, stainless steel

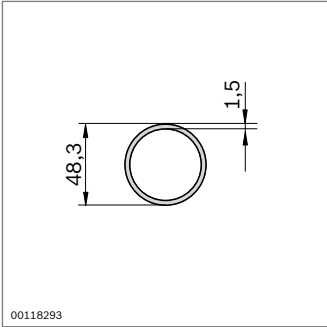
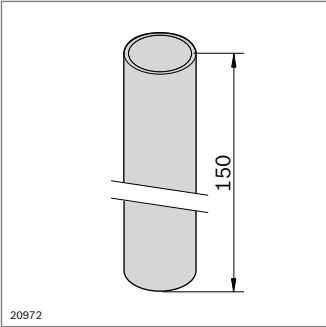
- Components for constructing feet and frames using the stainless steel tube D 48.3
- Tube fastened by clamping
- Shaft thread M16

Accessories, optional:
leveling foot **3 842 533 310** (p. 6-4)

Foot	No.
Tripod	3 842 533 307
Material:	Foot: stainless steel Fastening material: stainless steel

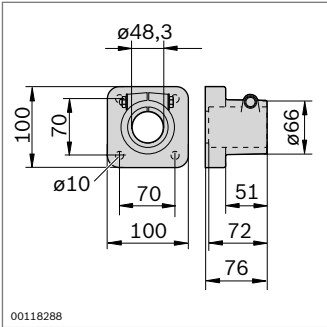
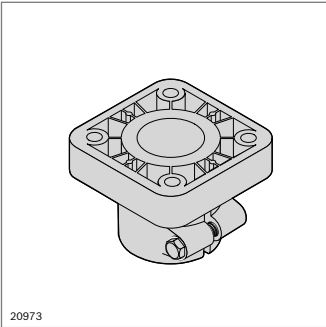
Foot	No.
Bipod	3 842 533 308
Material:	Foot: stainless steel Fastening material: stainless steel

Foot	No.
Bipod with flange	3 842 533 309
Material:	Foot: stainless steel Fastening material: stainless steel



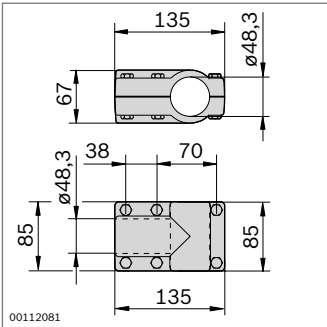
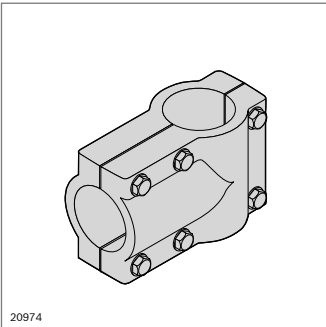
Tube D 48.3		L (mm)	No.
1 pc		200 ... 3000	3 842 993 308 / L
6 pcs		3000	3 842 533 901

Material: stainless steel



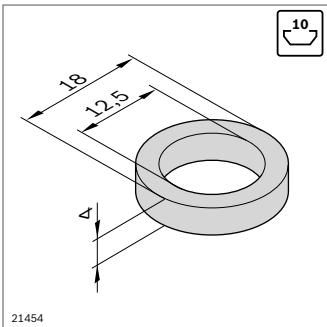
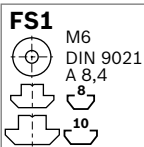
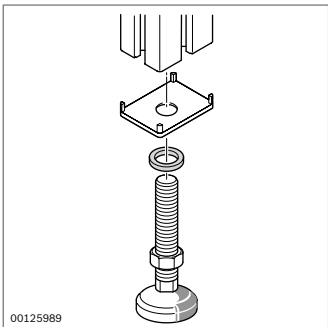
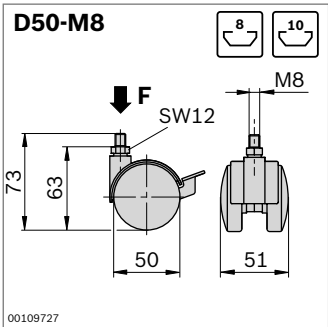
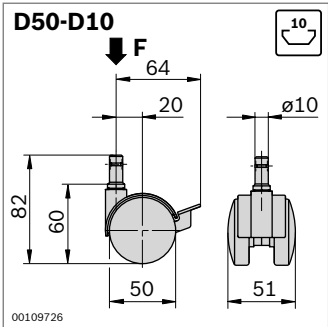
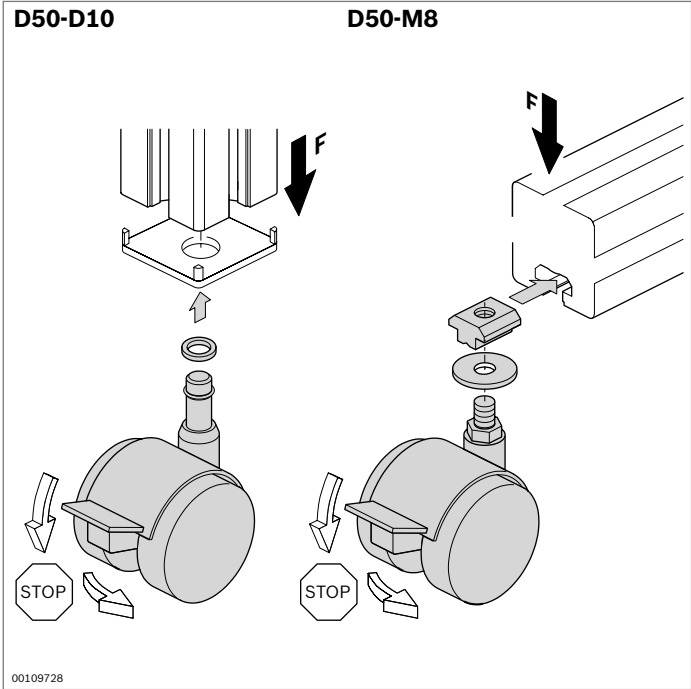
Flange	No.
	3 842 533 305

Material: Flange: PA
Fastening material: stainless steel



Cross connectors	No.
	3 842 533 306

Material: PA
Fastening material, adjustment screw: stainless steel



Double wheel



- ▶ Attractive double wheel for light applications
- ▶ Made of oil-resistant material
- ▶ Double wheel with lock
- ▶ Double wheel D50-D10 for insertion in the central hole with a diameter of 10 mm
- ▶ Double wheel D50-M8 for bolting in the profile slot

Double wheel	F (N)	ESD	No.
D50-D10	400	4	3 842 515 457
	400	4 ¹⁾	3 842 515 459

¹⁾ Conduction resistance ≤ 10⁶ Ω
 Material: Housing, wheel, lock: PA
 Running surface: PU (ESD version only)
 Fastening material: steel, galvanized

Double wheel	F (N)	ESD	No.	FS
D50-M8	400	4	3 842 535 669	FS1
	400	4 ¹⁾	3 842 535 670	FS1

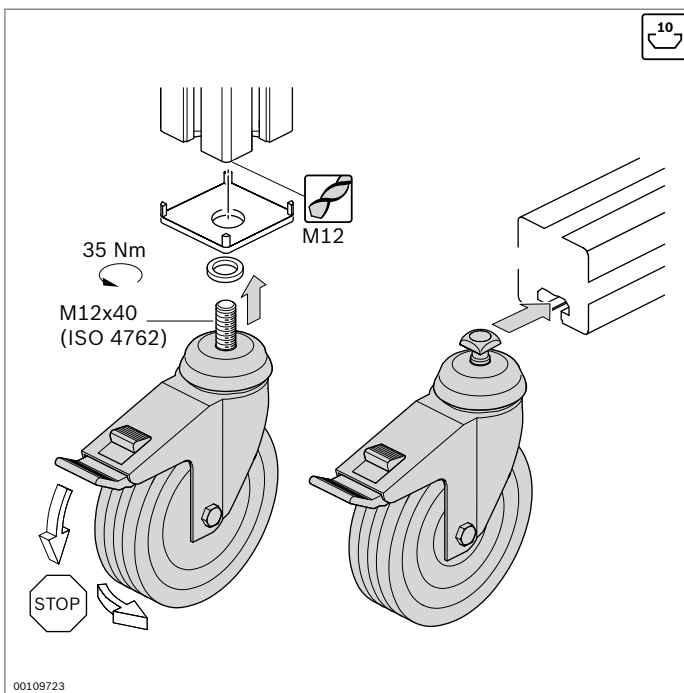
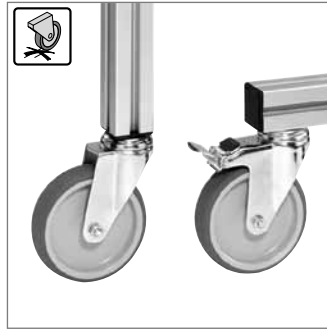
¹⁾ Conduction resistance ≤ 10⁶ Ω
 Material: Housing, wheel, lock: PA
 Running surface: PU (ESD version only)
 Fastening material: steel, galvanized

Bearing ring

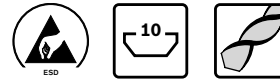
- ▶ For caps with hole
- ▶ For M12 threads
- ▶ To protect the caps when tightening accessories

Bearing ring	No.
	100 3 842 536 321

Material: Stainless steel



Wheel



- Versatile range of uses
- Rollers with excellent running properties
- Available as a caster wheel with lock, caster, and trestle wheel



Especially gentle on floors



Resistant to oil, suitable for workshop floors



Clean Room Suitable for use in cleanrooms. Conductive material version in accordance with DIN EN 61340-5-1; conduction resistance 10^3 to $10^8 \Omega$



Rubber running surface made of solid rubber with good deformation elasticity. No permanent flattening of the wheel due to it traveling over edges or not being moved for long periods



Suitable for ESD-sensitive areas. Conductive material version in accordance with DIN EN 61340-5-1; conduction resistance $\leq 10^6 \Omega$

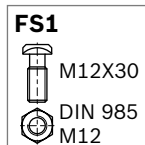
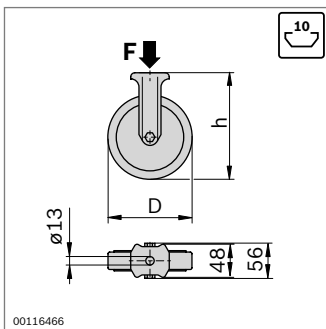
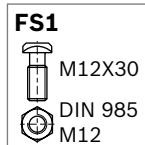
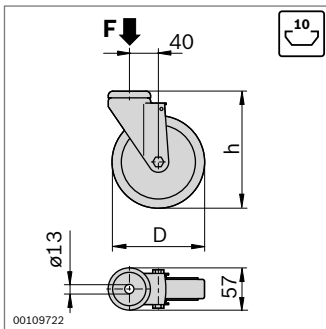
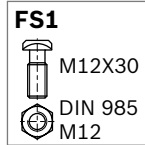
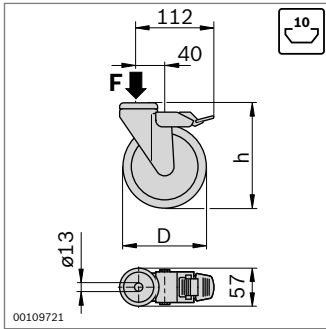
- Mounting of all rollers in the profile slot or central hole (accessories required)
- Profile machining: thread cutting M12 for assembly in central hole

Accessories, required:

- Screw M12x40 (ISO 4762) for mounting in central hole ($\hookrightarrow$ 35 Nm)
- Bearing ring if cap with hole is used (p. 6-16)

Wheel selection guide

				
Tread	Thermoplastic rubber	Polyamide 6	Solid rubber	Polyurethane
ESD	yes / no (either possible)	no	yes	yes
Tread hardness	 85° shore A	 70° shore D	 80° shore A	 94° shore A
Temperature resistance	 -20 °C ... +60 °C	 -25 °C ... 80 °C	 -20 °C ... +60 °C	 -20 °C ... +60 °C
Rolling resistance	 very good	 outstanding	 good	 very good
Travel noise	 good	 satisfactory	 very good	 good
Floor protection	 good	 satisfactory	 very good	 good
Deformation elasticity of tread	 satisfactory	 adequate	 very good	 good
Tread color	gray	black	black	gray
Makes no track marks	yes	yes	no	yes



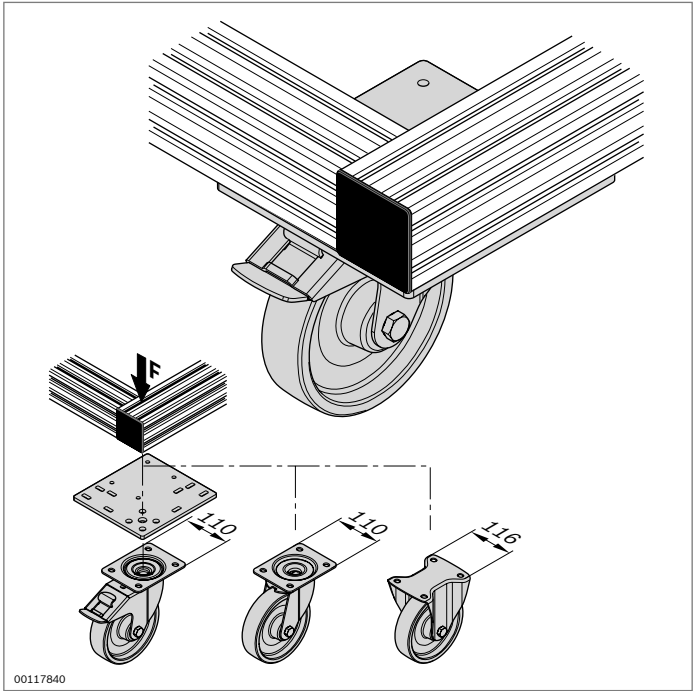
- Steerable castor with lock: lock prevents the wheel from rolling or turning

Caster wheel with lock	F (N)	D (mm)	h (mm)	ESD	No.	FS
	900	80	108		3 842 541 226	FS1
	1100	125	158		3 842 541 228	FS1
	900	80	108		3 842 541 230	FS1
	1100	125	158		3 842 541 232	FS1
	1100	125	158		3 842 515 367	FS1
	1000	125	158		3 842 524 499	FS1
	600	80	108		3 842 547 836	FS1
	800	125	158		3 842 547 838	FS1

Caster wheel	F (N)	D (mm)	h (mm)	ESD	No.	FS
	900	80	108		3 842 541 234	FS1
	1100	125	158		3 842 541 236	FS1
	900	80	108		3 842 541 238	FS1
	1100	125	158		3 842 541 240	FS1
	1100	125	158		3 842 515 366	FS1
	1000	125	158		3 842 524 500	FS1
	600	80	108		3 842 547 835	FS1
	800	125	158		3 842 547 837	FS1

Trestle wheel	F (N)	D (mm)	h (mm)	ESD	No.	FS
	900	80	108		3 842 541 242	FS1
	1100	125	158		3 842 541 244	FS1
	600	80	108		3 842 547 839	FS1
	800	125	158		3 842 547 840	FS1

Material:		Thermoplastic rubber
		Reinforced PA
		Gray PU; housing: steel, chrome-plated
		Solid rubber
		Conductive, conduction resistance $\leq 10^6 \Omega$



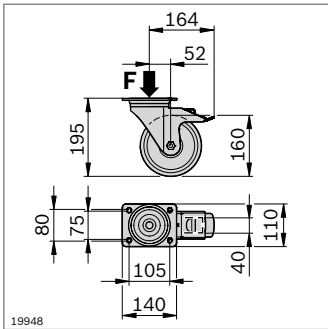
Heavy duty wheel



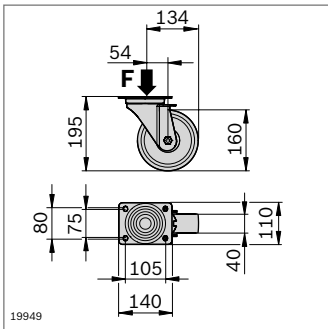
- Heavy-duty wheel with mounting flange
- Available as a caster wheel with lock, caster, and trestle wheel
- Heavy-duty, particularly suited for workshop applications
- Rollers with excellent running properties

Required accessories:

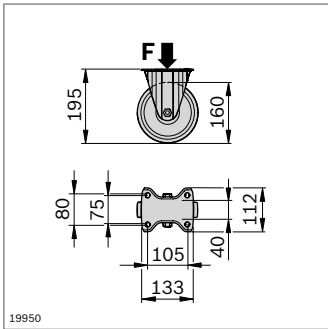
- Screw M10x16 (ISO 4762), washer A10.5 (DIN 125), lock washer 10FSt for fastening to the screw-on plate
- T-bolt, flange nut, central bolt M12 or S12 for fastening the screw-on plate to the profile frame



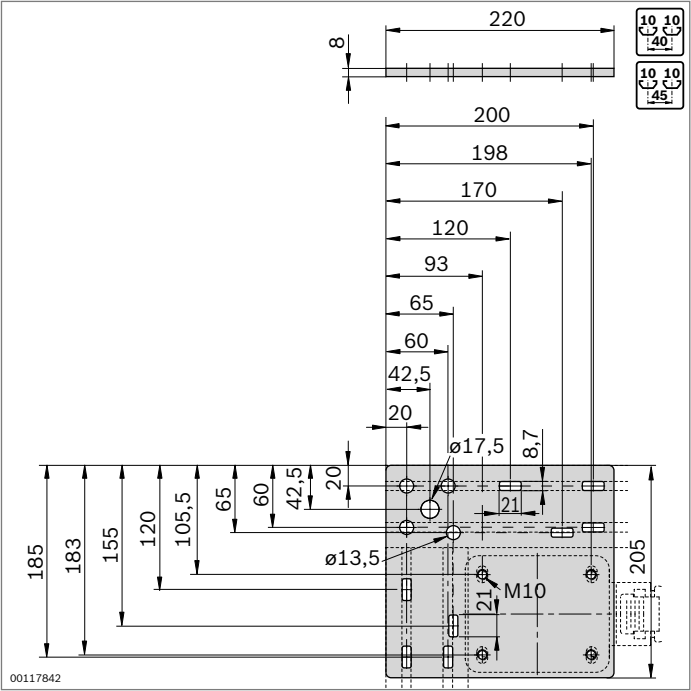
Caster wheel with lock	F (N)	No.
	3000	3 842 536 736
Material:	Housing: steel, galvanized, Wheel: TPU	



Caster wheel	F (N)	No.
	3000	3 842 536 737
Material:	Housing: steel, galvanized, Wheel: TPU	



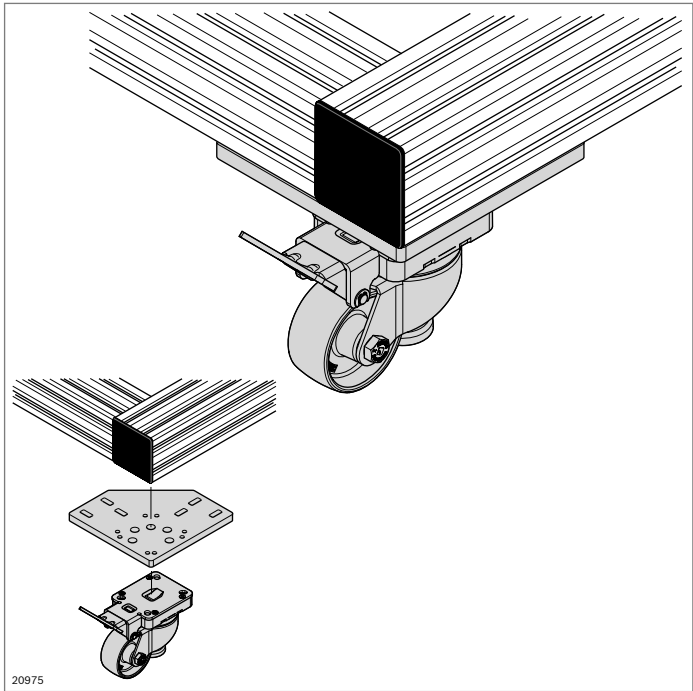
Trestle wheel	F (N)	No.
	3000	3 842 536 738
Material:	Housing: steel, galvanized, Wheel: TPU	



► Screw-on plate for attachment to 40 mm or 45 mm profiles

Screw-on plate		No.
	4	3 842 536 701

Material: Steel, galvanized



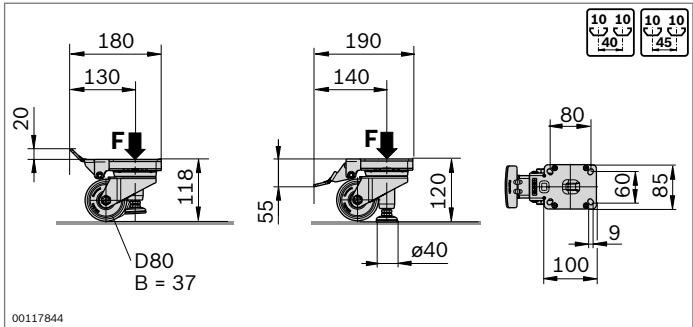
Lifting wheel



- Steerable lifting wheel
- The wheel turns into a stable base simply by engaging the stop lever
- Screw-on plate for mounting the lifting wheel
- With “Ideal-Stop”: locking lever does not swivel with the caster wheel but remains in the defined position. The locking lever is fixed in position on the frame by means of the screw-on plate, and the caster wheel moves freely

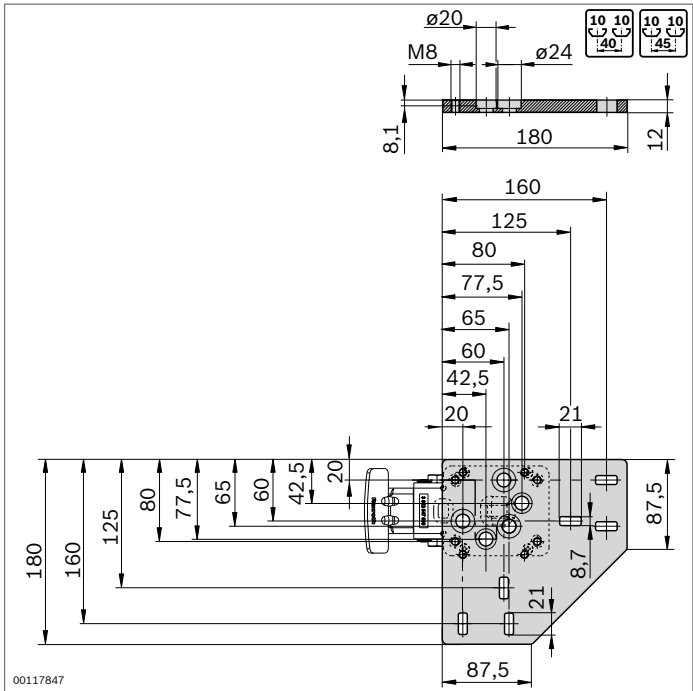
Required accessories:

- Screw M8x35 (ISO 4762), washer A8.4 (DIN 125), locking washer 8 FSt for attaching to the screw-on plate
- T-bolt M8x30 (p. 3-6), flange nut M8 (p. 3-6), central bolt M12 or S12 (p. 3-38) for fastening the screw-on plate to the profile frame



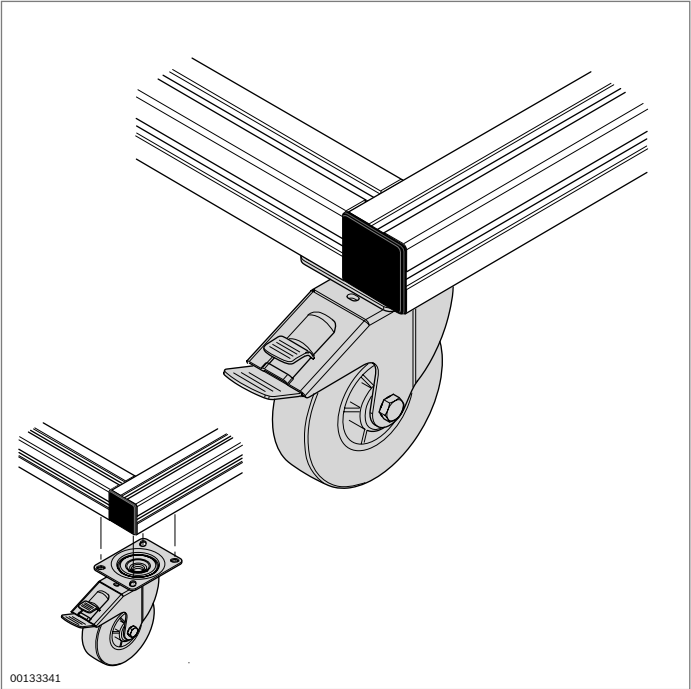
Lifting wheel	F (N)	No.
	2300	3 842 547 890

Material: Wheel: PA6, natural white
Housing: steel, galvanized
Base plate: rubber; gray



Screw-on plate	No.
4	3 842 536 902

Material: Steel, galvanized

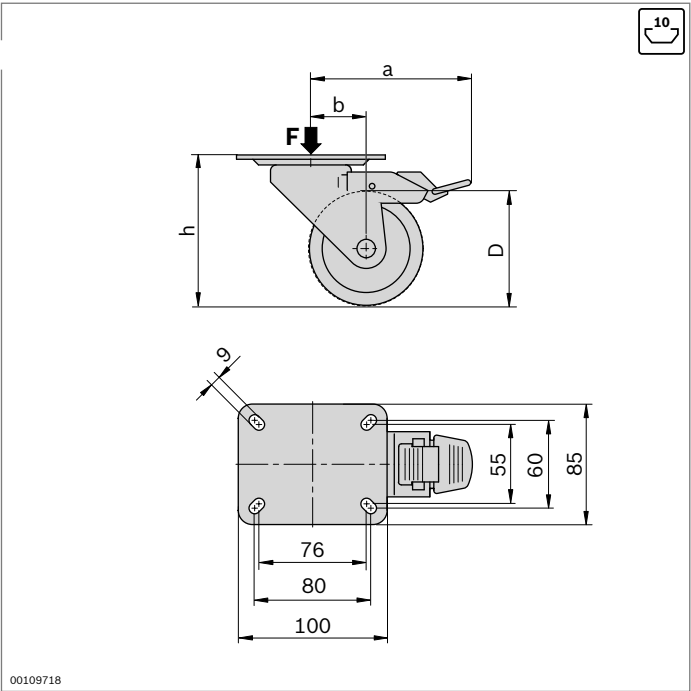


Wheel with mounting flange



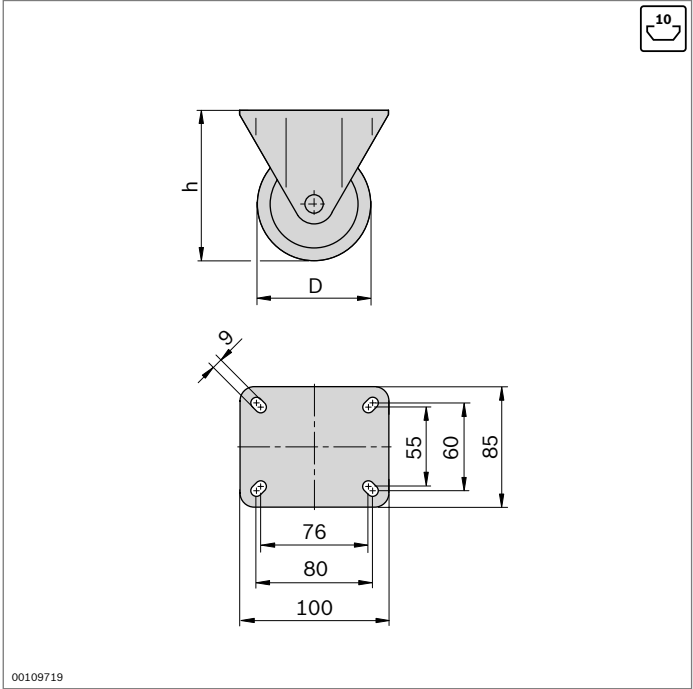
- Robust rollers with mounting flange
- Excellent running properties, particularly suitable for workshop floors
- Available as a caster wheel with lock and as a trestle wheel
- Caster wheel with lock prevents the wheel from rolling or turning

6



Caster wheel	F (N)	D	h	a	b	No.
		(mm)	(mm)	(mm)	(mm)	
	600	100	125	113	36±2	3 842 259 790
	900	125	150	123	40±2	3 842 259 791

Material: Wheel: solid rubber
Rims: polypropylene
Housing: sheet steel; galvanized



FS1

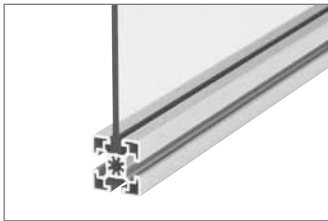
- ISO 4762
- M8x16
- 8-FSt
- DIN 125, 8,4
- M8

Trestle wheel	F (N)	D (mm)	h (mm)	No.
	600	100	125	3 842 259 792
	900	125	150	3 842 259 793

Material: Wheel: solid rubber
Rims: polypropylene
Housing: sheet steel; galvanized

Fastening kit	No.	FS
	3 842 259 794	3xFS1

Support of surface elements



Mounting rim profile (p. 7-2)



Mounting rim profile Clean
(p. 7-3)



Protective pane profile, PVC
(p. 7-4)



Protective pane profile for
cleanroom (p. 7-5)



Variofix block (p. 7-6)
Variofix block S (p. 7-7)



Bracket S (p. 7-8)



Retainer ring (p. 7-9)



Cover strip profile (p. 7-10)



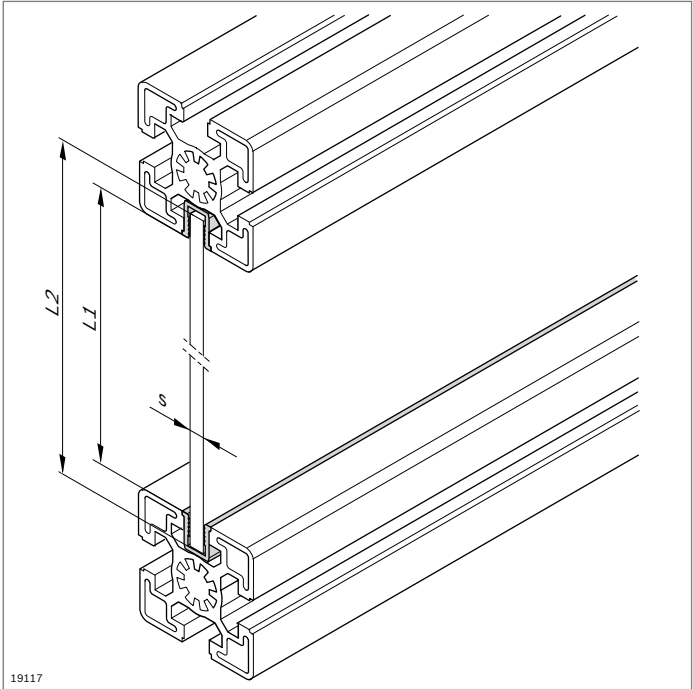
Potential equalizer (p. 7-11)



Protective grille profile
(p. 7-12)



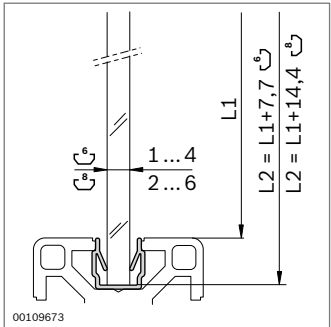
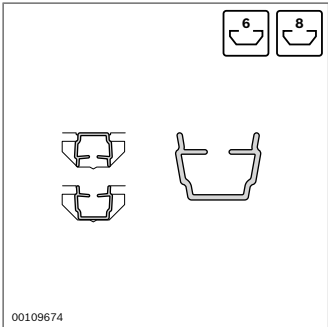
Clamp bushing (p. 7-13)



Mounting rim profile

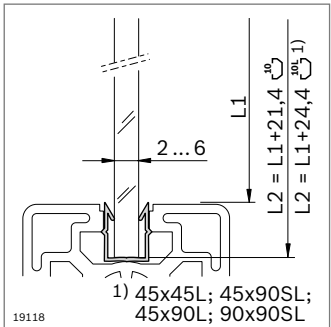
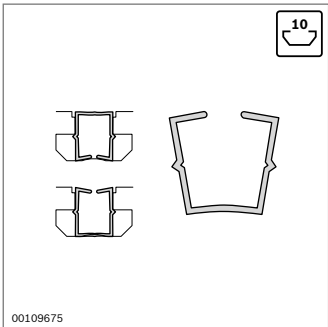


- For the secure attachment of surface elements in the profile slot
- For surface elements up to 6 mm thick
- Installation during frame assembly
- Mounting rim profiles PP can also be used as cover profiles



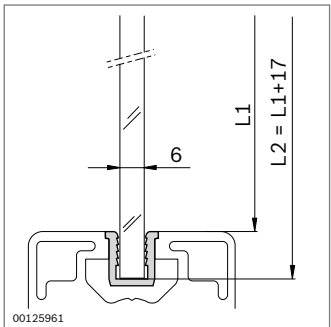
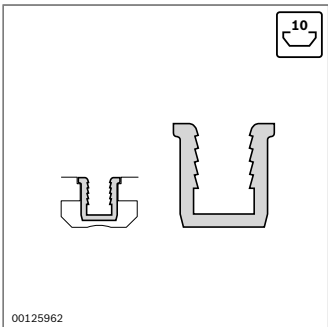
Mounting rim profile	Slot	s (mm)	L (mm)	No.
	6	1 ... 4	2000	3 842 518 343
	8	2 ... 6	2000	3 842 518 347

Material: PP; black



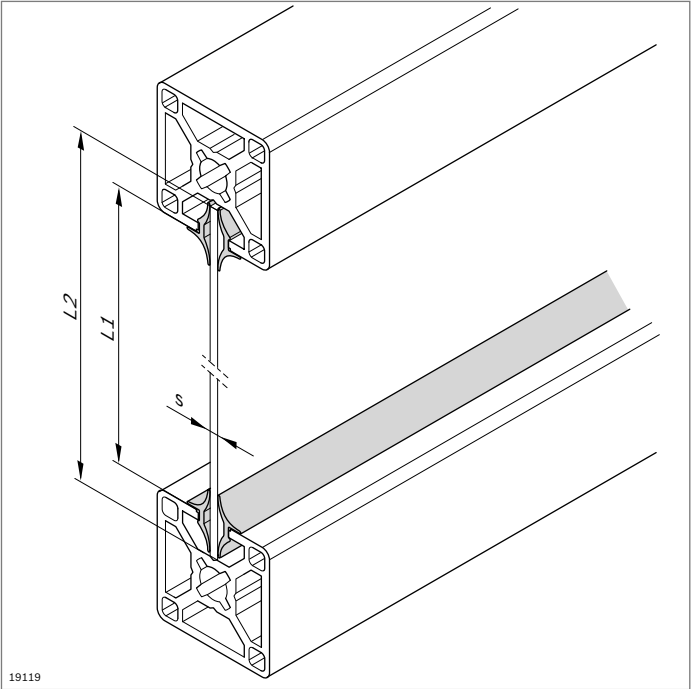
Mounting rim profile	Slot	s (mm)	L (mm)	No.
	10	2 ... 6	2000	3 842 518 351

Material: PP; black

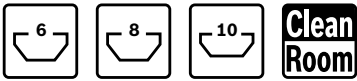


Mounting rim profile	Slot	s (mm)	L (mm)	No.
	10	6	2000	3 842 146 906

Material: PE; black

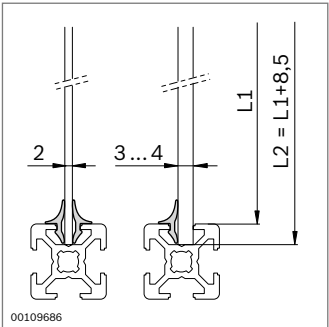
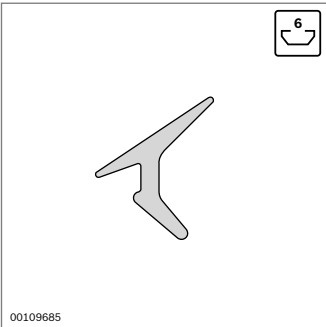


Mounting rim profile Clean

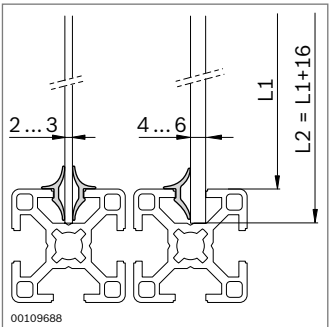
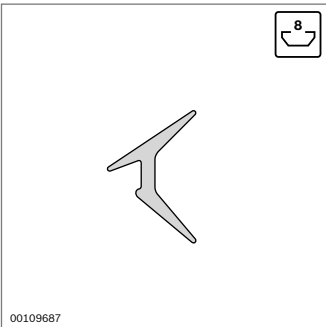


- For the secure attachment of surface elements in the profile slot
- For surface elements with a thickness of 2 to 8 mm
- For use on one or two sides of the mounting rim profile, depending on the surface element thickness
- Installation during profile frame assembly
- Suitable for use under cleanroom conditions
- Assessment of highly volatile organic emissions at room temperature, 50 °C and 120 °C, Report No. BO 9903-160

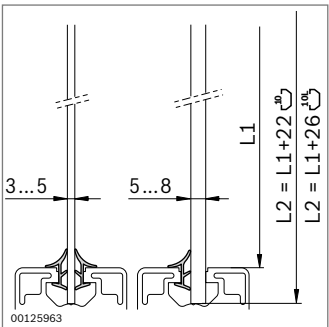
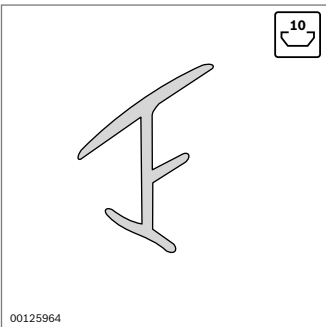
7



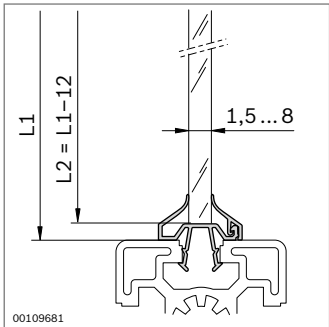
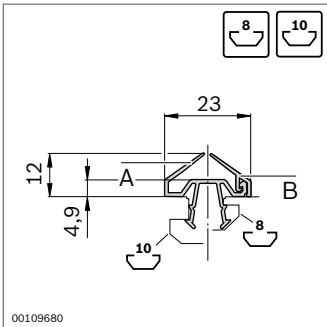
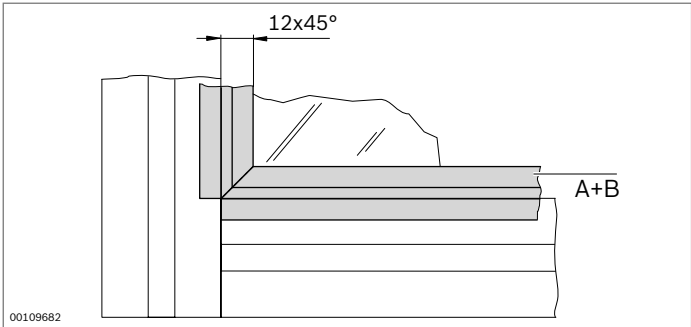
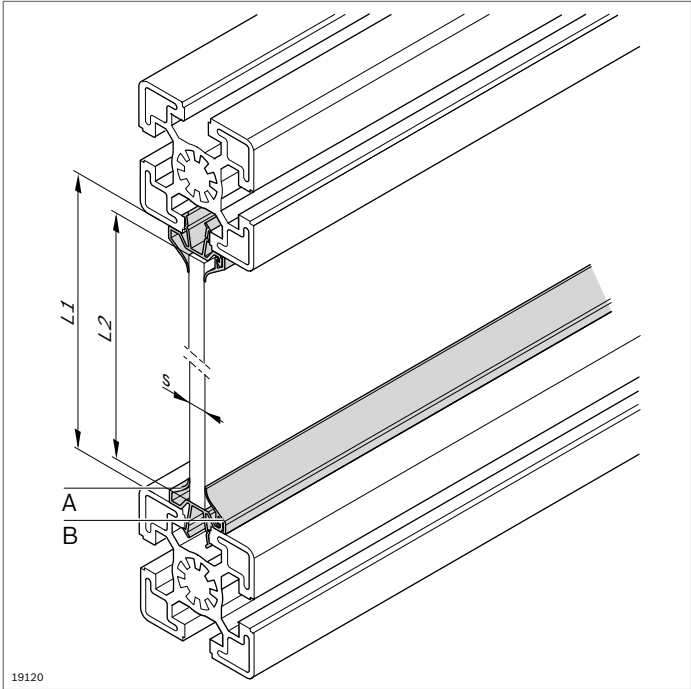
Mounting rim profile Clean	Slot	s (mm)	L (mm)	No.
	6	2 ... 4	10000	3 842 523 493
Material:	TPE; light gray RAL 7035			



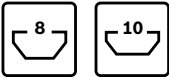
Mounting rim profile Clean	Slot	s (mm)	L (mm)	No.
	8	2 ... 6	10000	3 842 523 494
Material:	TPE; light gray RAL 7035			



Mounting rim profile Clean	Slot	s (mm)	L (mm)	No.
	10	3 ... 8	10000	3 842 548 949
Material:	TPE, light gray RAL 7035			



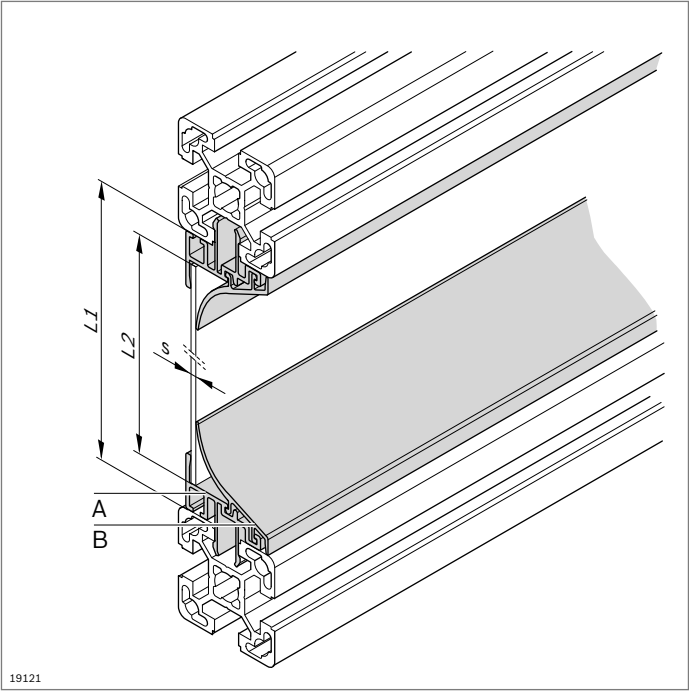
Protective pane profile, PVC



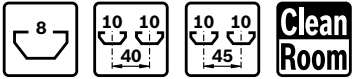
- For the secure attachment of surface elements
- For surface elements with a thickness of 1.5 to 8 mm
- For subsequent installation in closed frame constructions
- Installation of surface elements at center of slot
- The protective pane profile consists of the basic profile (**A**) and the clip strip (**B**)
- With lip seals to protect the working space from splashing liquids

Protective pane profile, PVC	Slot	s (mm)	L (mm)		No.
A Base profile	8, 10	1.5 ... 8	2000	10	3 842 519 565
B Clip strip	8, 10	1.5 ... 8	2000	10	3 842 519 567

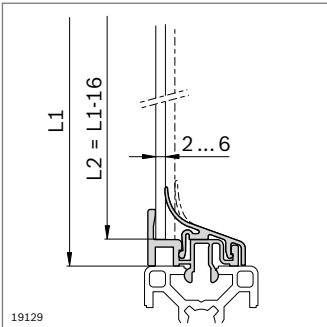
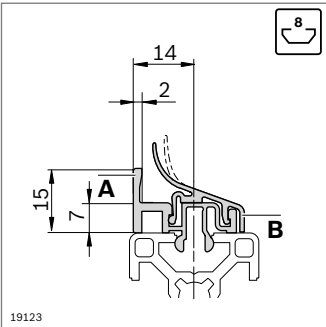
Material: PVC; black



Protective pane profile Clean

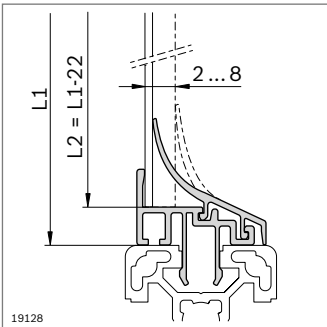
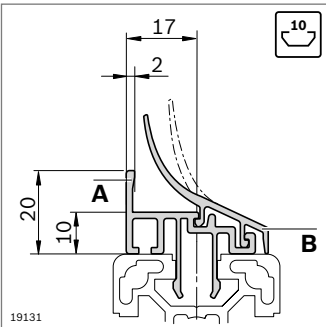


- For the secure attachment of surface elements
- For surface elements with a thickness of 1.5 to 8 mm
- For subsequent installation in closed frame constructions
- Installation of surface elements flush with the profile edge
- The protective pane profile consists of the basic profile (A) and the clip-on strip (B). Both profiles are required for proper functioning.
- Suitable for use under cleanroom conditions
- Assessment of highly volatile organic emissions at room temperature, 50 °C and 120 °C, Report No. BO 9903-161



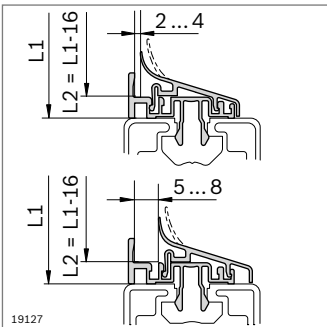
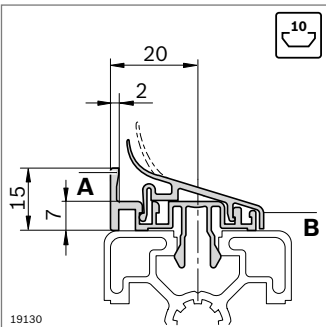
Protective pane profile	Slot	s (mm)	L (mm)		No.
A Basic profile	8	2 ... 6	2000	10	3 842 524 025
B Clip strip	8	2 ... 6	2000	10	3 842 524 026

Material: Base profile: aluminum, anodized
Clip strip: PP/TPE; light gray RAL 7035



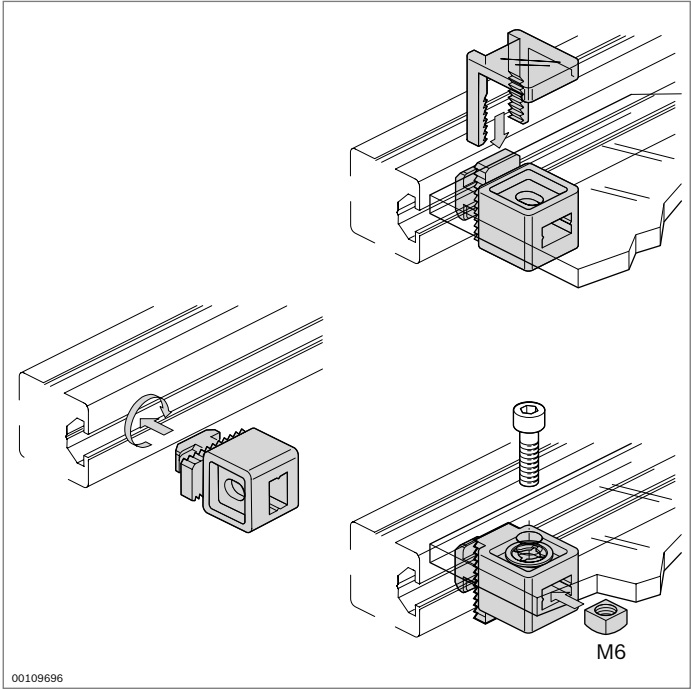
Protective pane profile	Slot	s (mm)	L (mm)		No.
A Basic profile	10	2 ... 8	2000	10	3 842 529 761
B Clip strip	10	2 ... 8	2000	10	3 842 529 762

Material: Base profile: aluminum, anodized
Clip-on strip: PP/TPE; light gray RAL 7035

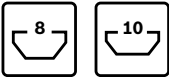


Protective pane profile	Slot	s (mm)	L (mm)		No.
A Basic profile	10	2 ... 8	2000	10	3 842 524 027
B Clip strip	10	2 ... 8	2000	10	3 842 524 028

Material: Basic profile: aluminum, anodized
Clip strip: PP/TPE; light gray RAL 7035



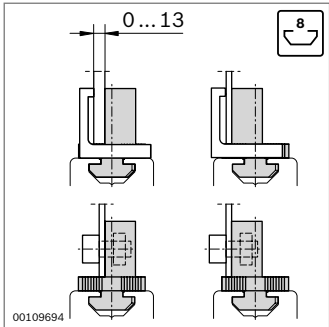
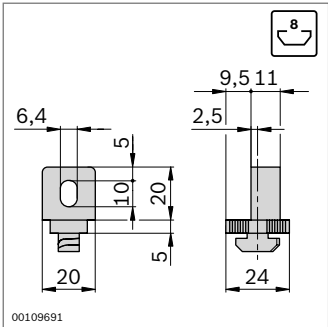
Variofix Block



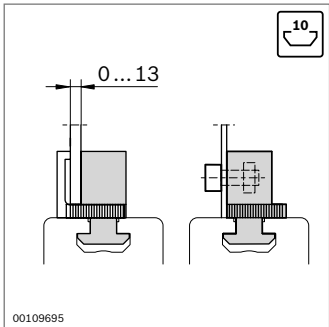
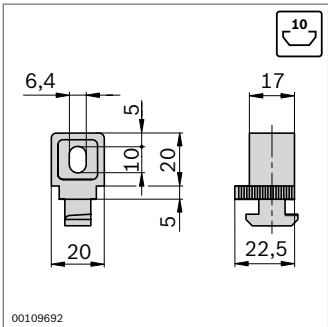
- For surface elements up to 13 mm thick
- For subsequent installation in closed frame constructions
- Asymmetrical form enables fastening of surface elements in two different positions
- Clamping via snap-in clips or screw fitting with square nut M6 (included in scope of delivery) and screw
- Retainer ring for connecting the screw to the surface element (Machinery Directive 2006/42/EC)

Accessories:

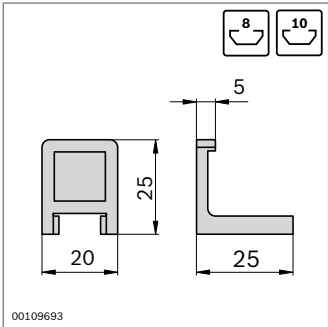
- Variofix remover (p. 14-7)
- Screw for fitting with square nut



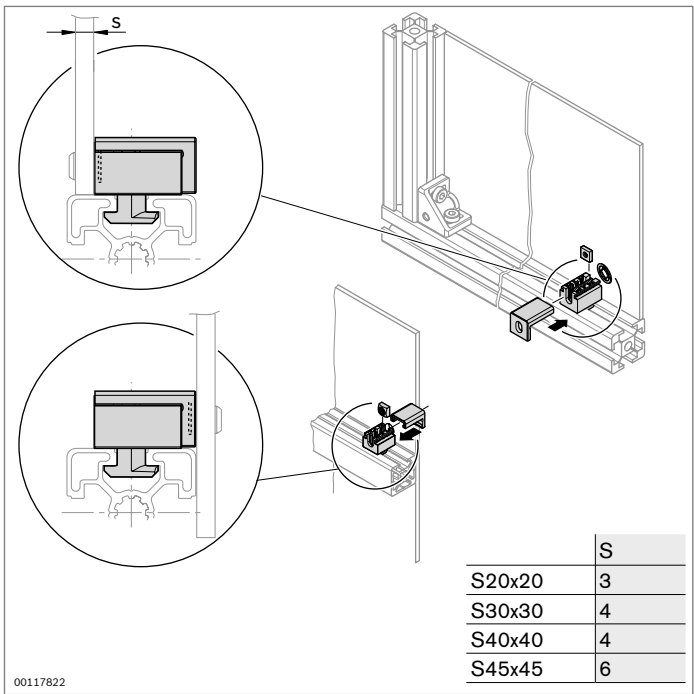
Variofix block	Color	Slot	No.
	Signal gray	8	10
Material:	PP		
Scope of delivery:	Square nut: steel, galvanized		
	Incl. square nut		



Variofix block	Color	Slot	No.
	Signal gray	10	10
Material:	PP		
Scope of delivery:	Square nut: steel, galvanized		
	Incl. square nut M6, retainer ring M6		



Snap-in clip	No.
	10
Material:	PA; colorless



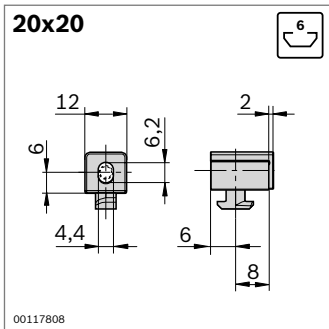
Variofix S Block



- For virtually gap-free surface element mounting
- For subsequent installation in closed frame constructions
- The asymmetrical design and cap enable variable mounting positions for the surface elements: flush with the profile edge or situated in front of the profile
- Retainer ring for connecting the screw to the surface element (Machinery Directive 2006/42/EC)

Required accessories:

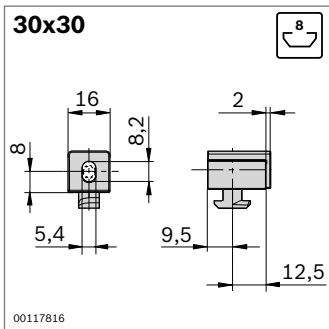
Screw for fastening the surface element



Variofix S block	Color	Slot	No.
20x20	Signal gray	6	10 3 842 548 836

Material: PP
Square nut: steel, galvanized

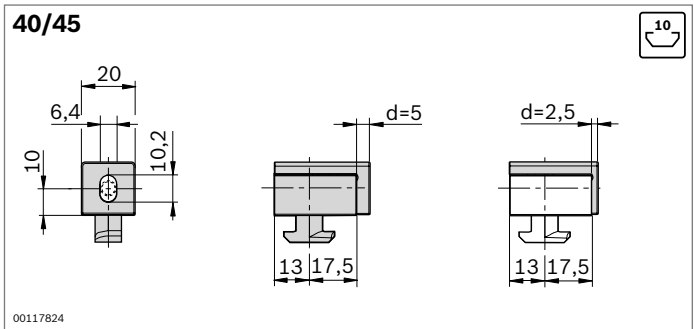
Scope of delivery: Incl. square nut M4, cap



Variofix S block	Color	Slot	No.
30x30	Signal gray	8	10 3 842 548 838

Material: PP
Square nut: steel, galvanized

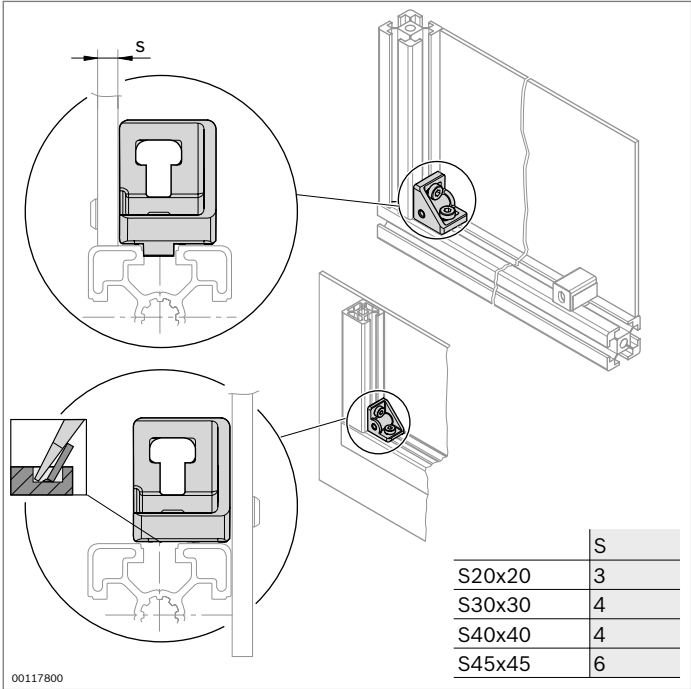
Scope of delivery: Incl. square nut M5, cap, retainer ring



Variofix block S	Color	Slot	No.
40/45	Signal gray	10	10 3 842 548 840

Material: PP
Square nut: steel, galvanized

Scope of delivery: Incl. square nut M5, 2 x cap (d = 2.5 mm; d = 5 mm), retainer ring



Bracket S

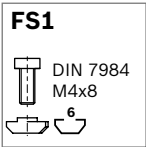
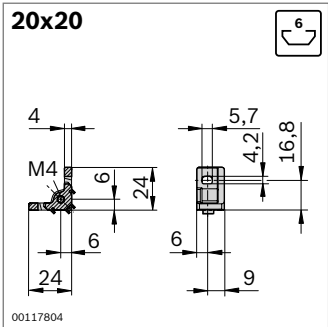


- ▶ Bracket with thread for virtually gap-free mounting of surface elements
- ▶ For subsequent installation in closed frame constructions
- ▶ Surface elements can be mounted in different positions: flush with the profile edge or situated in front of the profile (by breaking off the centering lug)

Required accessories:
 Screw for fastening the surface element

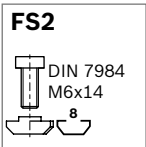
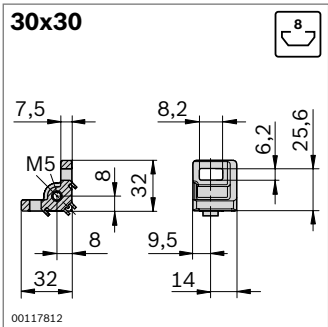
Accessories, optional:

- ▶ Variofix S block (p. 7-7)
- ▶ Retainer ring (p. 7-9)



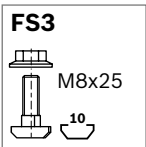
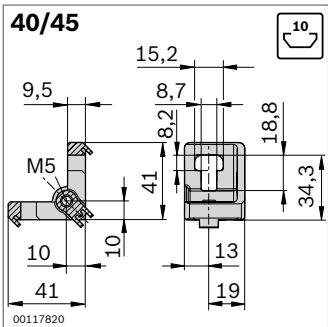
Bracket S	Slot		No.	FS
20x20	6	20	3 842 536 489	
20x20 set	6	1	3 842 536 670	2xFS1

Material: Diecast aluminum
 Fastening material: steel, galvanized
 Scope of delivery: Set incl. fastening material (FS)



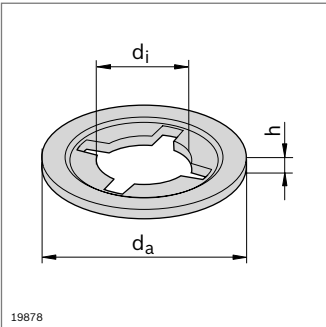
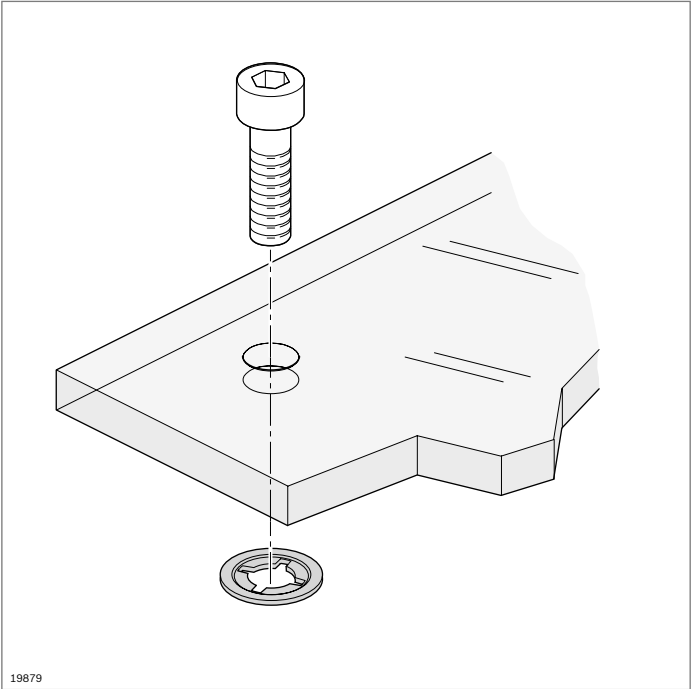
Bracket S	Slot		No.	FS
30x30	8	20	3 842 536 490	
30x30 set	8	1	3 842 536 671	2xFS2

Material: diecast aluminum
 Fastening material: steel, galvanized
 Scope of delivery: Set incl. fastening material (FS)



Bracket S	Slot		No.	FS
40/45	10	20	3 842 536 491	
40/45 set	10	1	3 842 536 672	2xFS3

Material: diecast aluminum
 Fastening material: steel, galvanized
 Scope of delivery: Set incl. fastening material (FS)



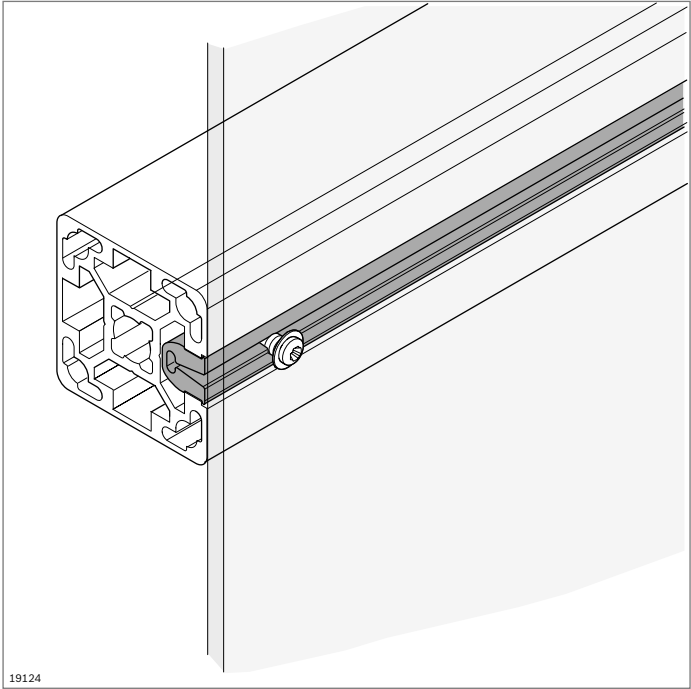
Retainer ring

- Secures the fastening screw to the surface element
- For use with all Variofix blocks, but not for the S bracket
- Retrofitting possible
- For various thread sizes

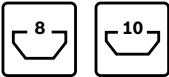
7

Retainer ring	d _a (mm)	d _i (mm)	h (mm)		No.
M4	9.0	3.4	1.0	100	3 842 542 328
M5	10.0	4.5	1.0	100	3 842 542 329
M6	12.5	5.5	1.5	100	3 842 542 330

Material: PA; black



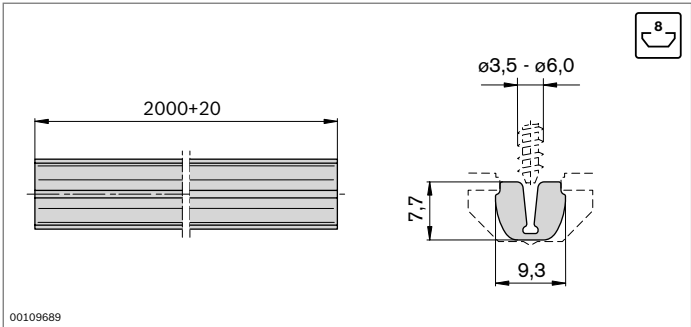
Cover strip profile



- Cover strip profile for fastening surface elements using commercially available sheet metal screws
- Clipping the cover strip profile into the profile slot
- Inexpensive connection element

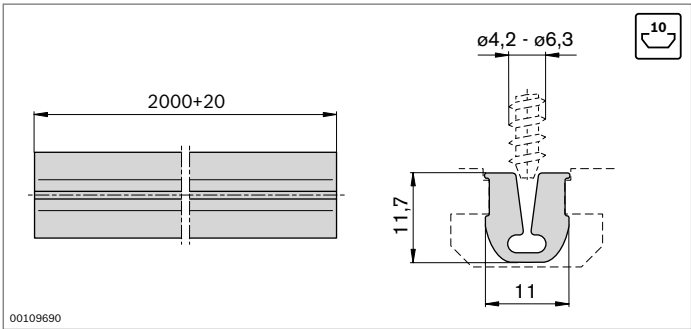
Required accessories:

Sheet metal screws for fastening surface elements



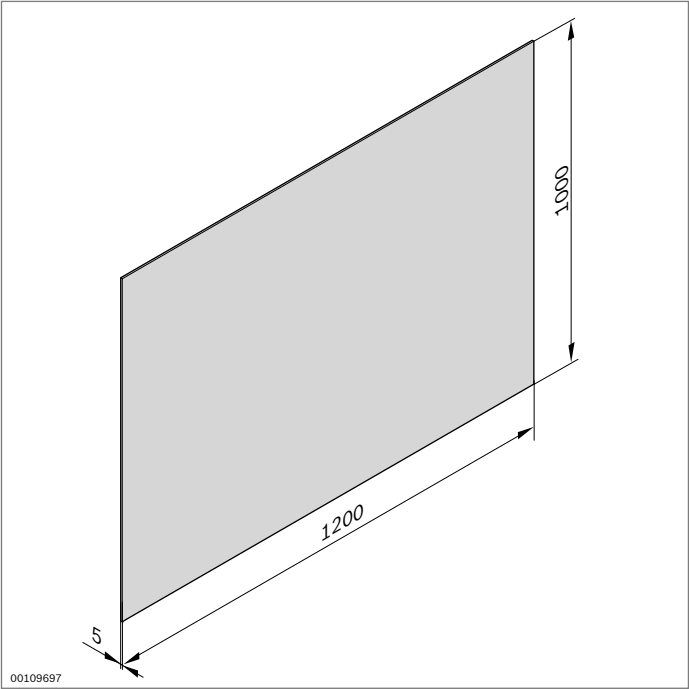
Cover strip profile	Slot	L (mm)	No.
	8	2000	3 842 524 069

Material: PVC, light gray RAL 7035



Cover strip profile	Slot	L (mm)	No.
	10	2000	3 842 524 072

Material: PVC, light gray RAL 7035



Universal plate

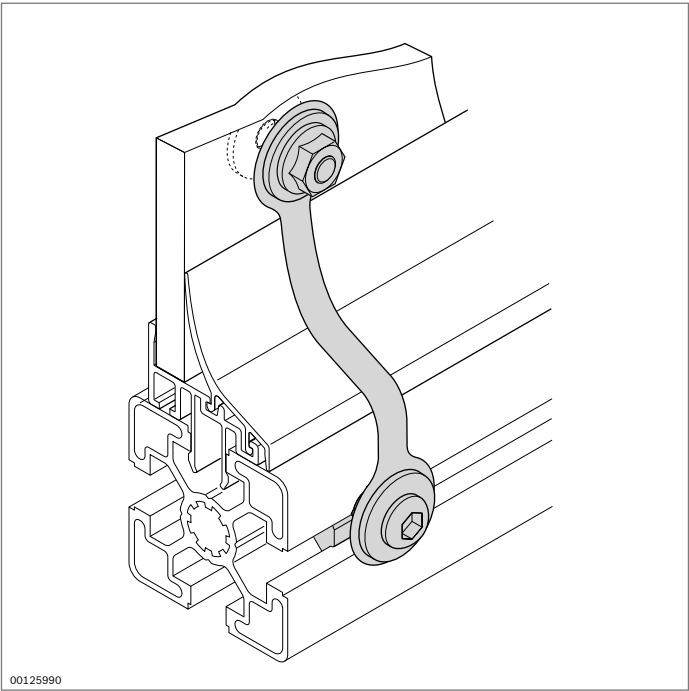


- For the construction of tablets, material shuttles, or privacy shields on tables or frames

Accessories:
Frame profile, support of surface elements

Universal plate	ESD	No.
PP		3 842 516 837
PS		3 842 516 838

Material: PP: gray, smooth on one side, grained on the other
PS: black, smooth on both sides



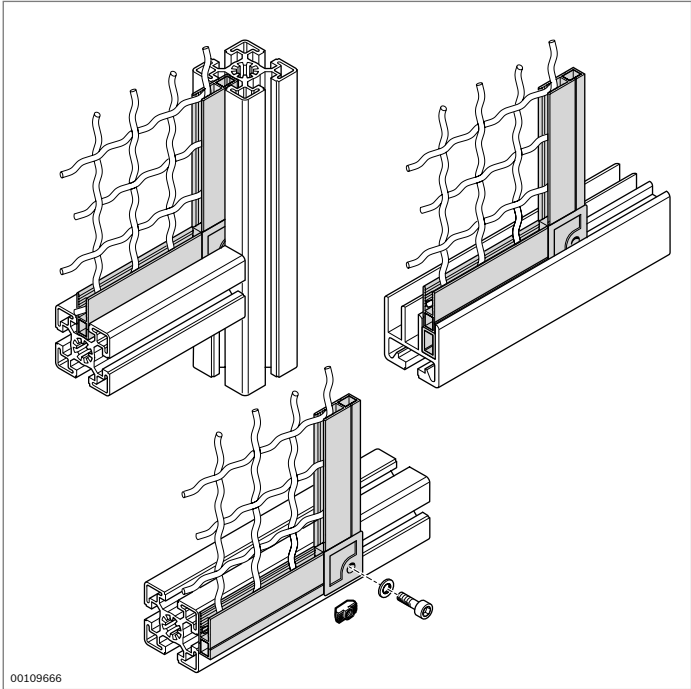
Potential equalizer



- To establish a defined electrostatic conduction between surface elements and strut profiles

Potential equalizer	ESD		No.
		10	3 842 536 148

Material: Strip steel, stainless
Fastening material: steel, galvanized
Scope of delivery: Incl. fastening material



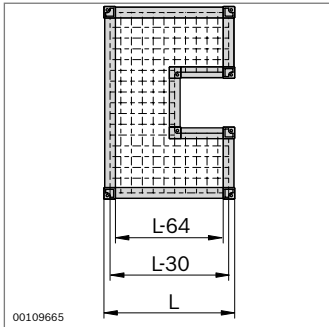
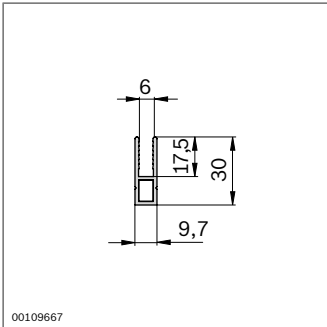
Protective grille profile



- For constructing frames for woven wire grilles or surface elements
- For woven wire grilles with a wire diameter up to 3.1 mm
- For surface elements up to 6 mm thick
- Screw fitting of frame to the outside of strut profiles (subsequent installation)
- For inserting the frame into the slot of a strut profile or a sliding door profile Al 45
- Corner pieces for inner and outer corners

Accessories, optional:

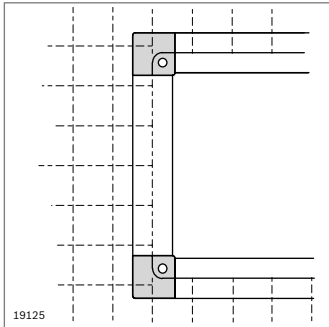
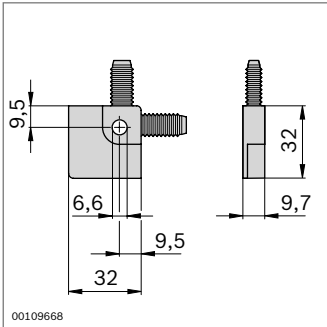
- T-nut M6 (p. 3-4)
- Screw M6



Protective grille profile	L (mm)		No.
	3000 ¹⁾	20	3 842 305 766

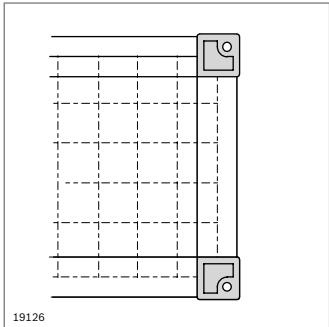
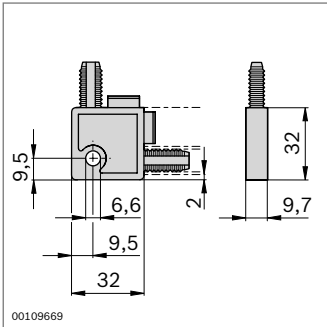
¹⁾ Due to the (anodic oxidation) contact points produced in the manufacturing process, supplied in profile length of 3100 mm

Material: aluminum, black anodized



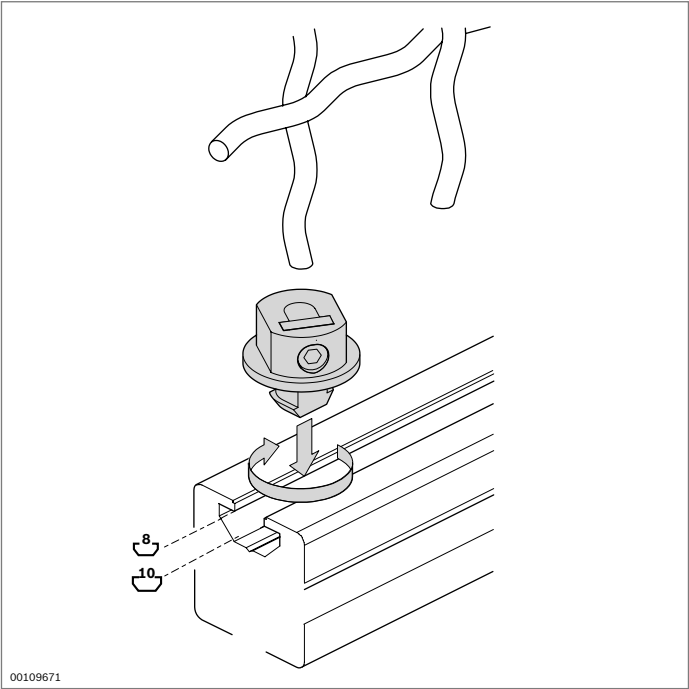
Inner corner piece		No.
	20	3 842 305 768

Material: PA; black

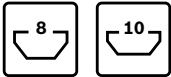


Outer corner piece		No.
	20	3 842 305 767

Material: PA; black

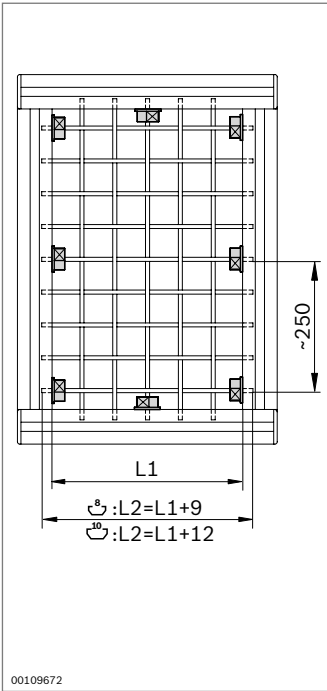
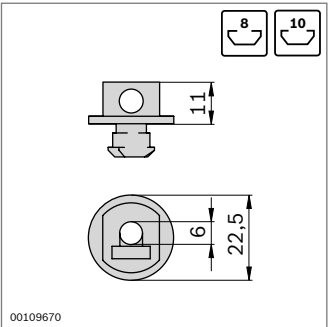


Clamp bushing



- For fastening woven wire grilles in the profile slot
- For woven wire grilles with a wire diameter up to 3.1 mm
- Suitable for 8 mm and 10 mm slots
- Inexpensive connection element
- Rattle-free attachment

7



Clamp bushing	Slot		No.	FS
	8, 10	100	3 842 515 244	FS1

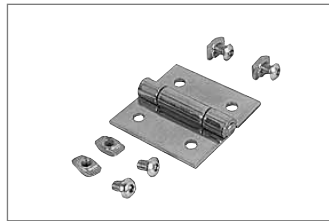
Material: Diecast zinc
Fastening material: steel, galvanized



Doors and fittings



Hinge profile (p. 8-3)



Hinge (p. 8-4)



Hinge, plastic (p. 8-5)



Hinge, aluminum (p. 8-6)



LIFTOFF hinge (p. 8-7)



Hinge, removable (p. 8-8)



Hinge, adjustable (p. 8-9)



Folding door element (p. 8-10)



Door lock for swing and sliding doors (p. 8-11)



Door lock (p. 8-12)



Door lock for EcoSafe sliding doors (p. 8-13)



Mortise lock, door handle (p. 8-14)



Door lock for swing doors
(p. 8-16)



Bow-shaped handle
(p. 8-17)



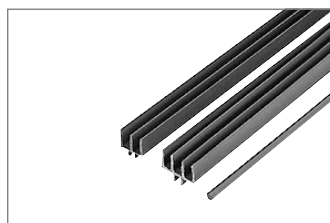
Safety handle (p. 8-18)



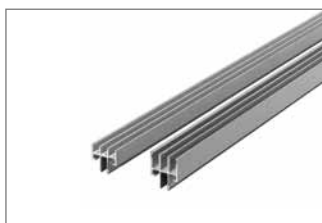
Sealing strip (p. 8-19)
Sealing profile (p. 8-20)



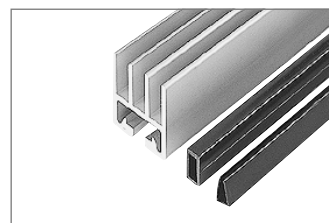
Slider (p. 8-21)



Sliding door profile PVC
(p. 8-22)



Sliding door profile Al clip
(p. 8-23)



Sliding door profile Al 45
(p. 8-24)



Edge protector, door handle
profile (p. 8-26)

Hinge profile



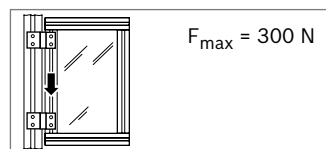
- ▶ For self-assembly of hinges or hinge bands
- ▶ Possible to use as a non-transparent hinge band to fully cover the door gap
- ▶ Hinge profiles for slot dimensions 30 and 40/45/50 can also be combined for maximum flexibility
- ▶ For doors with profile frames or doors made of solid surface elements
- ▶ Assembly on exterior or interior
- ▶ Assembly as removable and non-removable hinges
- ▶ Opening to the right and left
- ▶ Centering slots as a drill guide for mounting bores
- ▶ Required finishing:
 - cut the hinge halves to length
 - drill for fixing

Required accessories:

- ▶ hinge pins
- ▶ T-nut M6 (p. 3-4)
- ▶ screw ISO 10642 M6x12 (8 mm slot)
- ▶ screw ISO 10642 M6x16 (10 mm slot)

Hinge profile	L (mm)	No.
30	3000 10	3 842 543 371
40/45/50	3000 10	3 842 543 372

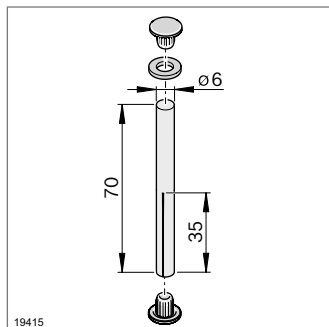
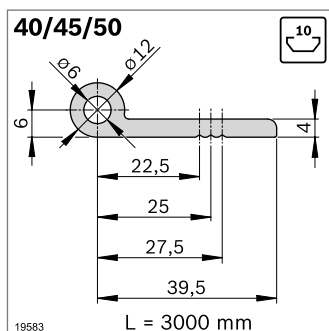
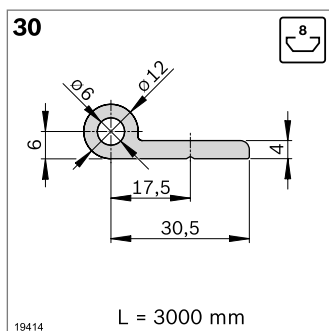
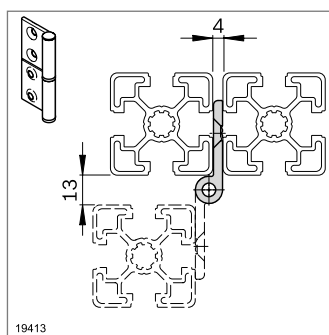
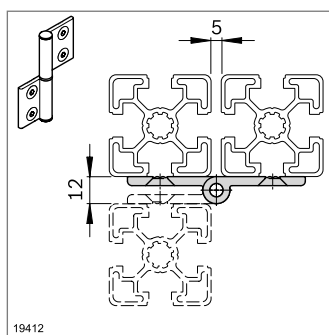
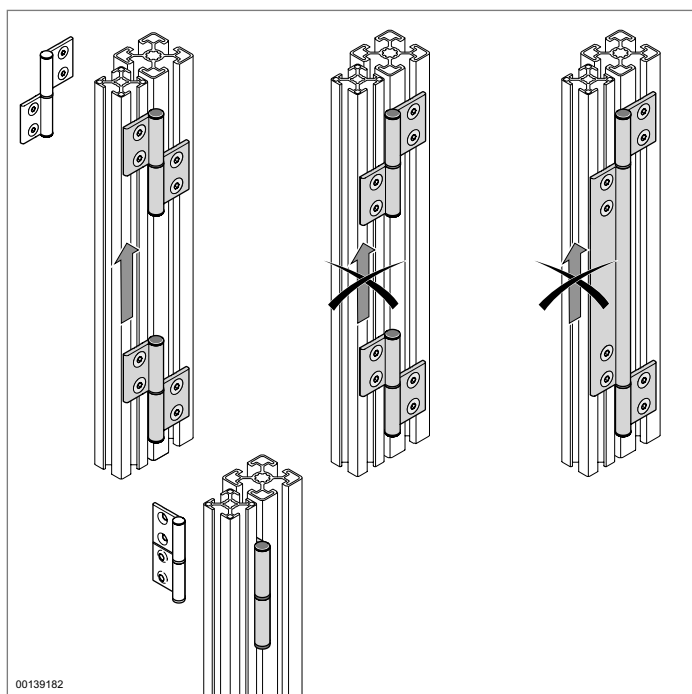
Material: Aluminum, anodized

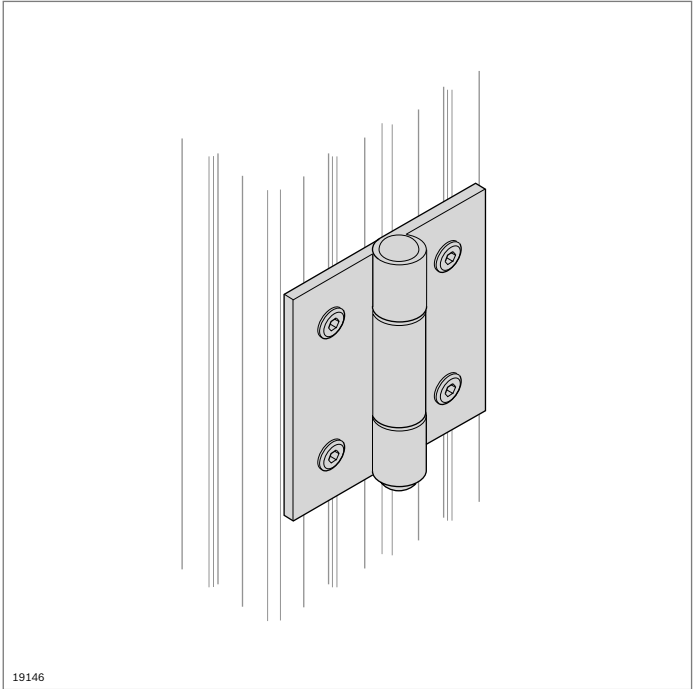


Hinge pins	No.
10	3 842 544 661

Material: Grooved pin: steel; galvanized
Washer, cap: PA

Scope of delivery: Incl. grooved pin, 2 x cap, washer

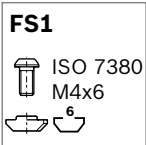
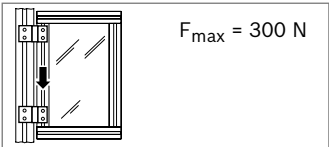
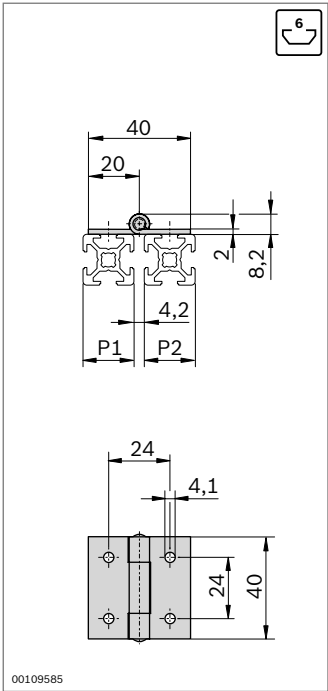




Hinge



- ▶ Assembly possible on solid surface elements
- ▶ For small doors and flaps
- ▶ Steel hinge for profiles with 6 mm slot

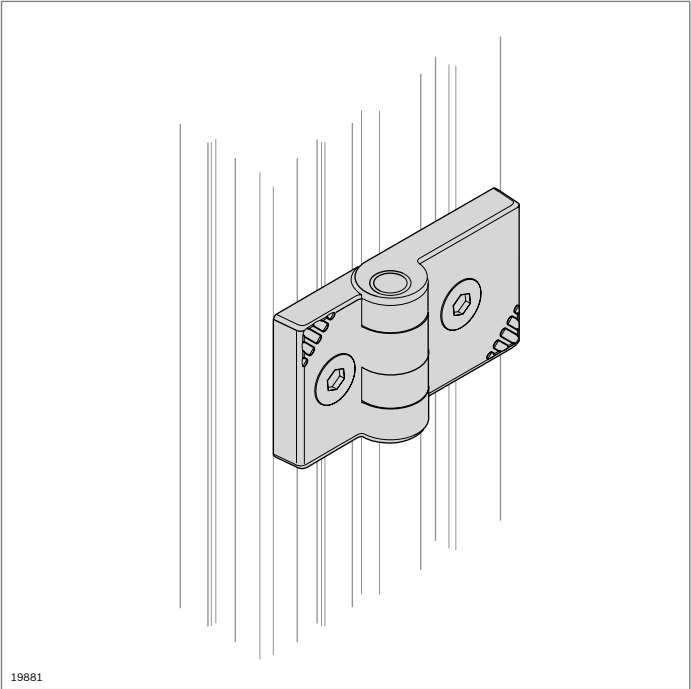


Hinge	P1 (mm)	P2 (mm)	ESD	No.	FS
	20	20		2 3 842 535 684	4xFS1

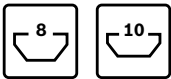
Material: Steel, stainless

Fastening material: steel; galvanized

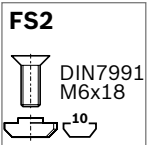
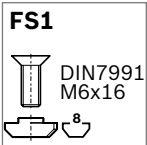
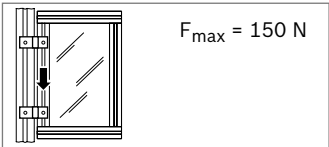
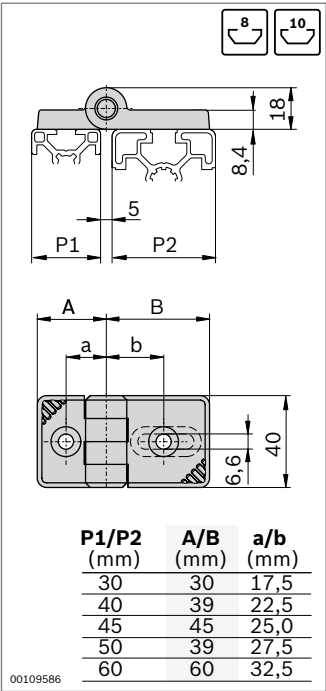
Scope of delivery: Incl. fastening material (FS)



Hinge, plastic



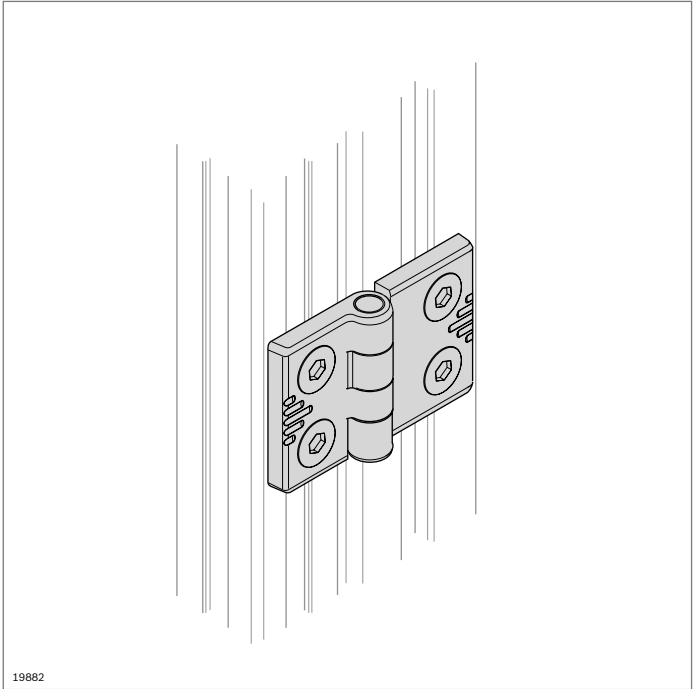
- ▶ Plastic hinge for profiles with 8 mm or 10 mm slot
- ▶ Assembly possible on solid surface elements
- ▶ Centering bolts for easy assembly and as a anti-torsion element



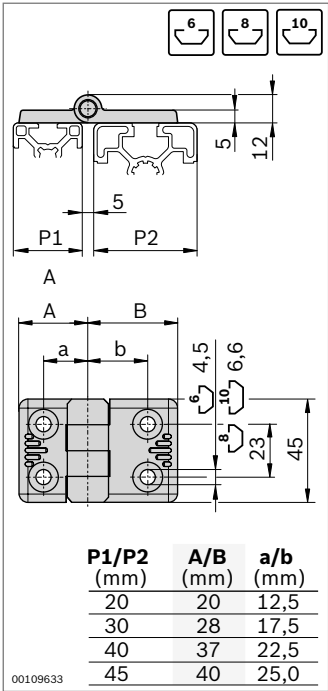
Hinge, plastic	P1 (mm)	P2 (mm)		No.	FS
	30	30	2	3 842 544 500	2xFS1
	30	40/50	2	3 842 544 501	1xFS1, 1xFS2
	30	45	2	3 842 544 502	1xFS1, 1xFS2
	30	60	2	3 842 544 503	1xFS1, 1xFS2
	40/50	40/50	2	3 842 544 504	2xFS2
	45	45	2	3 842 544 505	2xFS2
	45	60	2	3 842 544 506	2xFS2
	60	60	2	3 842 544 507	2xFS2

Material: PA; black
Hinge axle: steel; galvanized
Fastening material: steel; galvanized

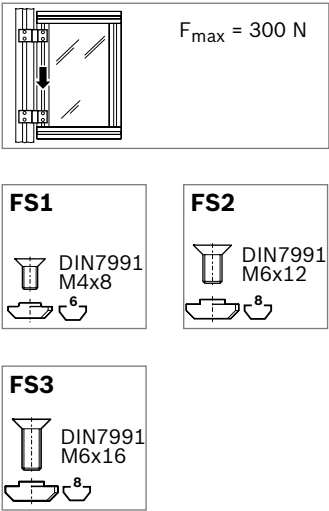
Scope of delivery: Incl. fastening material (FS)



19882



00109633



Hinge, aluminum



- ▶ Aluminum hinge for all slot systems
- ▶ Assembly possible on solid surface elements
- ▶ High-quality version
- ▶ Conductive version
- ▶ Suitable for use under cleanroom conditions thanks to wear-resistant guide bushings

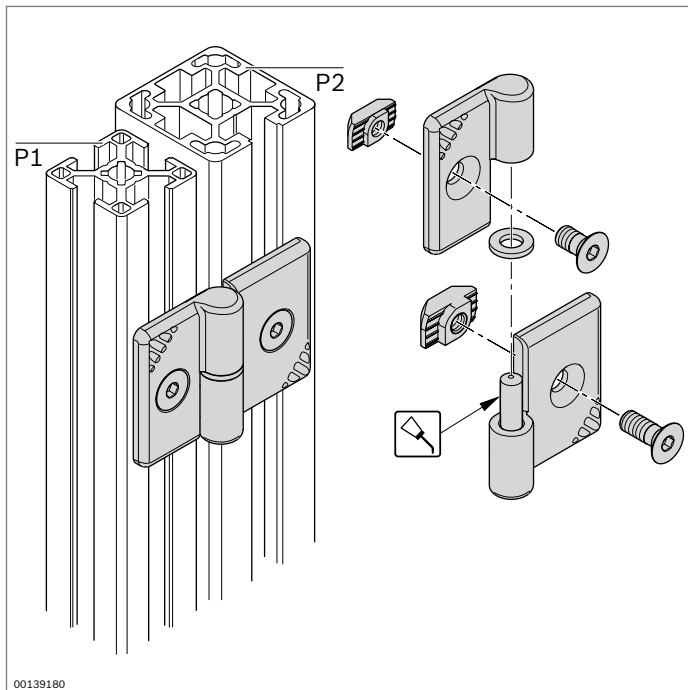
Hinge, aluminum	P1 (mm)	P2 (mm)	ESD	No.	FS
	20	20		2 3 842 544 525	4xFS1
	20	30		2 3 842 544 526	2xFS1, 2xFS2
	30	30		2 3 842 544 527	4xFS2
	30	40		2 3 842 544 528	2xFS2, 2xFS3
	30	45		2 3 842 544 529	2xFS2, 2xFS3
	40	40		2 3 842 544 530	4xFS3
	45	45		2 3 842 544 531	4xFS3

Material: Diecast aluminum; nickel-plated
Fastening material: steel; galvanized
Scope of delivery: Incl. fastening material (FS)

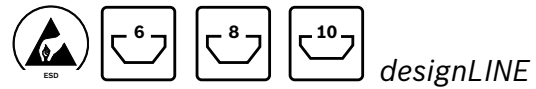
Fraunhofer

TESTED
DEVICE

Report No. BO 9903-159

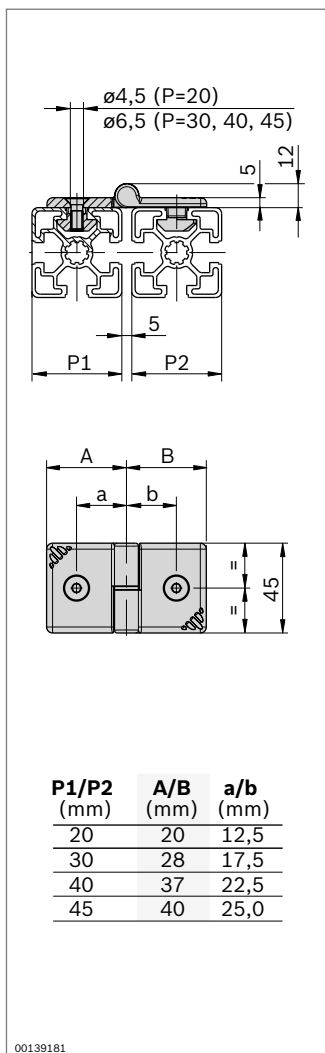


LIFTOFF hinge



- ▶ Removable compact hinge, opening to the right or left
- ▶ designLINE version with special silver paint (RAL 9006) for an attractive, high-quality design
- ▶ Centering lugs as an assembly aid and twist lock

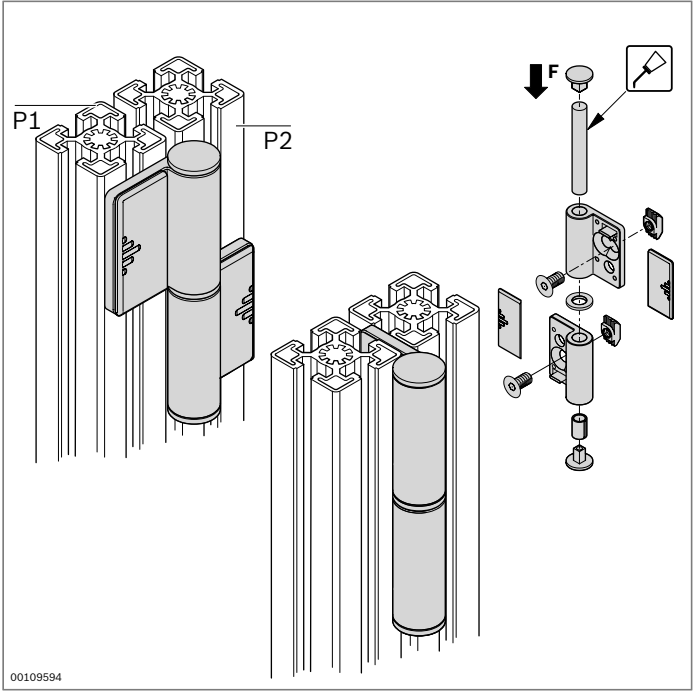
8



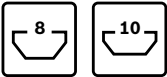
LIFTOFF hinge	P1 (mm)	P2 (mm)	No.	FS
right	20	20	2 3 842 543 334	2xFS1, FS4
	20	30	2 3 842 543 333	FS1, FS2, FS4
	30	30	2 3 842 543 332	2xFS2, FS4
	30	40	2 3 842 543 331	FS2, FS3, FS4
	30	45	2 3 842 543 330	FS2, FS3, FS4
	40	40	2 3 842 543 329	2xFS3, FS4
	45	45	2 3 842 543 328	2xFS3, FS4
left	20	20	2 3 842 543 327	2xFS1, FS4
	20	30	2 3 842 543 326	FS1, FS2, FS4
	30	30	2 3 842 543 325	2xFS2, FS4
	30	40	2 3 842 543 324	FS2, FS3, FS4
	30	45	2 3 842 543 323	FS2, FS3, FS4
	40	40	2 3 842 543 322	2xFS3, FS4
	45	45	2 3 842 543 321	2xFS3, FS4

Material: Hinge: diecast aluminum, painted
Fastening material: steel; galvanized
Grooved pin: steel; galvanized
Washer: PA

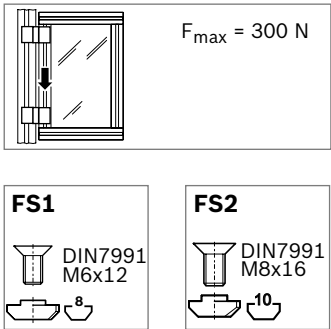
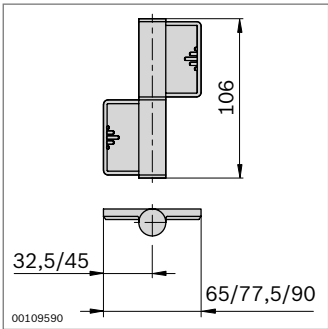
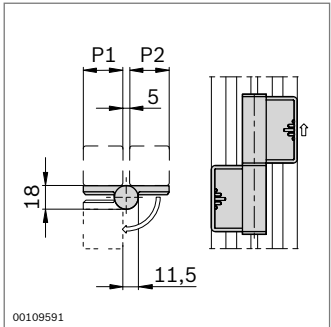
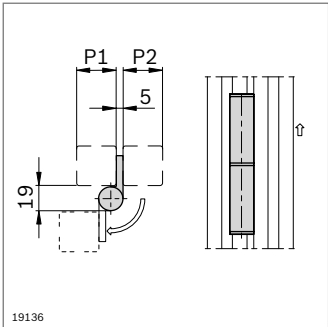
Scope of delivery: Incl. fastening material (FS)



Hinge, removable



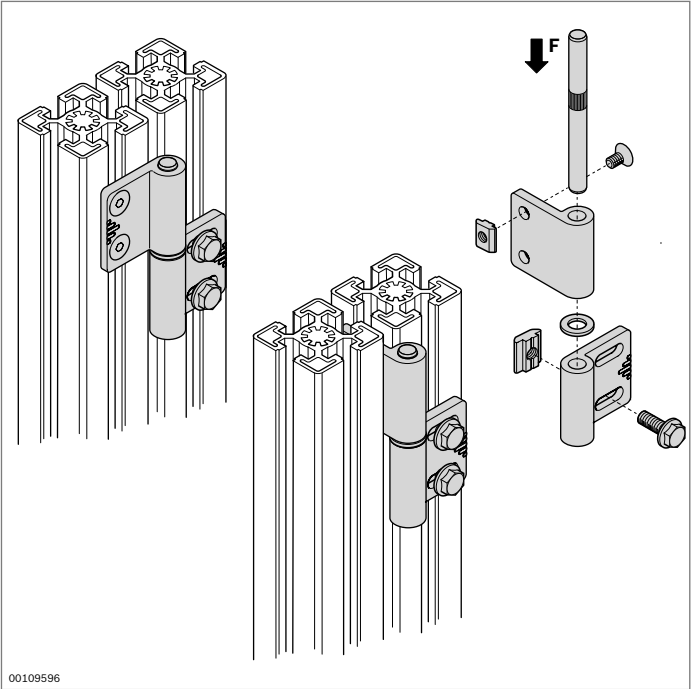
- For constructing large, heavy doors
- Removable
- For left and right stop
- Externally mounted: Opening angle approx. 180°
- Internally mounted: prevents removal by unauthorized persons, e.g. on protective barriers



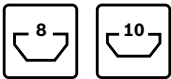
Hinge, removable	P1 (mm)	P2 (mm)	No.	FS
	30	30	2	3 842 544 552 2xFS1
	30	45	2	3 842 544 553 1xFS1,
	30 ¹⁾	60		1xFS2
	45	45	2	3 842 544 554 2xFS2
	45 ¹⁾	60		
	60 ¹⁾	60		

¹⁾ Not suitable for installing on inner side

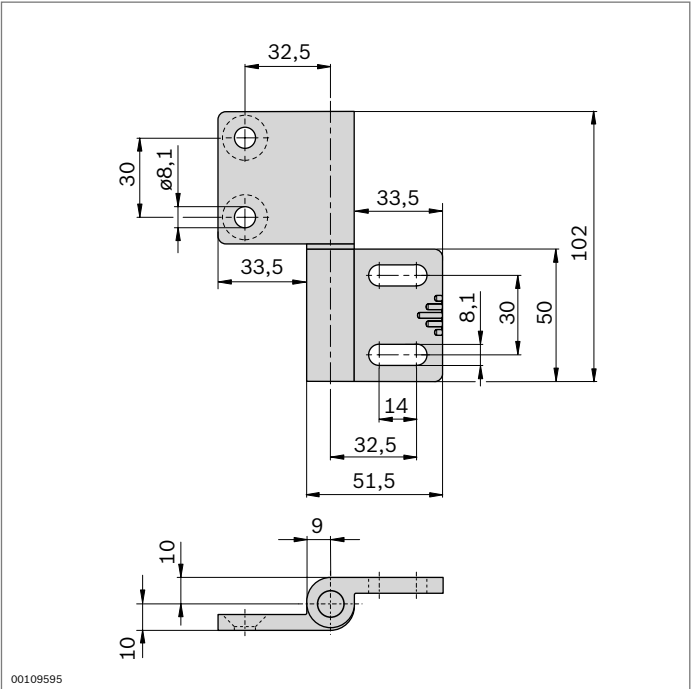
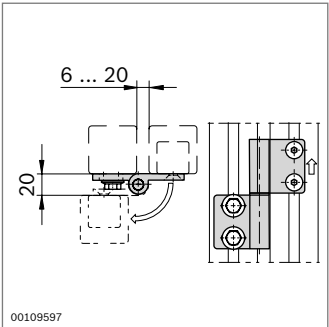
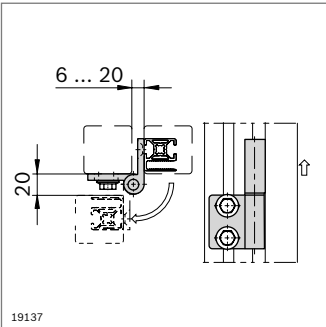
Material: Hinge: diecast zinc
Cap: PA; black
Fastening material: steel; galvanized
Scope of delivery: Incl. fastening material (FS), 2 x cap



Hinge, adjustable

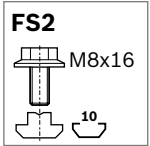
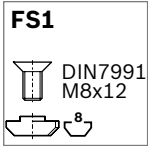
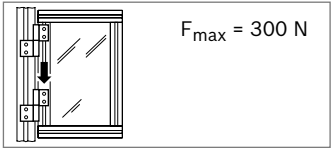


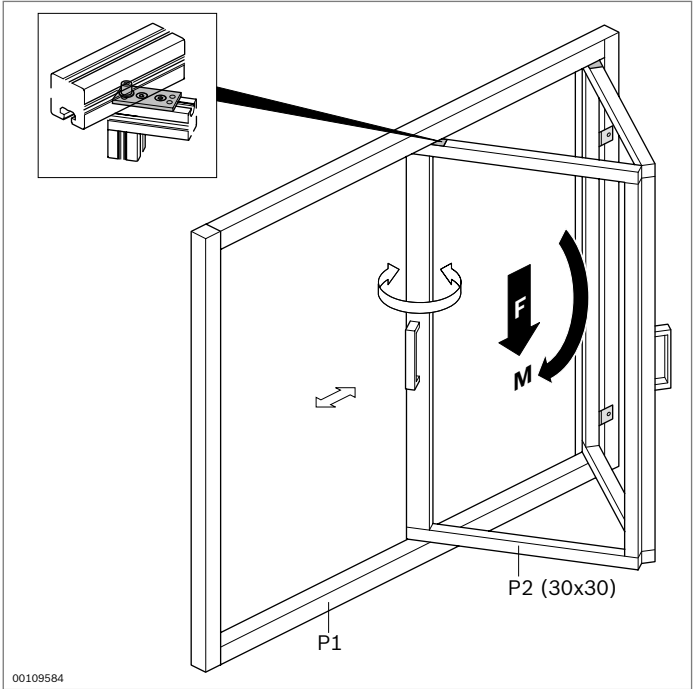
- For constructing large, heavy doors
- Adjustable for compensating clearance tolerances
- Removable
- For left and right stop
- Opening angle approx. 180°



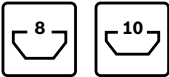
Hinge, adjustable	No.	FS
	2 3 842 544 562	2xFS1, 2xFS2

Material: Diecast aluminum
Fastening material: steel; galvanized
Scope of delivery: Incl. fastening material (FS)

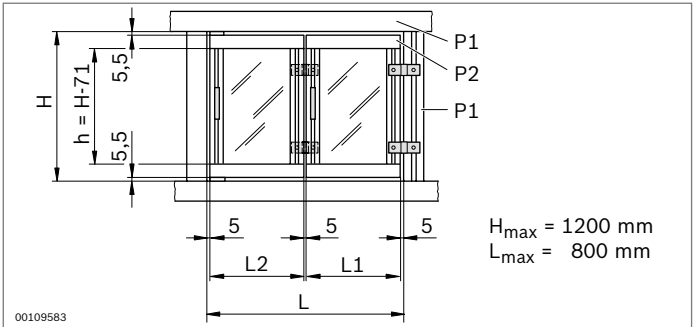




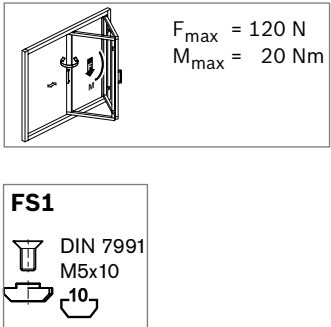
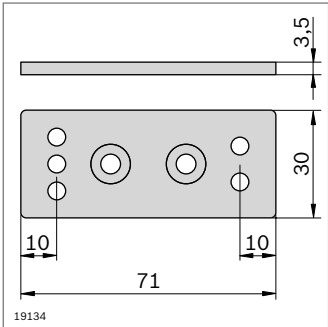
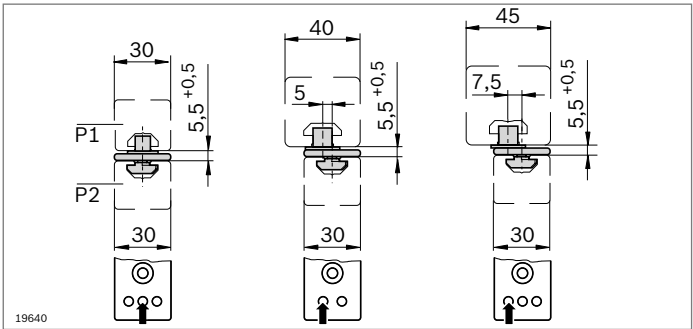
Folding door element



- For a simultaneous swinging and sliding action on folding doors made of 30 mm profiles
- Extremely long service life (approx. 50,000 actuations)
- Suitable for frames made of profiles with 8 mm and 10 mm slot
- The frame and door profile are always flush (the guide ring position depends on the thickness of the frame profile)



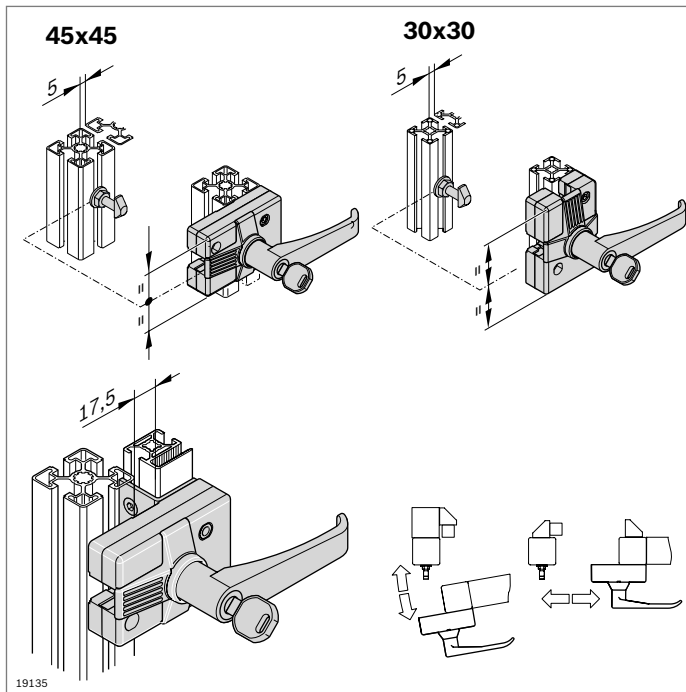
P2 (mm)	P1 (mm)	L1 (mm)	L2 (mm)
30X30	45x45	0.5L - 29.5	0.5L + 14.5
	40x40	0.5L - 28.3	0.5L + 13.3
	30x30	0.5L - 25.8	0.5L + 10.8



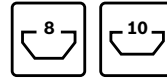
Folding door element	No.	FS
	3 842 516 715	2xFS1

Material: Folding door element: diecast zinc
Guide ring: PA; black
Fastening material: steel; galvanized

Scope of delivery: Incl. fastening material (FS)



Lock for swing and sliding doors

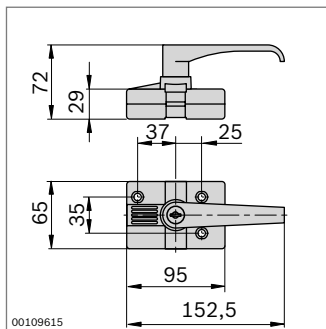


- Opening to the right and left
- Suitable for profiles 45x45 and 30x30
- “Standard locking” variant with random key selection (each lock has a different key)
- “Uniform locking” always uses the same key
- Version with door handle or as two-way lock

Accessories:

Adapter plate

8



FS1

ISO 4762
M6x30



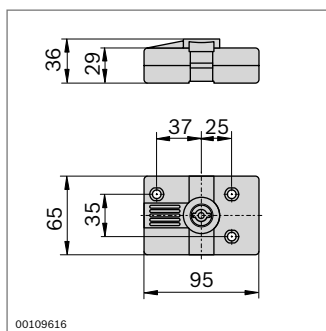
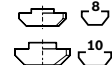
FS2

DIN 9021
A6,6
ISO 4032
M6



FS3

M6



FS1

ISO 4762
M6x30



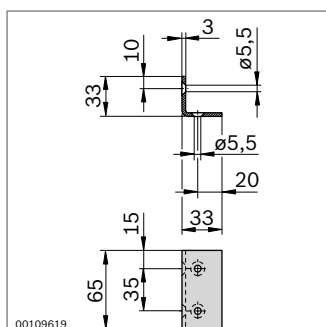
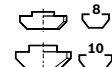
FS2

DIN 9021
A6,6
ISO 4032
M6



FS3

M6



FS4

DIN 7991
M6x10



FS5

DIN 7991
M6x30
ISO 4032
M6



Door lock	No.	FS
Standard locking	30x30, 45x45	3 842 525 821 2xFS1, 1xFS2, 3xFS3
Uniform locking	30x30, 45x45	3 842 525 822 2xFS1, 1xFS2, 3xFS3

Material: Housing: die-cast aluminum
Door handle: PA, black
Fastening material: steel; galvanized

Scope of delivery: Incl. 3 keys,
Fastening material (FS)

Door lock	No.	FS
	30x30, 45x45	3 842 525 823 2xFS1, FS2, 3xFS3

Material: Diecast aluminum
Fastening material: steel; galvanized

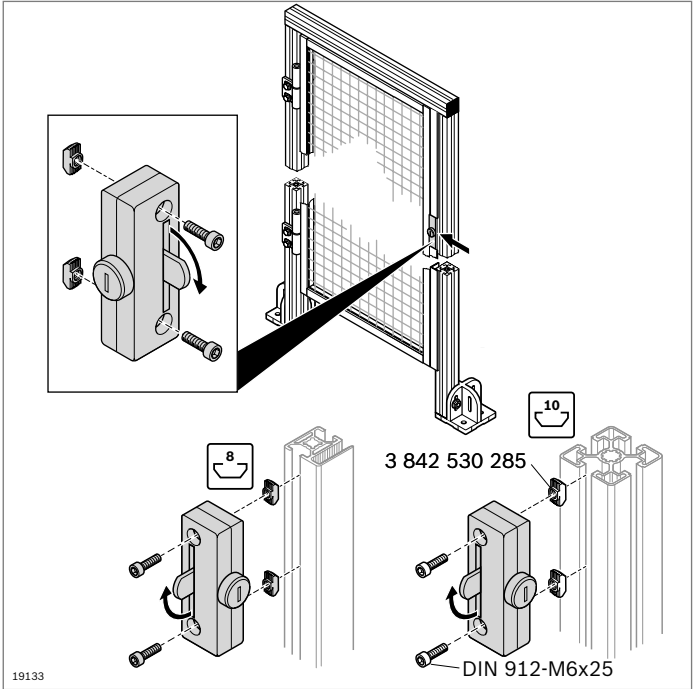
Scope of delivery: Incl. 1 x two-way key, fastening material (FS)

- Adapter plate for mounting the door lock on an EcoSafe protective frame (p. 10-4)

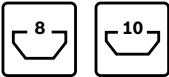
Adapter plate	No.	FS
	3 842 523 243	2xFS4, 2xFS5

Material: Steel, galvanized
Fastening material: steel; galvanized

Scope of delivery: Incl. fastening material (FS)



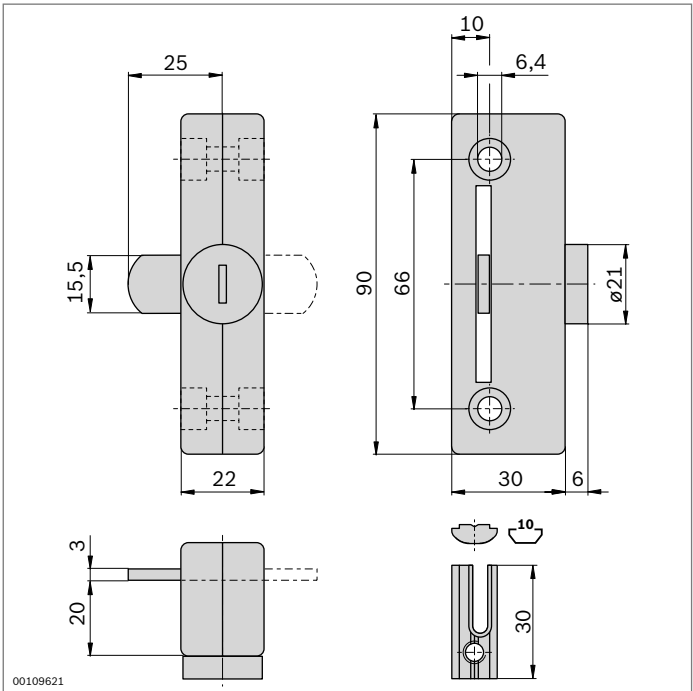
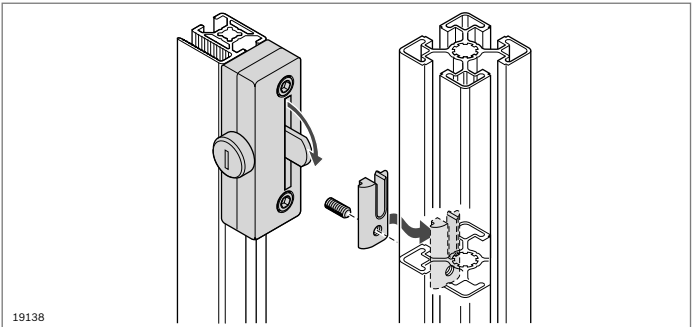
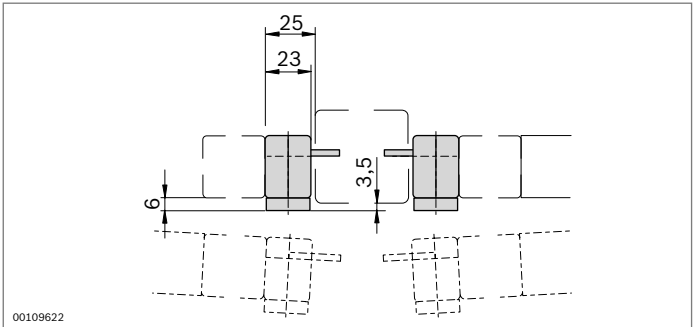
Door lock



- For doors which open to the right or left
- For frame profile 30x30 WG (EcoSafe protective fence system); incl. fastening material
- “Standard locking” variant with random key selection (each lock has a different key)
- “Uniform locking” variant always has the same key

Accessories for mounting on profile with 10 mm slot:

- 2 x T-nut M6, **3 842 530 285** (p. 3-4)
- 2 x screw DIN 912-M6x25

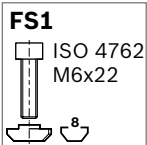


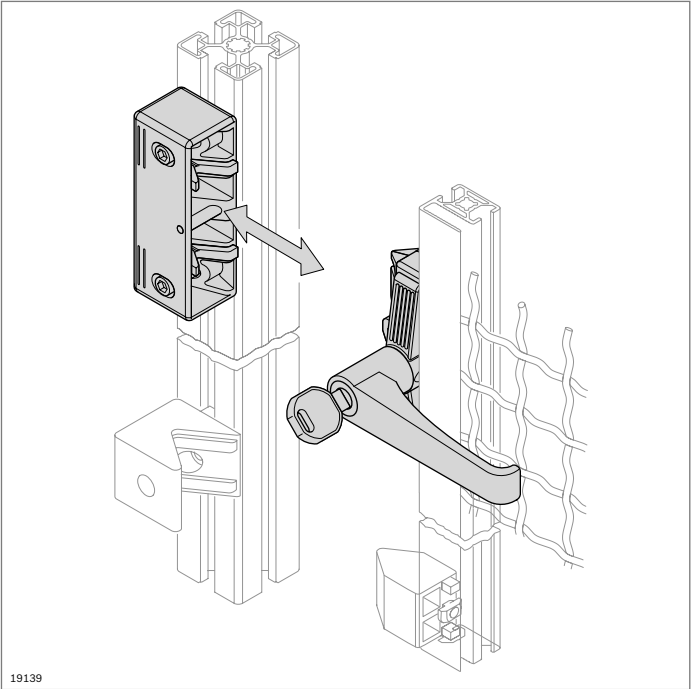
Door lock	No.	FS
Standard locking	3 842 522 479	2xFS1, 1xFS2
Uniform locking	3 842 523 320	2xFS1, 1xFS2

Material: Diecast zinc

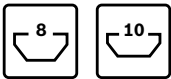
Fastening material: steel; galvanized

Scope of delivery: Incl. 3 keys,
Fastening material (FS)





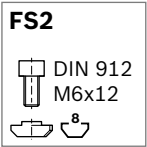
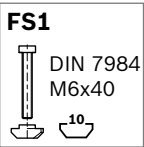
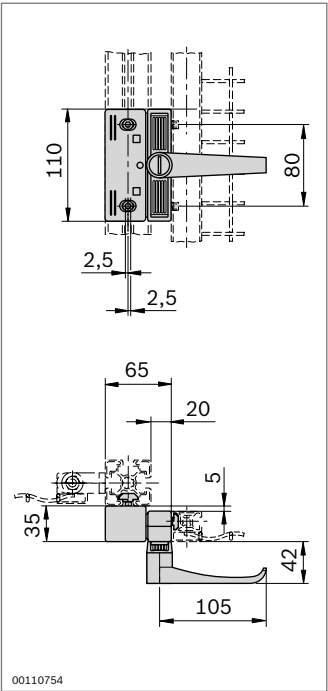
Door lock for EcoSafe sliding doors



- For doors which open to the right or left
- “Standard locking” variant with random key selection (each lock has a different key)
- “Uniform locking” variant always has the same key

Accessories, optional:

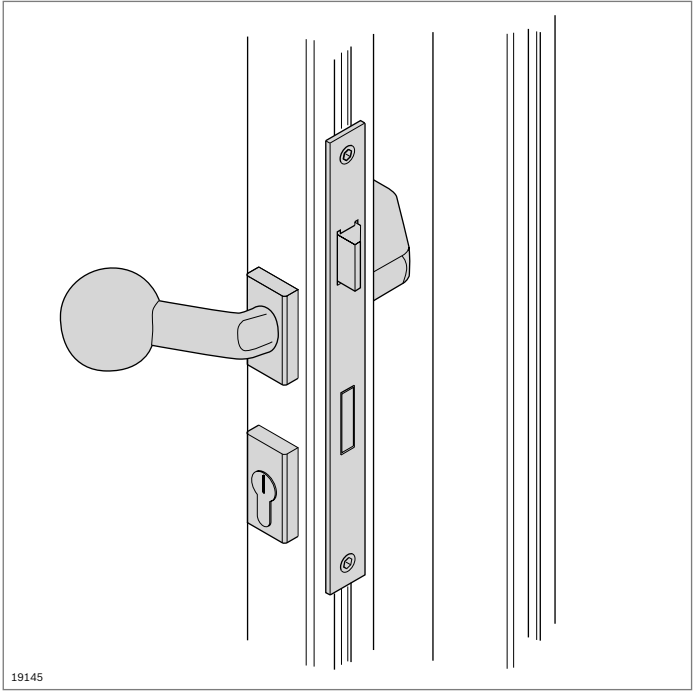
Stop kit for cushioned closing of the doors (p. 12-5)



Door lock for sliding doors	No.	FS
Standard locking	3 842 525 946	2xFS1, 2xFS2
Uniform locking	3 842 525 947	2xFS1, 2xFS2

Material: Housing: die-cast aluminum
 Door handle: PA, black
 Fastening material: steel; galvanized

Scope of delivery: Incl. 3 keys,
 Fastening material (FS)

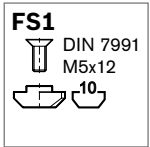
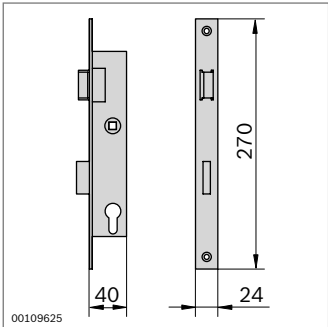
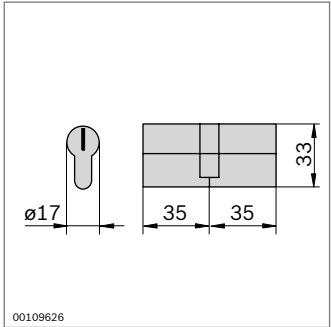
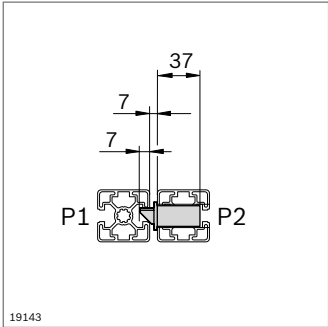
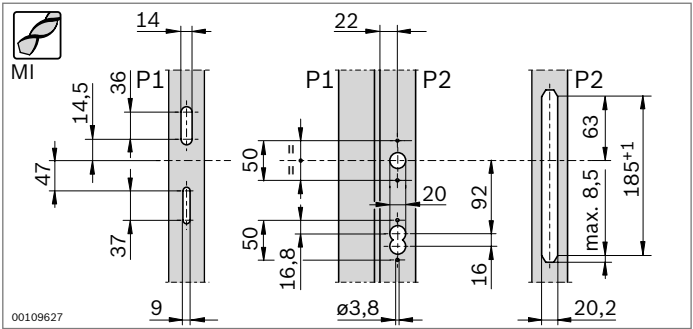


Mortise lock
Door handle



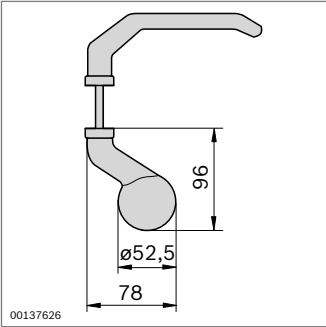
- For installation in profile size 45x45 or larger
- Robust, heavy-duty design
- Suitable for installing a standard lock cylinder
- Door handle in the variants handle/handle and handle/knob
- Profile machining: milling

Accessories:
 standard lock cylinder



Mortise lock	No.	FS
	3 842 538 241	2xFS1

Material: Steel; galvanized
 Scope of delivery: Incl. fastening material (FS)



FS2

 ISO 7051
4,8x22

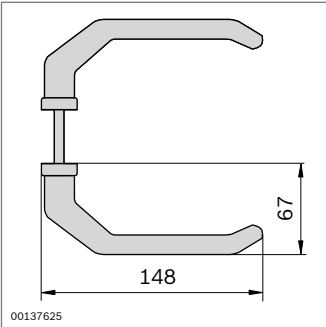
FS3

 DIN 7991
M5x10

 10

Door handle / door knob	No.	FS
	3 842 542 684	8xFS2, 8xFS3

Material: Light metal
Fastening material: steel; galvanized
Scope of delivery: Incl. rosette, fastening material (FS)



FS2

 ISO 7051
4,8x22

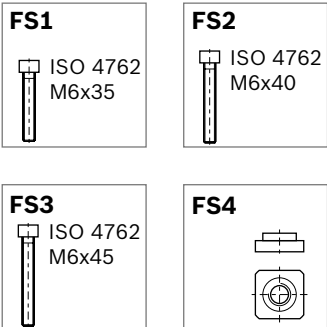
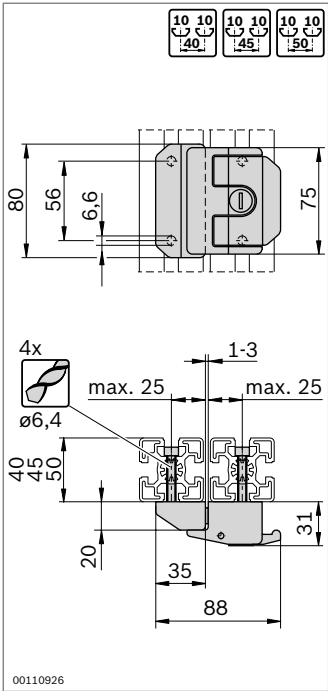
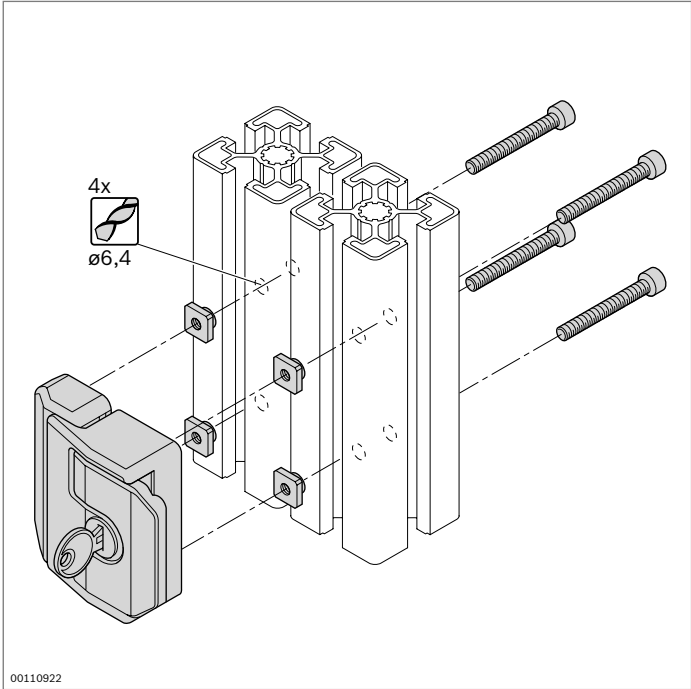
FS3

 DIN 7991
M5x10

 10

Handle/handle	No.	FS
	3 842 542 683	8xFS2, 8xFS3

Material: Light metal
Fastening material: steel; galvanized
Scope of delivery: Incl. rosette, fastening material (FS)



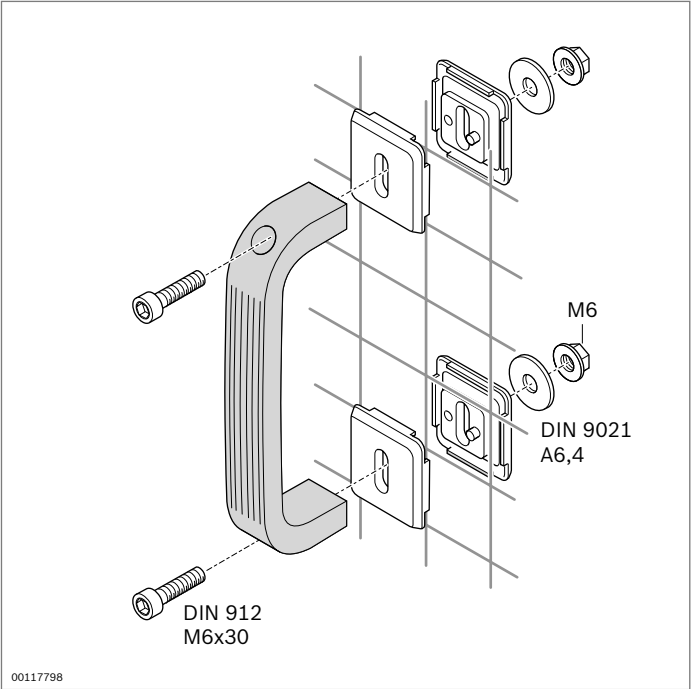
Door lock for swing doors



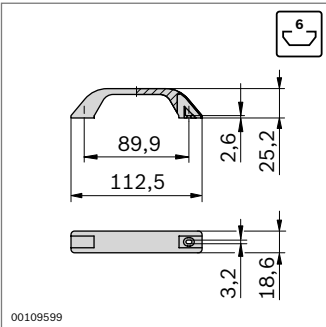
- For doors which open to the right or left
- Self-locking in the closed position
- Smooth closing
- Ergonomically designed folding handle for opening
- “Standard locking” variant with random key selection (each lock has a different key)
- “Uniform locking” variant always has the same key
- Profile machining: drilling of hole D6.4

Door lock	No.	FS
Standard locking	3 842 530 353	4xFS1, 4xFS2, 4xFS3, 4xFS4
Uniform locking	3 842 530 352	4xFS1, 4xFS2, 4xFS3, 4xFS4

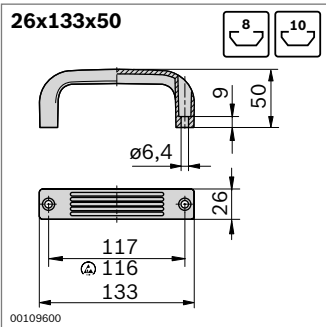
Material: diecast zinc; black powder-coated
Fastening material: steel; galvanized
Scope of delivery: Incl. 2 keys,
Fastening material (FS)



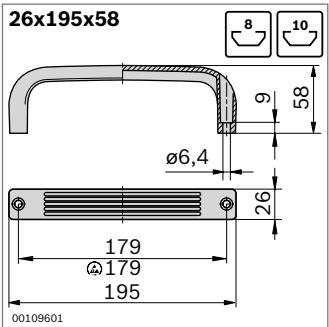
00117798



00109599

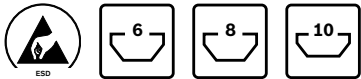


00109600



00109601

Bow-type handle



Bow-type handle

- ▶ Robust construction equipped to withstand strong forces
- ▶ Fastening in the profile slot or on a woven wire grille with the clamping element
- ▶ Suitable for use in ESD-protected environments

Accessories, optional:

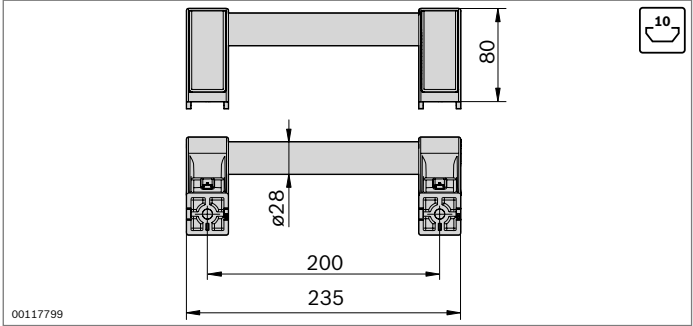
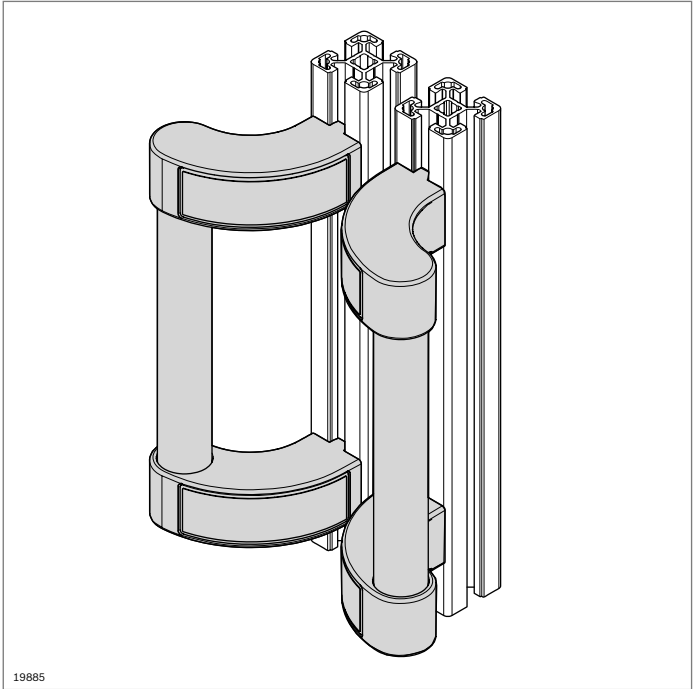
- ▶ clamping element for mounting on woven wire grille (p. 10-19)
- ▶ T-nut (p. 3-4)

Bow-shaped handle	ESD	No.
	10	3 842 518 738

Material: PE; black

Bow-shaped handle	ESD	No.
26x133x50	10	3 842 525 480
	10	3 842 525 481
26x195x58	10	3 842 525 766
	10	3 842 525 767

Material: PA; black

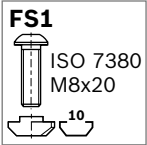


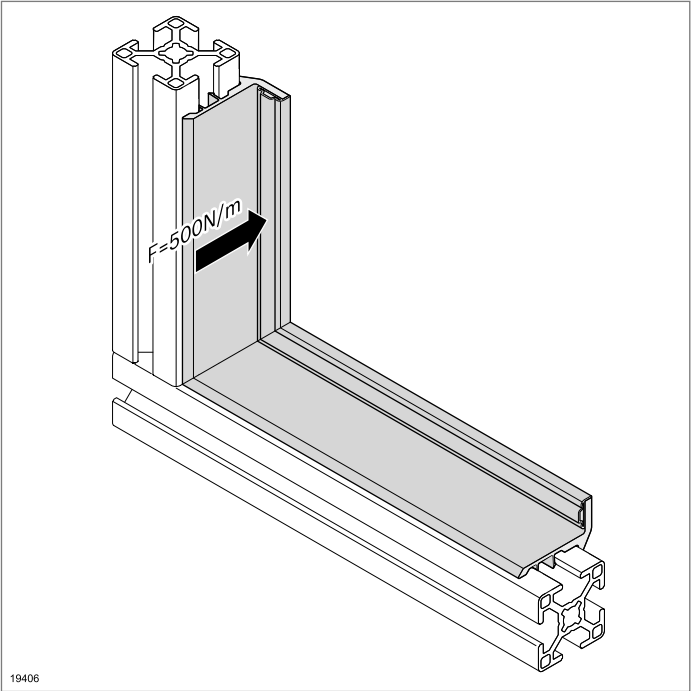
Safety handle



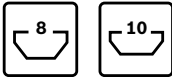
- Prevents injuries caused by catching of body parts when closing sliding doors
- Suitable for sliding or swing doors
- The length of the handle can be varied by changing the tube D28

Safety handle	No.	FS
	3 842 536 556	2xFS1
Material: Round tube D28: Aluminum, anodized		
Holder: PA; black		
Scope of delivery: Incl. fastening material (FS)		

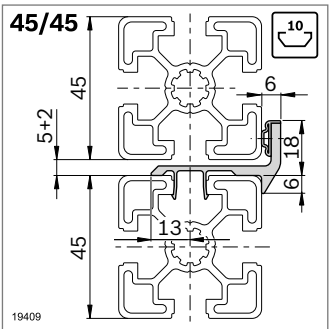
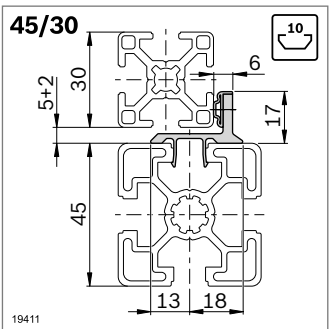
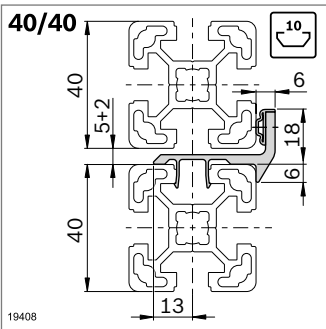
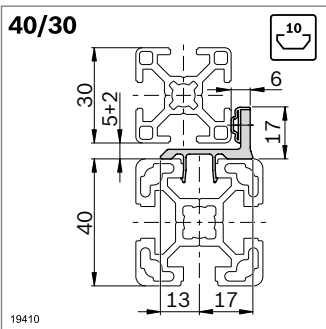
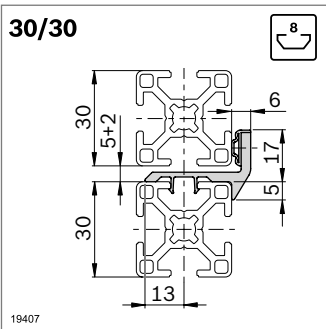




Sealing strip



- For sealing doors (width > 500 mm) with an elastic lip seal
- Can be clipped into the slot
- Non-transparent elastic lip seal covers the door gap
- Stop for swing doors (impact force: 500 N/m)
- For flush-closing doors



Sealing strip	L (mm)		No.
30/30	3000	10	3 842 543 412

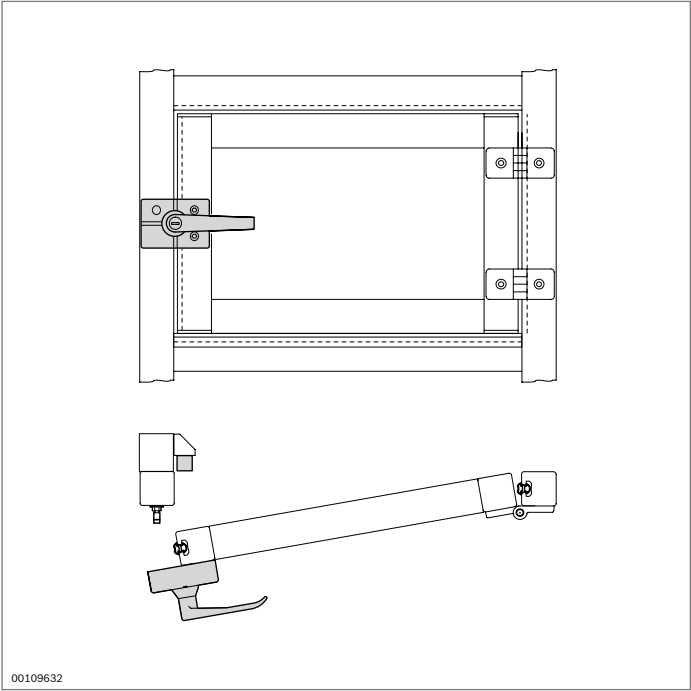
Material: PVC/TPE, light gray RAL 7035

Sealing strip	L (mm)		No.
40/30	3000	10	3 842 543 411
45/30	3000	10	3 842 543 410

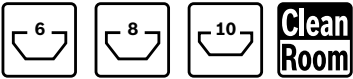
Material: PVC/TPE, light gray RAL 7035

Sealing strip	L (mm)		No.
40/40	3000	10	3 842 543 409
45/45	3000	10	3 842 543 408

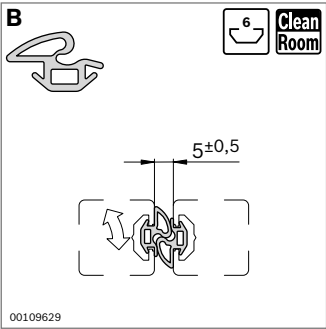
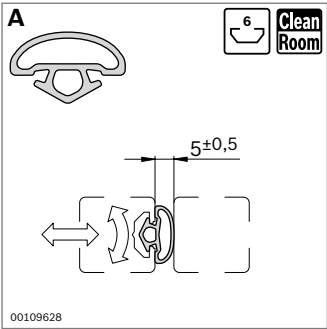
Material: PVC/TPE, light gray RAL 7035



Sealing profile



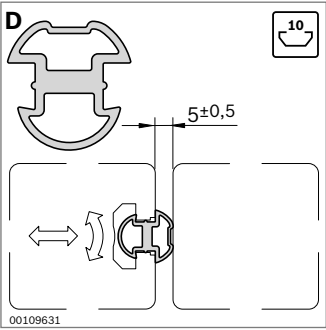
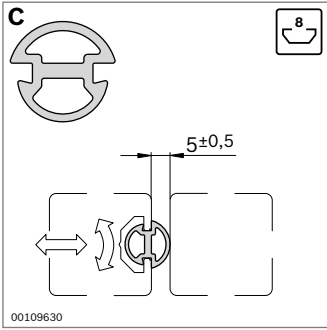
- For sliding and swing doors
- Prevents particles from entering or escaping



- Suitable for use in cleanroom environments
- Two-piece seal (**B**) also performs a stop function.

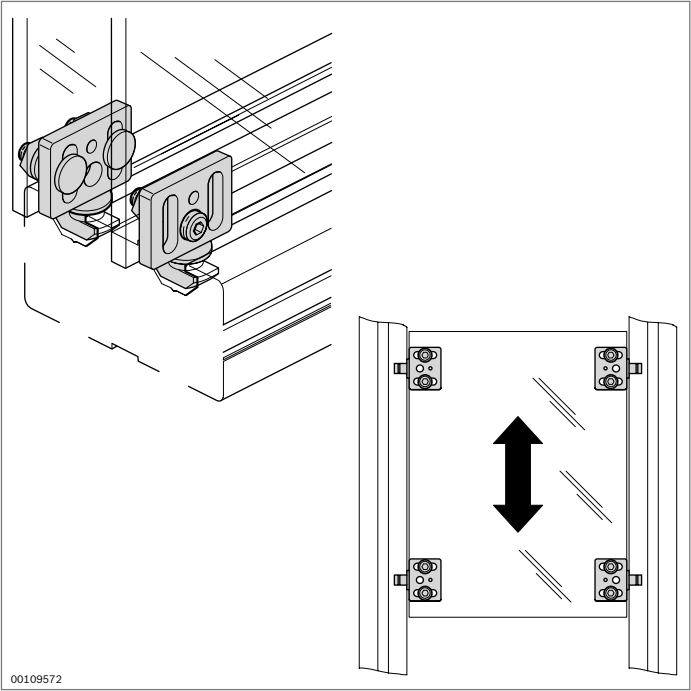
Sealing profile	Slot	L (mm)	No.
A	6	10000	3 842 524 623
B	6	10000	3 842 524 622

Material: TPE; light gray RAL 7035, hardness: 64° ± 5 shore A

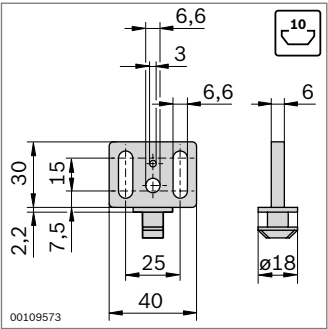


Sealing profile	Slot	L (mm)	No.
C	8	10000	3 842 516 598
D	10	10000	3 842 518 492

Material: NBR; black, hardness 60° shore A



00109572



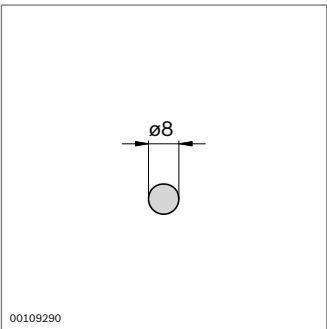
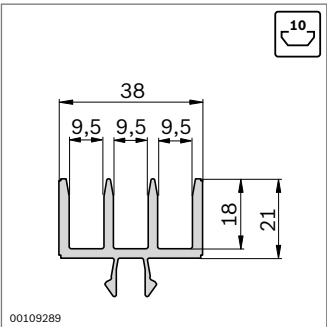
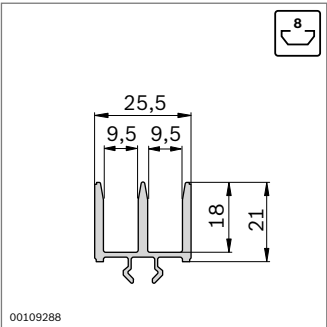
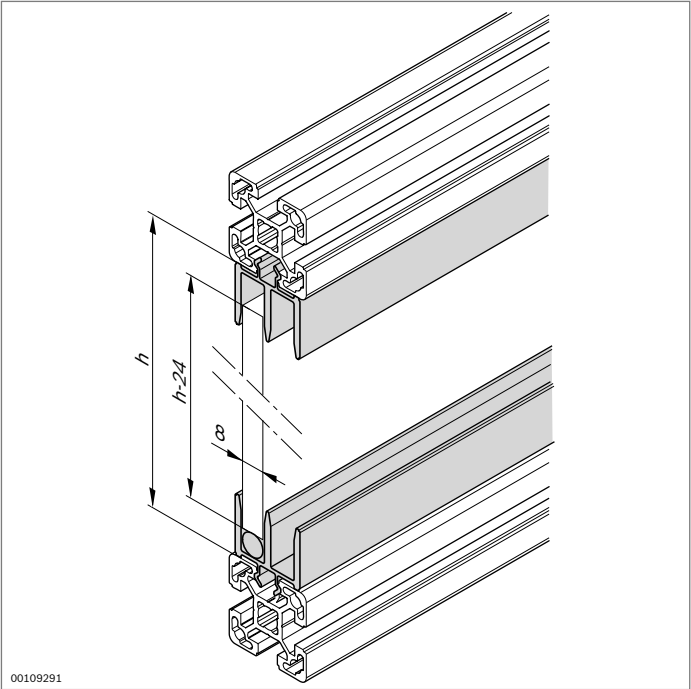
00109573

Slider

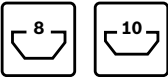


- For constructing inexpensive sliding and lifting doors
- Good functional reliability

Slider		No.	
Material:		10	3 842 530 303
POM; black			



Sliding door profile PVC



- Can be clipped into the supporting frame made of strut profiles
- Round rod to minimize the displacement force required
- For surface elements of a thickness of 8 mm
- Insertion of the surface element into closed frame

Accessories, optional:

- Edge protector (p. 8-26)
- Door handle profile (p. 8-26)
- Bow-type handle (p. 8-17)

Sliding door profile PVC	Slot	L (mm)		No.
	8	2000	10	3 842 526 588

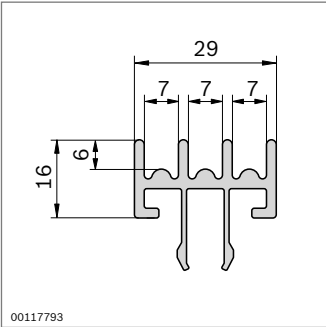
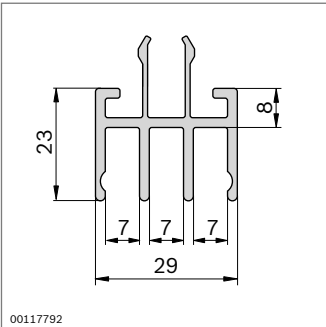
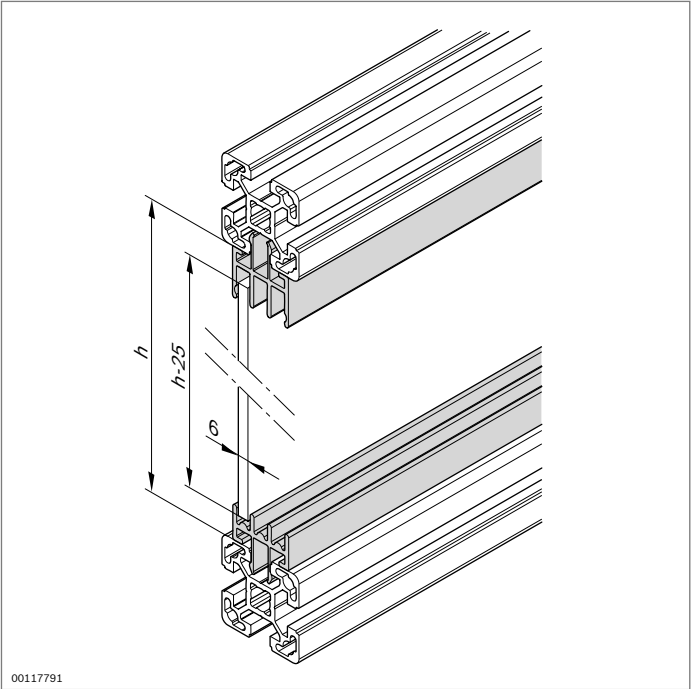
Material: PVC; black

Sliding door profile PVC	Slot	L (mm)		No.
	10	2000	10	3 842 526 591

Material: PVC; black

Round rod	L (mm)		No.
	2000	10	3 842 516 694

Material: PE; black



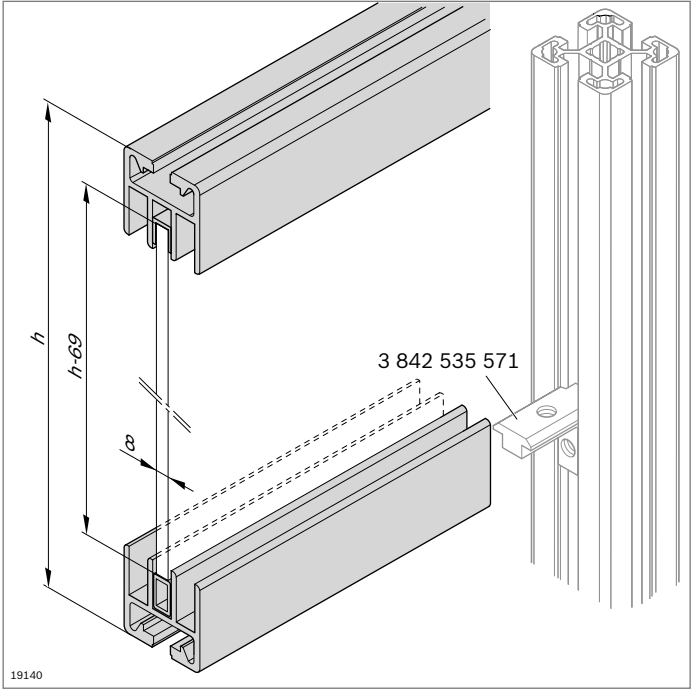
Sliding door profile Al Clip



- ▶ Can be clipped into the supporting frame made of strut profiles
- ▶ Sliding door profile, bottom, with half-round floor contour to minimize the displacement force required
- ▶ For surface elements with a thickness of 5 or 6 mm
- ▶ Insertion of the surface element into closed frame

Sliding door profile, top		L (mm)	No.
1 pc		40 ... 3000	3 842 993 425 / L
 10 pcs		3000	3 842 536 531
Material:		Aluminum, anodized	

Sliding door profile, bottom		L (mm)	No.
1 pc		40 ... 3000	3 842 993 426 / L
 10 pcs		3000	3 842 536 532
Material:		Aluminum, anodized	



Sliding door profile Al 45
Cap, end piece

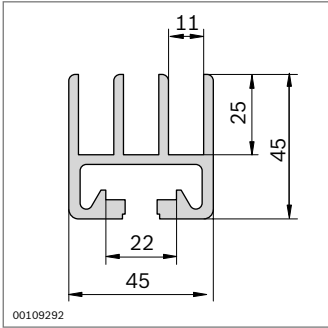


Sliding door profile Al 45

- ▶ Aluminum profile as a supporting construction element
- ▶ Installation using inner brackets between two vertical struts
- ▶ Slide profile to edge the upper part of the sliding door
- ▶ Insertion profile acts as a slide surface
- ▶ For surface elements of a thickness of 8 mm
- ▶ Insertion of the surface element into closed frame

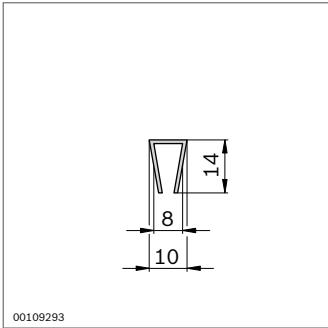
Accessories:

- ▶ cap (p. 8-25)
- ▶ end piece (p. 8-25)
- ▶ inner bracket (p. 3-13), inner bracket R (p. 3-14)



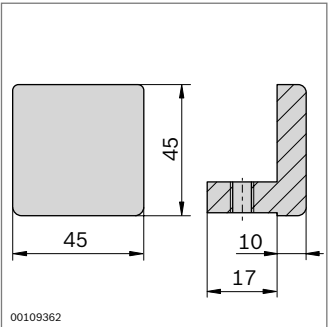
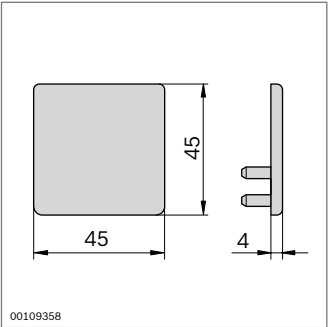
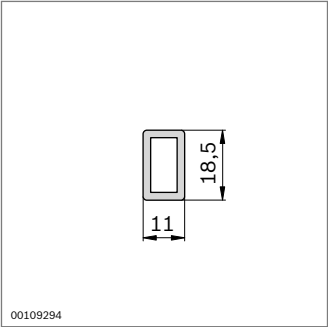
Sliding door profile		L (mm)	No.
1 pc		100 ... 5600	3 842 990 115 / L
1 pc	F1  F1	100 ... 5600	3 842 990 116 / L
 20 pcs		5600	3 842 509 177

Material: Aluminum, anodized



Slide profile	L (mm)		No.
	3000	10	3 842 146 905

Material: Hard PVC, black



Insertion profile	L (mm)		No.
	3000	10	3 842 146 902

Material: PA; black

Cover cap

- As a design element and to prevent injuries

Cover cap	ESD		No.
		20	3 842 242 404

Material: PA, conductive, black

8

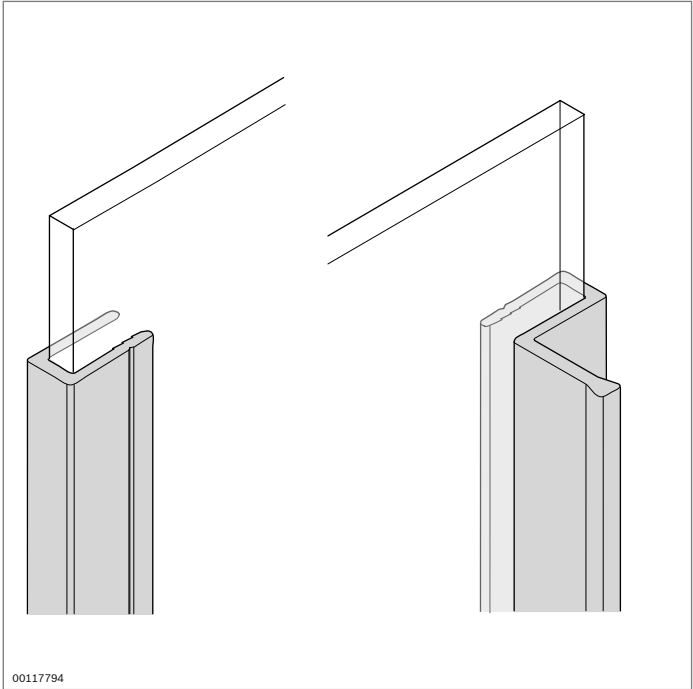
End piece

- For use as a stop for sliding elements
- Clamping with setscrew in the profile slot

End piece	ESD		No.	FS
		20	3 842 191 194	FS1

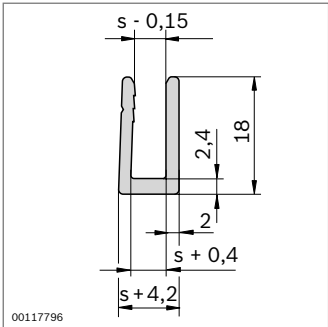
Material: Die-cast aluminum

Scope of delivery: Incl. fastening material (FS)



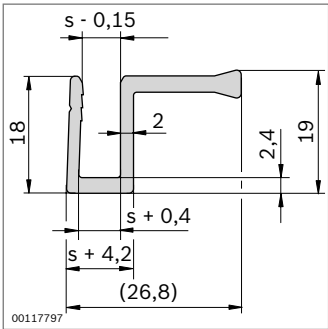
Edge protector
Door handle profile

- For reinforcing frameless surface elements on sliding doors
- Profile for $s = 6\text{ mm}$ can also be used for 1/4 inch plates



Edge protector		s (mm)	L (mm)	No.
1 pc		5	40 ... 3000	3 842 993 429 / L
 10 pcs		5	3000	3 842 536 537
1 pc		6	40 ... 3000	3 842 993 430 / L
 10 pcs		6	3000	3 842 536 540

Material: Aluminum, anodized



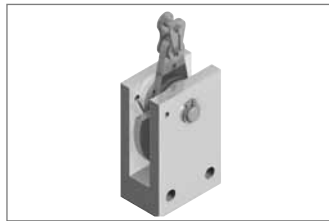
Door handle profile		s (mm)	L (mm)	No.
1 pc		5	40 ... 3000	3 842 993 427 / L
 10 pcs		5	3000	3 842 536 533
1 pc		6	40 ... 3000	3 842 993 428 / L
 10 pcs		6	3000	3 842 536 536

Material: Aluminum, anodized

Accessories for protective devices



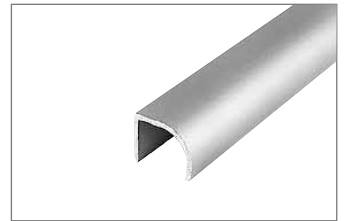
Counterbalance (p. 9-2)



Safety catch (p. 9-4)



Bumper (see p. 9-5)



Handle bar (p. 9-5)

9



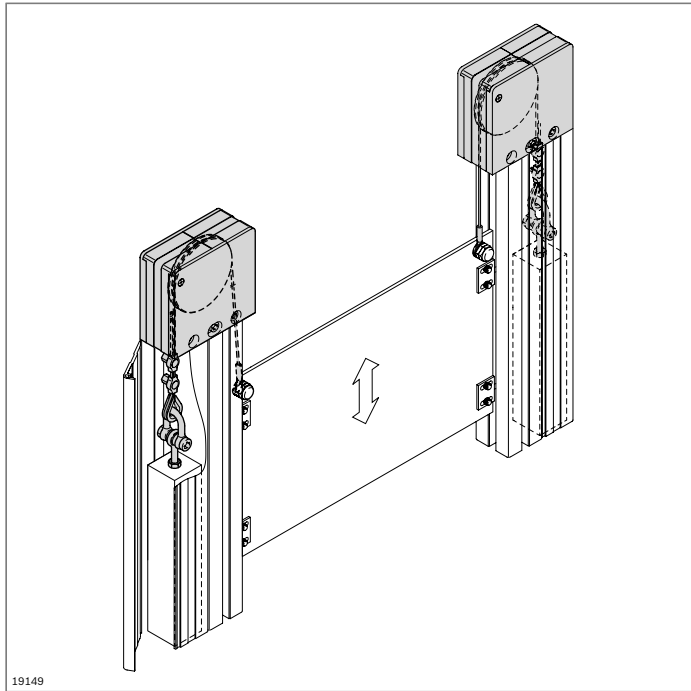
Magnet catch (p. 9-6)



Double ball stop latch (p. 9-7)



Ball catch (p. 9-8)



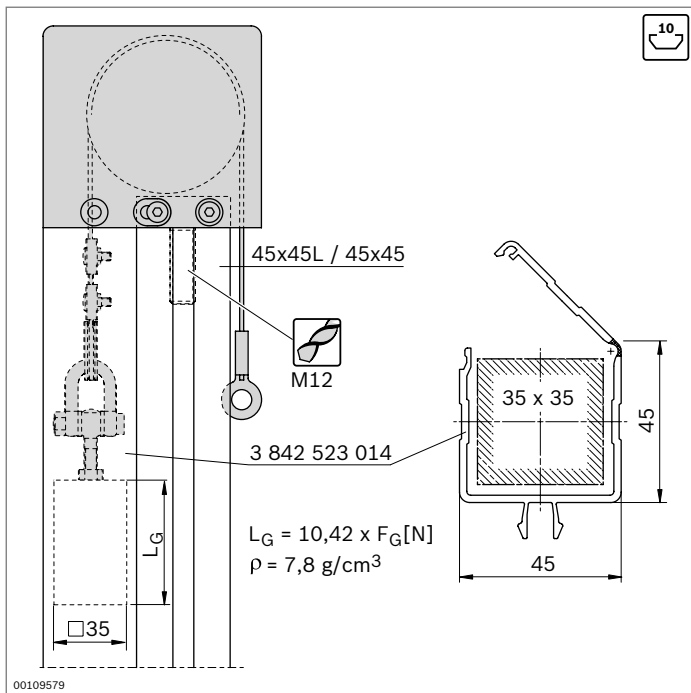
Counterbalance



- For lifting doors comprising a deflection pulley and control cable
- Counterweight individually adjustable and preferably guided in a cable duct
- Length of cable can be adjusted
- Service life: 50,000 actuations
- Profile machining:
 - M12 for fastening the deflection pulley
- Fit lifting doors with a back-up fall arrestor in accordance with the Machinery Directive 2006/42/EC

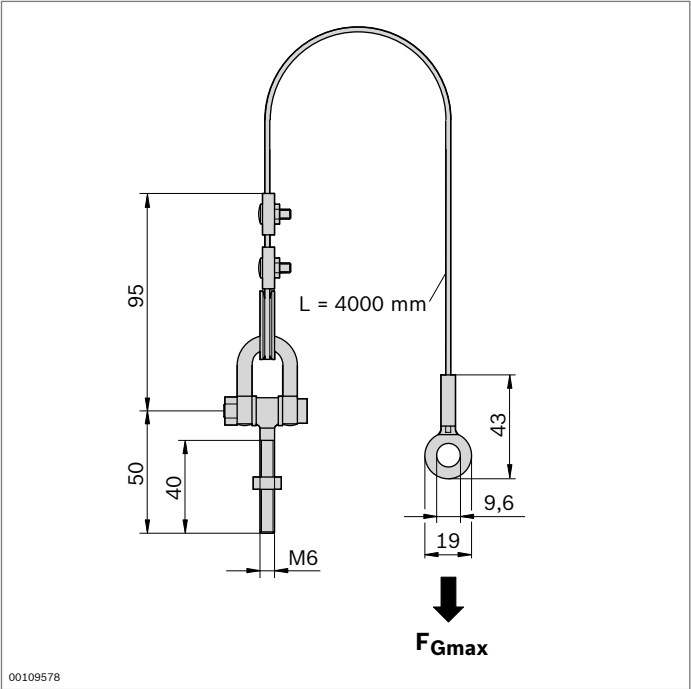
Accessories, required:

counterbalance weight (square profile 35x35 mm)



Accessories, optional:

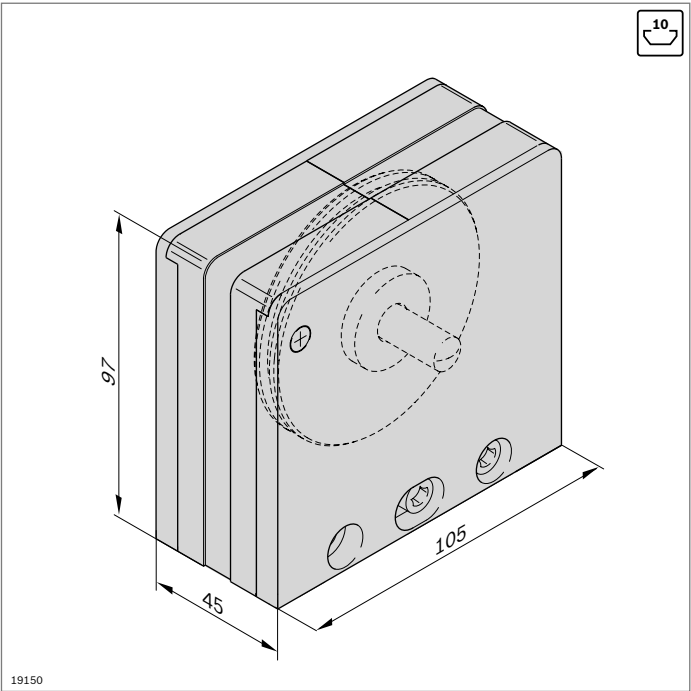
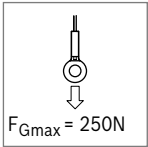
- Cable duct 45x45 (p. 11-2)
- Slider (p. 12-3/8-21)
- Safety catch (p. 9-4)



00109578

Counterbalance control cable	No.
	3 842 518 798

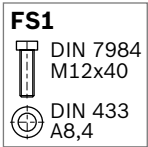
Material: Steel; stainless

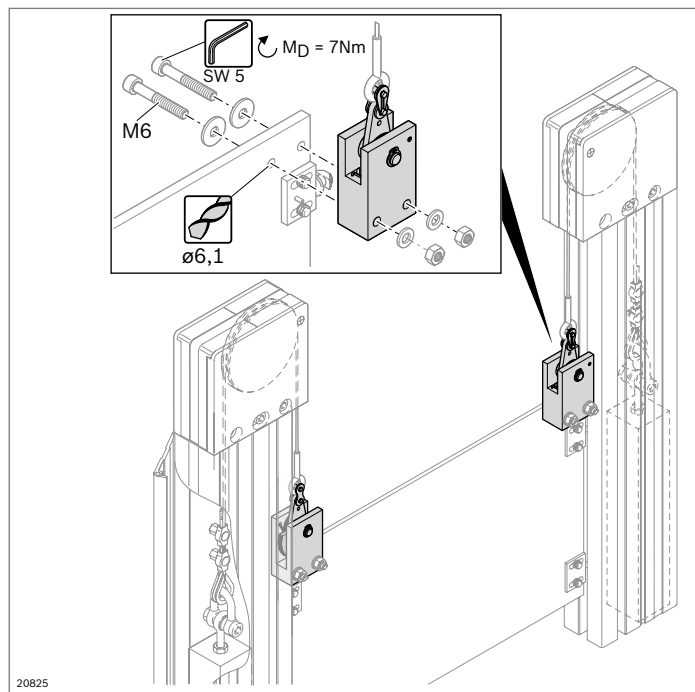


19150

Counterbalance deflection pulley	No.	FS
	3 842 518 797	FS1, FS2

Material: Housing: PA; black
Fastening material: steel; galvanized
Scope of delivery: Incl. fastening material (FS)





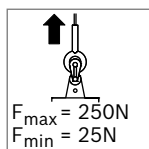
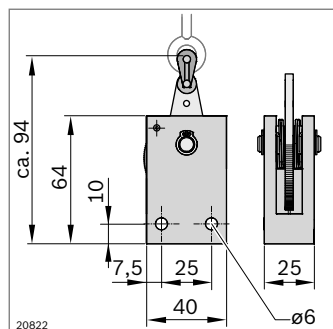
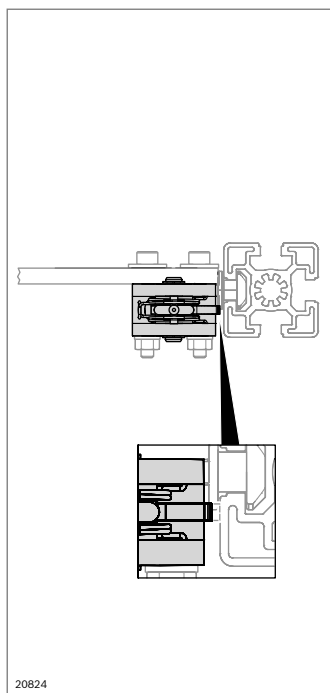
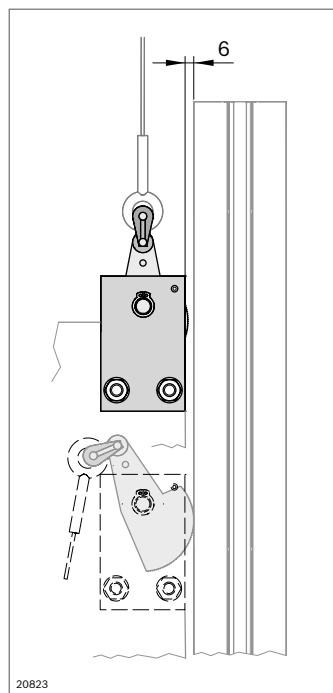
Safety catch



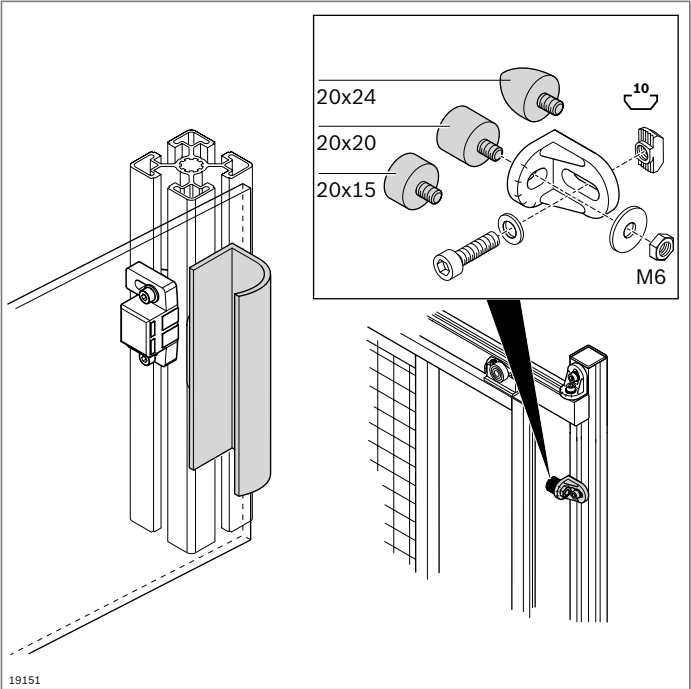
- ▶ The safety catch in conjunction with the other components prevents a lifting door from falling if a cable breaks
- ▶ If a cable breaks, the revolving part of the safety catch jams against a counterbearing and is wedged in position in the guide profile
- ▶ Gap dimension between safety catch body and lateral guide profile: 6 mm
- ▶ One safety catch is required for each cable.
 - Max. load per safety catch: 250 N
 - Min. load per safety catch: 25 N
- ▶ The counterbearing (e.g. slider **3 842 530 303**) should be mounted under the safety catch and as close as possible to it
- ▶ It can also be mounted without a frame on surface elements which have adequate transverse rigidity
- ▶ Before installation and use please read the data sheet containing notes on use which is enclosed with the product

Accessories, optional:

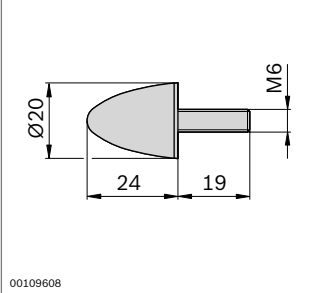
- ▶ Slider (p. 12-3)
- ▶ Fastening material for attaching the safety catch to the lifting door
- ▶ Counterbalance (p. 9-2)
- ▶ Strut profiles (from p. 2-1)



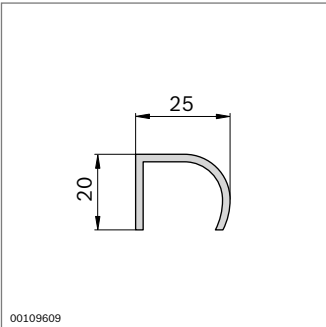
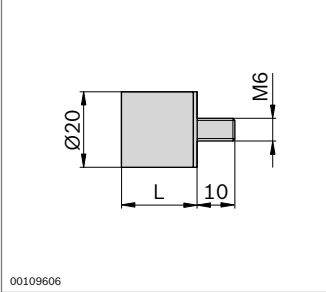
Safety catch	No.
	3 842 546 519
Material:	Housing: aluminum Rotating disk: steel, rust-free Bolt: steel, hardened Chain lock: steel, nickel-plated Spacer disk: POM
Scope of delivery:	Incl. chain lock for securing the cable
Condition on delivery:	Assembled



20x24



20x15, 20x20



Bump stop
Handle bar

Bump stop

- For damping impact and noise on doors, flaps, and covers

Accessories:
nut, T-nut M6 (p. 3-4)

Handle bar

- Can be used, for example, on covers, drawers, or doors
- Machining: drilled holes for fixing

Accessories, required:
Fastening material

Bump stop		No.
20x24	10	3 842 510 165

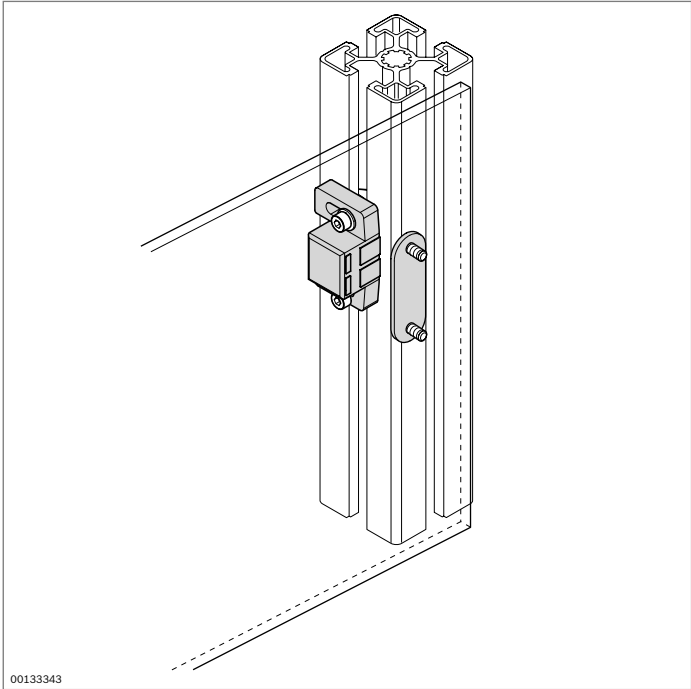
Material: Rubber, hardness 55° shore A

Bump stop	L (mm)		No.
20x15	15	10	3 842 510 464
20x20	20	10	3 842 510 462

Material: Rubber, hardness 55° shore A

Handle bar	L (mm)		No.
	50...3000	1	3 842 990 111 / L
	3000	10	3 842 500 287

Material: Aluminum, anodized



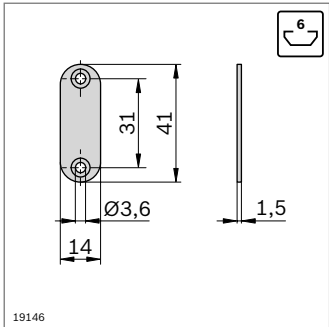
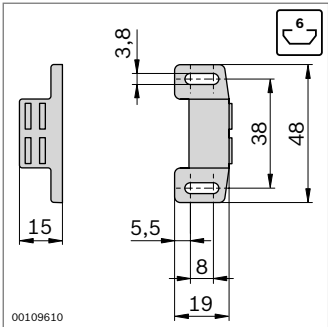
Magnet catch



- The magnet catch prevents doors and flaps from banging or being unintentionally opened
- Elongated holes to compensate for different surface element thicknesses

Accessories:

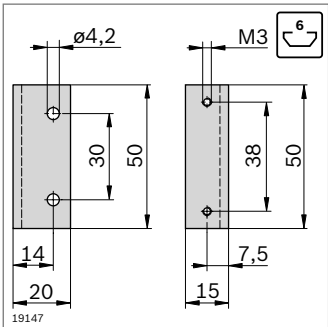
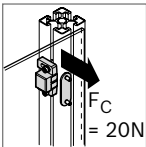
Cylinder bolt ISO 4762, washer, T-nut (p. 3-4)



Magnet catch	Slot	No.	FS
	6	3 842 518 740	2xFS1
Material: PP, white / steel, galvanized			
Scope of delivery: Incl. counterpiece, bracket, fastening material (FS)			

FS1

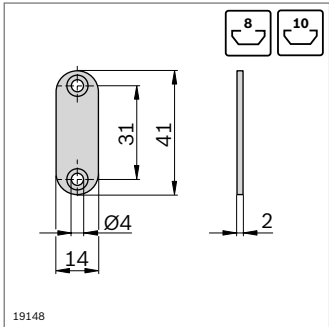
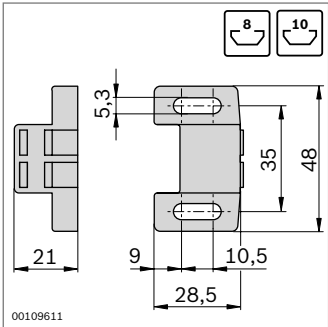
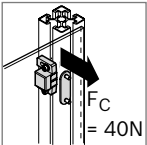
- ISO 4762
- M3x8
- DIN 125
- A3,2

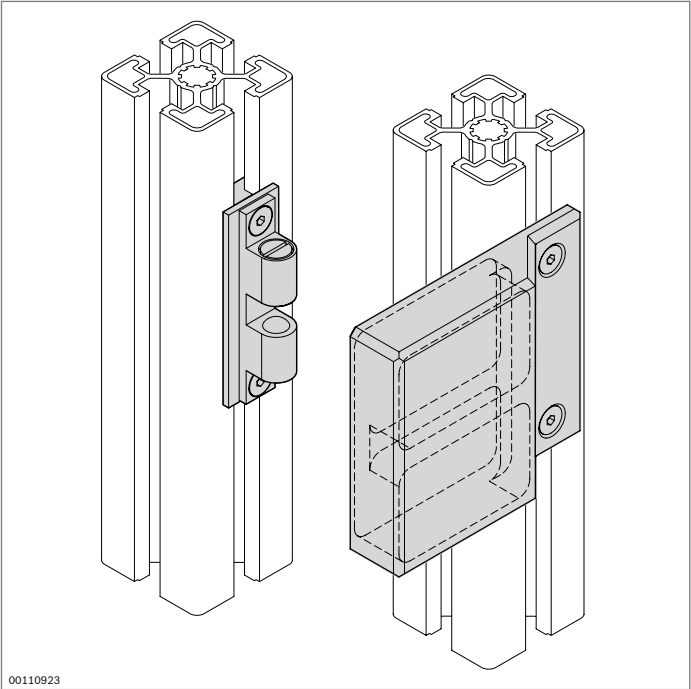


Magnet catch	Slot	No.
	8, 10	3 842 516 165

Material: PA; black
steel; galvanized

Scope of delivery: Incl. counterpiece



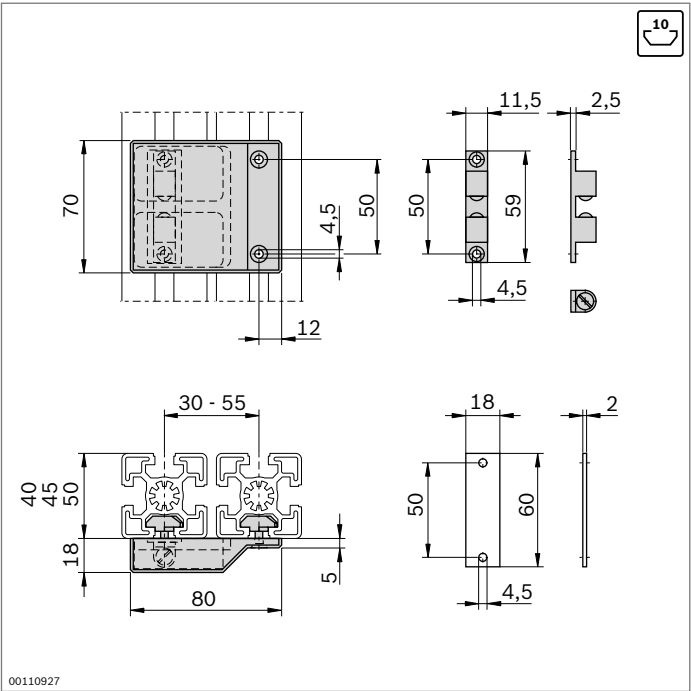


Double ball stop latch



- For arresting doors made of profile frames and for bridging door gaps
- Suitable for profiles with modular dimensions 40 mm, 45 mm, and 50 mm
- Locking also possible with varying profile spacing

9

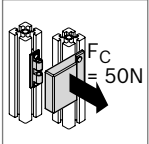


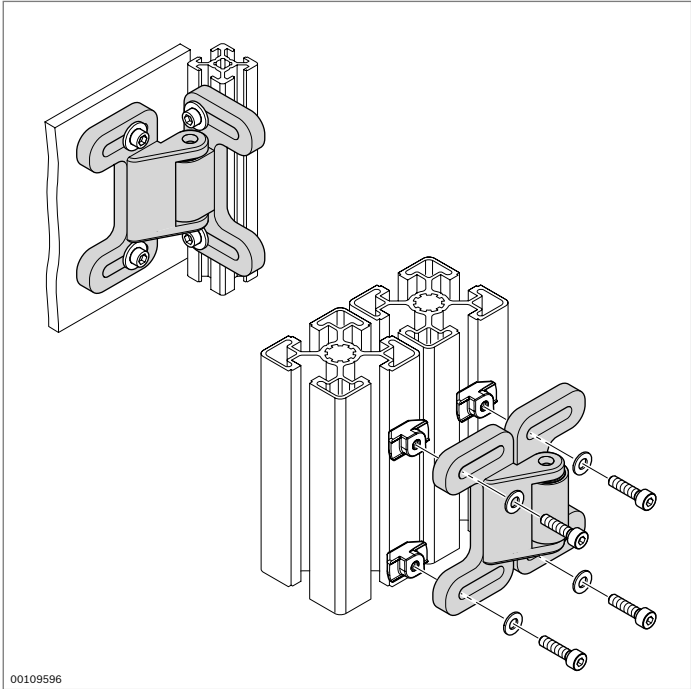
Double ball stop latch	Slot	No.	FS
	10	3 842 530 241	4xFS1

Material: Aaluminum, black anodized
Scope of delivery: Incl. fastening material (FS)

FS1

DIN7991
M4x16





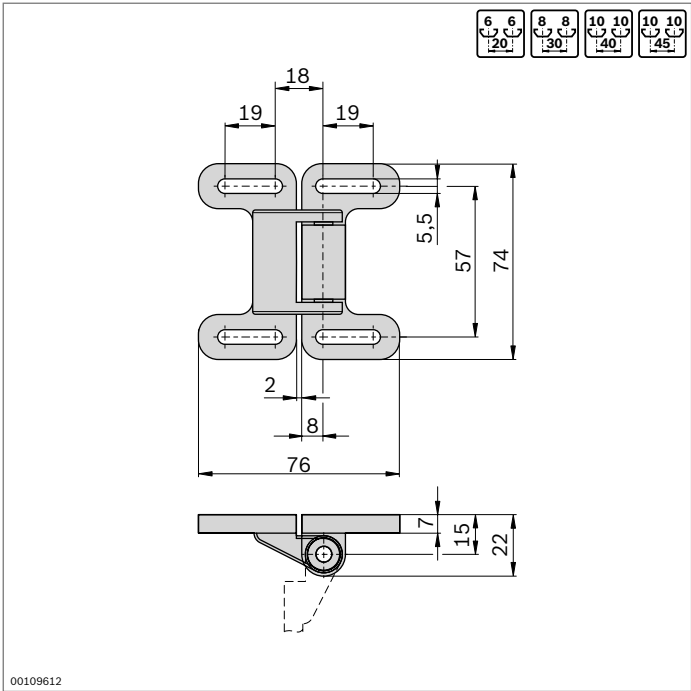
Ball catch



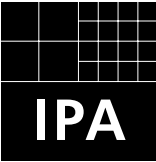
- ▶ Ball catch for doors and flaps
- ▶ For sliding and swing doors
- ▶ For doors with or without frames
- ▶ Elongated hole to adjust for differing spacing
- ▶ Can be used under cleanroom conditions

Accessories:

cylinder bolt ISO 4762, washer, T-nut (p. 3-4)



Ball catch	ESD	No.
	10	3 842 524 986
Material:	PA, black; conductive	



Fraunhofer

TESTED
DEVICE

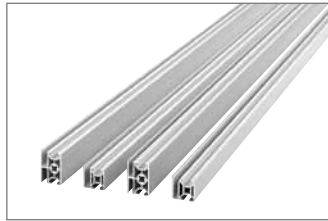
Bosch Kugelschnäpper 3842524986
Report No. BO 9903-158

Protective devices and partition walls

EcoSafe



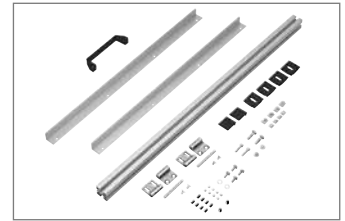
EcoSafe protective frame
(p. 10-6)



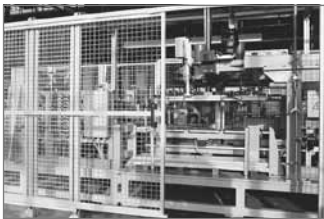
Protective grille profile
(p. 10-8)



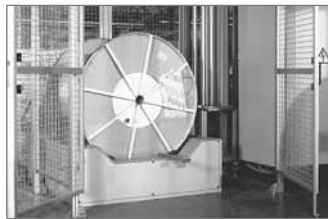
Suspension bracket,
attachment kit (p. 10-10)
Tilt lever (p. 10-11)



EcoSafe system door kit
(p. 10-12)



EcoSafe sliding door with/
without superstructure
(p. 10-14)



EcoSafe double door kit
(p. 10-16)



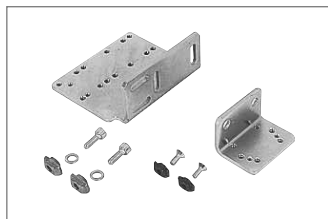
Lock mechanism for double
door (p. 10-17)



Earthing terminal (p. 10-18)



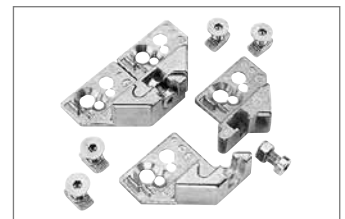
Clamping element (p. 10-19)



Attachment kit for safety
switch (p. 10-20)



Spring clamping element
(p. 10-21)



Suspension piece for frame
(p. 10-22)

Eliminate safety risks in manufacturing and production by using the components for Rexroth protective devices. The EcoSafe protective fence components can be used flexibly and enable the current standards and guidelines to be complied with.

Pre-assembled protective frames, door kits, and a well thought-out overall product range ensure fast planning as well as economical and practical implementation.

Individual protective devices such as enclosures and additional attachments can be created using the tried and tested basic mechanical elements. These two systems are mutually compatible. Rexroth therefore offers a comprehensive, overall solution for all requirements.

Compliance with standards

DIN EN ISO 12100 – Safety of machinery and plant

- The safety fence must be designed so that it can only be opened with the aid of, or by destroying, the fastenings.
- The actual design requires a risk assessment to be carried out according to DIN EN ISO 12100-1 in every case

DIN EN 953 – General design and construction requirements

- Rigidity, impact resistance, strength & durability of connection points etc.

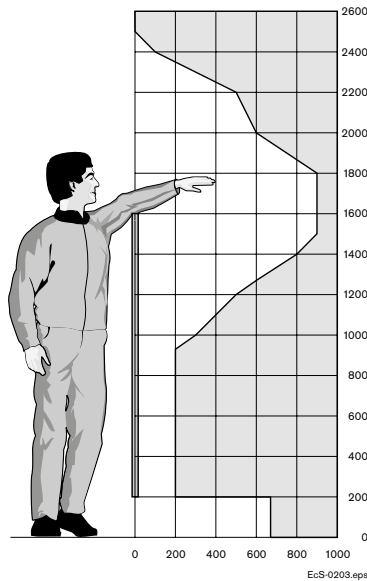
DIN EN ISO 13857

- Safety distances to keep upper or lower limbs out of hazardous areas

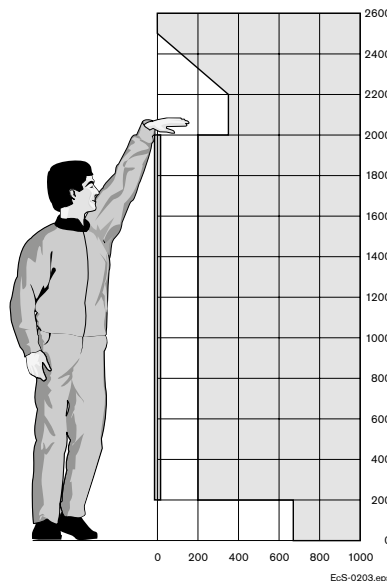
Machinery Directive 2006/42/EC

Excerpt from the requirements that apply to protective devices:

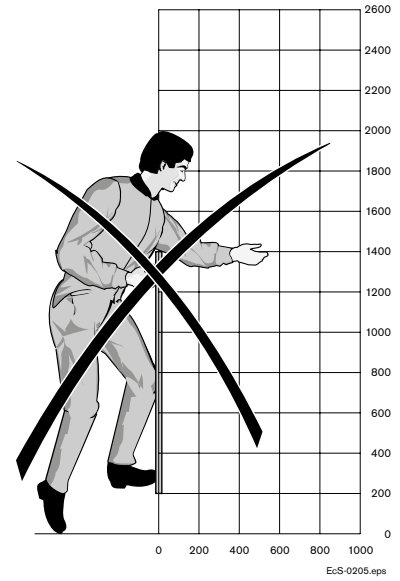
- must be solidly built
- must be securely held in position
- must not cause any additional hazards
- must not be able to be easily circumvented or rendered ineffective
- fastenings must only be able to be undone or removed with the aid of tools
- once the protective devices have been removed, fastenings must remain attached or fastened to the protective devices or the machine

Safety distances

H = 1600 mm



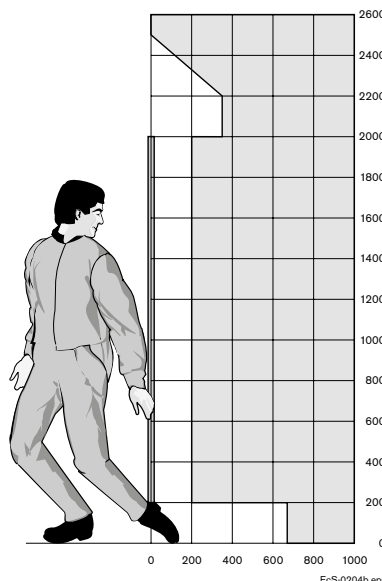
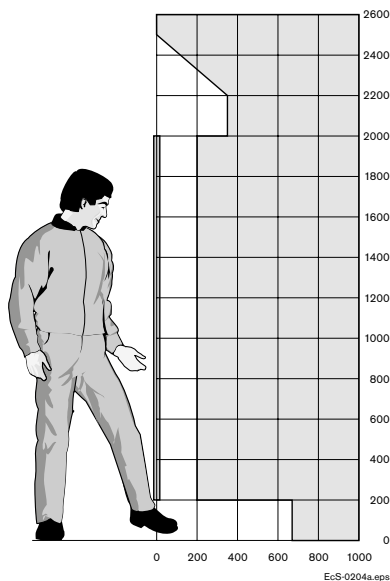
H = 2000 mm



H = 1400 mm

The safety distances depend on the height of the protective device and the openings in the protective grille. If woven wire grilles with a mesh width of 40x40 are used, only a safety distance of 200 mm from the hazard area is required. The standard fence height of 2000 mm provides adequate

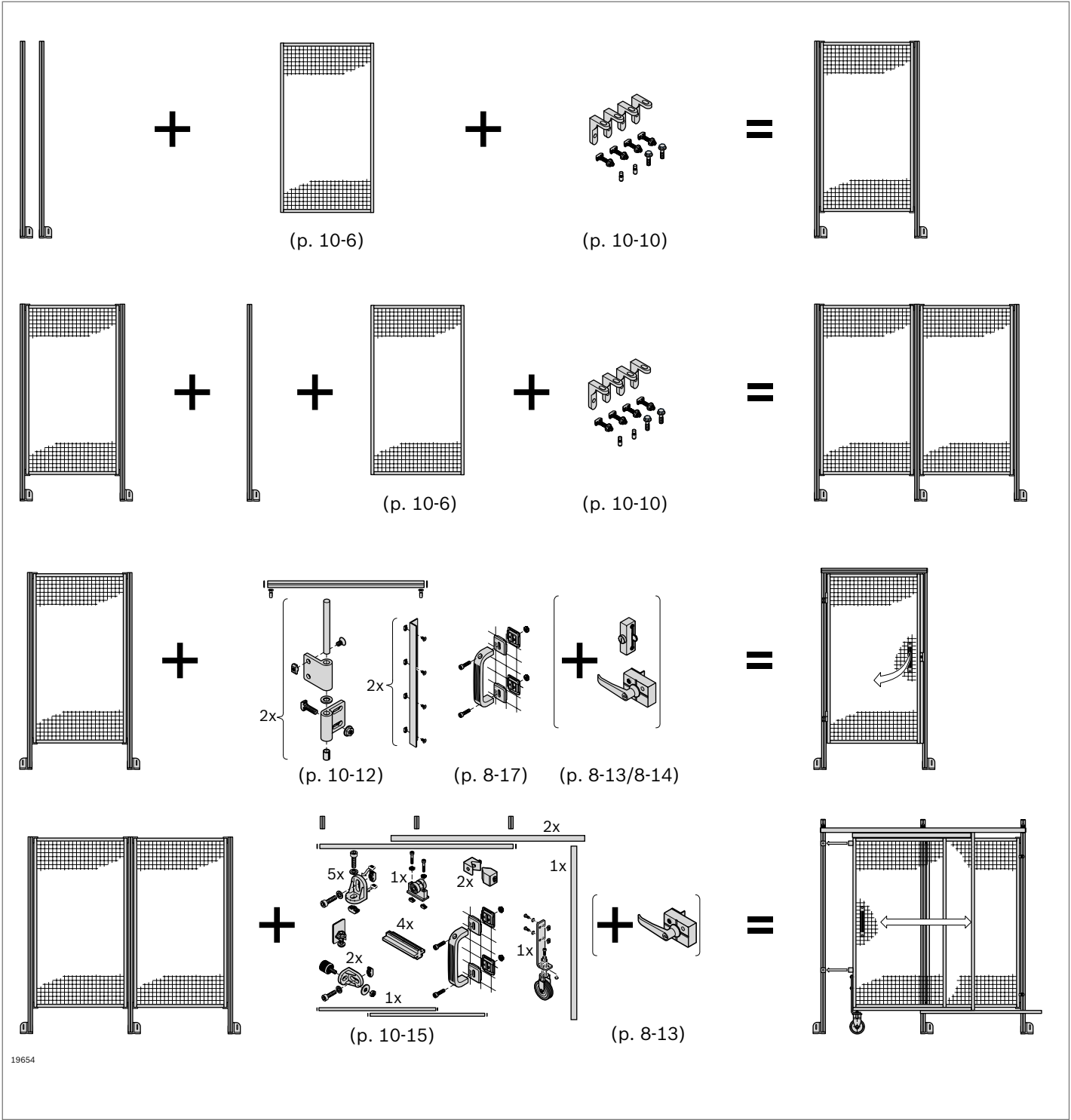
protection in conjunction with a relatively small safety distance. The graphics show a profile with the safety distances for 2 different system heights (DIN EN 13857). Protective fences of under 1400 mm in height do not provide adequate protection for personnel.

Safety distances where there is 200 mm ground clearance

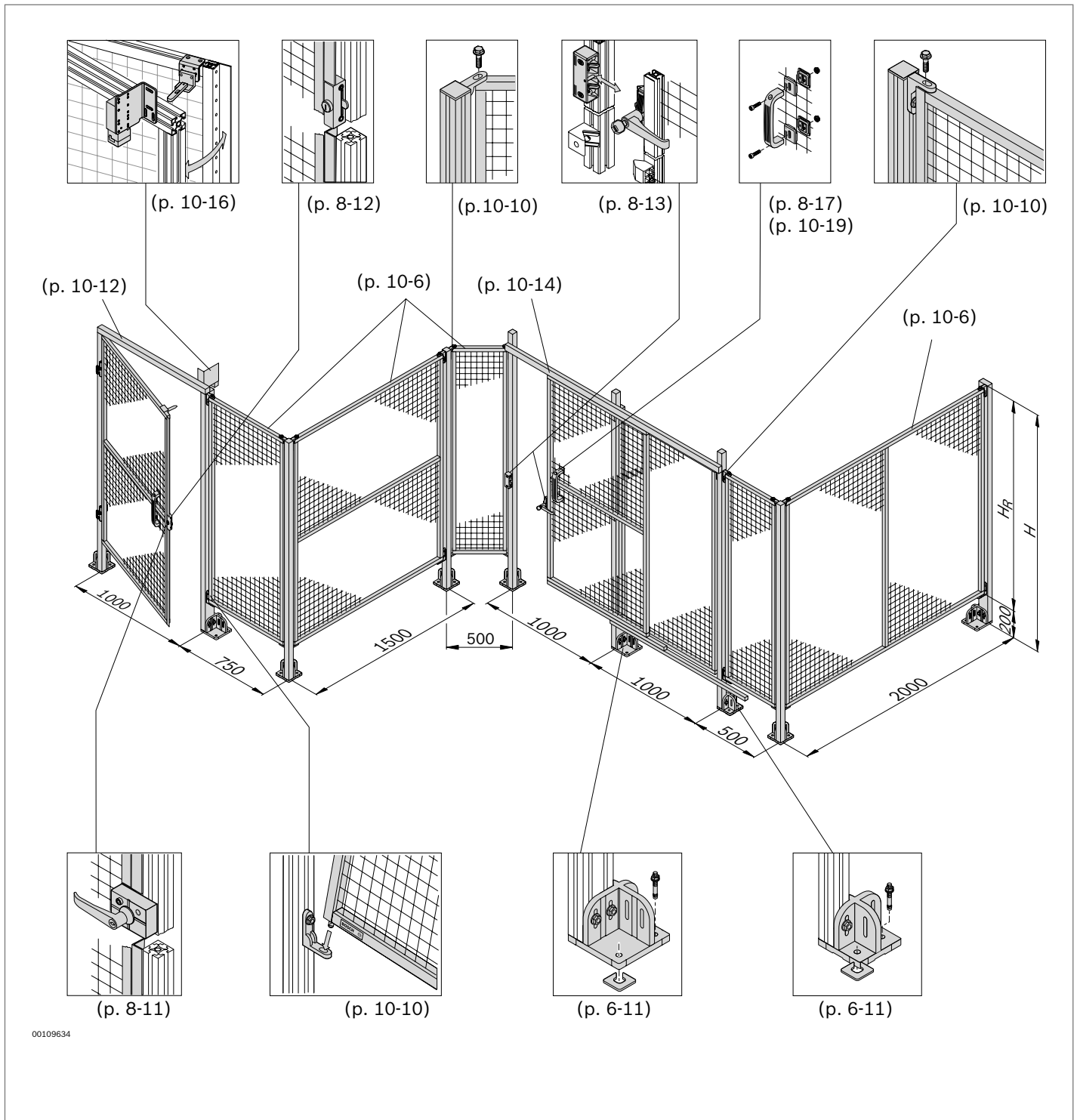
The standard distance between the protective frame and the ground is 200 mm. This gives a distance from the hazard area of 665 mm. According to the standard, openings that

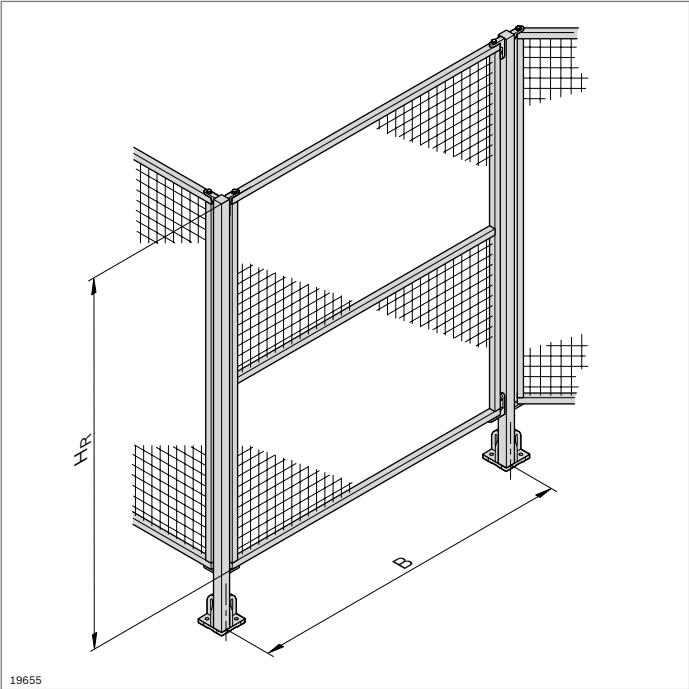
are larger than 180 mm allow the whole body to fit through. Depending on the customer's requirements, the distance from the ground may have to be reduced to < 180 mm.

EcoSafe components for building protective fences



EcoSafe components for building protective fences

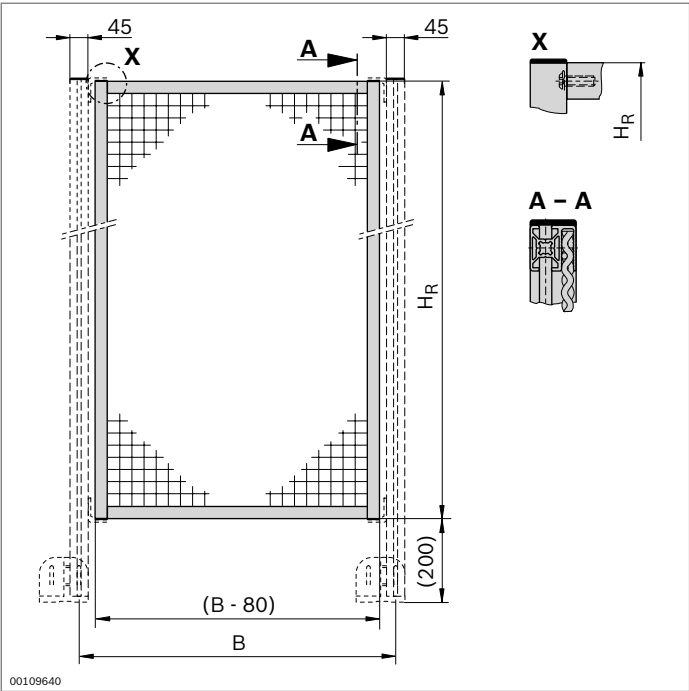




EcoSafe protective frame

- Protective frame made of protective grille profile 30x30 WG40 (p. 10-7) with woven wire grille 40x40x4
- Suitable kits enable the construction of doors (system doors, sliding doors, double doors)
- Fully assembled on delivery
- Simple mounting on the supports using the suspension brackets. Single fitter is sufficient
- Standard widths or customized dimensions
- Horizontally or vertically divided protective frames provide additional stability for large surfaces
- Color-coated woven wire grilles improve visual contrast in the protected area and facilitate recognition of access routes and emergency exit routes
- Modular dimension “B” relates to 45x45 supports

Technical data (p. 19-11)

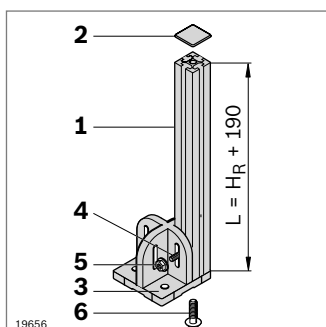
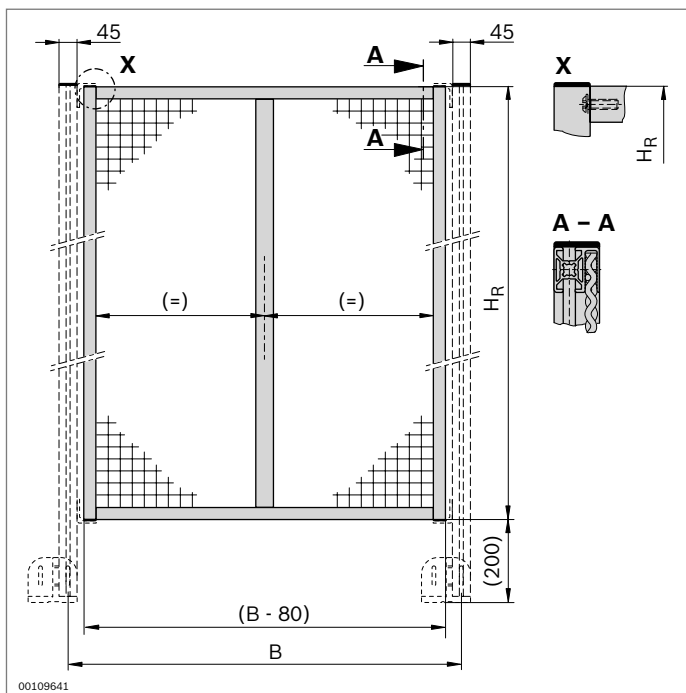
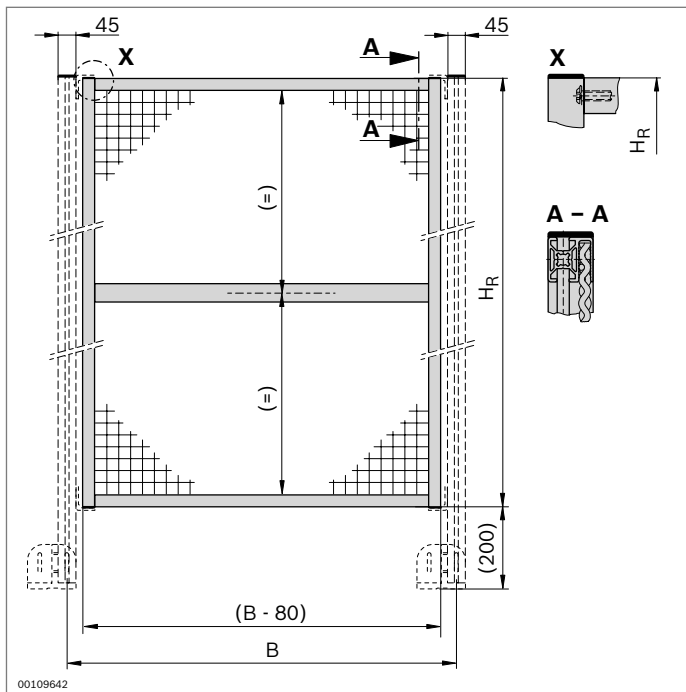


Protective frame	H _R (mm)	B (mm)	No.
	1800	500	3 842 554 282
		750	3 842 554 283
		1000	3 842 554 284
		1500	3 842 554 285
	250 ... 2300	250 ... 1500	3 842 994 742/H_R, B

Material: Frame: aluminum, anodized
Woven wire grille: steel, hot-galvanized

Protective frame	H _R (mm)	B (mm)	No.
Woven wire grille, color-coated	250 ... 2300	250 ... 1500	3 842 994 783 / H_R, B, F

Material: Frame: aluminum, anodized
Woven wire grille: steel, hot-galvanized, painted
Color of woven wire grille: F = 1: black; RAL 9005 (e.g. for fence)
F = 2: yellow; RAL 1023 (e.g. for doors)
Special colors on request



Protective frame, in horizontal sections	H _R (mm)	B (mm)	No.
	1800	1000	3 842 554 281
	500 ... 2300	250 ... 2500	3 842 994 745/H_R, B

Material:	Frame: aluminum, anodized Woven wire grille: steel, hot-galvanized
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Protective frame, in horizontal sections	H _R (mm)	B (mm)	No.
Woven wire grille, color-coated	500 ... 2300	250 ... 2500	3 842 994 785 / H _R , B, F

Material:	Frame: aluminum, anodized
	Woven wire grille: steel, hot-galvanized, painted
Color of woven wire grille:	F = 1: black; RAL 9005 (e.g. for fence)
	F = 2: yellow; RAL 1023 (e.g. for doors)
	Special colors on request

Protective fence, vertical sections	H _R (mm)	B (mm)	No.
	1800	2000	3 842 554 280
	250 ... 2300	500 ... 3000	3 842 994 744/H_R, B

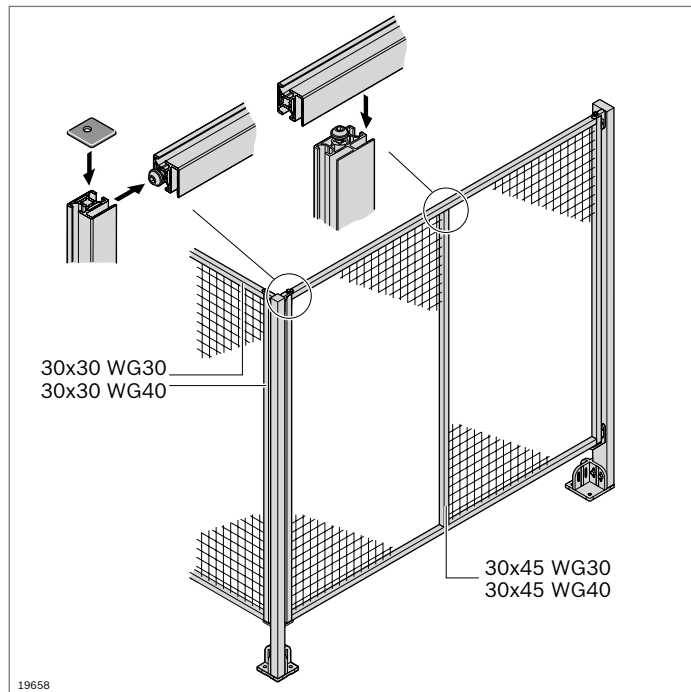
Material:	Frame: aluminum, anodized Woven wire grille: steel, hot-galvanized
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Protective fence, vertical sections	H _R (mm)	B (mm)	No.
Woven wire grille, color-coated	250 ... 2300	500 ... 3000	3 842 994 784 / H _R , B, F

Material:	Frame: aluminum, anodized
	Woven wire grille: steel, hot-galvanized, painted
Color of woven wire grille:	F = 1: black; RAL 9005 (e.g. for fence)
	F = 2: yellow; RAL 1023 (e.g. for doors)
	Special colors on request

Individually construct the supports using MGE components

Component	No.
1 Profile 45x45L (p. 2-35)	3 842 992 425 / L
2 Cap (p. 2-35)	3 842 548 753
3 Base plate 120x120 (p. 6-11)	3 842 527 553
4 T-bolt M8x30 (p. 3-6)	3 842 528 721
5 Flange nut M8 (p. 3-6)	3 842 345 081
6 Central bolt S12x30-T50 (p. 3-38)	3 842 530 236



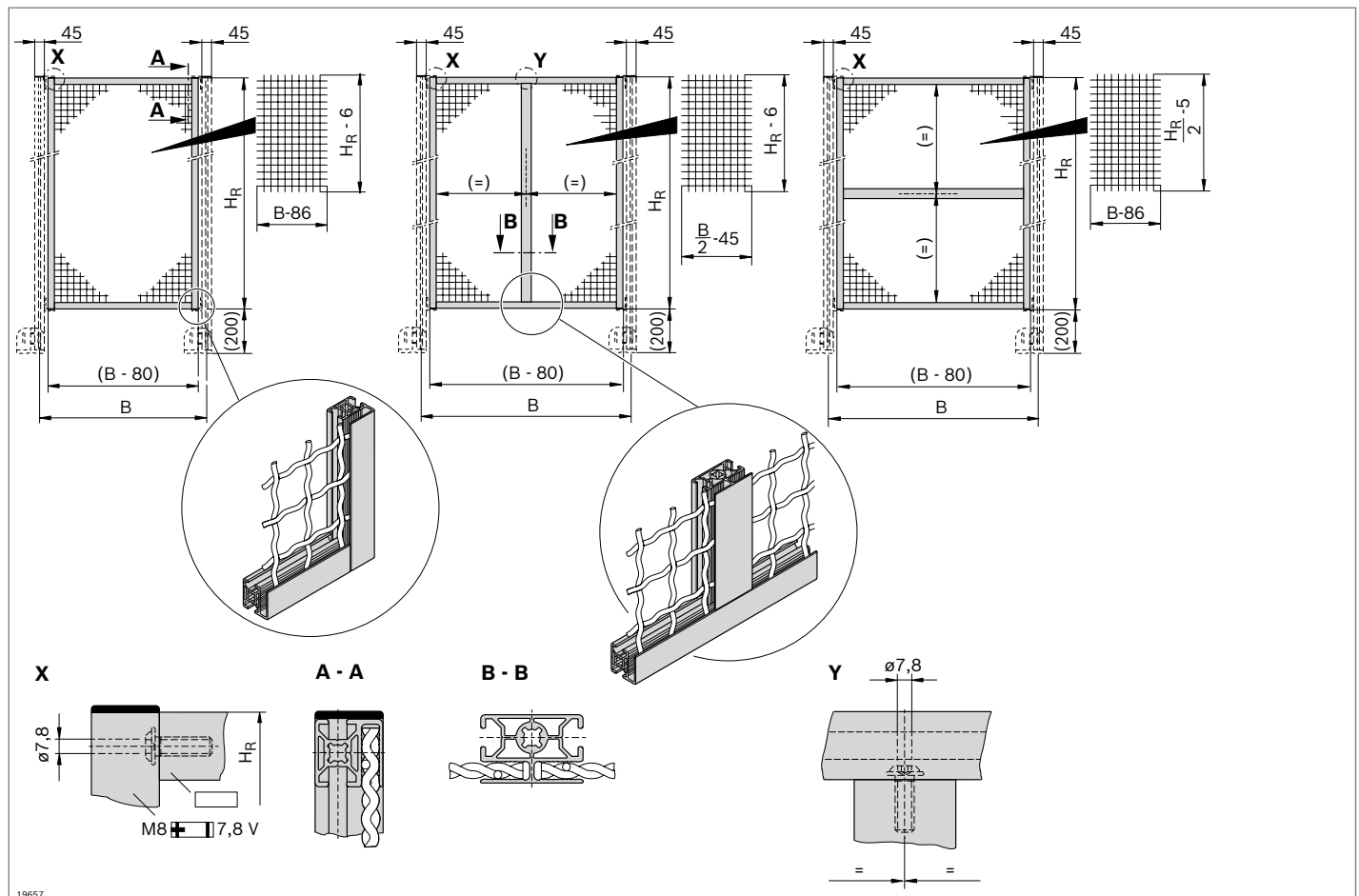
Protective grille profiles

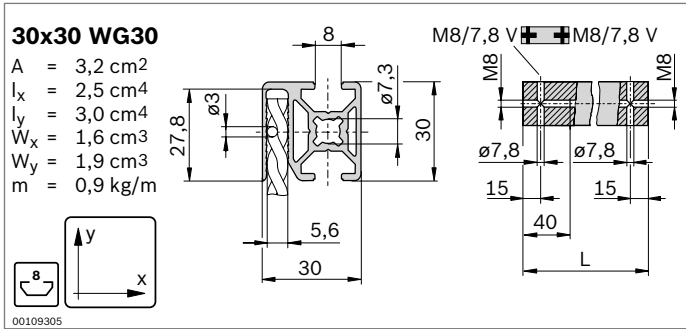


- For the low-cost construction of protective barriers with woven wire grilles WG30 and WG40
- Fastening of woven wire grilles: directly in the special profile slot
- Fastening of surface elements: in the special profile slot using spring clamping elements (accessories)
- The profiles are connected using a central bolt (profile machining required)
- Modular dimension “B” relates to 45x45 supports

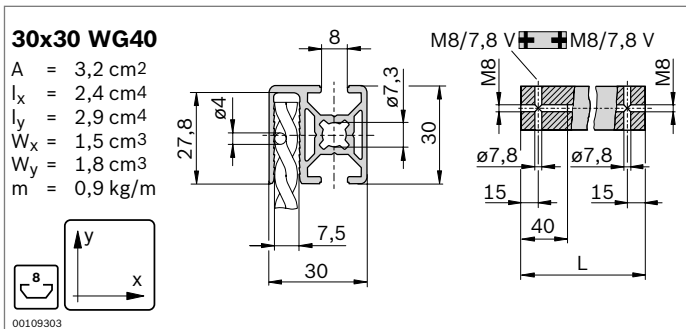
Accessories, required:

- central bolt (p. 3-38)
- woven wire grille (p. 10-6)
- Spring clamping elements (p. 10-21)

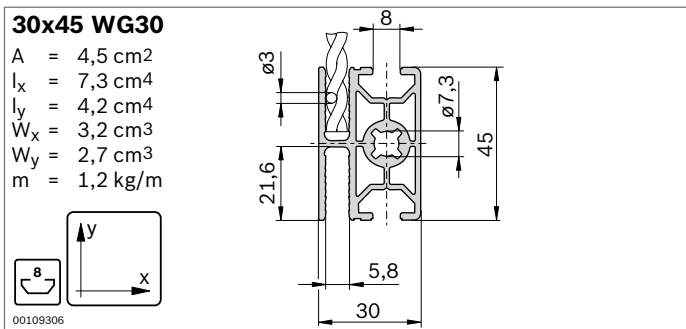




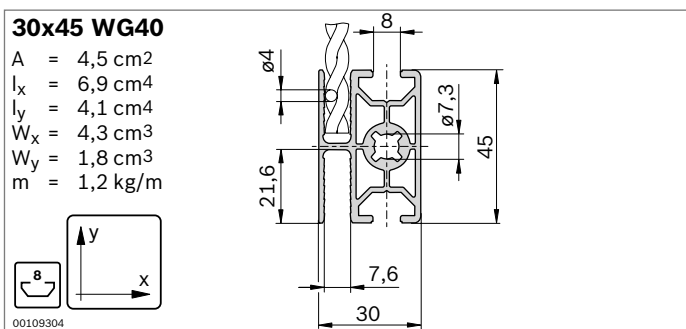
Protective grille profile		L (mm)	No.
30x30 WG30			
1 pc		100 ... 5600	3 842 992 970 / L
1 pc	M8/7,8V M8/7,8V	100 ... 5600	3 842 992 977 / L
20 pcs		5600	3 842 522 462
Material: aluminum, anodized			



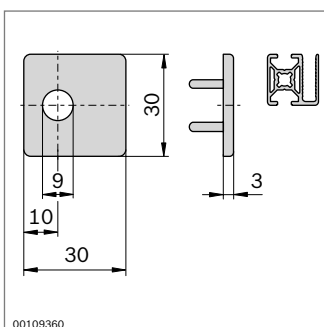
Protective grille profile		L (mm)	No.
30x30 WG40			
1 pc		100 ... 5600	3 842 992 972 / L
1 pc	M8/7,8V M8/7,8V	100 ... 5600	3 842 992 978 / L
20 pcs		5600	3 842 522 464
Material: aluminum, anodized			



Protective grille profile		L (mm)	No.
30x45 WG30			
1 pc		100 ... 5600	3 842 992 971 / L
20 pcs		5600	3 842 522 463
Material: aluminum, anodized			

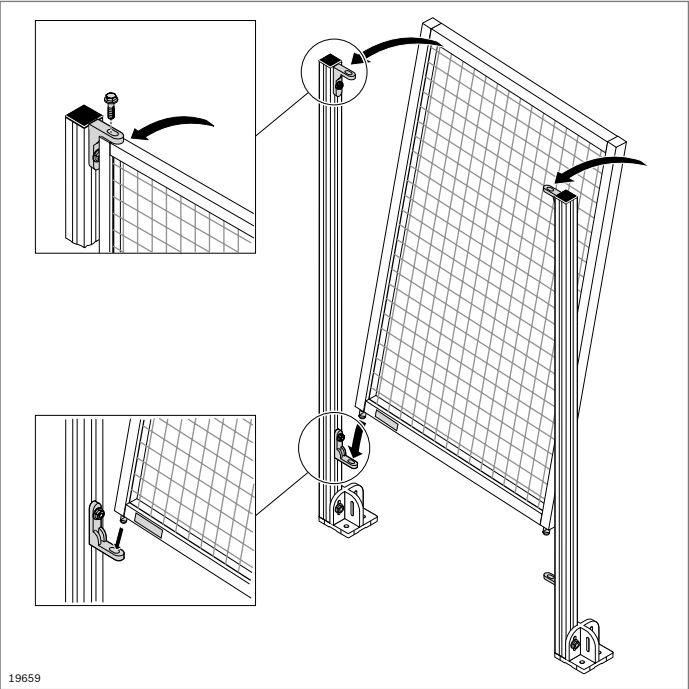


Protective grille profile		L (mm)	No.
30x45 WG40			
1 pc		100 ... 5600	3 842 992 973 / L
20 pcs		5600	3 842 522 465
Material: aluminum, anodized			



- Cap for a more attractive appearance and to prevent injuries

Cap 30x30		No.
		100 3 842 522 345
Material: PA; black		



Suspension bracket
Safety Strip safety kit

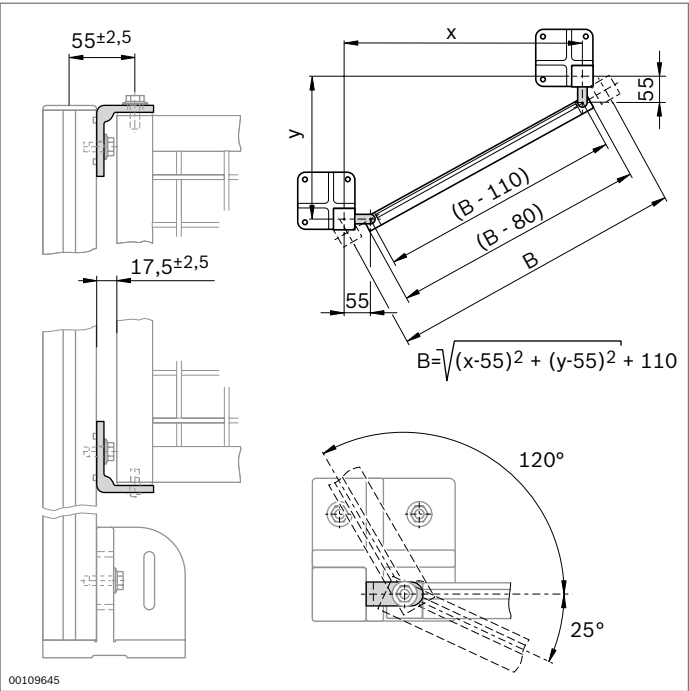


Suspension bracket

- For mounting the EcoSafe protective frame on the support at various angles
- Suspension bracket with centering lugs as anti-torsion element

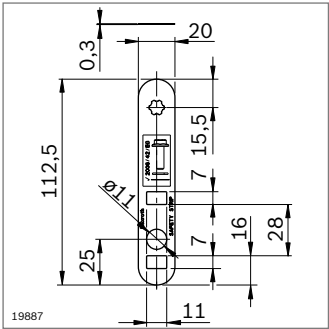
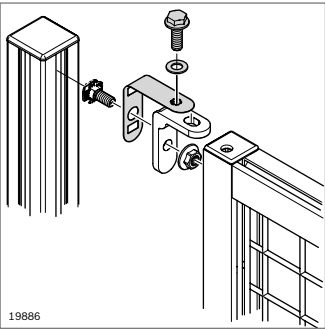
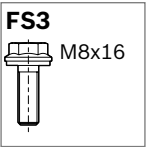
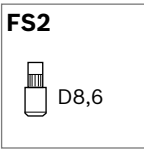
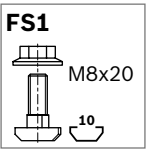
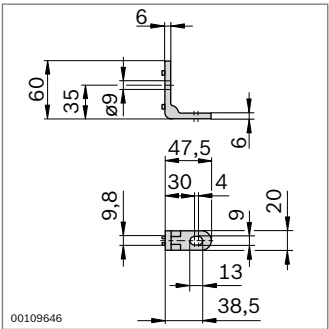
Safety Strip safety kit

- Safe and inexpensive
 - Easy assembly; can be retrofitted
 - Patented
 - Meets the requirements of Machinery Directive 2006/42/EC
- Screw remains connected to the suspension bracket after loosening



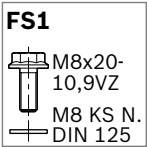
Suspension bracket	No.	FS
Set	3 842 522 481	4xFS1, 2xFS2, 2xFS3

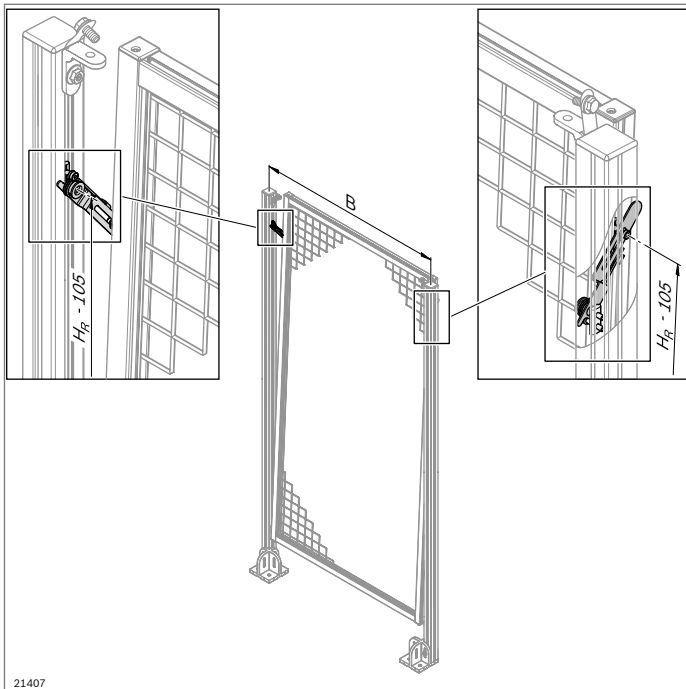
Material: diecast zinc
Fastening material: steel; galvanized
Scope of delivery: In a set with four brackets, incl. fastening material (FS)



Safety Strip safety kit	No.	FS
10	3 842 542 146	FS1

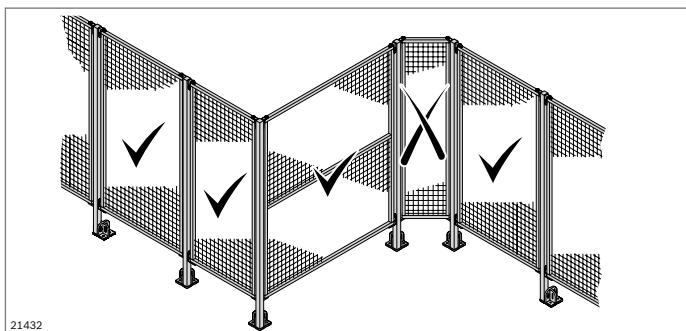
Material: PP granulate
Scope of delivery: Incl. fastening material (FS)





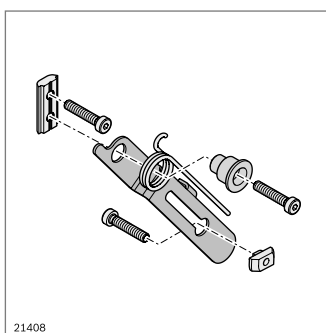
Tilt lever

- For compliance with the requirement in Machinery Directive 2006/42/EC relating to the detaching of protective frames
 - The long-arm spring is designed so that it tilts the protective frame outwards, making it clear that the protective frame is detached
 - The protective frame cannot fall out
- Easily removable EcoSafe protective frames
- Can be retrofitted
- Installation on both sides recommended for EcoSafe protective frames of width $B > 1500$ mm



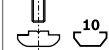
Possible installation situation:

- not suitable for installing the protective frame across a corner



FS1

DIN 7984
M5x20



FS2

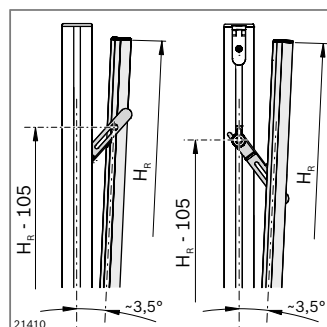
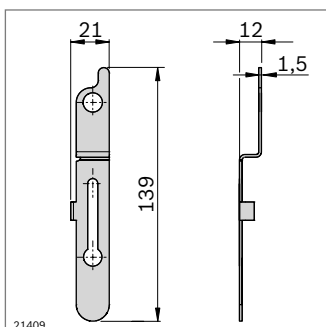
DIN 7984
M5x20

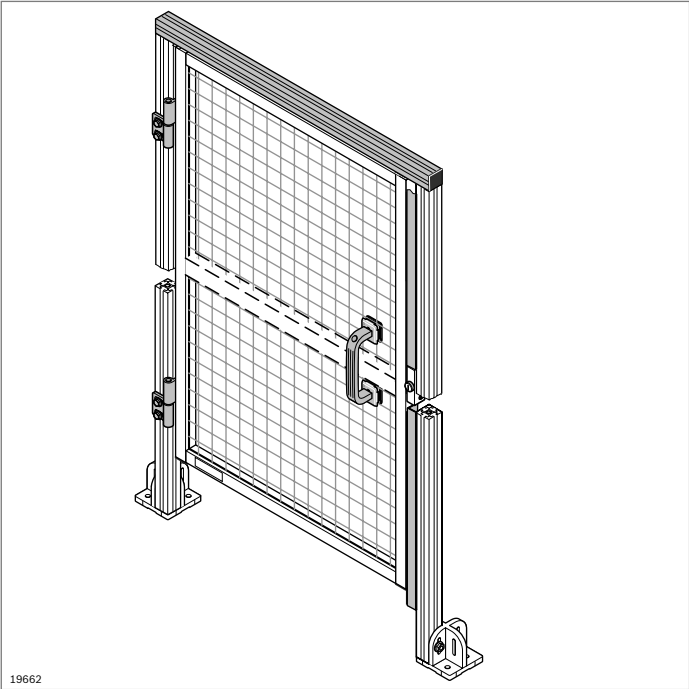


Tilt lever	No.	FS
	3 842 546 560	FS1, FS2

Material: Fixing plate: stainless steel
Spacer: aluminum
Long-arm spring: spring steel

Scope of delivery: Holding plate, spacer, long-arm spring, fastening material (FS)



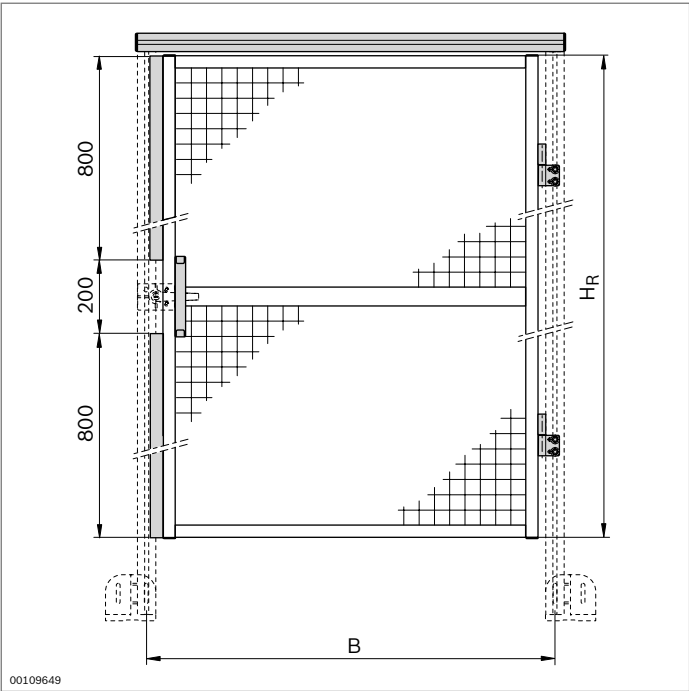


EcoSafe system door kit

- For constructing an EcoSafe system door in the modular dimension system
- Use of finished protective frame as a door
- For doors that open to the left or right
- Required components:
 - assembly kit for system door
 - protective frame (p. 10-6)

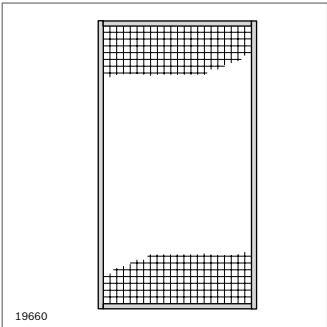
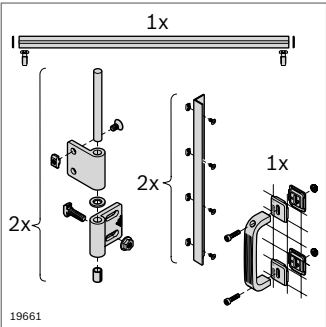
Accessories, optional:

- door lock (p. 8-12)
- attachment kit for safety switch (p. 10-20)



Assembly kit for system door	H _R (mm)	B (mm)	No.
	1800	1000	3 842 523 166
	1800	750	3 842 523 165

Scope of delivery: 2 x hinge, 2 x stop rail, profile as door lintel, bow-shaped handle, incl. fastening material

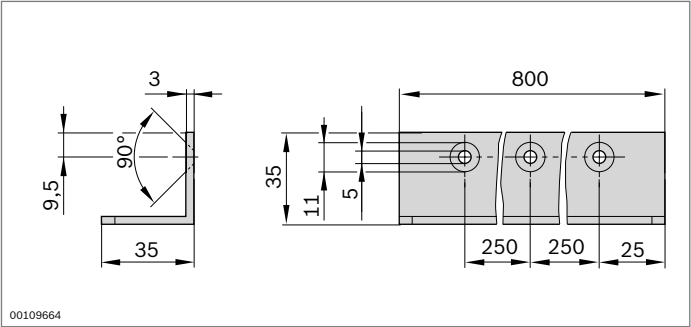


Selection of suitable protective frames

Protective frame	H _R (mm)	B (mm)	No.
Protective frame, in horizontal sections	1800	1000	3 842 554 281
Protective frame	1800	750	3 842 554 283

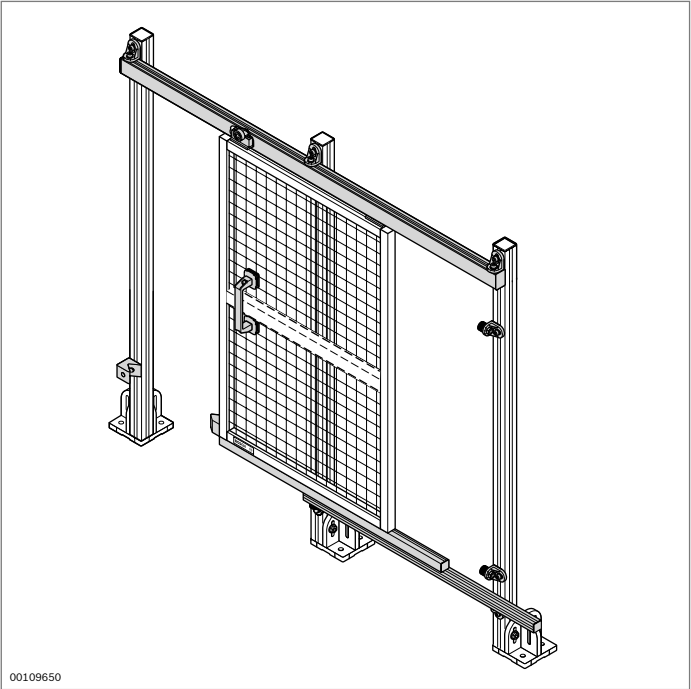
Material: Aluminum, anodized; woven wire grille and fastening material: steel; galvanized

Scope of delivery: Fully assembled



► System door stop rail for self-assembly

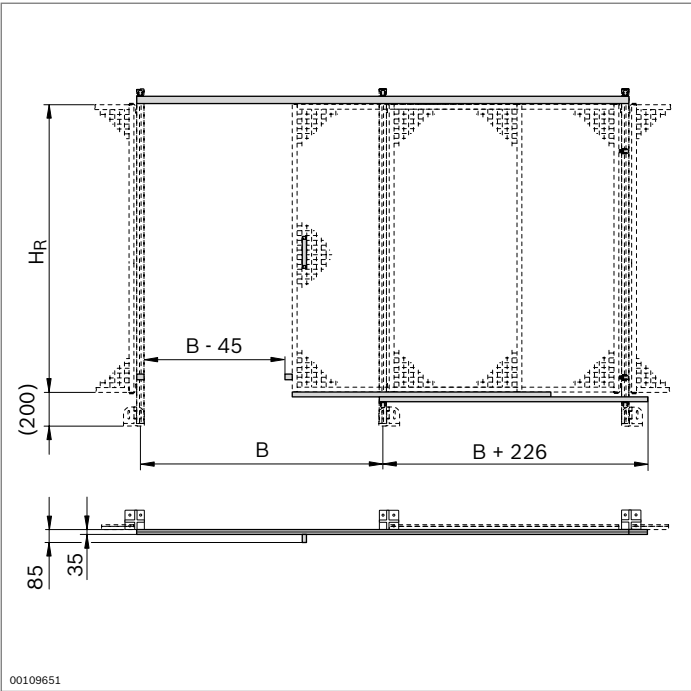
Stop rail	No.
	3 842 523 170



EcoSafe assembly kit for sliding door with superstructure

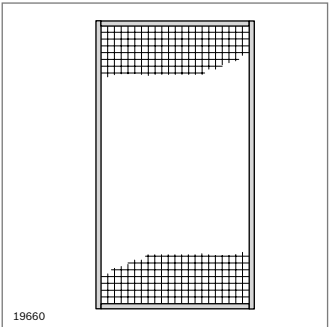
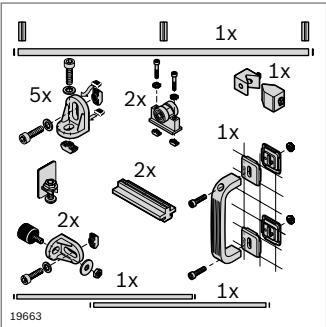
- ▶ Assembly kit for constructing an EcoSafe sliding door with superstructure in the modular dimension system
- ▶ Use of finished protective frame as a door
- ▶ Easy subsequent installation in a protective fence
- ▶ Rollers with ball bearings for smooth running
- ▶ For doors that open to the left or right
- ▶ Required components:
 - assembly kit for sliding door with superstructure
 - protective frame (p. 10-6)

Accessories, optional:
door lock (p. 8-12)



Assembly kit for sliding door with superstructure	H _R (mm)	B (mm)	No.
	1800	1000	3 842 524 163
	1800	1500	3 842 524 164

Scope of delivery: 2 x bump stop, 2 x slider, 2 x trolley, profile for door superstructure, 7 x mounting bracket, stop kit, 2 x profile for sliding door

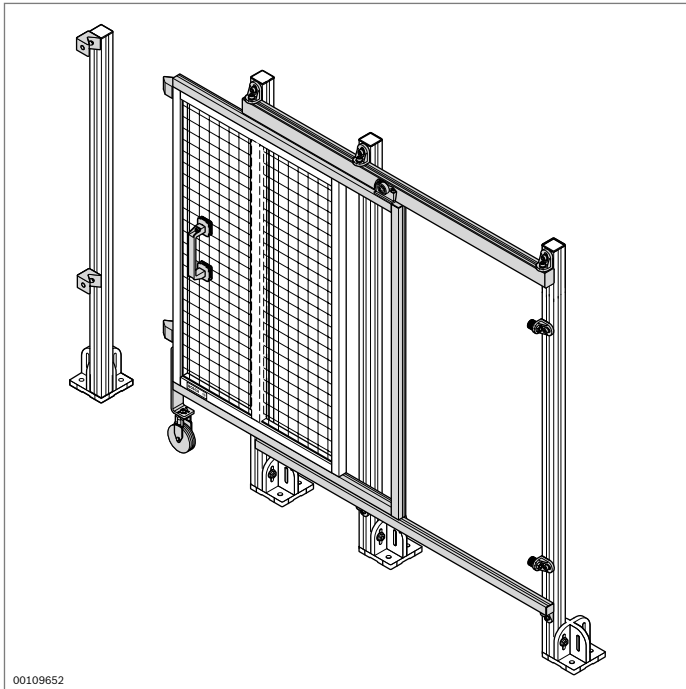


Selection of suitable protective frames

Protective frame	H _R (mm)	B (mm)	No.
	1800	1000	3 842 554 284
	1800	1500	3 842 554 285

Material: Aluminum, anodized; woven wire grille and fastening material: steel; galvanized

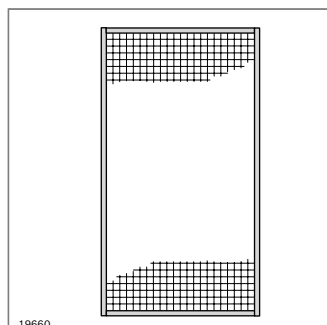
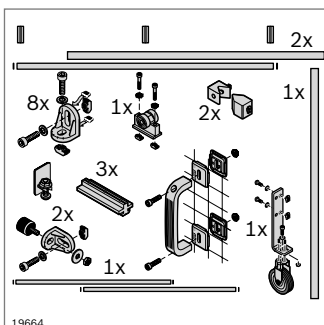
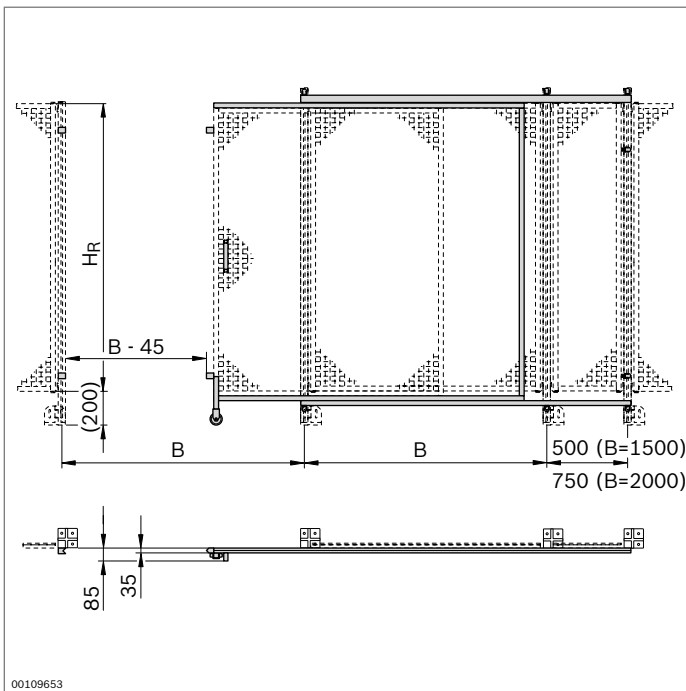
Scope of delivery: Fully assembled



EcoSafe sliding door without superstructure

- ▶ Assembly kit for constructing an EcoSafe sliding door without superstructure in the modular dimension system
- ▶ Use of finished protective frame as a door
- ▶ Easy subsequent installation in a protective fence
- ▶ Rollers with ball bearings for smooth running
- ▶ For doors that open to the left or right
- ▶ Required components:
 - assembly kit for sliding door without superstructure
 - protective frame (p. 10-6)

Accessories, optional:
door lock (p. 8-12)



Assembly kit for sliding door without superstructure	H _R (mm)	B (mm)	No.
	1800	1500	3 842 524 165
	1800	2000	3 842 524 166

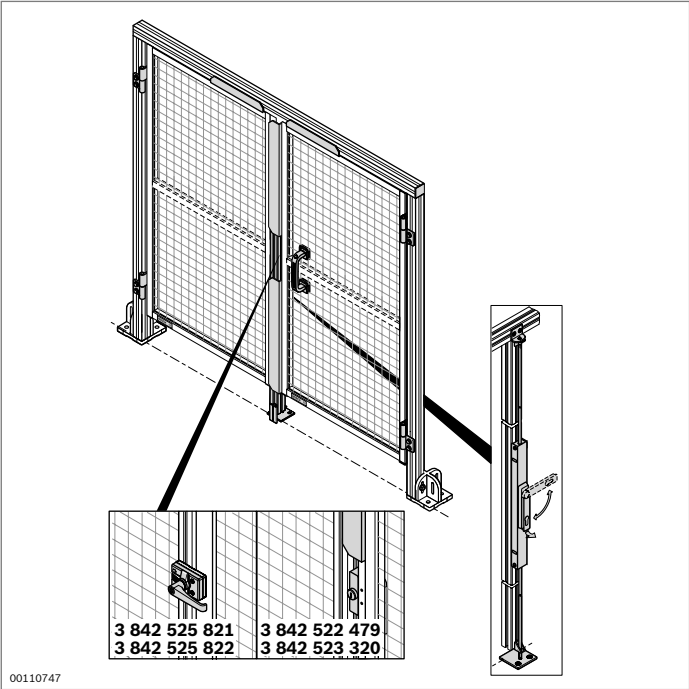
Scope of delivery: 2 x bumper, 3 x slider, trolley, profile for door superstructure, 8 x mounting bracket, 2 x stop kit, 2 x profile for sliding door, incl. fastening material

Selection of suitable protective frames

Protective frame	H _R (mm)	B (mm)	No.
Protective frame	1800	1500	3 842 554 285
Protective fence, vertical sections	1800	2000	3 842 554 280

Material: Aluminum, anodized; woven wire grille and fastening material: steel; galvanized

Scope of delivery: Fully assembled

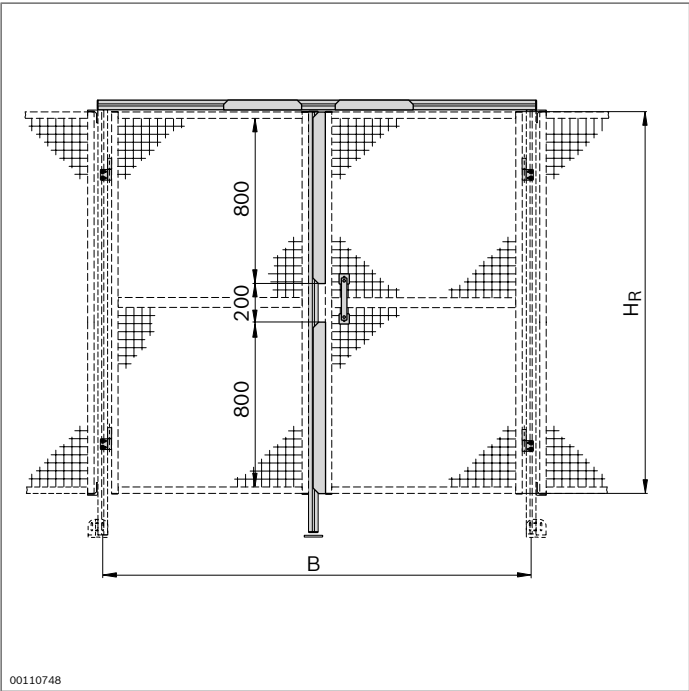


EcoSafe double door kit

- Assembly kit for constructing an EcoSafe double door in the modular dimension system
- Use of finished protective frame as a door
- Easy subsequent installation in a protective fence
- Optional installation of a standard lock cylinder in the lock mechanism for the double door
- Required components:
 - double door assembly kit
 - two protective frames (p. 10-6)

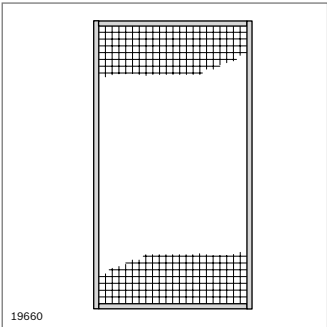
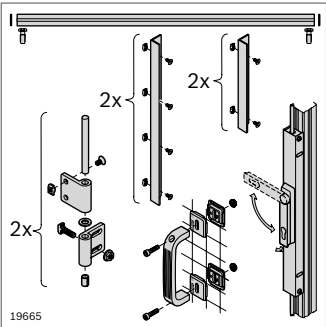
Accessories, optional:

- door lock (p. 8-12)
- attachment kit for safety switch (p. 10-20)
- standard lock cylinder (dimensions, p. 8-14)



double door assembly kit	H _R (mm)	B (mm)	No.
	1800	1500	3 842 525 781
	1800	2000	3 842 525 782

Scope of delivery: Lock mechanism for double door, profile for door superstructure, profile for door stop, 4 x hinge, base plate, bow-shaped handle, 2 x stop bracket for door bolts, 2 x stop bracket for door stop, fastening material

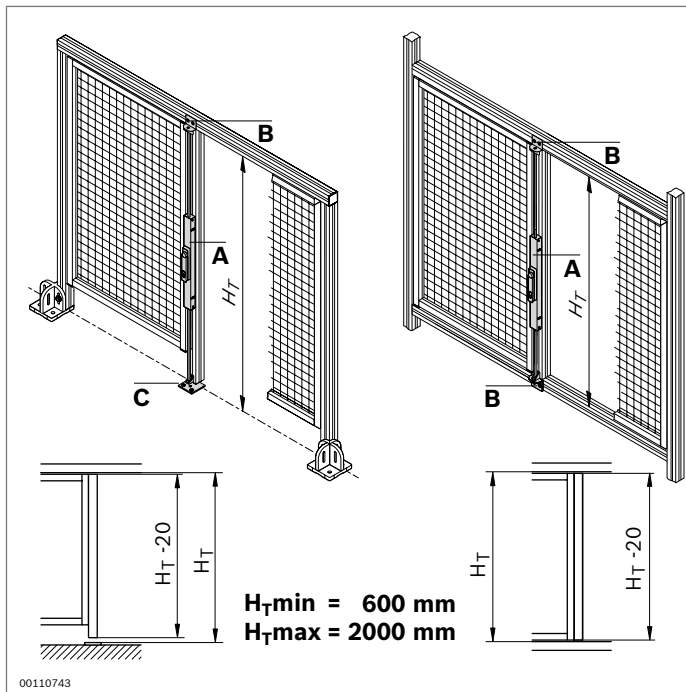


Selection of suitable protective frames

Protective frame	H _R (mm)	B (mm)	No.
Protective frame	1800	750	3 842 554 283
Protective frame, in horizontal sections	1800	1000	3 842 554 281

Material: Aluminum, anodized; woven wire grille and fastening material: steel; galvanized

Condition on delivery: Fully assembled



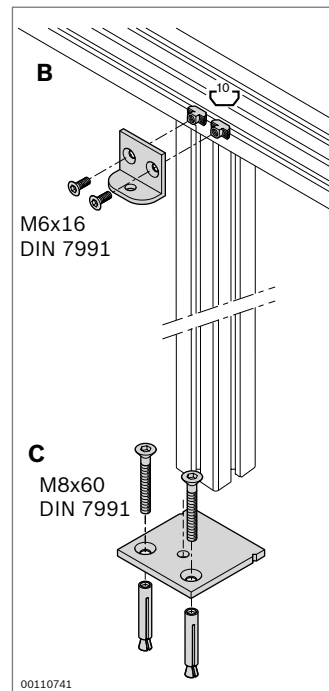
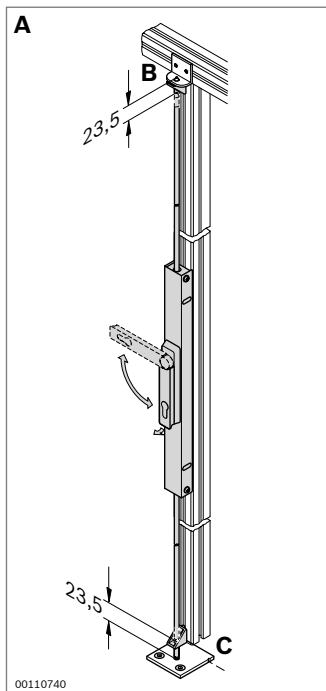
Lock mechanism for double door



- Components for constructing a lock mechanism for double doors
- Optional installation of a standard lock cylinder in the lock mechanism for the double door
- Locking mechanism assembly kit (A) for individually designed double doors with $H_{Tmax} = 2000 \text{ mm}$
- Lock bracket (B) for mounting the lock bolt bar
- Base plate (C) for mounting the lock bolt bar; fastened to the floor with supplied dowels. For doors which can be driven through

Accessories, optional:

standard lock cylinder (dimensions, p. 8-14)



Lock mechanism assembly kit	No.	FS
A	3 842 525 780	2xFS1, 2xFS2, 4xFS3

Material: Housing: aluminum
 Door handle: PA; black
 Lock bolt: steel; galvanized
 Lock bolt guide bracket: diecast zinc

Scope of delivery: Lock mechanism for double door, incl. fastening material (FS)

Lock bracket	No.	FS
B	3 842 526 786	2xFS4

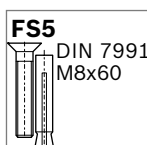
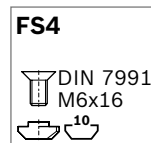
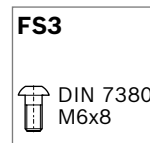
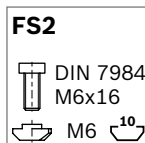
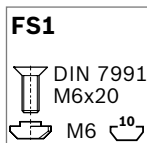
Material: Aluminum, anodized

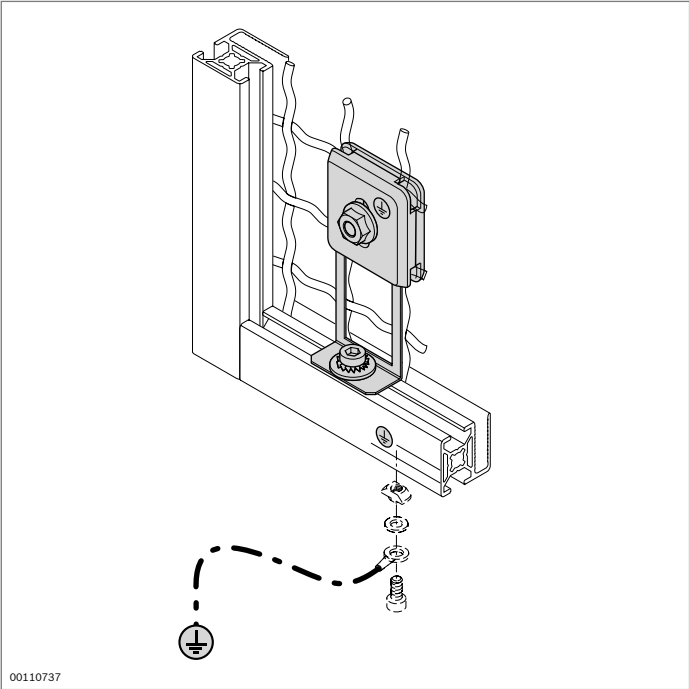
Scope of delivery: Incl. fastening material (FS)

Base plate	No.	FS
C	3 842 526 787	2xFS5

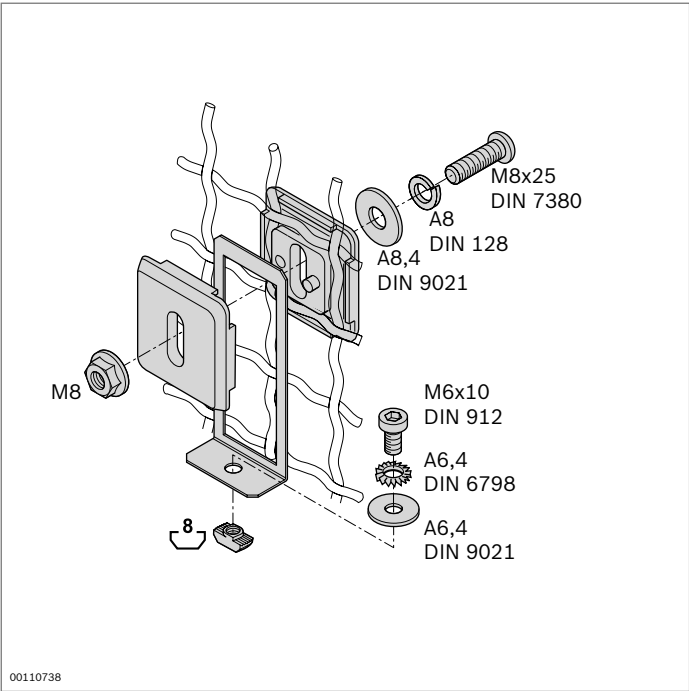
Material: Floor plate: steel; stainless
 Floor dowels: steel; galvanized

Scope of delivery: Incl. fastening material (FS)





00110737



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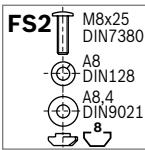
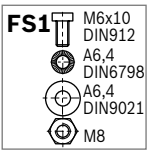
Earthing terminal

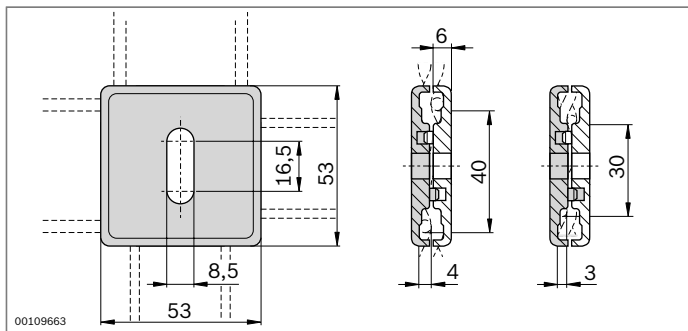
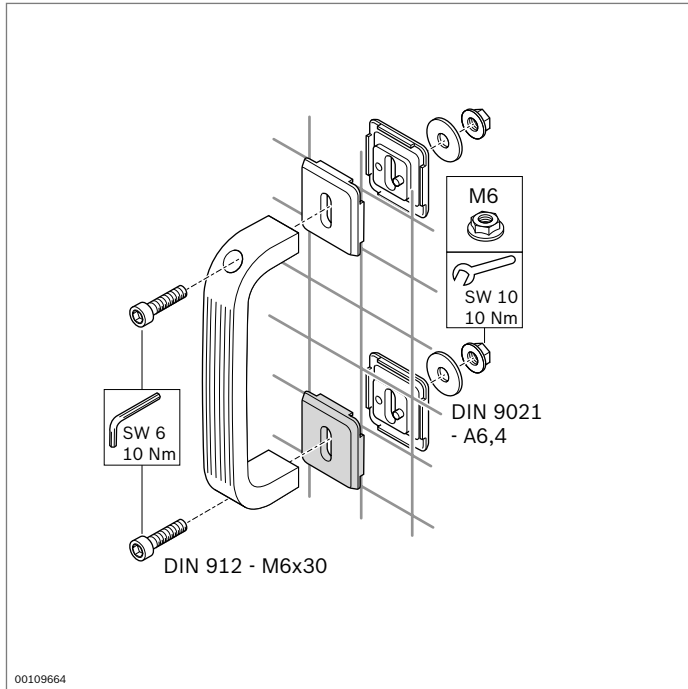


- For creating an electrically conductive connection between the woven wire grille and protective frame
- Connect the protective conductor via the ESD-conductive connection elements (e.g. T-nut)
- Guarantees safe conduction of short-circuit currents up to a rated current of 63 A

Earthing terminal	No.	FS
	3 842 525 833	FS1, FS2

Material: Earthing terminal: steel; stainless
Clamping element: PA; black
Fastening material: steel; galvanized
Scope of delivery: Incl. fastening material (FS)





Clamping element

- For attaching handles, information boards or warning signs to woven wire grilles 40x40x4 and 30x30x3
- Clamping with opposing pairs of clamping elements

Accessories, required:
fastening material; see drawing

Clamping element

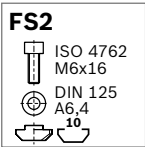
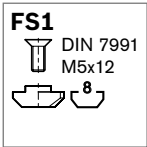
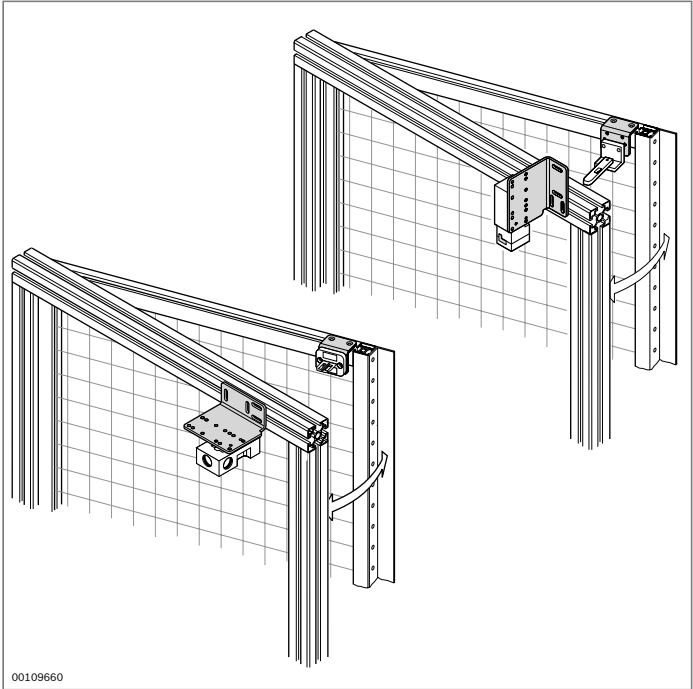


No.

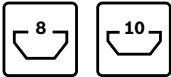
20

3 842 523 308

Material: PA66; black



Attachment kit for safety switch

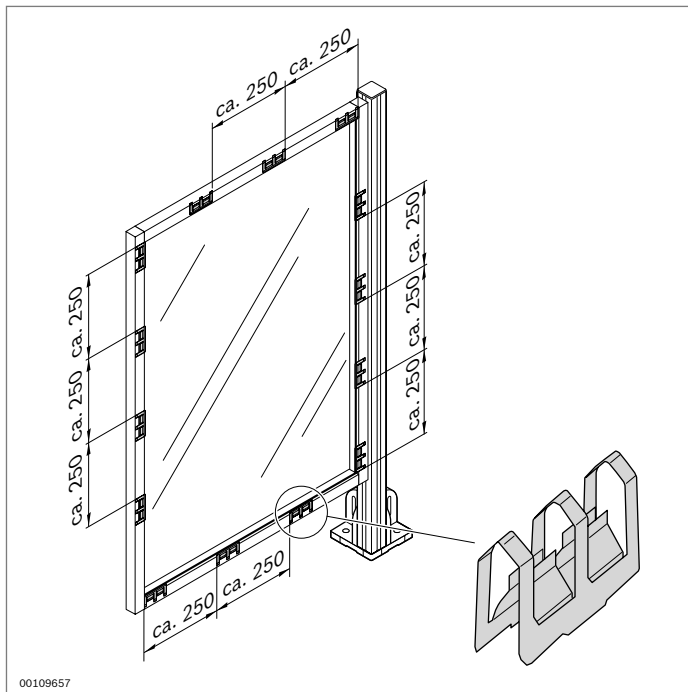


- For installing standard commercially available safety switches on EcoSafe system doors

Attachment kit for safety switch		No.	FS
For safety switch	For activator		
Euchner NZ 1 VZ...	024298; 024299	3 842 522 475	2xFS1, 2xFS2
Euchner NZ 2 VZ...	024298; 024299		
Euchner NZ 1 VS...	024298; 024299		
Euchner NZ 2 VS...	024298; 024299		
Schmersal AZ15,...	AZ15/16-B2-1747		
Schmersal AZ16...	AZ15/16-B2-1747		
Schneider Electric XCS - A...	XCS-Z03	3 842 522 476	2xFS1, 2xFS2
Schneider Electric XCS - C...	XCS-Z03		
Schneider Electric XCS - PA...	XCS-Z13		
Schneider Electric XCS - TE...	XCS-Z13		
Euchner TZ...	024298; 024299		
Schneider Electric XCS - LE/ LF...	XCS-Z03		
Schneider Electric XCS - TE...	XCS-Z13	3 842 522 477	2xFS1, 2xFS2
Schneider Electric XCS - PA...	XCS-Z13		
Schmersal AZM161...	AZM161-B1		
Schmersal AZM161...	AZM161-B1E	3 842 522 477	2xFS1, 2xFS2

Material: Steel; galvanized

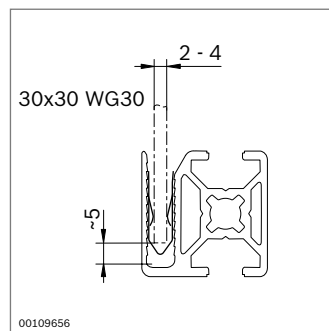
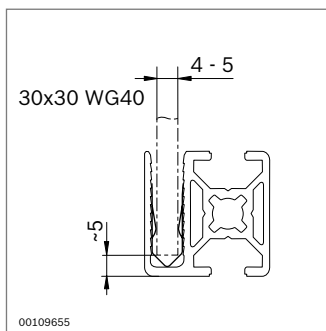
Scope of delivery: Incl. adapter plate, bracket,
incl. fastening material (FS)



Spring clamping element

- For clamping surface elements in EcoSafe protective fence profiles 30x30 WG30 and 30x30 WG40
- Play-free clamping
- Individual sections of the protective frames can be filled as you wish

10



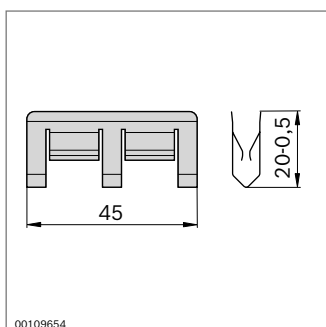
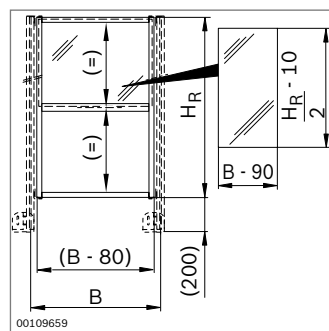
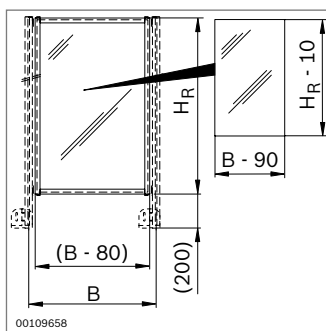
Spring clamping element

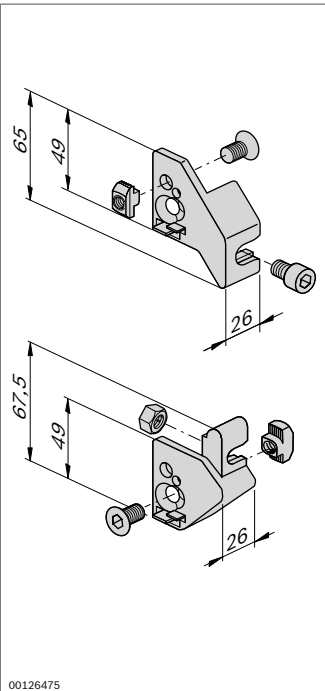
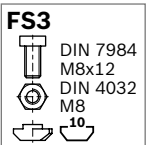
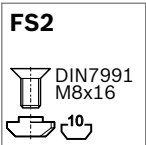
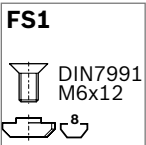
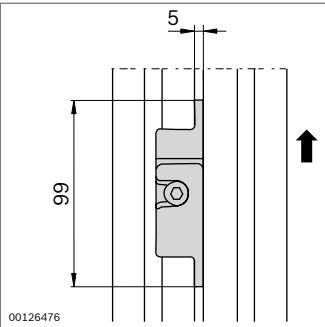
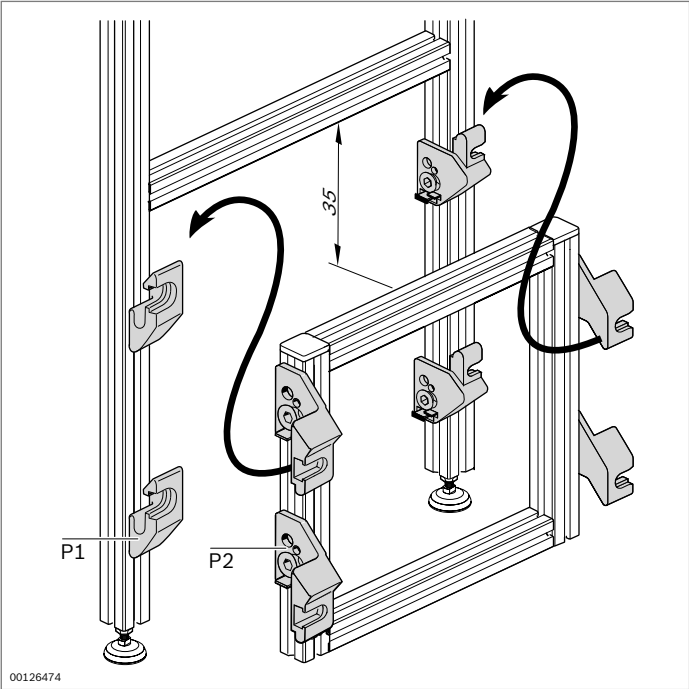


No.

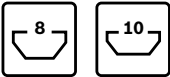
100 **3 842 525 014**

Material: Spring steel, stainless





Suspension piece for frames



- Very quick fitting and removal of pre-assembled frames in prepared supporting structures
- Protection against unintentional lifting out due to both parts of the suspension piece being screwed in
- Notes on compliance with the Machinery Directive 2006/42/EC: Please note that fastening parts may work loose during disassembly

Suspension piece	P1	P2	No.	FS
Set	45	30	3 842 515 531	4xFS1, 4xFS2, 4xFS3
Set	45	45	3 842 515 863	8xFS2, 4xFS3

Material: diecast zinc
Scope of delivery: Four suspension pieces, incl. fastening material (FS)

Installation elements



Cable duct PA (p. 11-2)



Cable duct AL (p. 11-3)



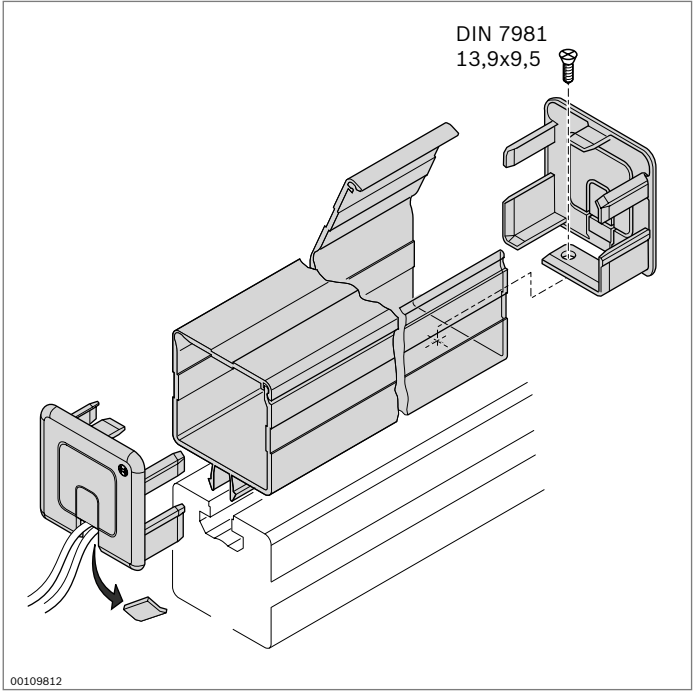
Cable bracket (p. 11-9)



Quick-lock (p. 11-10)

Electrical leads must be neatly laid, because only if they have been installed in an orderly way can electrical faults be easily located and eliminated.

Cable ducts and cable brackets are therefore important elements in terms of maintenance-friendly electrical installation on all kinds of constructions made of basic mechanical elements.



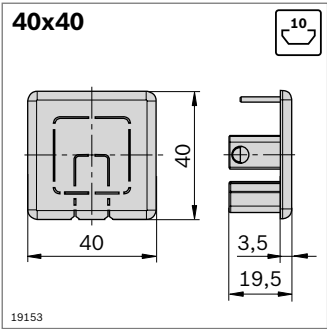
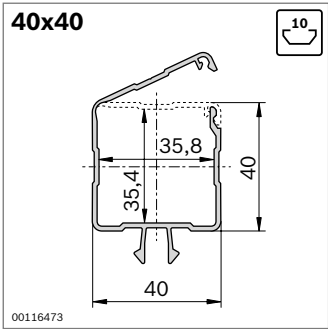
Cable duct



- ▶ Cable duct for routing electrical lines
- ▶ Captive cover
- ▶ Really easy to access
- ▶ Large usable volume
- ▶ Simple, fast assembly – just clips into the 10 mm slot
- ▶ Cover cap for sealing the cable duct with pre-punched holes for running cables through

Accessories, required:

Screw DIN 7981 3.9 x 9.5 for fastening the cover cap on the cable duct

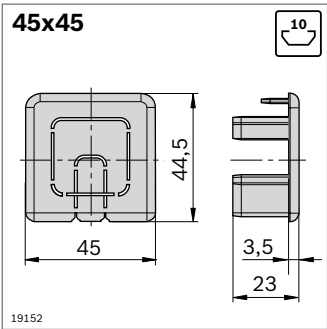
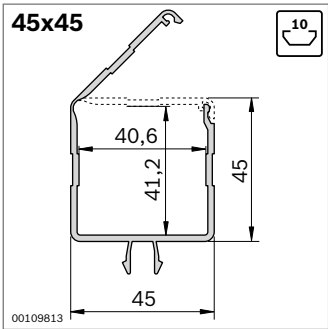


	L (mm)		No.
Cable duct 40x40	2000	1	3 842 532 363
Cover cap 40x40		10	3 842 535 921

Material:

Cable duct: PVC, black

Cover cap: PA; black

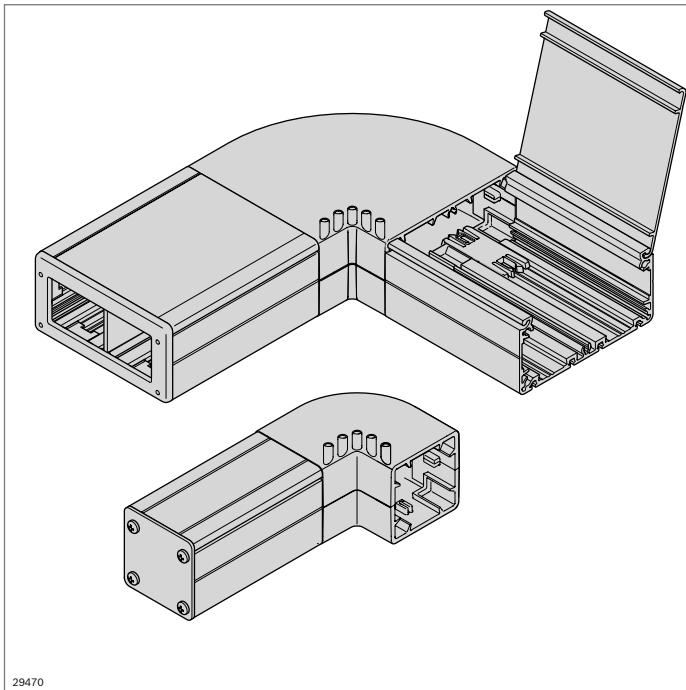


	L (mm)		No.
Cable duct 45x45	2000	1	3 842 523 014
Cover cap 45x45		10	3 842 535 676

Material:

Cable duct: PVC, black

Cover cap: PA; black

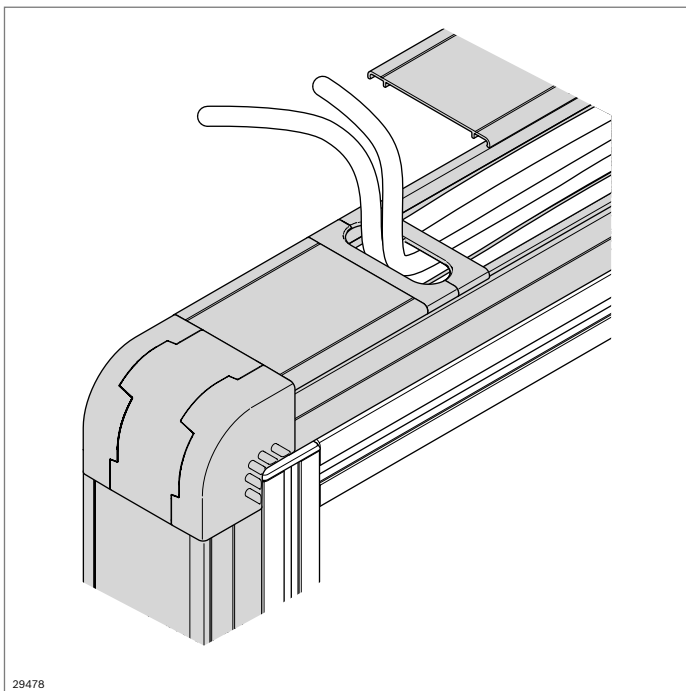


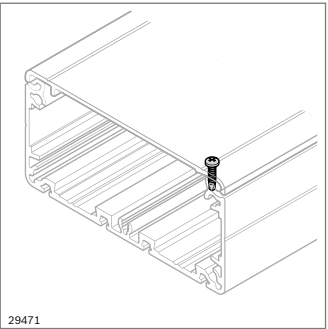
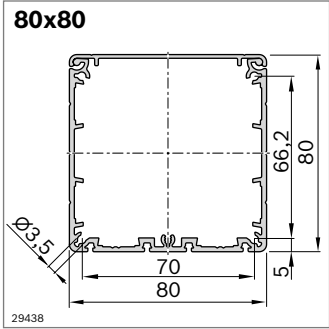
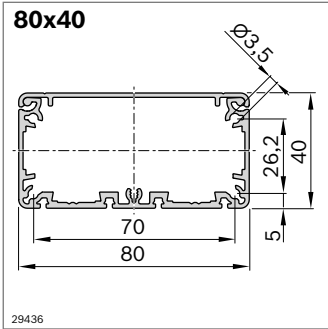
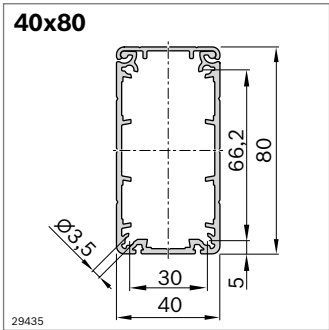
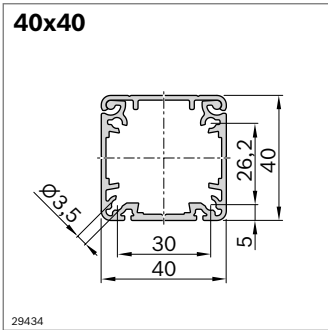
Aluminum cable duct



- ▶ Can be either clipped or screwed onto the support profile
- ▶ Sizes 40x40, 40x80, 80x40, 80x80
- ▶ Drilling aids for easy machining
- ▶ Dovetail attachment option
- ▶ Suitable for installing on profiles with modular dimensions of 40 and 45 mm
- ▶ Interior can be divided into sections (size 80x40 and 80x80) for laying different electric cables (EMC) or lines
- ▶ ESD-conductive
- ▶ High-quality, attractive-looking external finish due to anodized duct surface and cover plate
- ▶ Edge protector for protecting the cables/lines from being damaged on rough edges
- ▶ PG screw fastenings possible in the side wall and cover plate (mechanical finishing)
- ▶ Fitting of sockets, switches etc. possible (mechanical finishing)
- ▶ Screw holes for secure fastening of the cover plate
- ▶ Cable duct cover can be screwed to the bearing/support structure
- ▶ VDE certified
- ▶ Compliant with DIN EN 50085-1 and 50085-2-1 standards

11





Aluminum cable duct

- ▶ Cable duct pre-assembled (cover and bearing/support structure)
- ▶ Usable length 3000 mm (delivered in 3100 mm lengths)
- ▶ Cover can be secured with a self-tapping screw

Accessories, optional: self-tapping screw **3 842 552 267**

Cable duct with AL cover plate			L (mm)	No.
	12 pcs	40x40	3000	3 842 552 268
	12 pcs	40x80	3000	3 842 552 270
	12 pcs	80x40	3000	3 842 552 273
	6 pcs	80x80	3000	3 842 552 275

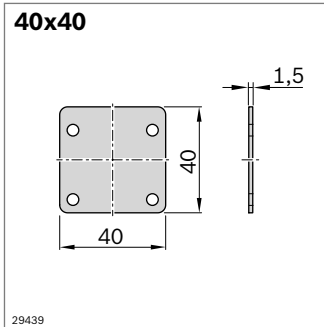
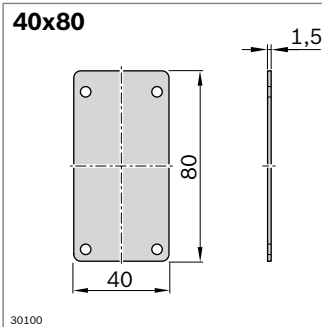
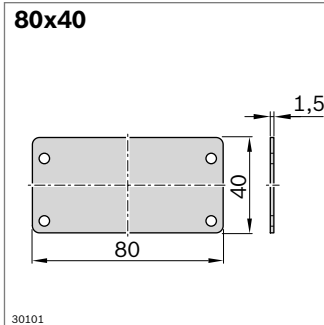
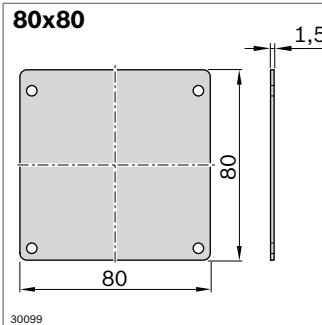
Material: aluminum, anodized

Self-tapping screw

- ▶ For securing the cover plate on the cable duct
- ▶ Produces conductive connection between the cover plate and cable duct

Self-tapping screw			No.
Ze. Pi. 3.5 x 9.5		10	3 842 552 267

Material: steel; galvanized

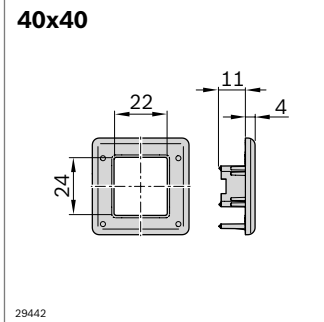
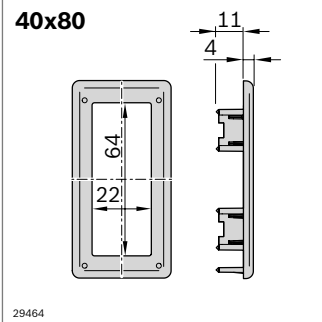
40x40

40x80

80x40

80x80

Cover plate

- Seals the end face of the cable duct
- Fastened securely with screws
- Openings for PG screw fastenings can be provided through mechanical finishing

Cover plate		No.
40x40	10	3 842 552 249
40x80	10	3 842 552 250
80x40	10	3 842 552 251
80x80	10	3 842 552 252

Material: Cover plate: aluminum, anodized
 Pressed edges: aluminum, plain
 Screw: steel; galvanized

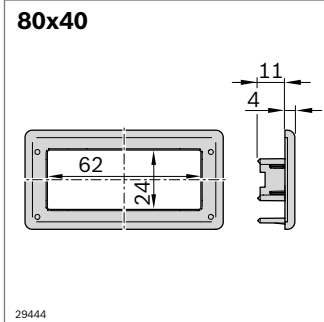
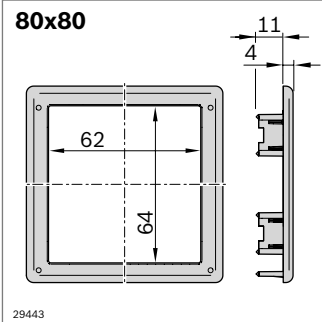
Scope of delivery: Cover plate incl. fastening screws

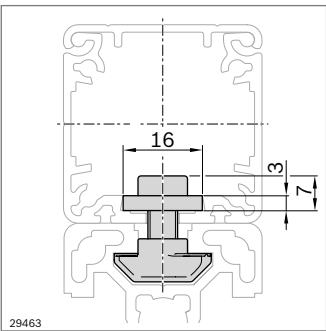
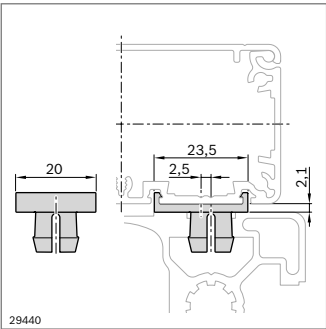
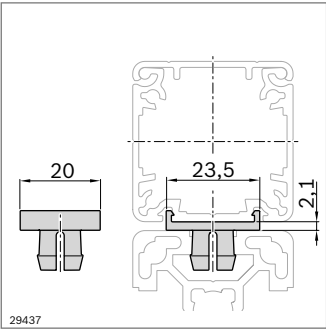
40x40

40x80

Edge protector

- Used to protect the cables if there is an end-face cable outlet
- Can be pushed and also screwed into position
- Can be used to protect the cable at lateral outlets

Edge protector		No.
40x40	10	3 842 552 253
40x80	10	3 842 552 254
80x40	10	3 842 552 255
80x80	10	3 842 552 256

Material: PP; signal gray RAL 7004

80x40

80x80




Mounting base

- For machining-free mounting of the cable duct on the support profile
- Insulates the cable duct from the support profile

Symmetrical mounting base

- “Symmetrical” design for central mounting of the cable duct on profiles with just one slot on the mounting side, and on multi-slot profiles with 40 mm modular dimension

Mounting base		No.
Symmetrical	10	3 842 552 247
Material: PP; signal gray RAL 7004		

Symmetrical mounting base

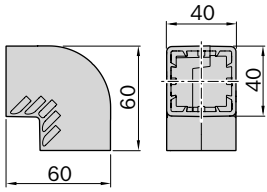
- “Symmetrical” design for central mounting on profiles with multiple slots on the mounting side and 45 mm modular dimension

Mounting base		No.
Asymmetrical	10	3 842 552 248
Material: PP; signal gray RAL 7004		

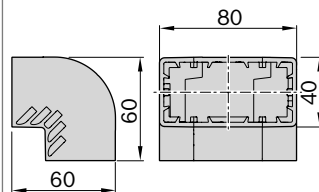
Fastening kit

- For screwing the cable duct to the support profile
- Secure force transmission without deformation of the mounting surface
- Cable duct has to be drilled (diameter: 6.4 mm)
- Recommendation: insert every 500 mm

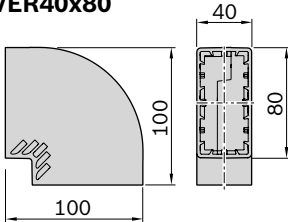
Fastening kit		No.
10	10	3 842 548 997
Material: Steel; galvanized		
Scope of delivery: Insert sheet; T-nut M6, 10 mm slot; screw M6x16		

**HOR40x40
VER40x40**


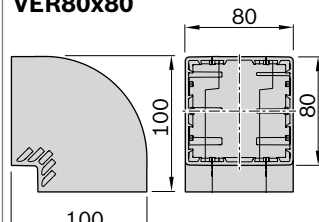
29447

**HOR40x80
VER80x40**


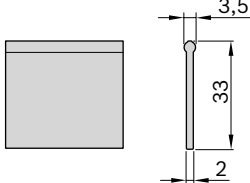
29449

**HOR80x40
VER40x80**


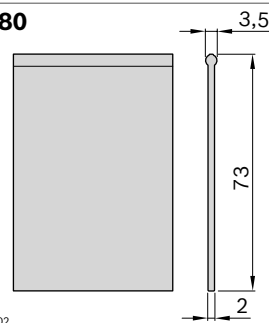
29448

**HOR80x80
VER80x80**


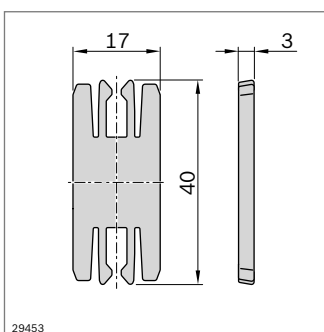
29458

H40


29450

H80


30102



29453

Curve

- ▶ 90° curve in horizontal and vertical direction
- ▶ Modular design
- ▶ Cable ducts connected together with push-in connecting elements
- ▶ Cable ducts can be made conductive by using supplied potential equalizing cable

Curve		No.
HOR40x40; VER40x40	1	3 842 552 257
HOR40x80; VER80x40	1	3 842 552 258
HOR80x40; VER40x80	1	3 842 552 259
HOR80x80; VER80x80	1	3 842 552 260

Material: PP; signal gray RAL 7004

Scope of delivery: Curve, connecting elements, potential equalizing cable

Dividing strip

- ▶ Divides the cable duct into 2 chambers for carrying different electric cables, e.g. electricity and data cables
- ▶ Push-in installation
- ▶ Bendable, so it can also be used on curves

Dividing strip		No.
H40 L=3000 mm	10	3 842 552 245
H80 L=3000 mm	10	3 842 552 246

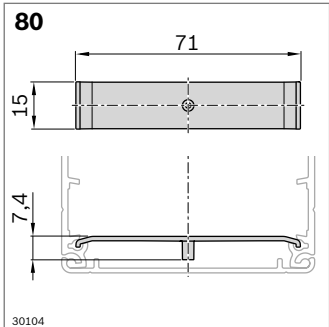
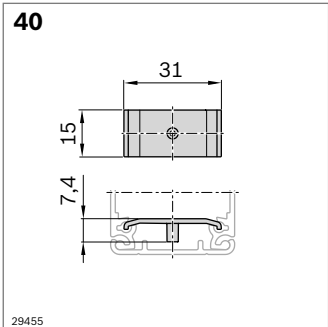
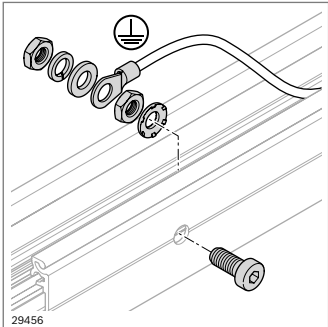
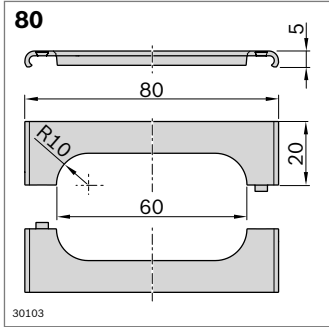
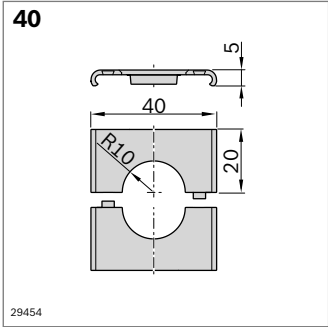
Material: PP; signal gray RAL 7004

Connecting element

- ▶ Extension of ends of cable ducts
- ▶ For connecting cable duct with curve
- ▶ ESD-conductivity of both cable ducts can be established by using an overlapping cover and self-tapping screw (p. 11-4)

Connecting element		No.
	10	3 842 552 240

Material: PP; signal gray RAL 7004



Cable hole

- For passing cables through within the cover

Cable hole		No.
40	10	3 842 553 973
80	10	3 842 553 974

Material: PP; signal gray RAL 7004

Potential equalizer

- DIN EN 0100-410 compliant:
- For connecting the cable duct to an earthed protective conductor

Potential equalizer		No.
10	10	3 842 552 263

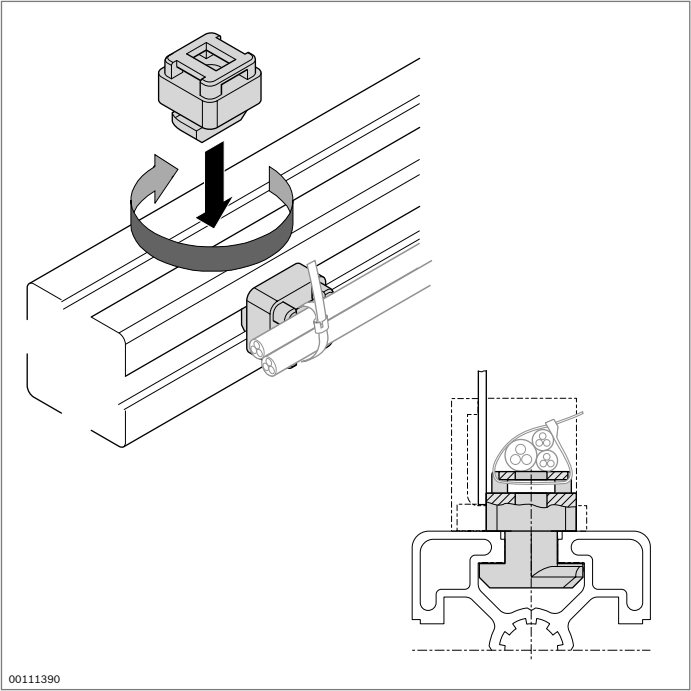
Material: steel; galvanized

Cable holder

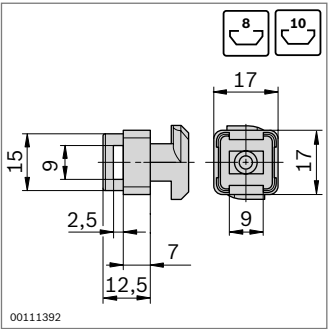
- For fixing the cable in the cable duct in the case of overhead mounting
- Recommendation: insert every 200 mm

Cable holder		No.
40	10	3 842 552 265
80	10	3 842 552 266

Material: PA6; signal gray RAL 7004

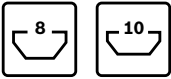


00111390



00111392

Cable bracket



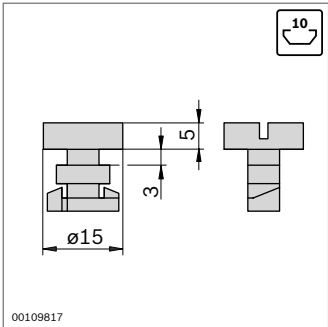
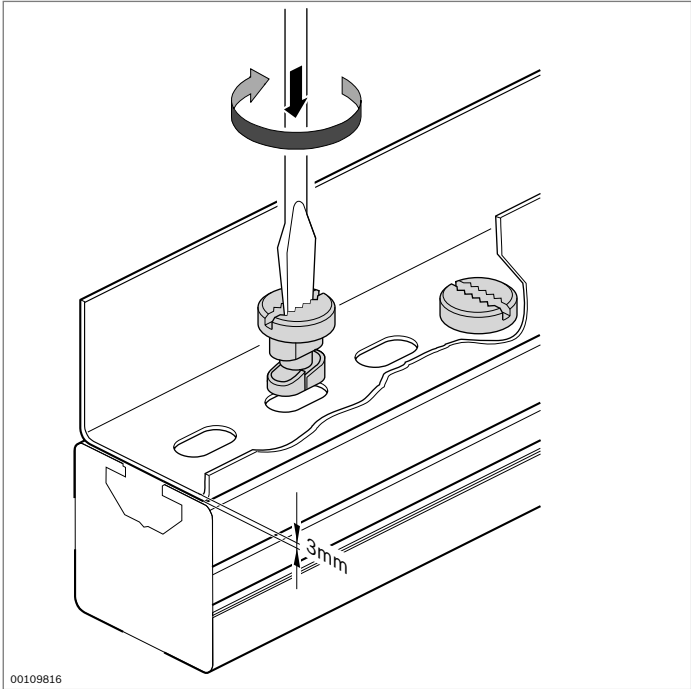
- Cable bracket for fastening individual cables with cable ties
- For use behind panels or screens
- Dimensioned to match the Variofix block for slot 10 mm

Accessories, required:

Cableties

Cable bracket	Slot		No.
	8	100	3 842 526 565
	10	100	3 842 526 564

Material: PA; black



Quick-lock



- Quick-lock for fastening standard commercially available cable ducts

Quick-lock	No.
	100 3 842 146 920
Material:	PA; black

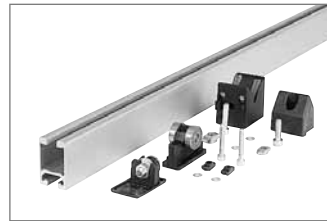
Elements for manual movement



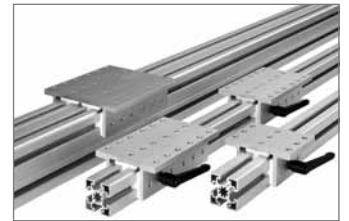
Slide hangers, spring hooks
(p. 12-2)



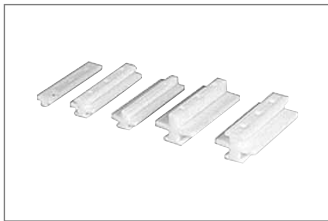
Sliders for surface element
(p. 12-3)



Components for sliding door
(p. 12-4)



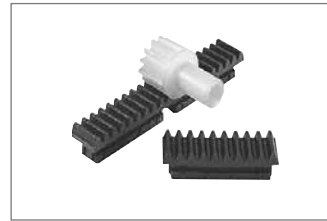
EcoSlide (p. 12-6)



Sliders for profiles (p. 12-13)



Support rollers (p. 12-17)



Rack, pinion (p. 12-18)



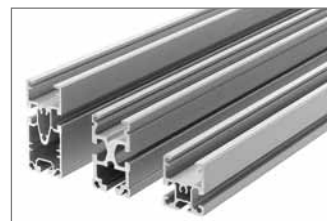
Conveyor track Lean (p. 12-20)



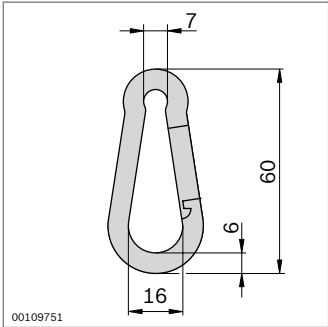
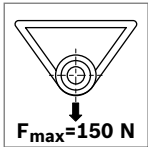
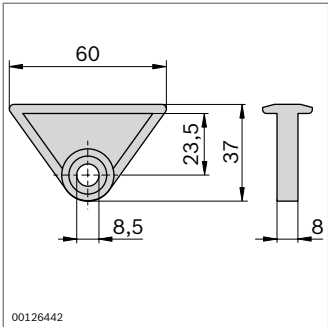
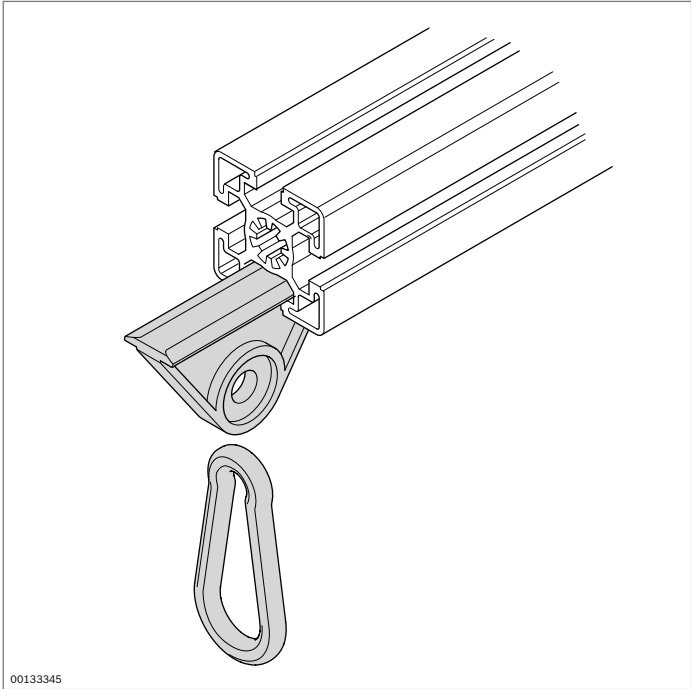
Conveyor track XLean
(p. 12-25)



EcoFlow conveyor track
(p. 12-28)



Profiles for installing
conveyor media (p. 12-34)



Slide hanger
Spring hook



Slide hanger

- Slide hanger as an inexpensive solution for sliding tool hangers
- Maximum load: 150 N
- Guide in the 10 mm profile slot
- Sliding block can be used as a stopper

Accessories: Sliding block as stopper (p. 3-7)

Spring hook

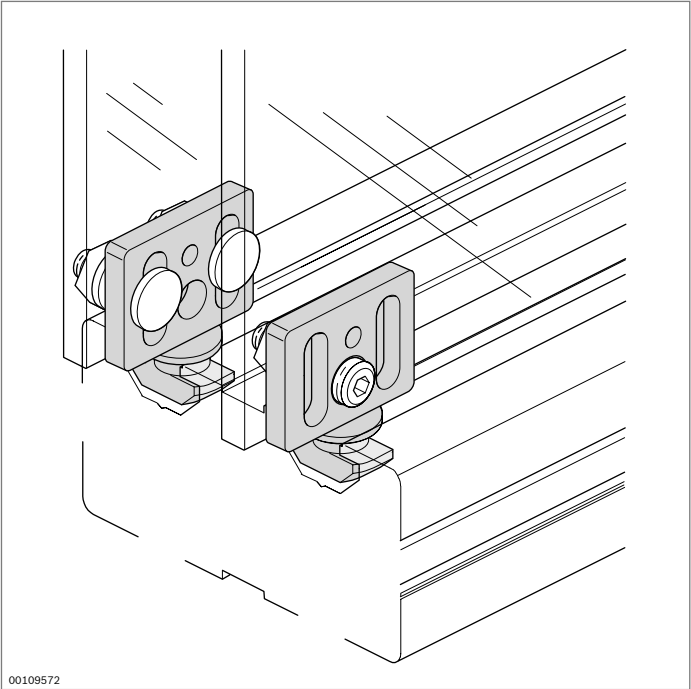
- Spring hook for fastening tools to the slide hanger:
 - Quick and easy to change

Slide hanger	No.
	3 842 218 953

Material: POM; natural

Spring hook	No.
	0 842 901 309

Material: steel; galvanized



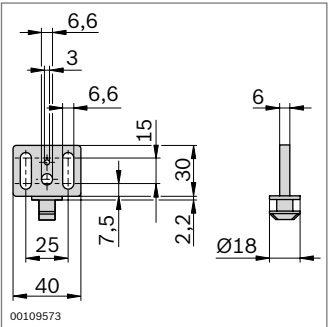
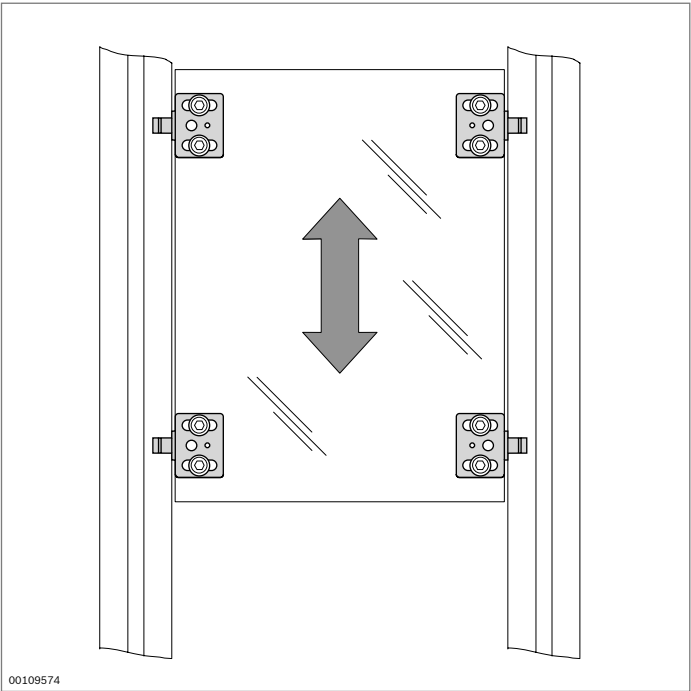
Slider for surface elements



- For the construction of sliding and lifting doors
- Good functional reliability
- For any thickness of the surface element or aluminum profile frame

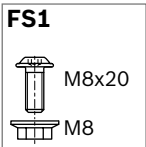
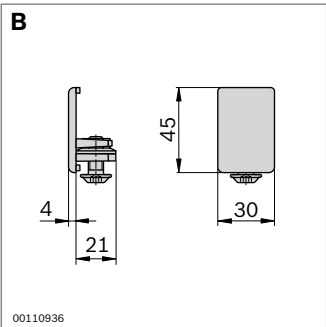
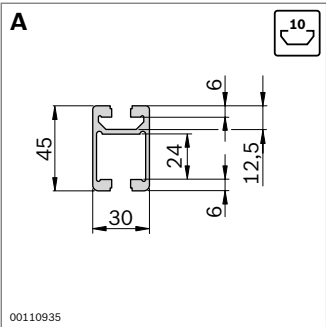
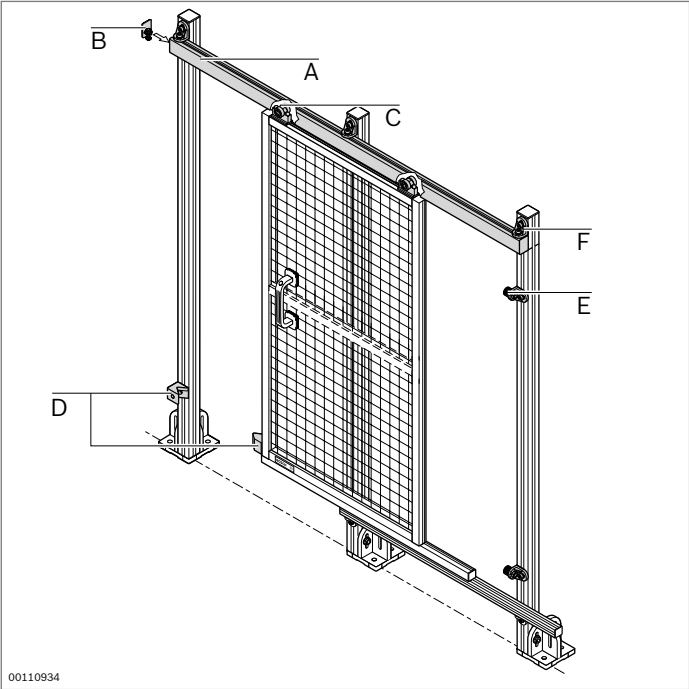
Accessories, required:
screws and nuts/sliding blocks for fastening the surface elements

Accessories, optional:
counterbalance in the case of lifting doors (see p. 9-2)



Slider		No.
	10	3 842 530 303

Material: POM; black



Components for sliding door



- Components for constructing sliding doors of different dimensions

- Profile rail for trolley suspension

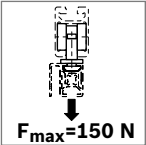
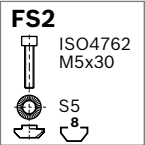
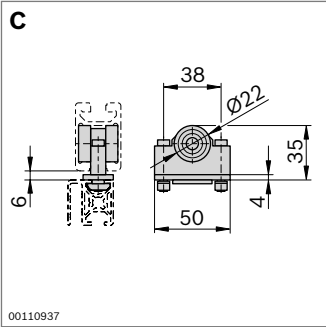
Profile rail	L (mm)	No.
1 pc	40 ... 5600	3 842 992 946 / L
20 pcs	5600	3 842 523 598

Material: Aluminum, natural, anodized
Accessories: Bracket set R28x38 for fastening to strut profiles with 10 mm slot (p. 12-5)

- Profile rail end piece for use as cover cap with stop
- With screw protection

End piece	No.	FS
20	3 842 521 513	FS1

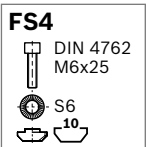
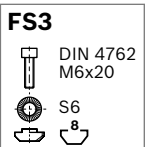
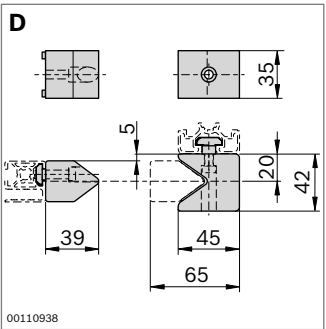
Material: End piece: PA; black
Fastening material: steel, galvanized
Scope of delivery: Incl. fastening material (FS)



- Trolley with dust-proof ball bearings for smooth sliding motion

Trolley	No.	FS
	3 842 524 153	2xFS2

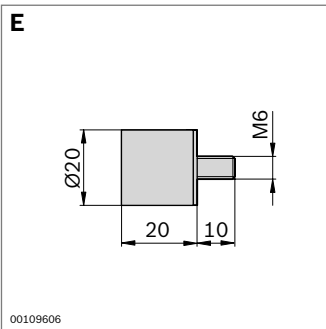
Material: PA, black / steel, galvanized
Fastening material: steel, galvanized
Scope of delivery: Incl. fastening material (FS)



- Stop kit for damped closing of the sliding door

Stop kit	No.	FS
	3 842 524 490	FS3, FS4

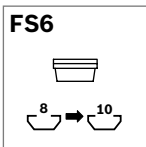
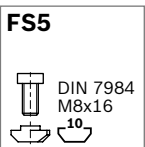
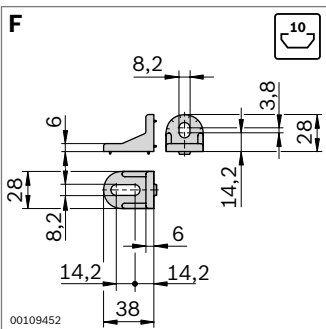
Material: PA, black
fastening material: steel, galvanized
Scope of delivery: Incl. fastening material (FS)



- Bumper for a damped stop

Bump stop	No.
	10 3 842 510 462

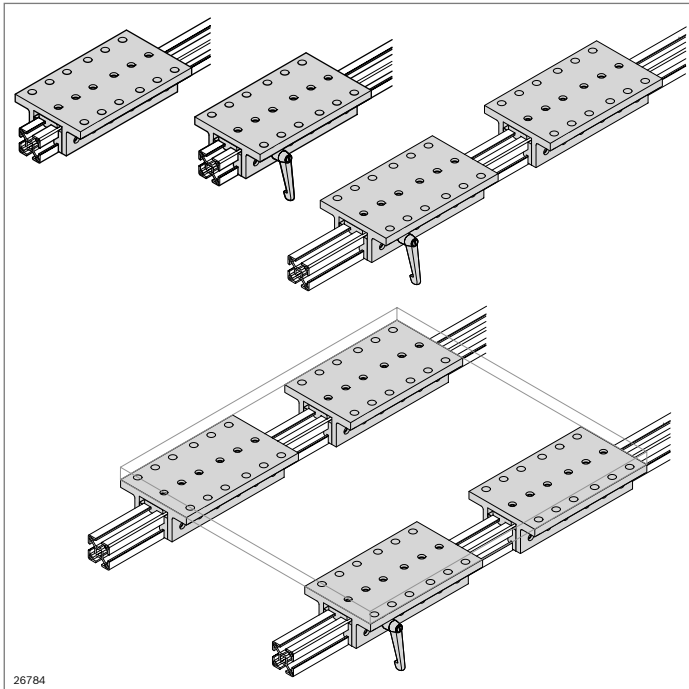
Material: Rubber; hardness 55° shore A
Accessories: Bracket set R28x38 for fastening to strut profiles with 10 mm slot



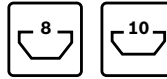
- Bracket for fastening the profile rail to strut profiles with 10 mm slot

Bracket set	Slot	ESD	No.	FS
R28x38 set (standard)	10 / 10		3 842 521 580	2xFS5, 4xFS6

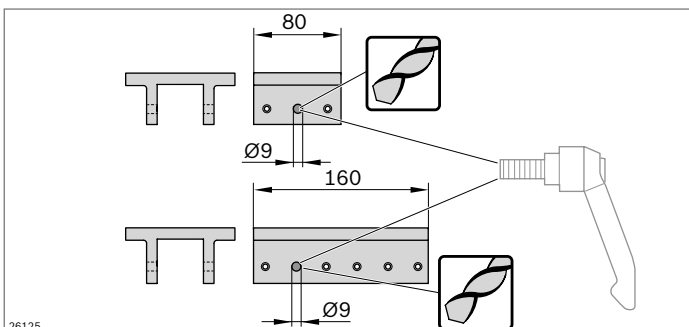
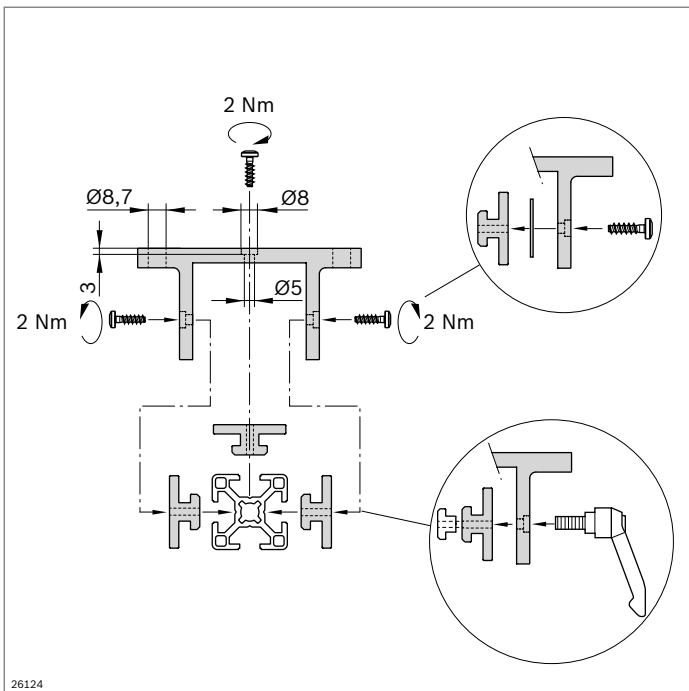
Material: Diecast zinc
Fastening material: steel, galvanized
Scope of delivery: Incl. fastening material (FS)



EcoSlide

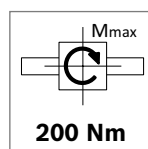
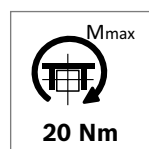
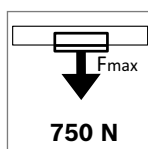
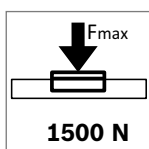
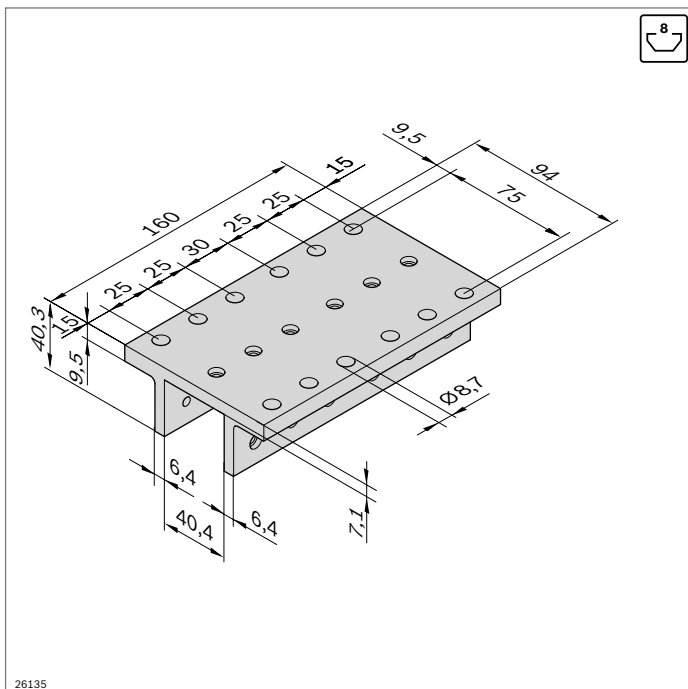
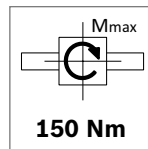
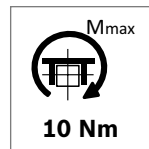
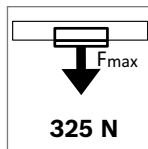
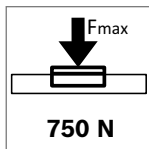
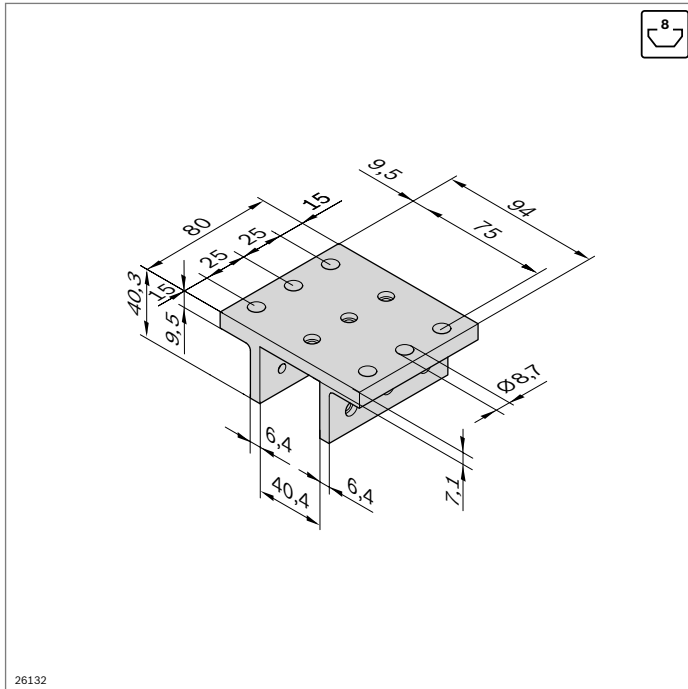


- Economical linear sliding carriage for horizontal applications
- Runs on sliders for maximal load capacity
- Slider with low moisture absorption, suitable for rough usage conditions
- Available for profile widths of 30/45/60/90
- Clamping lever (optional) for arresting in any position
- Easy to assemble
- Spacer washer for tolerance adjustment (carriage/profile)



Machining tip

To install the clamping lever, the corresponding 9 mm hole must be drilled in the trolley.



EcoSlide 30x30x80

- For use with profile width 30 mm
- Maximum sliding speed: 12 m/min

Trolley 30x30x80	No.
	1 8 981 535 476

Material: aluminum, anodized

Accessories

	No.	Qty.	Qty.	Page
Slider, groove 8 mm flat	10 3 842 523 212	3	2	12-13
Slider, groove 8 mm flat lockable	1 3 842 552 423	—	1	12-11
Spacer washer, slot 8 mm	4 8 981 535 891	X ¹⁾	X ¹⁾	12-12
Screw W1451 - 3.5x14 - 10.9	10 3 842 552 421	9	8	12-12
Clamping lever, 20 mm	1 3 842 516 846	—	1	4-11
Sliding block, slot 8 mm; M8	100 3 842 514 931	—	1	3-7

¹⁾ If required

EcoSlide 30x30x160

- For use with profile width 30 mm
- Maximum sliding speed: 12 m/min

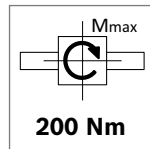
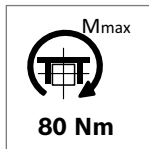
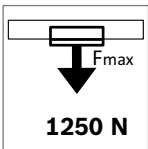
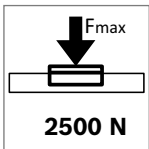
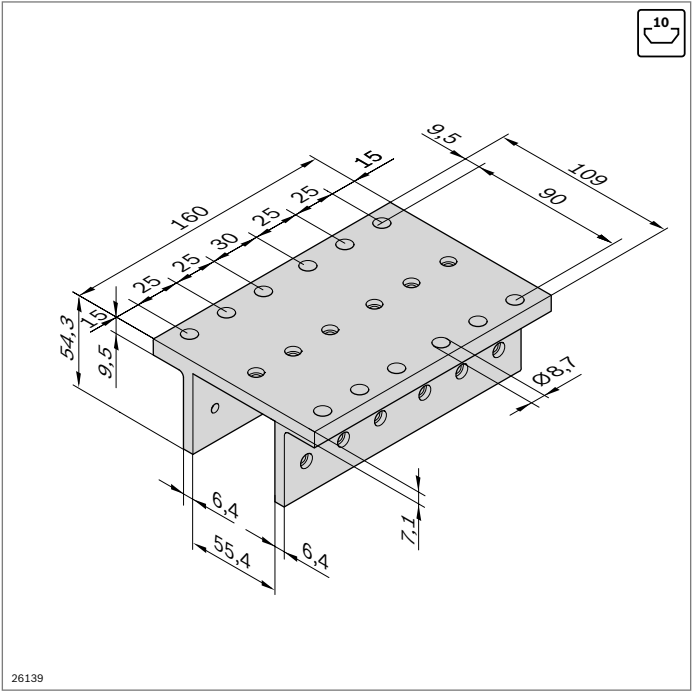
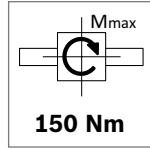
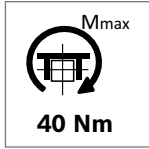
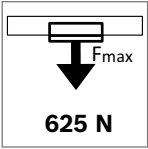
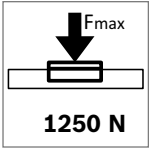
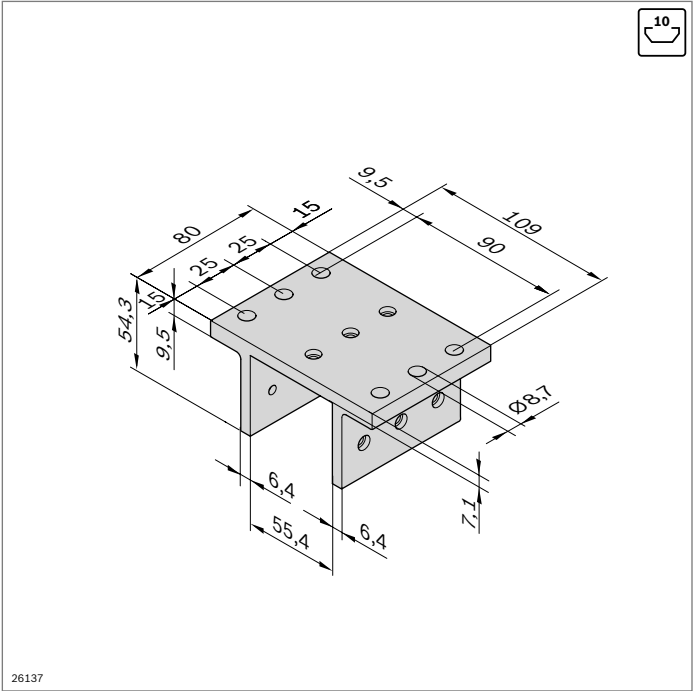
Trolley 30x30x160	No.
	1 8 981 535 477

Material: Aluminum, anodized

Accessories

	No.	Qty.	Qty.	Page
Slider, groove 8 mm flat	10 3 842 523 212	6	5	12-13
Slider, groove 8 mm flat lockable	1 3 842 552 423	—	1	12-11
Spacer washer, slot 8 mm	4 8 981 535 891	X ¹⁾	X ¹⁾	12-12
Screw W1451 - 3.5x14 - 10.9	10 3 842 552 421	18	17	12-12
Clamping lever, 20 mm	1 3 842 516 846	—	1	4-11
Sliding block, slot 8 mm; M8	100 3 842 514 931	—	1	3-7

¹⁾ If required



EcoSlide 45x45x80

- For use with profile width 45 mm
- Maximum sliding speed: 12 m/min

Trolley 45x45x80	No.
	1 8 981 535 323
Material:	aluminum, anodized

Accessories

	No.		Qty.	Qty.	Page
Slider, slot 10 mm flat	10	3 842 530 329	3	2	12-13
Slider, slot 10 mm flat lockable	1	3 842 552 424	—	1	12-11
Spacer washer, slot 10 mm	4	8 981 535 890	X ¹⁾	X ¹⁾	12-12
Screw W1452 - 4x18 - 10.9	10	3 842 552 422	9	8	12-12
Clamping lever, 20 mm	1	3 842 516 846	—	1	4-11
Sliding block, slot 10 mm; M8	100	3 842 528 735	—	1	3-7

¹⁾ If required

EcoSlide 45x45x160

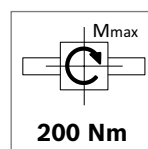
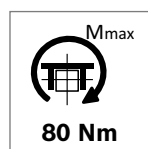
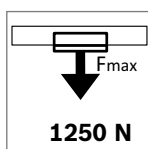
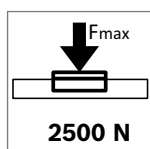
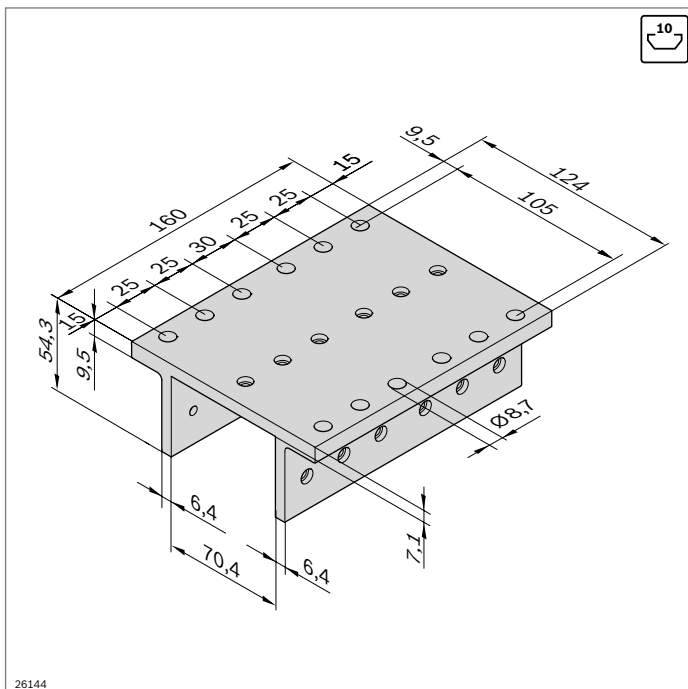
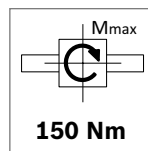
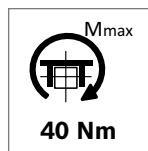
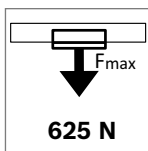
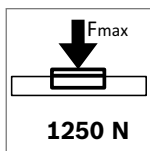
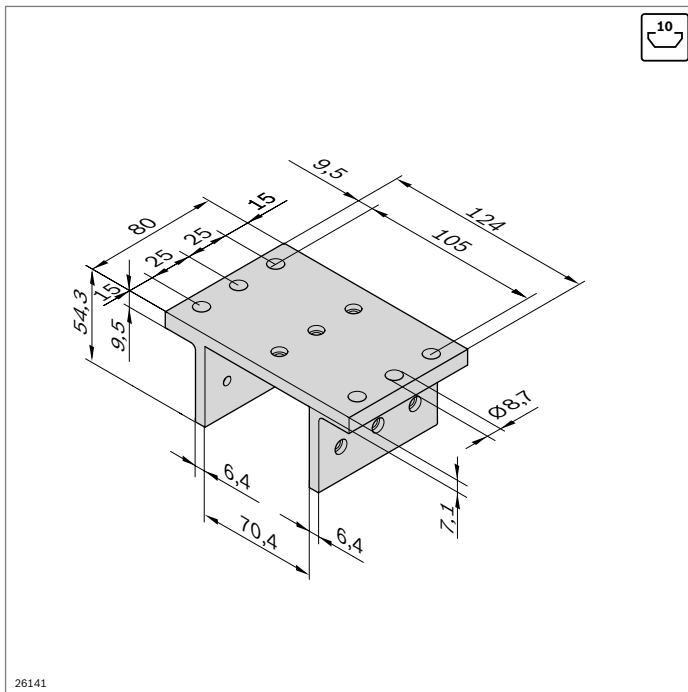
- For use with profile width 45 mm
- Maximum sliding speed: 12 m/min

Trolley 45x45x160	No.
	1 8 981 535 324
Material:	Aluminum, anodized

Accessories

	No.		Qty.	Qty.	Page
Slider, slot 10 mm flat	10	3 842 530 329	6	5	12-13
Slider, slot 10 mm flat lockable	1	3 842 552 424	—	1	12-11
Spacer washer, slot 10 mm	4	8 981 535 890	X ¹⁾	X ¹⁾	12-12
Screw W1452 - 4x18 - 10.9	10	3 842 552 422	18	17	12-12
Clamping lever, 20 mm	1	3 842 516 846	—	1	4-11
Sliding block, slot 10 mm; M8	100	3 842 528 735	—	1	3-7

¹⁾ If required



EcoSlide 45x60x80

- ▶ For use with profile width 60 mm
- ▶ Maximum sliding speed: 12 m/min

Trolley 45x60x80		No.
	1	8 981 535 478

Material: aluminum, anodized

Accessories

		 No.			Page
			Qty.	Qty.	
Slider, slot 10 mm flat	10	3 842 530 329	3	2	12-13
Slider, slot 10 mm flat lockable	1	3 842 552 424	—	1	12-11
Spacer washer, slot 10 mm	4	8 981 535 890	X ¹⁾	X ¹⁾	12-12
Screw W1452 - 4x18 - 10.9	10	3 842 552 422	9	8	12-12
Clamping lever, 20 mm	1	3 842 516 846	—	1	4-11
Sliding block, slot 10 mm; M8	100	3 842 528 735	—	1	3-7

1) If required

EcoSlide 45x60x160

- ▶ For use with profile width 60 mm
- ▶ Maximum sliding speed: 12 m/min

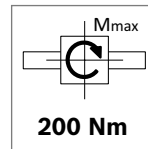
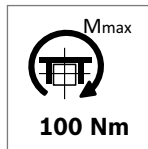
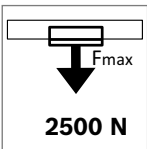
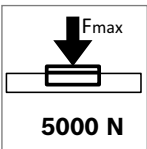
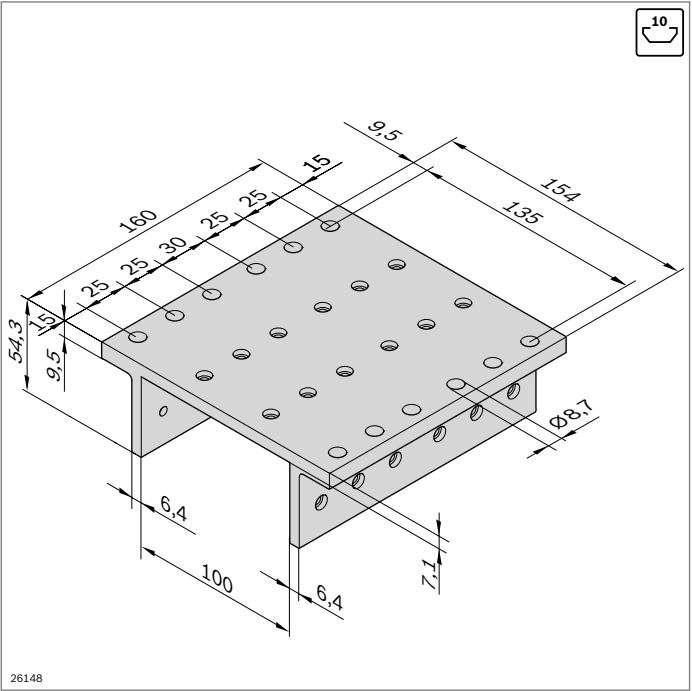
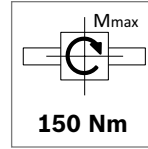
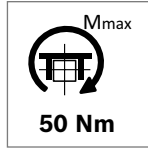
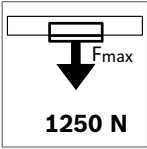
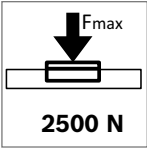
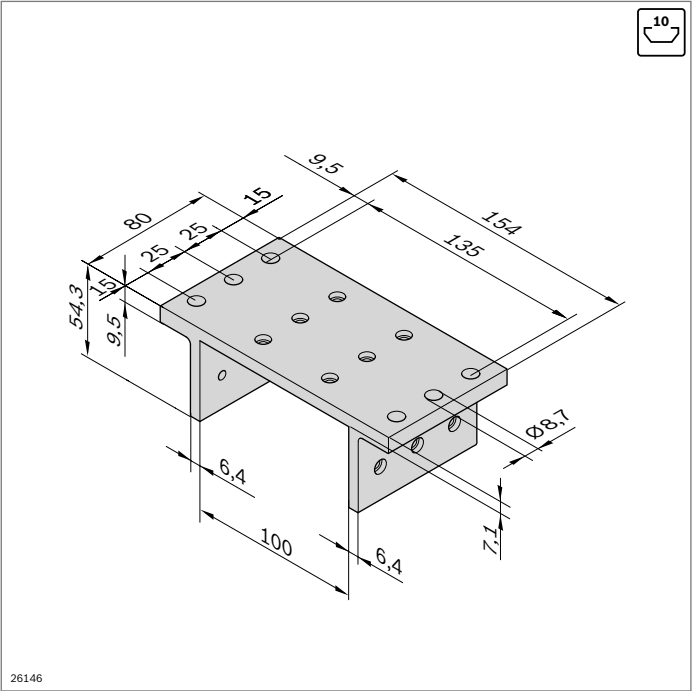
Trolley 45x60x160	 No.
1	8 981 535 479

Material:	Aluminum, anodized
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Accessories

		 No.			Page
			Qty.	Qty.	
Slider, slot 10 mm flat	10	3 842 530 329	6	5	12-13
Slider, slot 10 mm flat lockable	1	3 842 552 424	—	1	12-11
Spacer washer, slot 10 mm	4	8 981 535 890	X ¹⁾	X ¹⁾	12-12
Screw W1452 - 4x18 - 10.9	10	3 842 552 422	18	17	12-12
Clamping lever, 20 mm	1	3 842 516 846	—	1	4-11
Sliding block, slot 10 mm; M8	100	3 842 528 735	—	1	3-7

1) If required



EcoSlide 45x90x80

- For use with profile width 90 mm
- Maximum sliding speed: 12 m/min

Trolley 45x90x80	No.
	1 8 981 535 325
Material:	Aluminum, anodized

Accessories

	No.	Qty.	Qty.	Page
Slider, slot 10 mm flat	10 3 842 530 329	4	3	12-13
Slider, slot 10 mm flat lockable	1 3 842 552 424	—	1	12-11
Spacer washer, slot 10 mm	4 8 981 535 890	X ¹⁾	X ¹⁾	12-12
Screw W1452 - 4x18 - 10.9	10 3 842 552 422	12	11	12-12
Clamping lever, 20 mm	1 3 842 516 846	—	1	4-11
Sliding block, slot 10 mm; M8	100 3 842 528 735	—	1	3-7

¹⁾ If required

EcoSlide 45x90x160

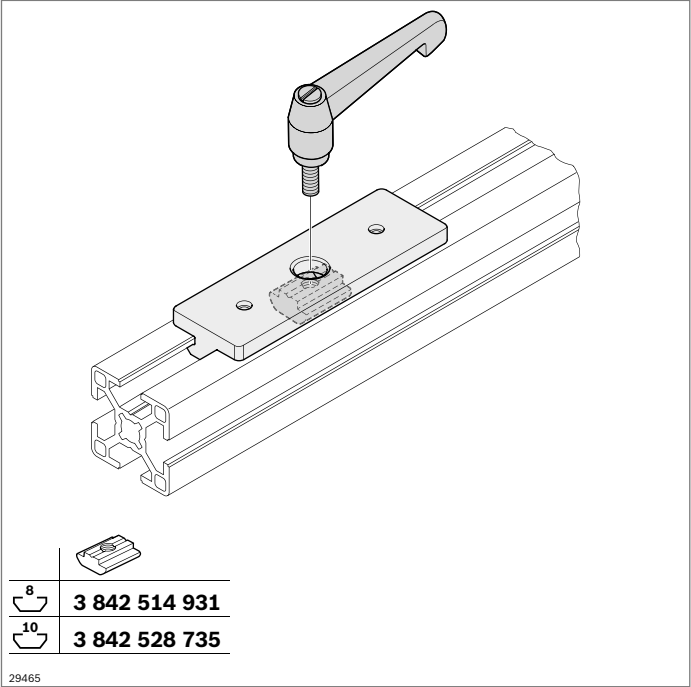
- For use with profile width 90 mm
- Maximum sliding speed: 12 m/min

Trolley 45x90x160	No.
	1 8 981 535 326
Material:	Aluminum, anodized

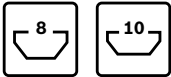
Accessories

	No.	Qty.	Qty.	Page
Slider, slot 10 mm flat	10 3 842 530 329	8	7	12-13
Slider, slot 10 mm flat lockable	1 3 842 552 424	—	1	12-11
Spacer washer, slot 10 mm	4 8 981 535 890	X ¹⁾	X ¹⁾	12-12
Screw W1452 - 4x18 - 10.9	10 3 842 552 422	24	23	12-12
Clamping lever, 20 mm	1 3 842 516 846	—	1	4-11
Sliding block, slot 10 mm; M8	100 3 842 528 735	—	1	3-7

¹⁾ If required

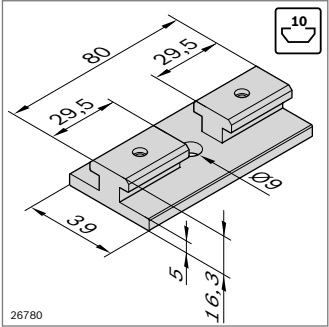
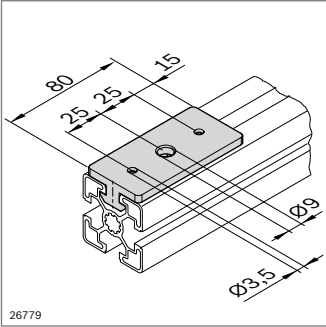
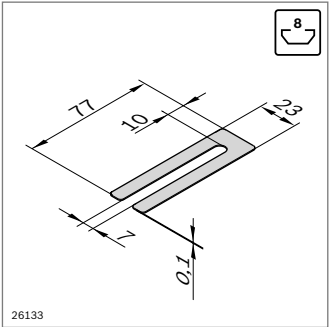
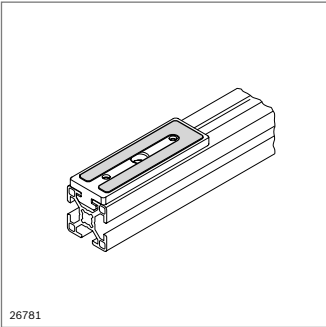
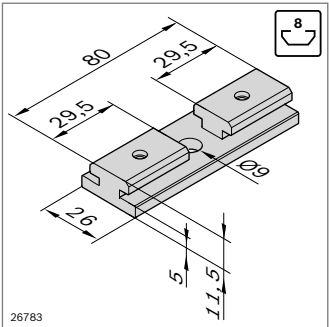
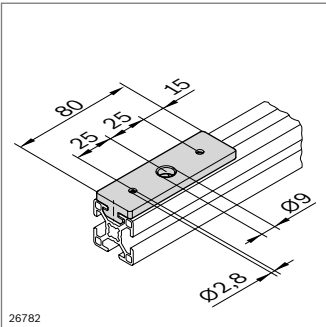


Slider, flat lockable



- Suitable for clamping using a sliding block and a clamping lever
- For constructing low-wear guides

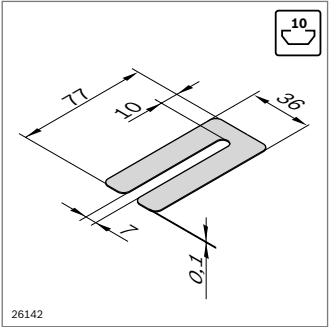
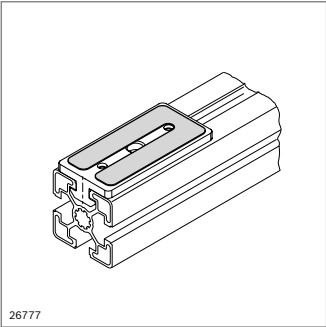
Accessories:
Sliding blocks (p. 3-7)



Slider, flat lockable	Slot		No.
	8	1	3 842 552 423
Material:	POM; natural		
Accessories:	Sliding block, T-nut, slot 8 (M8), 3 842 514 931, p. 3-7		

Spacer washer	Slot		No.
77x23	8	4	8 981 535 891
Material:	Steel, plain		

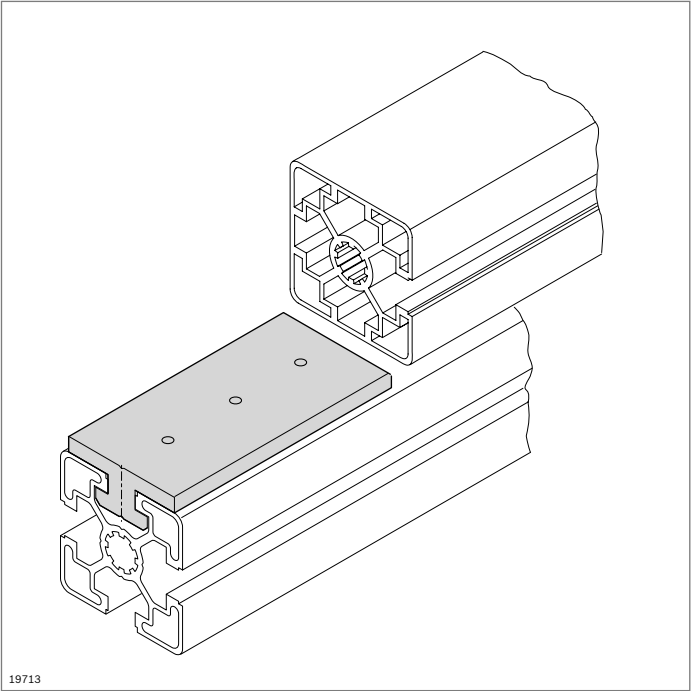
Slider, flat lockable	Slot		No.
	10	1	3 842 552 424
Material:	POM; natural		
Accessories:	Sliding block, T-nut, slot 10 (M8), 3 842 528 735, p. 3-7		



Spacer washer	Slot		No.
77x36	10	4	8 981 535 890
Material: Steel, plain			



Plastic self-tapping screw	Slot		No.
W1451 - 3.5x14 - 10.9	8	10	3 842 552 421
W1452 - 4x18 - 10.9	10	10	3 842 552 422
Material: Steel, galvanized			



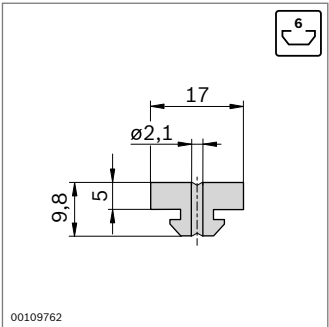
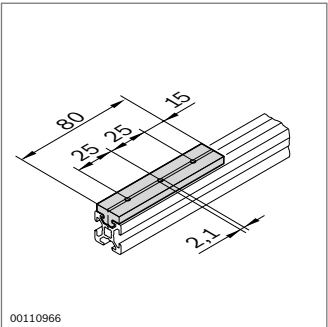
Slider for profiles



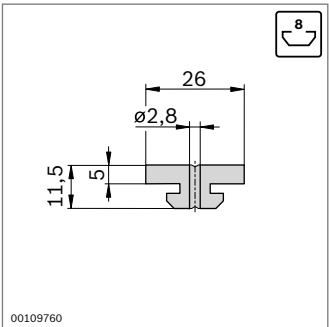
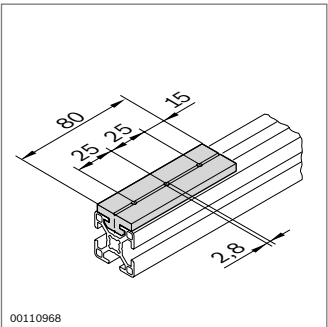
Slider

- For the construction of low-wear guides, e.g. for manual sliding and sliding and lifting doors, as well as drawer slides

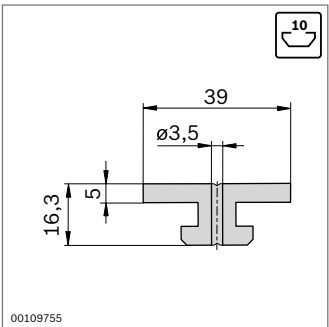
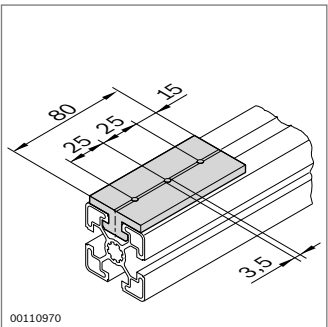
Accessories, optional:
Sheet metal screws for fastening the slider in a profile slot



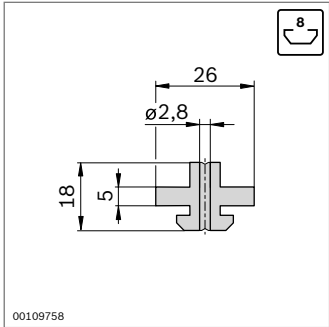
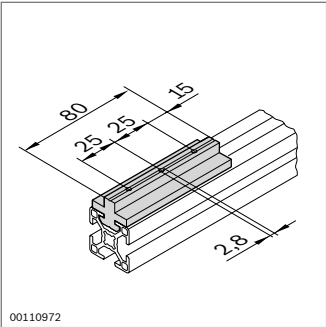
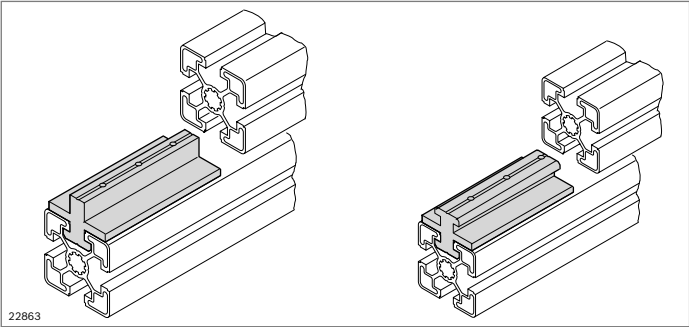
Slider, flat		No.
		10 3 842 523 213
Material:	POM; natural	



Slider, flat		No.
		10 3 842 523 212
Material:	POM; natural	

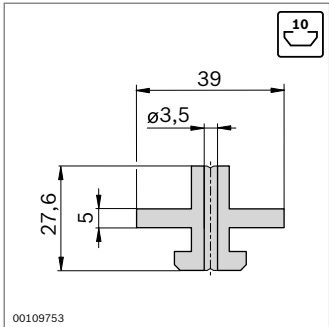
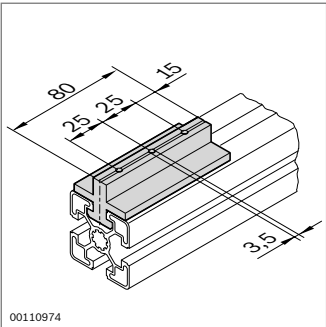


Slider, flat		No.
		10 3 842 530 329
Material:	POM; natural	



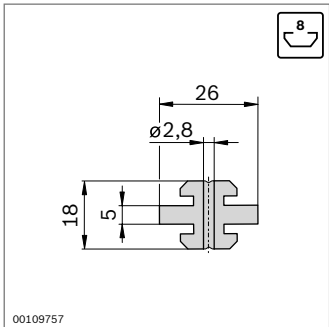
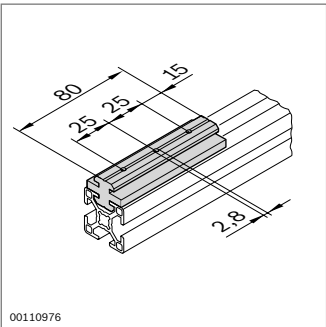
Slider, center	No.
10	3 842 523 210

Material: POM; natural



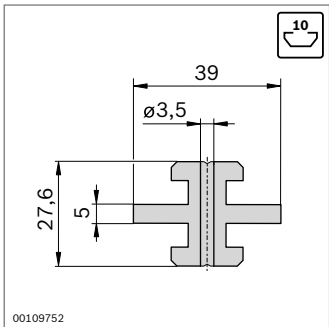
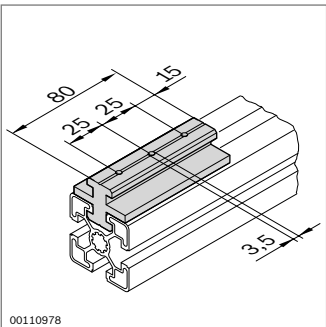
Slider, center	No.
10	3 842 523 206

Material: POM; natural



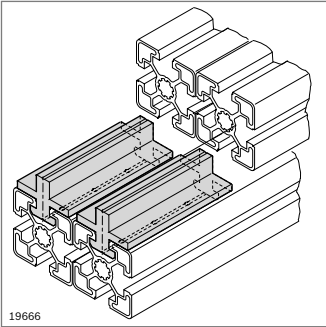
Slider, center	No.
10	3 842 523 209

Material: POM; natural



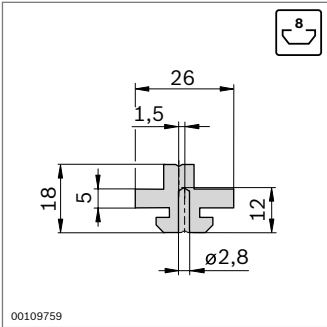
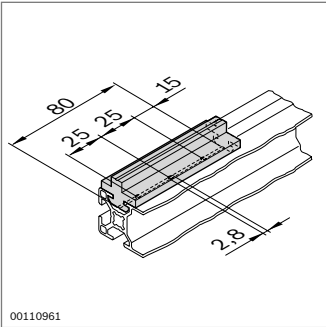
Slider, center	No.
10	3 842 523 205

Material: POM; natural

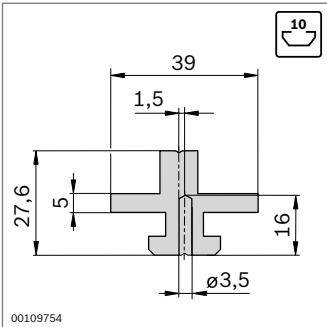
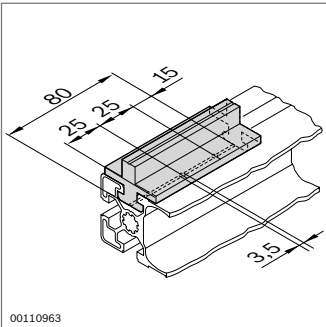


Offset sliders

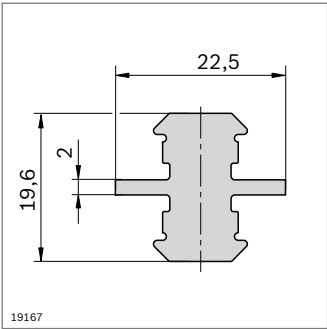
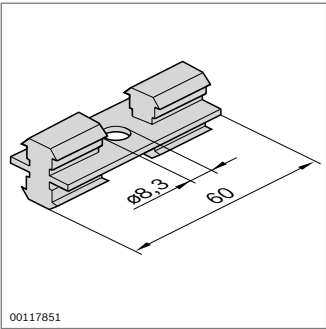
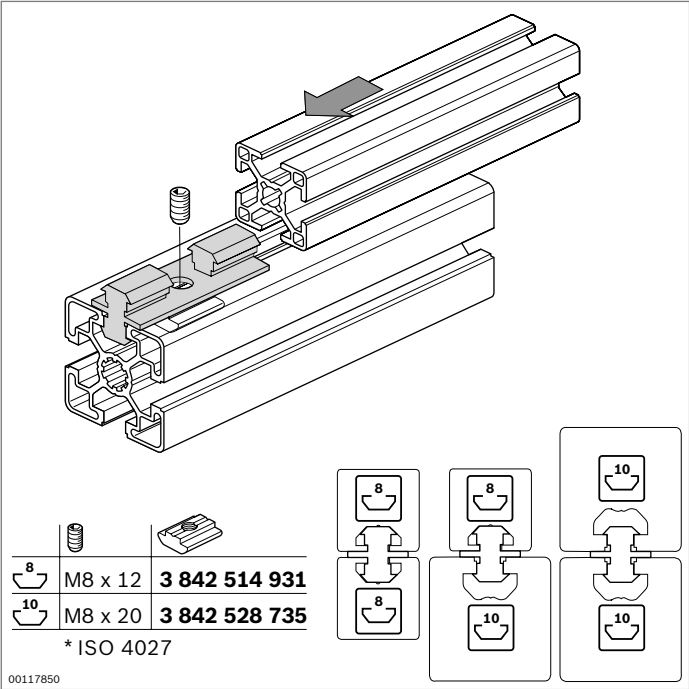
► For constructing multiple sliding doors



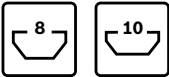
Slider, offset		No.	
		10	3 842 523 211
Material:		POM; natural	



Slider, offset		No.	
		10	3 842 523 207
Material:		POM; natural	



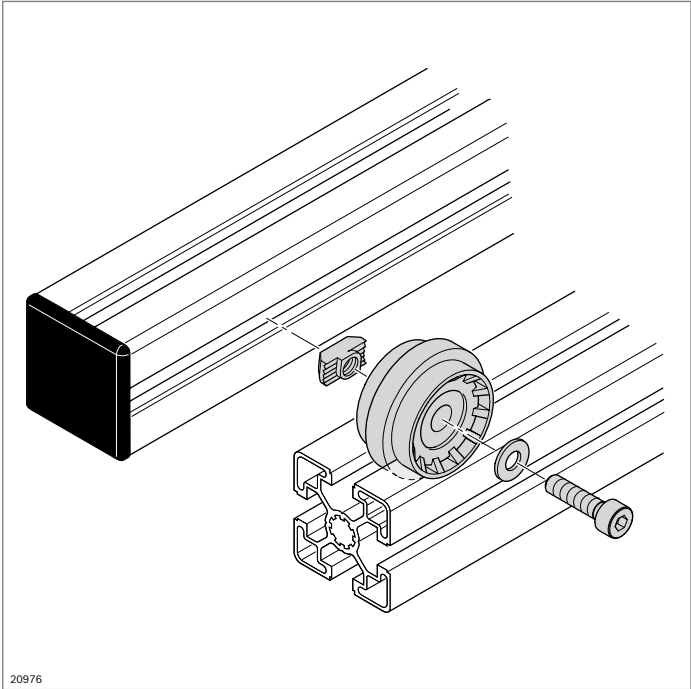
Multi-slider



- Multi-slider for constructing low-wear guides
- Suitable for all profiles with 8 mm and 10 mm slot widths
- Combination of profiles with different slot widths possible

Accessories:
grub screws (ISO 4027) and sliding blocks (p. 3-7) for
fastening the slider in the profile slot

Multi-slider 8/10		No.
		10 3 842 513 517
Material:		POM; natural

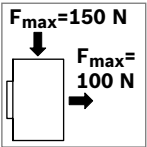
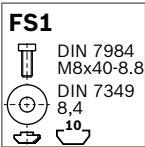
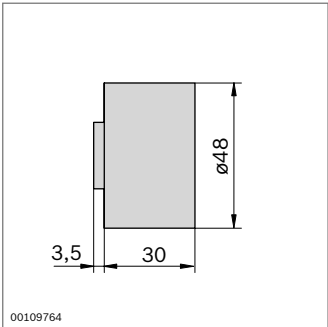


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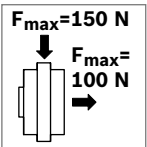
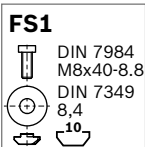
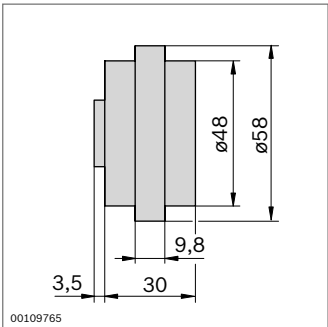
Support rollers



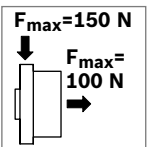
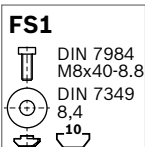
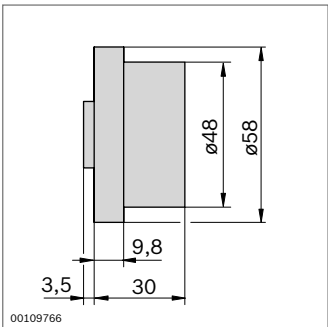
- ▶ Support roller for constructing trolleys or roller sections
- ▶ Mounted on profiles with 10 mm slot
- ▶ Good running characteristics thanks to deep-groove ball bearing with large diameter
- ▶ Support roller with rim can be guided in 10 mm slot
- ▶ ESD-conductive



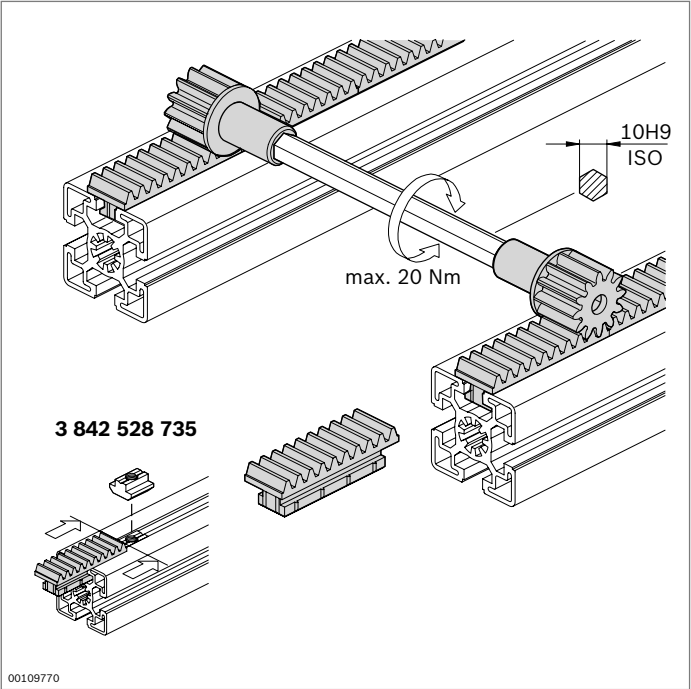
Support roller	No.	FS
	10	3 842 218 942 FS1
Material:	Vestamid; black	
Fastening material:	steel, galvanized	
Scope of delivery:	Incl. fastening material (FS)	



Support rollers with center rim	No.	FS
	10	3 842 218 940 FS1
Material:	Vestamid; black	
Fastening material:	steel, galvanized	
Scope of delivery:	Incl. fastening material (FS)	



Support rollers with side rim	No.	FS
	10	3 842 218 941 FS1
Material:	Vestamid; black	
Fastening material:	steel, galvanized	
Scope of delivery:	Incl. fastening material (FS)	



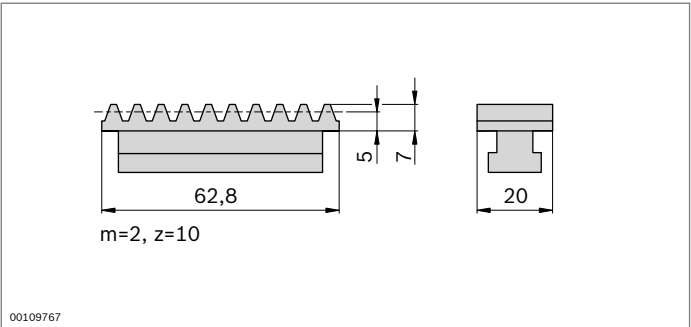
**Rack
Pinion**



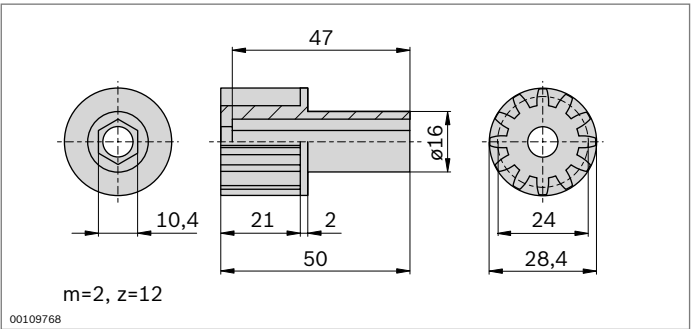
- For constructing synchronous shafts to prevent tilting in the case of large guide widths

Accessories, required:

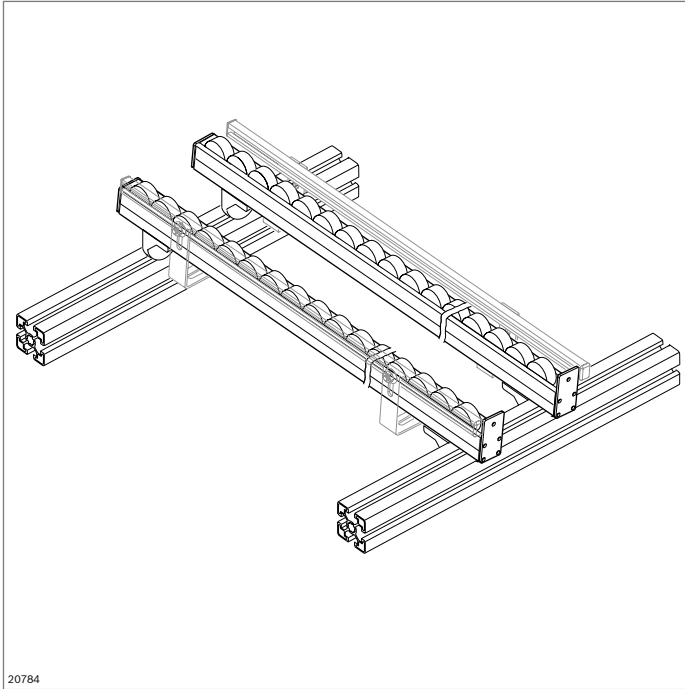
- standard commercially available hexagonal shaft 10H9
- sliding block for securing the rack in the slot (p. 3-7)



Rack	No.
10	3 842 501 578
Material:	PA; black

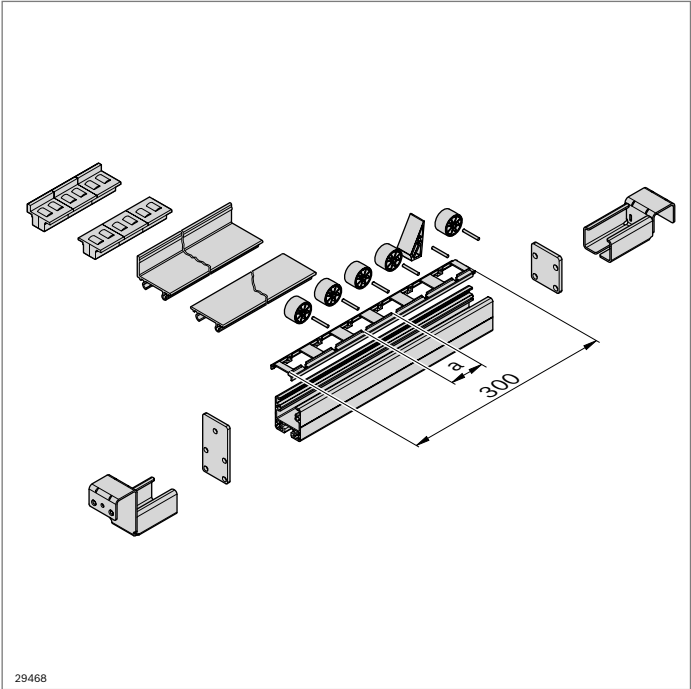


Pinion	No.
	3 842 501 576
Material:	POM, white



Elements for the construction of conveyor sections

- ▶ Assembly elements for constructing manual conveyor sections
- ▶ Various clip-in conveyor media, with and without lateral guide
- ▶ Standard slots as attachment interface
- ▶ EcoFlow for manual linking of workstations

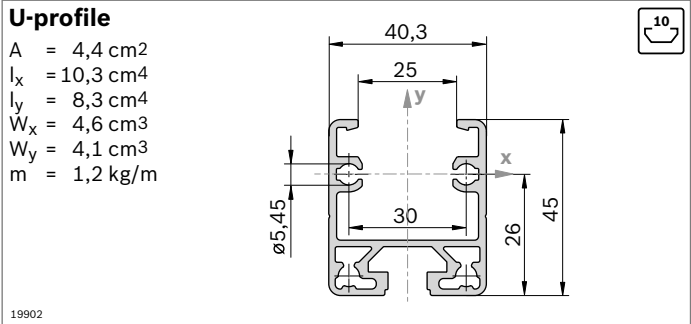


Conveyor track Lean



- Components for constructing manual conveyor sections
- Based on multi-functional U-profile
- Clip-in conveyor elements for all requirements:
 - rollers with or without flange; 4 colors to visually identify inventories (kanban) or to differentiate between good and reject parts
 - Slide rails with or without integrated lateral guide (GSSK, GS)
 - roller elements with and without flange (RE45SK, RE45)

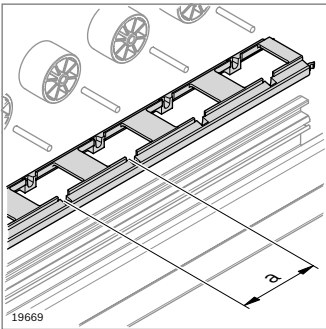
Accessories:
Round tube D28 (p. 2-68)



- U-profile with 10 mm slot

U-profile	L (mm)	ESD	No.
1 pc	30 ... 6000		3 842 993 316 / L
20 pcs	6070		3 842 535 115
1 pc	30 ... 6000		3 842 995 027 / L
20 pcs	6070		3 842 541 814

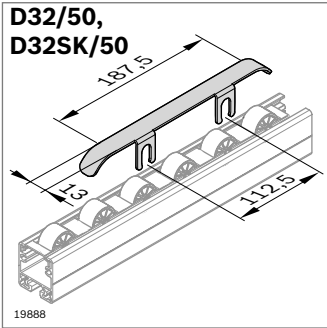
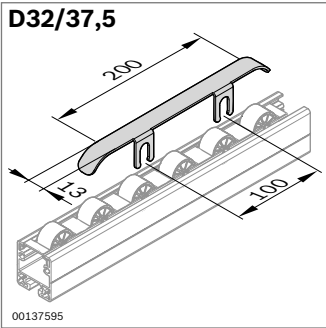
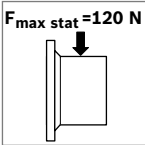
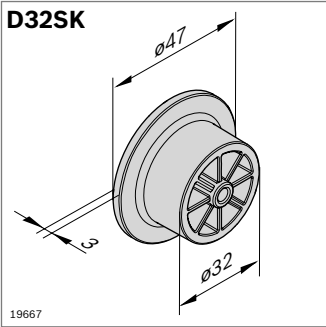
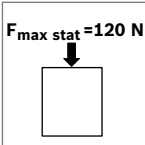
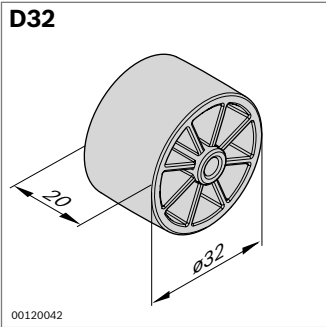
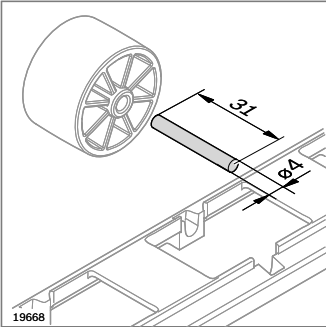
Material: U-profile: aluminum, anodized
U-profile ESD: aluminum, untreated



- Roller carrier for rollers D32 and D32SK (p. 12-14)

Roller carrier	a (mm)	ESD		No.
D32/37.5	37.5		20	3 842 537 944
			20	3 842 537 945
D32/50	50		20	3 842 532 887
			20	3 842 538 094
D 32SK/50	50		20	3 842 532 886
			20	3 842 537 947

Material: ABS



► Steel axis for rollers D32, D32SK

Steel axis	ESD	No.
	100	3 842 532 862

Material: Steel, stainless

Roller	ESD	No.
D32	black	100 3 842 532 865
	black	100 3 842 537 961
	red	100 3 842 532 866
	red	100 3 842 537 960
	yellow	100 3 842 532 870
	yellow	100 3 842 537 959
green	green	100 3 842 532 752
	green	100 3 842 537 958

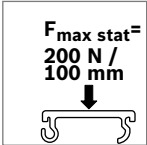
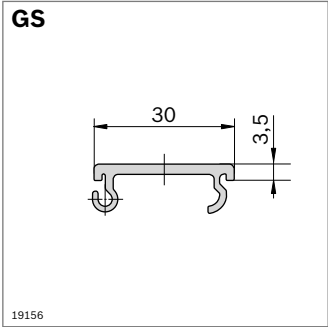
Material: PE, colored / ESD made of PA, colored

Roller	ESD	No.
D32SK	black	100 3 842 532 867
	black	100 3 842 537 965
	red	100 3 842 532 883
	red	100 3 842 537 964
	yellow	100 3 842 532 884
	yellow	100 3 842 537 963
green	green	100 3 842 532 880
	green	100 3 842 537 962

Material: PE, colored / ESD made of PA, colored

Brake	ESD	No.
D32/37.5		20 3 842 537 948
D32/50, D32SK/50		20 3 842 532 881

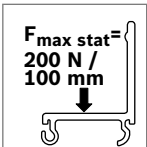
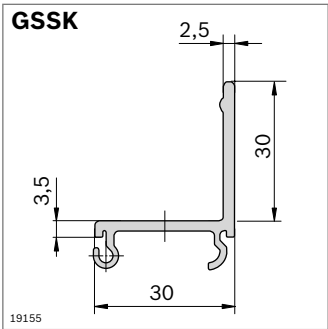
Material: Steel, galvanized



- Slide rail GS for constructing conveyor tracks with large gradients
- Slide rail for use with heavy containers

Slider rail	L (mm)	ESD	No.
GS	3000	20	3 842 535 124
	3000	20	3 842 537 803

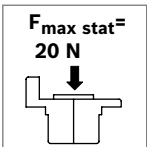
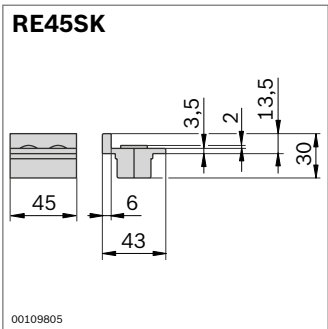
Material: PVC, gray / ESD in black



- Slide rail with lateral guide GSSK for constructing conveyor tracks with large gradients
- Slide rail for use with heavy containers

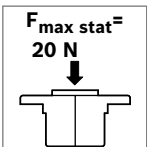
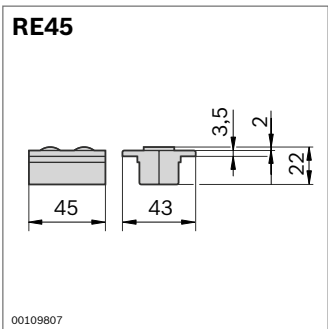
Slider rail	L (mm)	ESD	No.
GSSK	3000	20	3 842 537 806
	3000	20	3 842 537 807

Material: PVC, gray / ESD in black



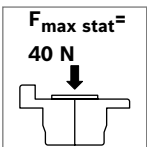
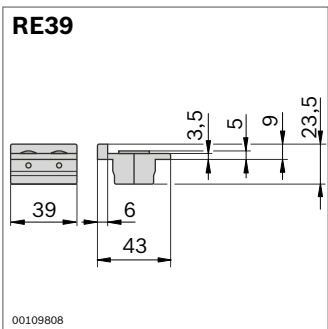
Roller element	ESD	No.
RE45SK	100	3 842 319 500
	100	3 842 538 065

Material: PA; black



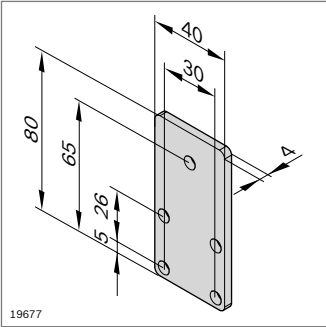
Roller element	ESD	No.
RE45	100	3 842 319 501
	100	3 842 538 064

Material: PA; black

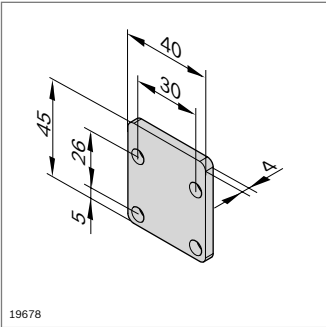


Roller element	ESD	No.
RE39	10	3 842 520 000
	10	3 842 538 245

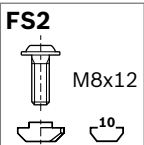
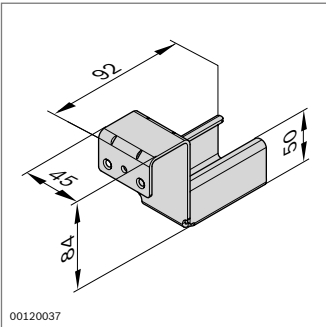
Material: PA; black



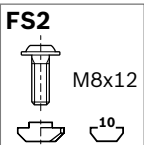
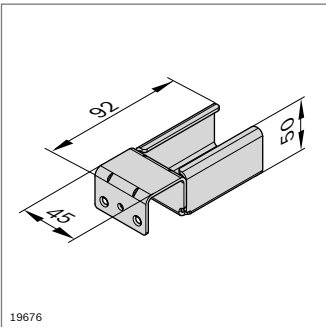
Closure plate with stop		No.	FS
40x80	20	3 842 535 121	4xFS1
Material: Steel, galvanized			
Scope of delivery: Incl. fastening material (FS)			



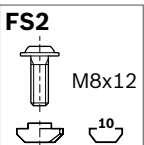
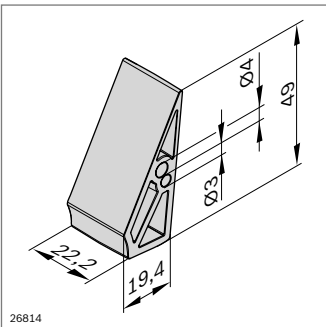
Closure plate without stop		No.	FS
40x45	20	3 842 535 122	4xFS1
Material: Steel, galvanized			
Scope of delivery: Incl. fastening material (FS)			



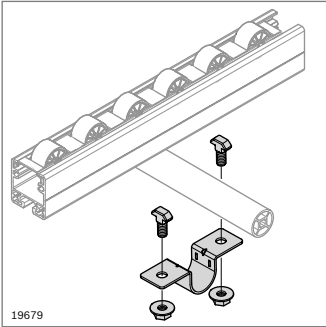
Rail holder with stop		No.	FS
	20	3 842 537 660	FS2
Material: Steel, galvanized			
Scope of delivery: Incl. fastening material (FS)			



Rail holder without stop		No.	FS
	20	3 842 537 661	FS2
Material: Steel, galvanized			
Scope of delivery: Incl. fastening material (FS)			



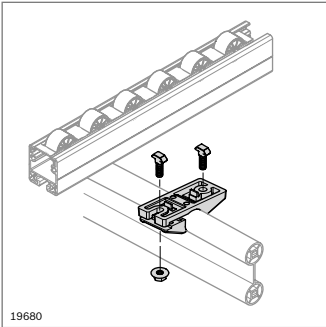
Stopper XLean/Lean		ESD		No.	FS
			10	3 842 552 151	FS2
Material:	PP				
	Fastening material: steel, galvanized				
Scope of delivery:	Incl. fastening material (FS)				



FS3

 HS10-M8x20

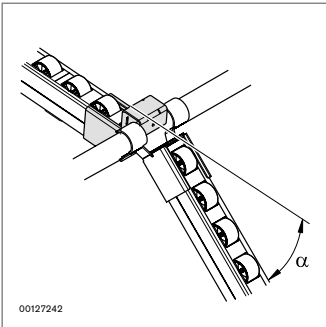
 M8



FS4

 HS10-M8x30

 EN 1661-M8-8.8



FS5

 M8x12-10.9-VZ

 10

Tube clamp D28		No.	FS
	20	3 842 535 364	2xFS3

Material: Steel, galvanized
Scope of delivery: Incl. fastening material (FS)

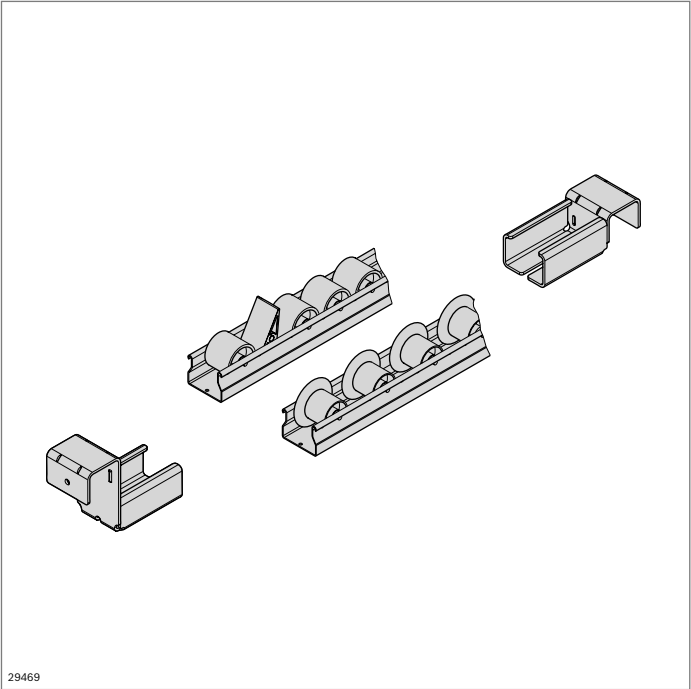
Holder for strut profile D28x55		No.	FS
	20	3 842 537 720	2xFS4

Material: Steel, galvanized
Scope of delivery: Incl. fastening material (FS)

- Flexible bridge with maximum tilt ($\alpha_{\max}$) from horizontal:
- with round tube D28 (p. 2-67): $\alpha_{\max} = 40^\circ$
 - with strut profile D28x55 (p. 2-68): $\alpha_{\max} = 30^\circ$

Flexible bridge		No.	FS
	20	3 842 537 951	FS5

Material: Steel, galvanized

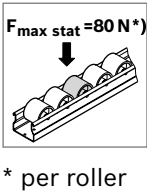
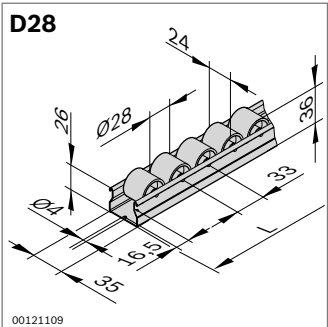


Conveyor track XClean



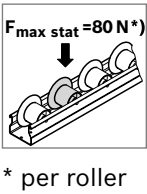
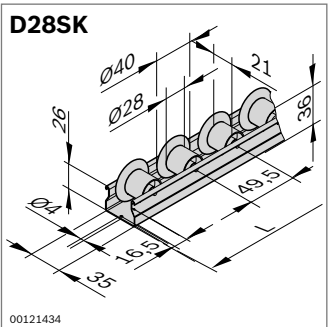
- Conveyor track made of steel profiles with plastic rollers and optional roller flange
- Available as ESD-conductive version.
- Self-supporting roller section
- Roller section with drill holes for fastening

Accessories:
Round tube D28 (p. 2-68)



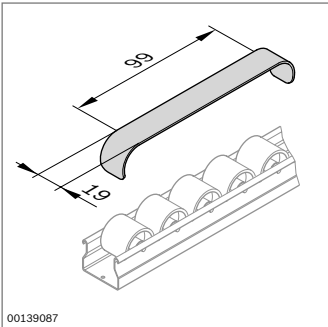
Roller section	L (mm)	ESD	No.
D28	100 ... 4500	1	3 842 993 321 / L
	4500	50	3 842 537 776
	100 ... 4500	1	3 842 993 431 / L
	4500	50	3 842 537 778

Material: Rail: steel, galvanized
Roller: PP



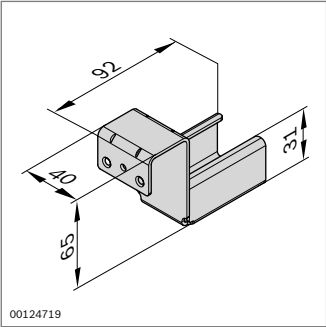
Roller section	L (mm)	ESD	No.
D28SK	100 ... 4500	1	3 842 993 322 / L
	4500	50	3 842 537 777
	100 ... 4500	1	3 842 993 432 / L
	4500	50	3 842 537 779

Material: Rail: steel, galvanized
Roller: PP

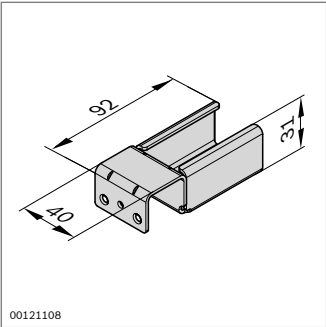


Brake	No.
	20 3 842 532 871

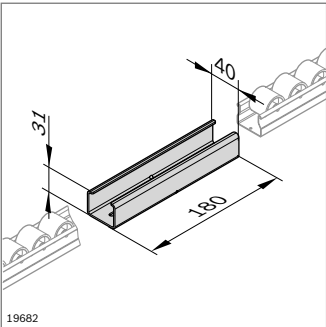
Material: Spring steel



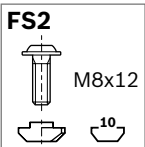
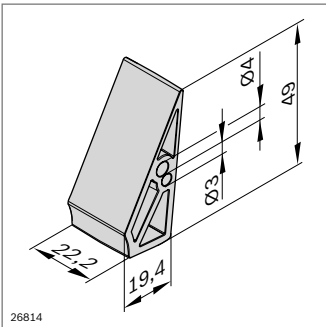
Rail holder with stop			No.
		20	3 842 538 372
Material:		Steel, galvanized	



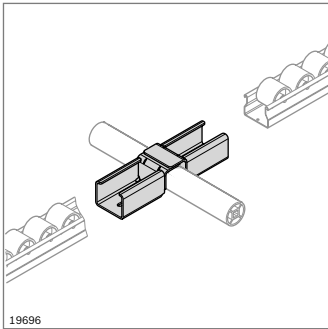
Rail holder without stop			No.
		20	3 842 537 687
Material:		Steel, galvanized	



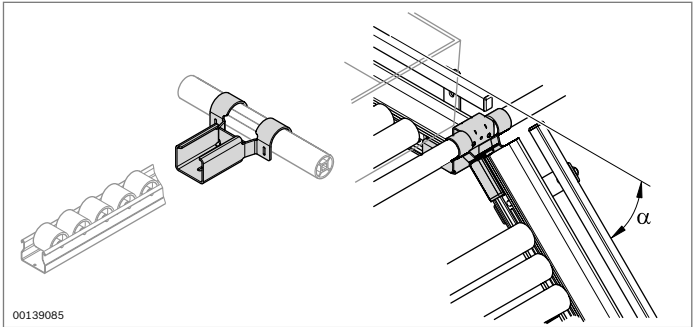
Section link			No.
		20	3 842 536 722
Material:		Steel, galvanized	



Stopper XLean/Lean		ESD		No.	FS
			10	3 842 552 151	FS2
Material:		PP			
		Fastening material: steel, galvanized			
Scope of delivery:		Incl. fastening material (FS)			

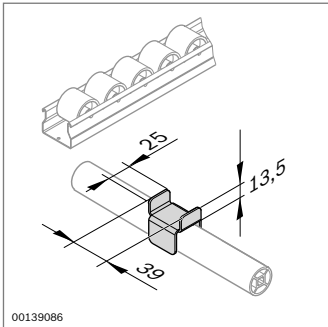


Bridge		No.
	20	3 842 536 724
Material:	Steel, galvanized	

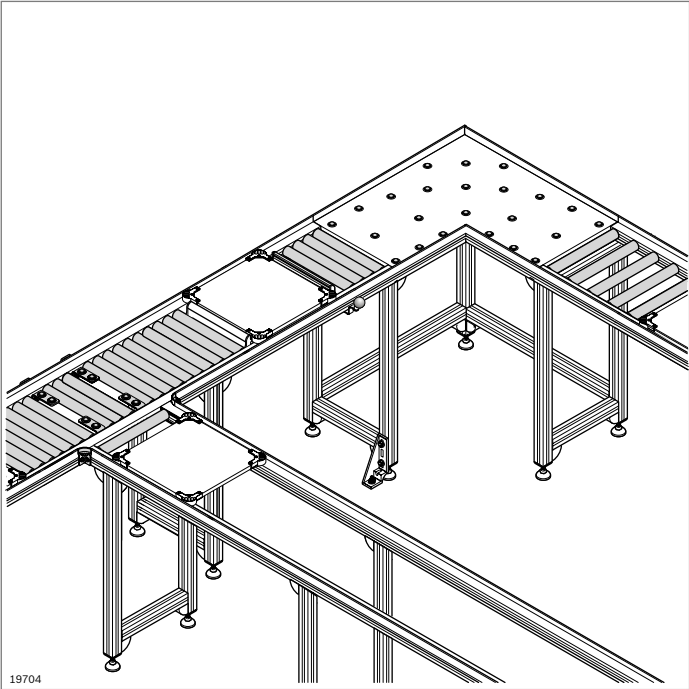


- Flexible bridge with maximum tilt ($\alpha_{\max}$) from horizontal:
- with round tube D28 (p. 2-67): $\alpha_{\max} = 40^\circ$
 - with strut profile D28x55 (p. 2-68): $\alpha_{\max} = 30^\circ$

Flexible bridge		No.
	20	3 842 537 911
Material:	Steel, galvanized	

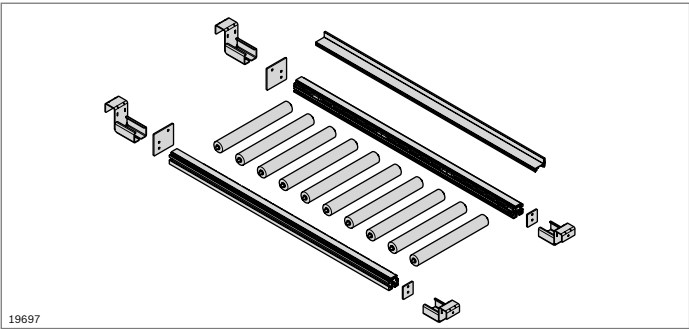


Mounting		No.
	20	3 842 537 657
Material:	Steel, galvanized	



EcoFlow conveyor track

- Based on EcoFlow section profile
- For manual slide sections with rollers
- Clip-in guide profiles with lateral guide and clip-in conveyor rollers



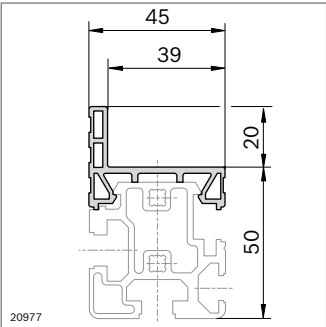
MV45x45

A = 6,2 cm²
I_x = 11,8 cm⁴
I_y = 10,5 cm⁴
W_x = 5,3 cm³
W_y = 4,7 cm³
m = 1,7 kg/m

19698

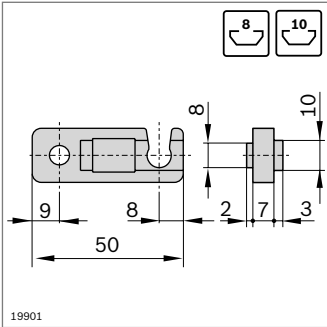
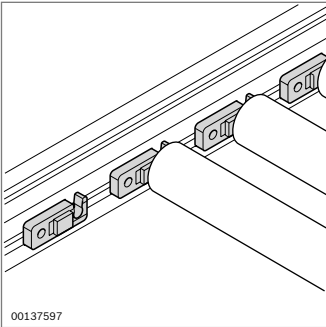
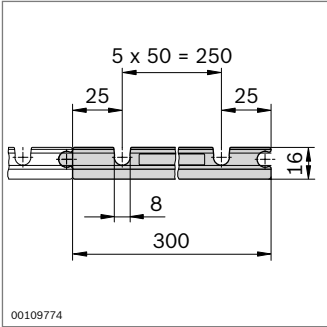
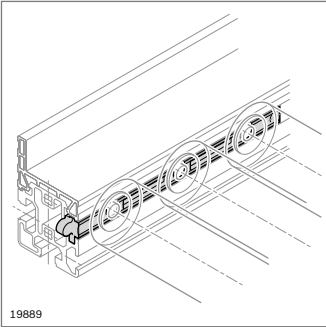
Section profile MV45x45		L (mm)	No.
1 pc		30 ... 6070	3 842 993 029 / L
20 pcs		6070	3 842 537 321

Material: Aluminum, anodized



Guide profile MV45	L (mm)	ESD		No.
	30 ... 3000		1	3 842 993 511 / L
	3000		10	3 842 525 443
	30 ... 3000		1	3 842 993 512 / L
	3000		10	3 842 526 034

Material: PVC

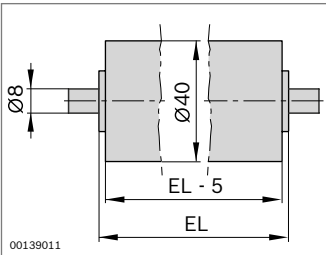
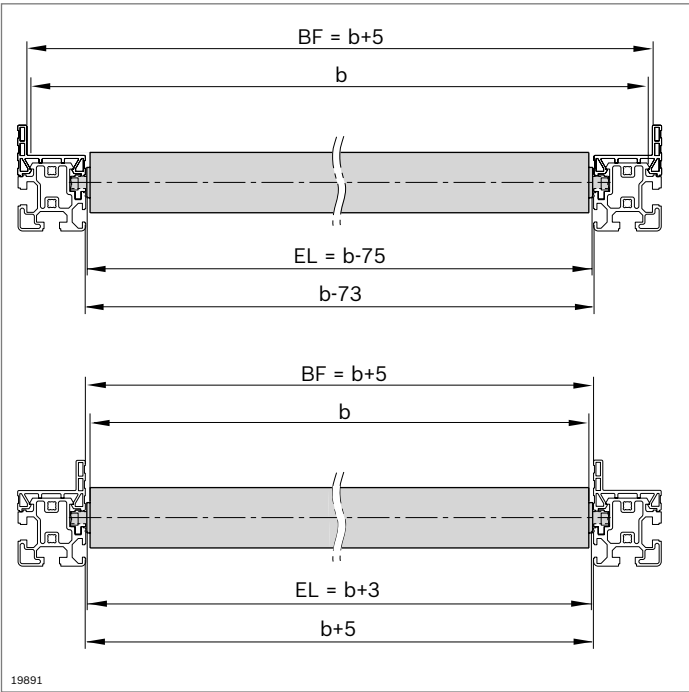
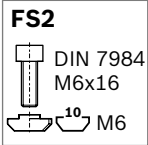
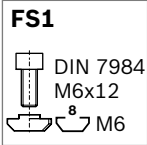


EcoFlow roller carrier	ESD	No.
	10	3 842 535 683

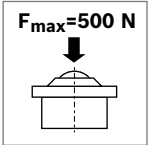
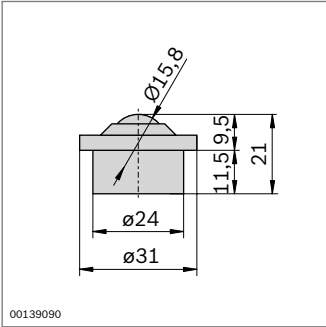
Material: ABS; black

Roller mount	Slot	No.	FS
	8 10	3 842 535 667	FS1
	10 10	3 842 535 668	FS2

Material: Roller mount: PA6, black
Fastening material: steel, galvanized
Scope of delivery: Incl. fastening material (FS)



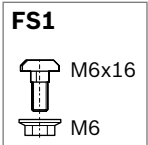
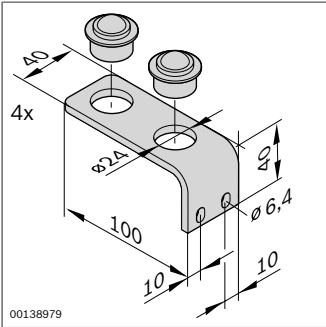
EcoFlow roller	F _{max} (N)	EL (mm)	ESD	No.
Plastic, gray	150	105 ... 605		3 842 994 989 / L
		225		3 842 525 740
		325		3 842 525 741
		425		3 842 525 742
		525		3 842 537 164
Steel, galvanized	500	105 ... 1005		3 842 994 988 / L
		225		3 842 525 737
		325		3 842 525 738
		425		3 842 525 739
		525		3 842 537 163
Stainless steel	150	105 ... 1005		3 842 995 008 / L



► Ball roller for smooth manual movement of goods with large-surfaces

Ball roller	ESD	No.
	 20	3 842 541 008

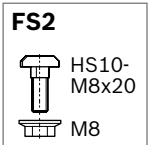
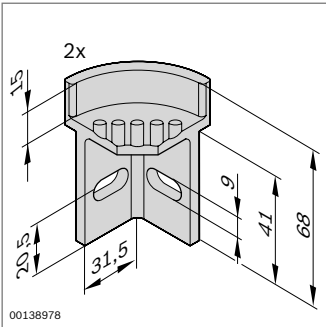
Material: Housing: steel, galvanized
Ball: stainless steel



Transverse conveyor	ESD	No.	FS
	 Set	3 842 536 055	8xFS1

Material: Bracket: steel, galvanized
Ball: stainless steel

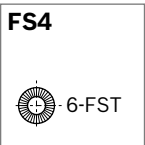
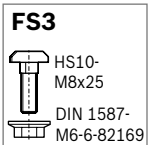
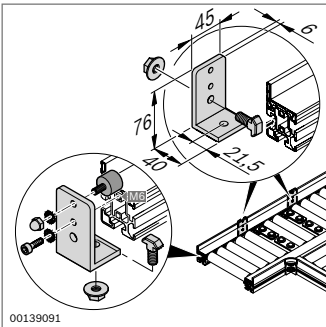
Scope of delivery: Incl. 4 x bracket plate, fastening material (FS) for 10 mm slot



Corner piece	ESD	No.	FS
	 Set	3 842 536 056	4xFS2

Material: PA; black, ESD-conductive

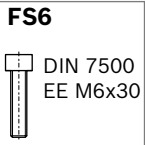
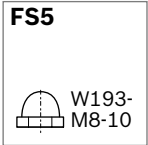
Scope of delivery: Incl. 2 x corner piece, fastening material (FS) for 10 mm slot

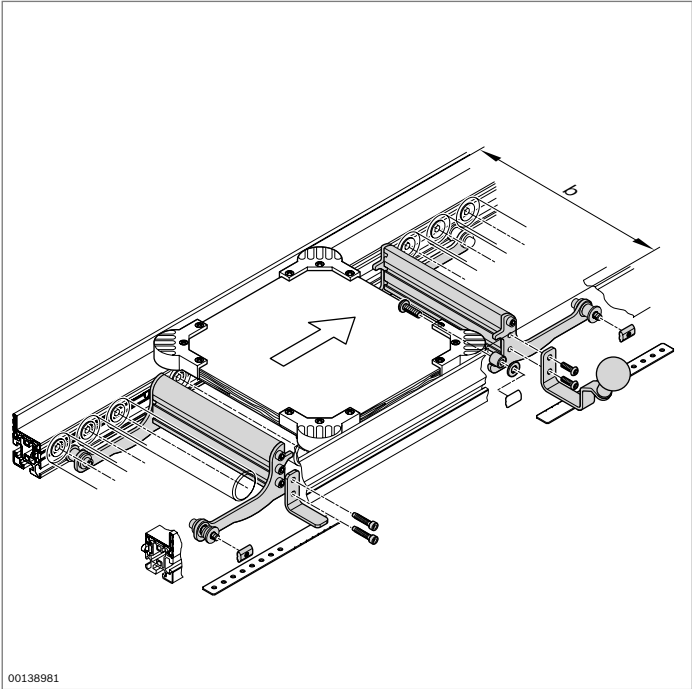


Stop	No.	FS
Set	3 842 536 057	2xFS3, 4xFS4, 2xFS5 2xFS6

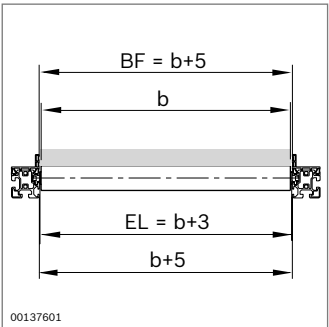
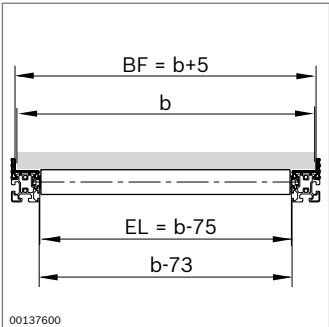
Material: Aluminum, anodized

Scope of delivery: Incl. 2 x stop, fastening material (FS)





- Stop gate and return stop for positioning workpiece pallets or containers
- At the planning stage remember to leave sufficient leg room. The stop gate and return stop extend downwards by an additional 45 mm
- We recommend using a workpiece pallet with corner pieces (p. 12-32) to provide a defined stopping mechanism

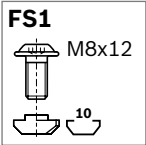
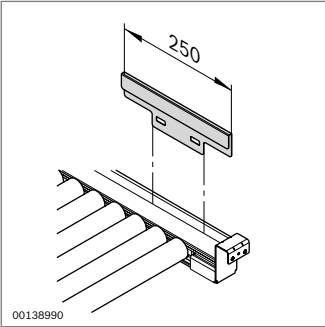


Stop gate	EL (mm)	No.
	105 ... 1005	3 842 995 007 / EL
	225	3 842 537 894
	325	3 842 537 895
	425	3 842 537 896
	525	3 842 537 897

Scope of delivery: Incl. fastening material

Return stop	EL (mm)	No.
	105 ... 1005	3 842 995 017 / EL
	225	3 842 537 898
	325	3 842 537 899
	425	3 842 537 900
	525	3 842 537 901

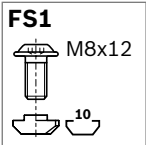
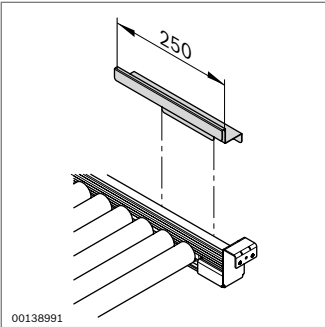
Scope of delivery: Incl. fastening material



- Protective cover to protect the EcoFlow guide profile when loading the conveyor track

Protective cover		No.	FS
Outer slide rail	Set	3 842 537 583	4xFS1

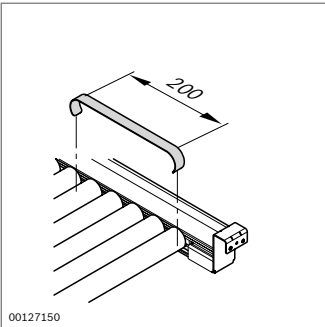
Material: Steel, galvanized
Scope of delivery: Incl. 2x protective cover, fastening material (FS)



- Protective cover to protect the EcoFlow guide profile when loading the conveyor track

Protective cover		No.	FS
Inner slide rail	Set	3 842 537 584	4xFS1

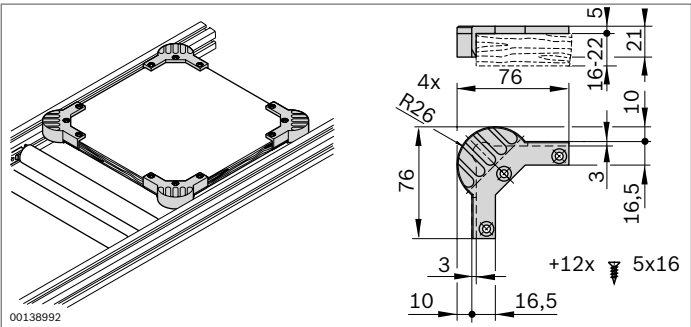
Material: Steel, galvanized
Scope of delivery: Incl. 2 x protective cover, fastening material (FS)



- Brake for bringing containers to a stop gently

Brake		No.
	20	3 842 537 740

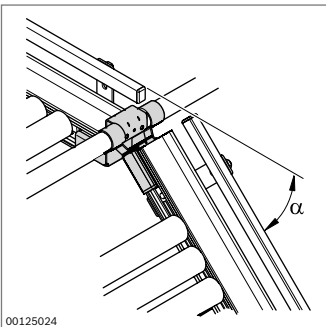
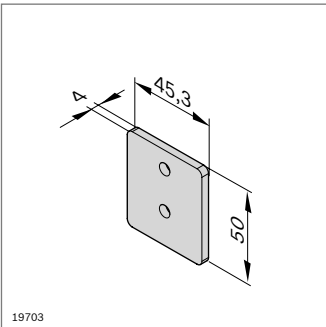
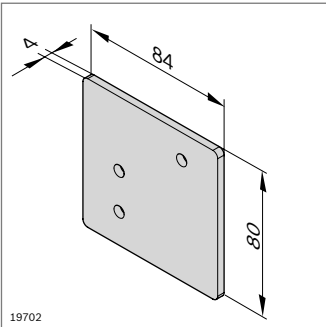
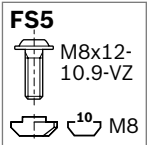
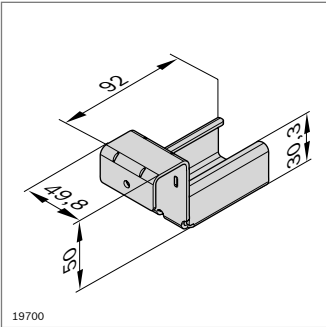
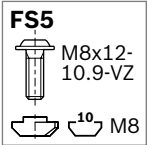
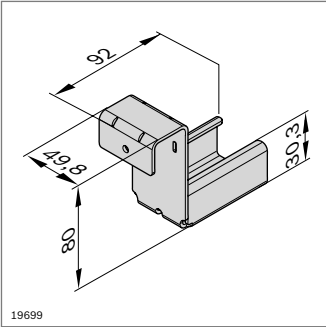
Material: Steel, galvanized



- Corner pieces for assembly of workpiece pallets
- For isolating parts from the pallet queue, well-defined guidance and stopping surfaces, good transition through curves and avoidance of edges where trapping may occur

Corner pieces for workpiece pallets	ESD		No.
		Set	3 842 536 054

Material: PA



Rail holder with stop	No.	FS
20	3 842 537 664	FS5

Material: Steel, galvanized
Accessories: Round tube D28 (p. 2-67)
Scope of delivery: Incl. fastening material (FS)

Rail holder without stop	No.	FS
20	3 842 537 665	FS5

Material: Steel, galvanized
Accessories: Round tube D28 (p. 2-67)
Scope of delivery: Incl. fastening material (FS)

Closure plate with stop	No.	FS
20	3 842 537 593	2xFS6

Material: Steel, galvanized
Scope of delivery: Incl. fastening material (FS)

Closure plate without stop	No.	FS
20	3 842 537 592	2xFS6

Material: Steel, galvanized
Scope of delivery: Incl. fastening material (FS)

- Flexible bridge with maximum tilt ($\alpha_{\max}$) from horizontal:
- with round tube D28 (p. 2-67): $\alpha_{\max} = 40^\circ$
 - with strut profile D28x55 (p. 2-68): $\alpha_{\max} = 30^\circ$

Flexible bridge	No.
20	3 842 537 911

Material: Steel, galvanized

Technical drawing of a mechanical part with dimensions and coordinate system. The part is symmetrical about the y-axis. Dimensions include: total width 45, total height 30, top flange thickness 12, central hole diameter 8, hole offset from center 16.5, bottom flange thickness 3, and a small offset 8.1. A coordinate system (x, y) is shown with the origin at the center of the part.

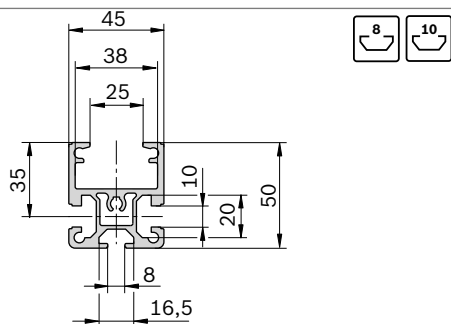
Technical drawing of a mechanical part, likely a bracket or support, showing dimensions in millimeters. The part is symmetrical about a vertical centerline (indicated by a dashed line). Key dimensions include:

- Overall width: 45 mm
- Inner width (top): 39 mm
- Inner width (bottom): 25 mm
- Central hole diameter: $\varnothing 5,5$
- Overall height: 75 mm
- Height of the top flange: 18 mm
- Height of the middle section: 35 mm
- Height of the bottom flange: 20 mm
- Radius of the bottom flange: 10 mm
- Radius of the central hole: 10 mm

Bosch Rexroth AG, 3 842 540 392 (2015-09)

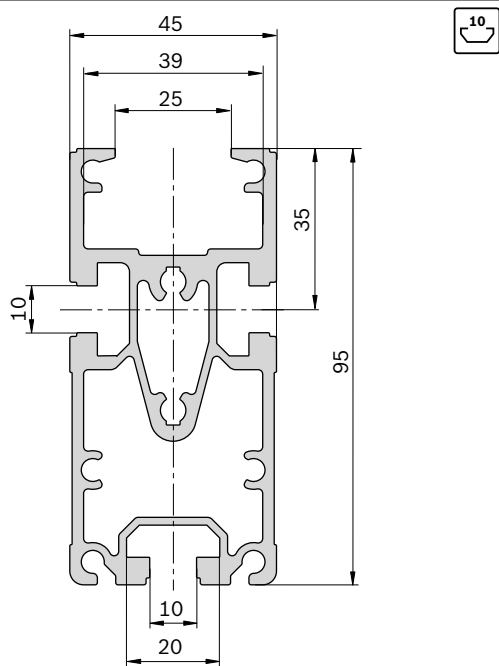
SP 2/B-50

A = 6,9 cm²
I_x = 46,2 cm⁴
I_y = 16,9 cm⁴
W_x = 5,3 cm³
W_y = 7,5 cm³
m = 1,9 kg/m



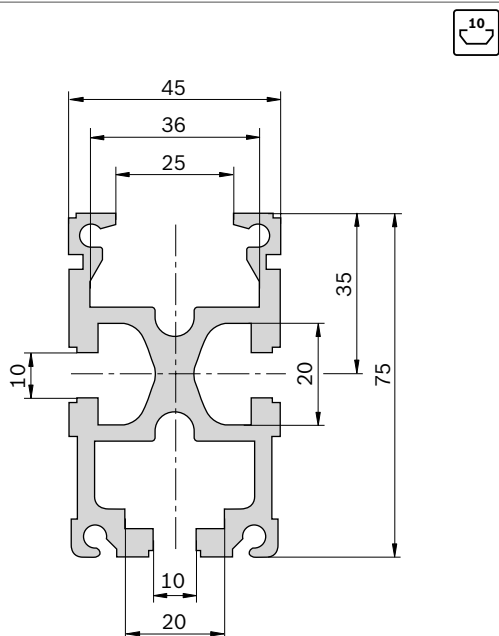
SP 2/B-100

A = 11,9 cm²
I_x = 95,1 cm⁴
I_y = 30,4 cm⁴
W_x = 20,0 cm³
W_y = 13,5 cm³
m = 3,2 kg/m



SP 2/BH

A = 12,4 cm²
I_x = 53,7 cm⁴
I_y = 28,6 cm⁴
W_x = 14,0 cm³
W_y = 13,8 cm³
m = 3,3 kg/m



Section profile	SP 2/B-50	Slot	L (mm)	No.
1 pc		8 / 10	200 ... 6000	3 842 992 903 / L
20 pcs		8 / 10	6070	3 842 532 697

Material: Aluminum, natural-colored, anodized

Section profile	SP 2/B-100	Slot	L (mm)	No.
1 pc			200 ... 6000	3 842 993 259 / L
16 pcs		10	6070	3 842 532 608

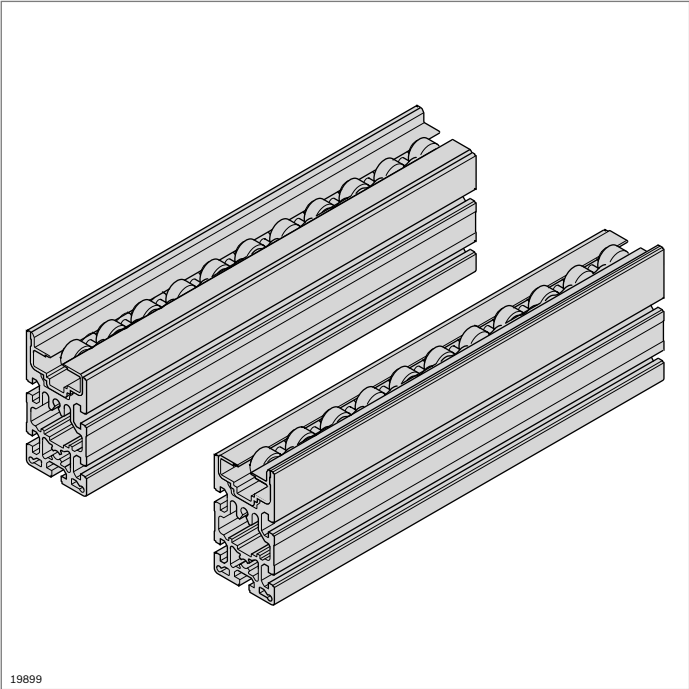
Material: Aluminum, natural-colored, anodized

Accessories: Cross connector QV 2 (p. 12-35)

Section profile	SP 2/BH	Slot	L (mm)	No.
1 pc		10	200 ... 6000	3 842 990 409 / L
16 pcs		10	6070	3 842 532 696

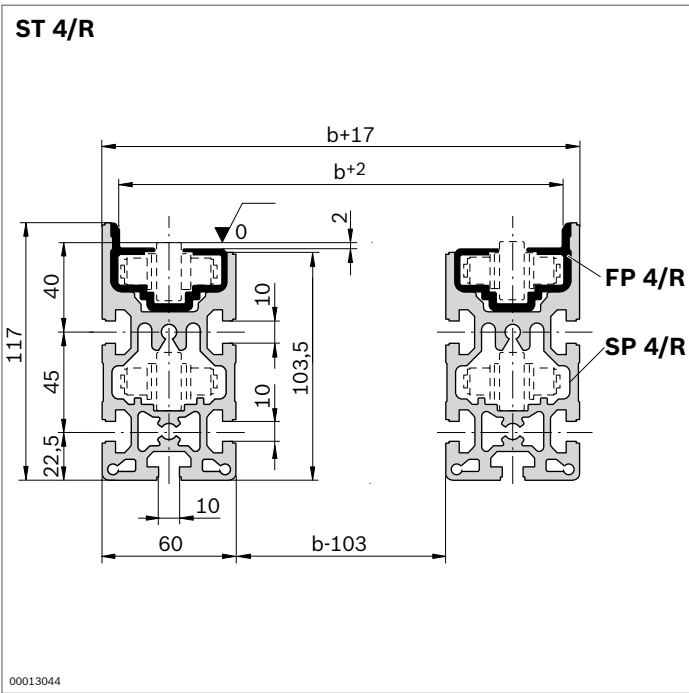
Material: Aluminum, natural-colored, anodized

Accessories: Cross connector QV 2 (p. 12-35)



Conveyor sections made of SP 4/R section profiles and accumulation roller chains

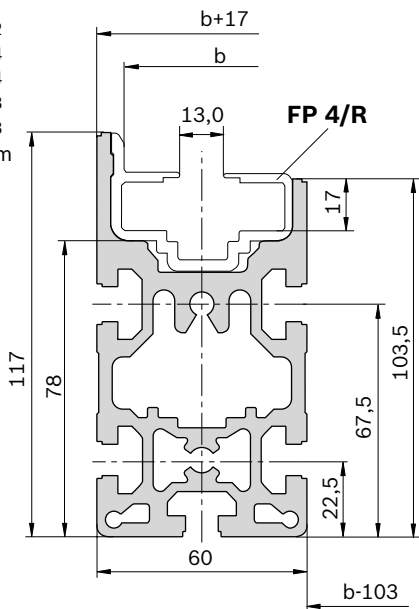
- For constructing manual slide sections with high bearing loads (up to 2.0 kg/cm)
- For applications with and without workpiece pallets
- Low friction
- Steel chain with support rollers made of PA 12



Section ST 4/R	L (mm)	No.
	200 ... 6000	3 842 994 839 / L
Material:	Aluminum, natural-colored, anodized	
	Guide profile: PA 12	
Scope of delivery:	2 x section profile SP 4/R	
	2 x guide profile FP 4/R	
Condition on delivery:	Assembled	
Accessories:	Accumulation roller chain (p. 12-31)	
	Cross connector QV 4 (p. 12-31)	

SP 4/R

A = 26,13 cm²
I_x = 222,0 cm⁴
I_y = 95,5 cm⁴
W_x = 84,86 cm³
W_y = 16,41 cm³
m = 3,5 kg/m



19608

Section profile SP 4/R

L (mm) No.



10 pcs



6000 **3 842 532 505**

Material:

Aluminum, natural-colored, anodized

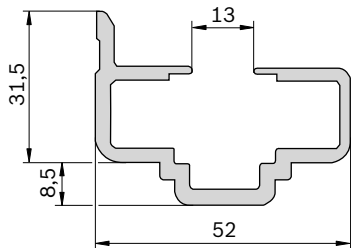
Accessories:

Guide profile FP 4/R

Accumulation roller chain (p. 12-31)

Cross connector QV 4 (p. 12-31)

FP 4/R



19610

Guide profile FP 4/R

L (mm) No.



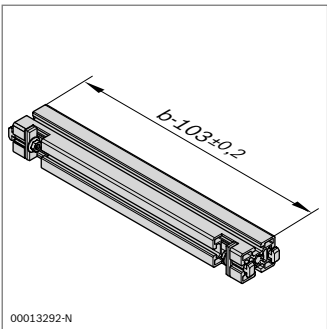
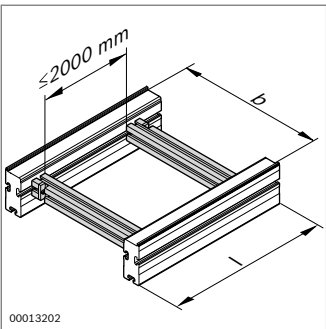
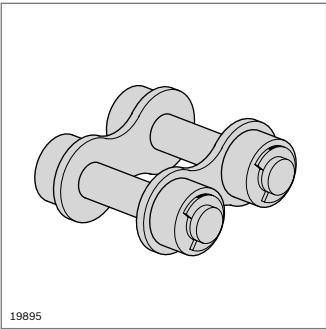
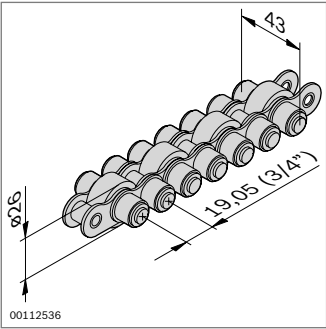
10 pcs



6000 **3 842 532 508**

Material:

PA 12 (anti-static)



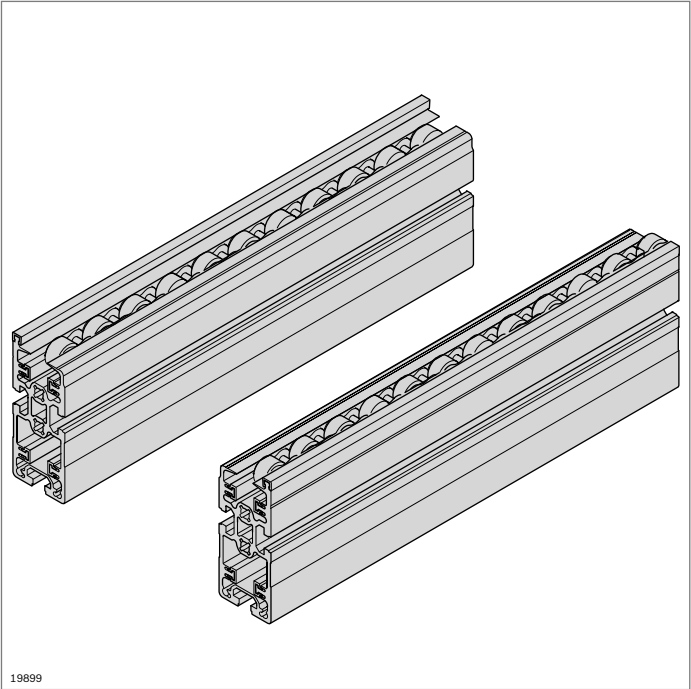
Accumulation roller chain	L (mm)	No.
Support roller: PA 12	5000	3 842 508 967
Material:	Accumulation roller chain: steel Support roller: see ordering table	
Scope of delivery:	Incl. chain coupling	
Accessories:	Additional chain coupling (3 842 071 941)	

► Chain coupling for extending accumulation roller chains

Chain coupling	No.
	3 842 071 941
Material:	Steel

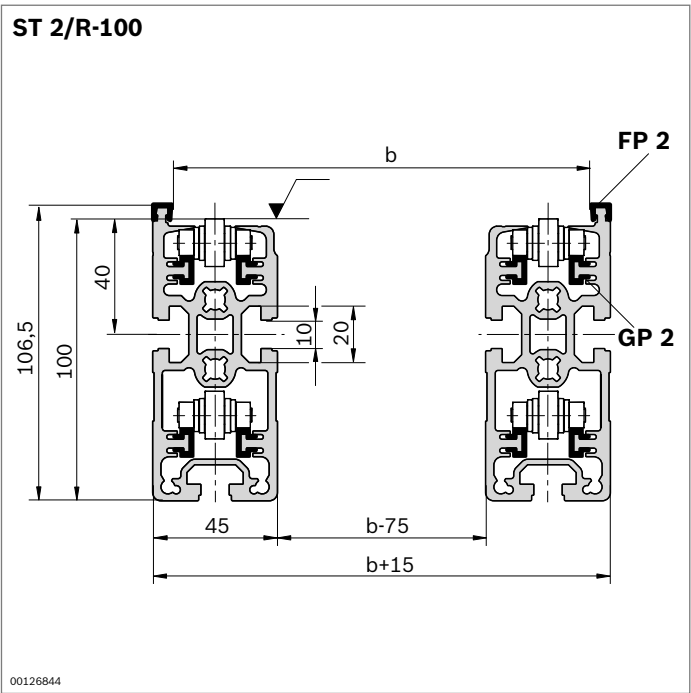
- Cross connector QV 4 for connecting two section profiles
- For defining the track width

Cross connector QV 4	b (mm)	No.
	443 ... 1243	3 842 994 832 / b



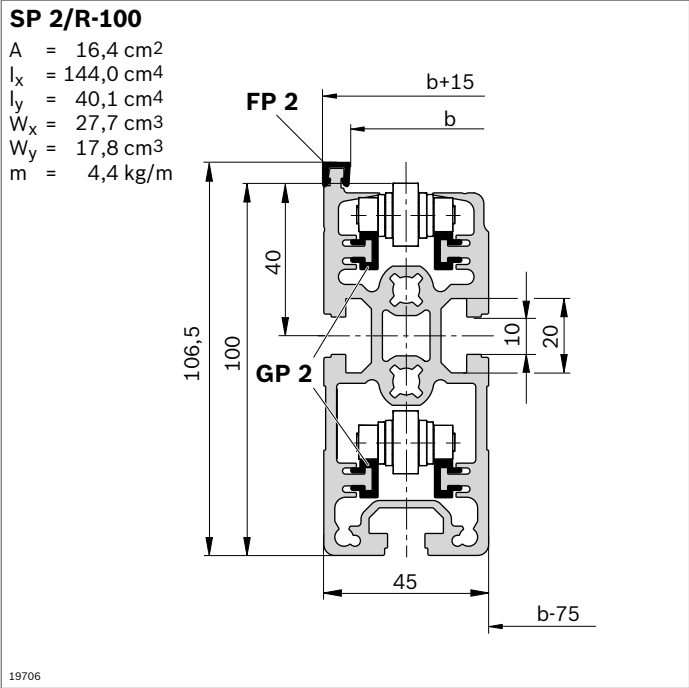
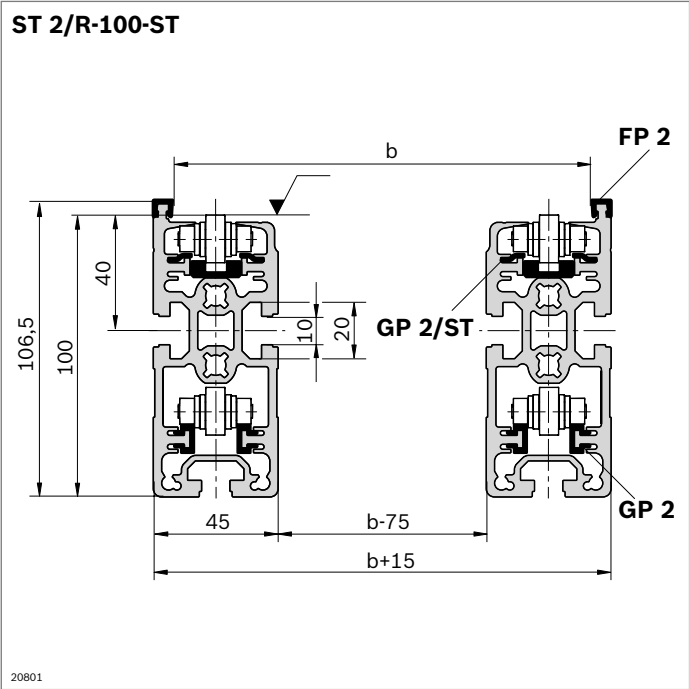
Conveyor sections made of SP 2 section profiles and accumulation roller chains

- For constructing manual slide sections with high bearing loads (up to 2.0 kg/cm)
- For applications with and without workpiece pallets
- Accumulation roller chain with and without small parts trap



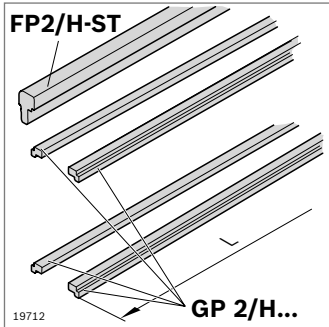
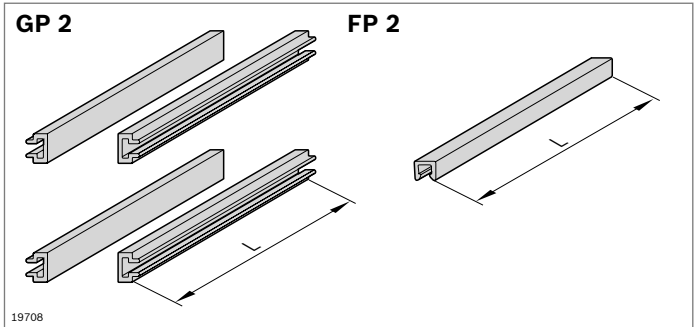
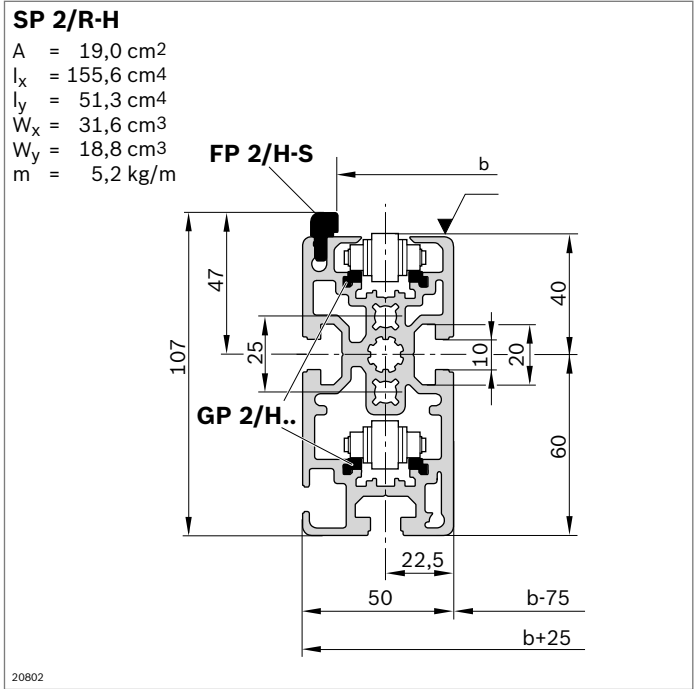
- Customizable section with plastic guide profile

Section ST 2/R-100	ESD	L (mm)	No.
		60 ... 6000	3 842 994 889 /L
Material:	Aluminum, natural-colored, anodized		
	Slide profile, guide profile: PA 12		
Scope of delivery:	2x section profile SP 2/R-100		
	2x guide profile FP 2		
	8x slide profile GP 2		
Condition on delivery:	Assembled		
Accessories:	Accumulation roller chain (p. 12-35)		
	Accumulation roller chain with small parts trap (p. 12-35)		
	Cross connector QV 2, QV 2-H (S. 12-35)		



Section ST 2/R-100 ST	ESD	L (mm)	No.
		60 ... 6000	3 842 994 907 / L
Material:	Aluminum, natural-colored, anodized		
	Slide profile: steel		
	Guide profile: PA 12		
	Guide profile for accumulation roller chain: PE		
Scope of delivery:	2 x section profile SP 2/R-100		
	2 x guide profile FP 2		
	4 x slide profile GP 2		
	4 x slide profile GP 2/ST		
	2 x guide profile for accumulation roller chain		
Condition on delivery:	Assembled		
Accessories:	Accumulation roller chain (p. 12-35)		
	Accumulation roller chain with small parts trap (p. 12-35)		
	Cross connector QV 2, QV 2-H (S. 12-35)		

Section profile SP 2/R-100	L (mm)	No.
16 pcs	6070	3 842 529 931
Material:	Aluminum, natural-colored, anodized	
Accessories:	Guide and slide profile PA (p. 12-34)	
	Guide and slide profile ST (p. 12-34)	



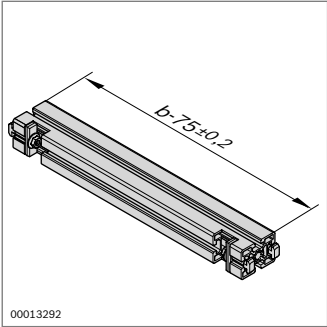
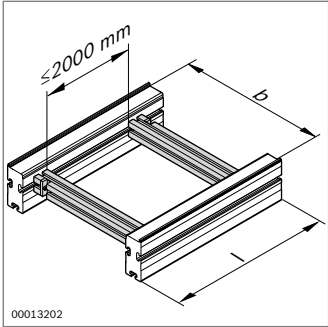
Section profile SP 2/R-H		L (mm)	No.
 12 pcs		6070	3 842 536 792
Material:		Aluminum, natural-colored, anodized	
Accessories:		Guide profile FP 2/H-ST Slide profile GP 2/H-KST Slide profile GP 2/H-ST	

Guide and slide profile PA		ESD	No.
			3 842 529 933
Material:		PA 12 (anti-static)	
Scope of delivery:		64 x slide profile GP 2 (L = 6000 mm) 16 x guide profile FP 2 (L = 6000 mm)	

Guide and slide profile ST		ESD	No.
			3 842 532 676
Material:		GP 2/ST: steel, corrosion-resistant Guide profile for accumulation roller chain: PE	
Scope of delivery:		32 x slide profile GP 2/ST (L = 3000 mm) 24 x guide profile for accumulation roller chain (L = 2000 mm)	

Guide profile		L (mm)	ESD	No.
FP 2/H-ST 	24 pcs 	3000		3 842 537 890
Material:		Steel, corrosion-resistant		

Slide profiles		L (mm)	ESD	No.
GP 2/H-ST 	48 pcs 	3000		3 842 537 888
GP 2/H-KST 	48 pcs 	3000		3 842 537 889
Material:		H-KST: PA (anti-static) H-ST: steel, corrosion-resistant		

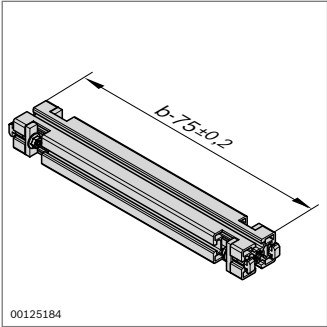
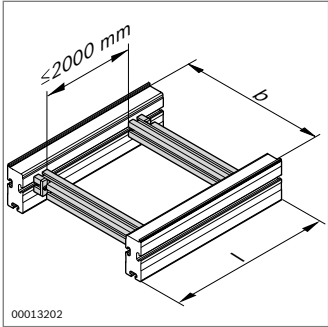


- Cross connector QV 2 for connecting two section profiles
- For defining the track width

Cross connector QV 2	b (mm)	No.
	160...1040	3 842 994 635 / b

Material: Aluminum, natural-colored, anodized
Fastening material: steel

Scope of delivery: Strut profile 45x60, 2 x cross connector (p. 3-56)

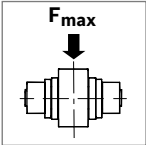
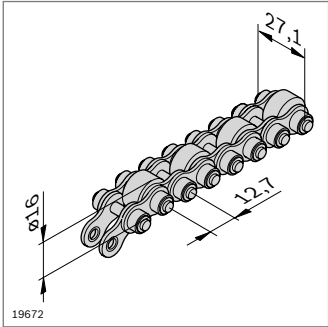


- Cross connector QV 2-H for connecting two section profiles
- For heavy applications
- For defining the track width

Cross connector QV 2-H	b (mm)	No.
	160...1040	3 842 993 052 / b

Material: Aluminum, natural-colored, anodized
Fastening material: steel

Scope of delivery: Strut profile 45x60, 4 x cross connector (p. 3-56)



Accumulation roller chain	F _{max} (kg/cm)	L (mm)	No.
Support roller: PA 12	1.5	12000	3 842 523 918
Support roller: steel	2.0 ¹⁾ /1.5 ²⁾	12000	3 842 530 864

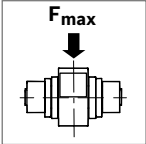
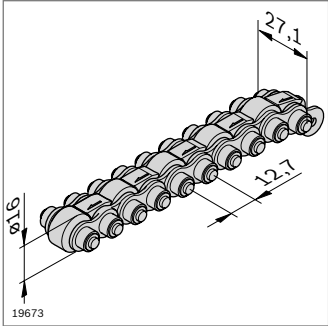
1) When using slide profile GP 2/ST

2) When using slide profile GP 2

Material: Accumulation roller chain: steel
Support roller: see ordering table

Scope of delivery: Incl. chain coupling

Accessories: Additional chain coupling (**3 842 530 417**)



Accumulation roller chain with small parts trap	F _{max} (kg/cm)	L (mm)	No.
Support roller: PA 12	1.5	12000	3 842 536 268
Support roller: steel	2.0 ¹⁾ /1.5 ²⁾	12000	3 842 536 270

1) When using slide profile GP 2/ST

2) When using slide profile GP 2

Material: Accumulation roller chain: steel
Support roller: see ordering table

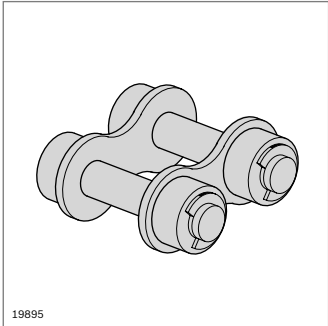
Scope of delivery: Incl. chain coupling

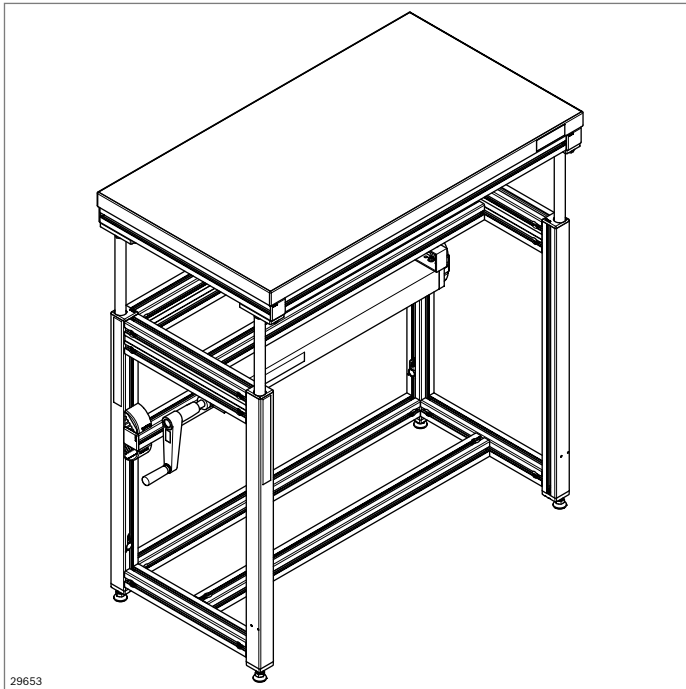
Accessories: Additional chain coupling (**3 842 530 417**)

- Chain coupling for extending accumulation roller chains

Chain coupling	No.
	3 842 530 417

Material: steel





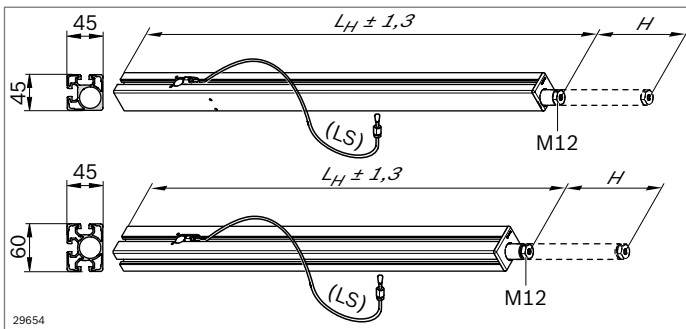
Components for height adjustment 45x45 and 45x60



- Infinitely variable hydraulic height adjustment with a crank handle, e.g. for work benches, tables or frames
- Max. load bearing capacity per lifting module 800 N
- Maximum lift 400 mm
- Simplest mounting system due to use of hydraulic hoses with quick-release couplings
- Variable or fixed lengths for lifting module and hoses
- For compliance with the safety requirements for lifting tables according to DIN EN 1570-1.

Accessories, optional:

- connection elements, e.g. bracket (see p. 3-17),
- leveling foot, e.g. 3 842 529 025 (see p. 6-4)



Lifting module	L _H (mm)	L _S (mm)	No.
45x45 Variable	720 ... 2000 ¹⁾	1000 ... 4000 ²⁾	Set 3 842 994 000/L_H/L_S
Standard	770	2500	Set 3 842 552 131/L_H/L_S
45x60 Variable	720 ... 2000 ¹⁾	1000 ... 4000 ²⁾	Set 3 842 994 001/L_H/L_S
Standard	770	2500	Set 3 842 552 132/L_H/L_S

¹⁾ Lifting module length (L_H) can be ordered in 10 mm increments

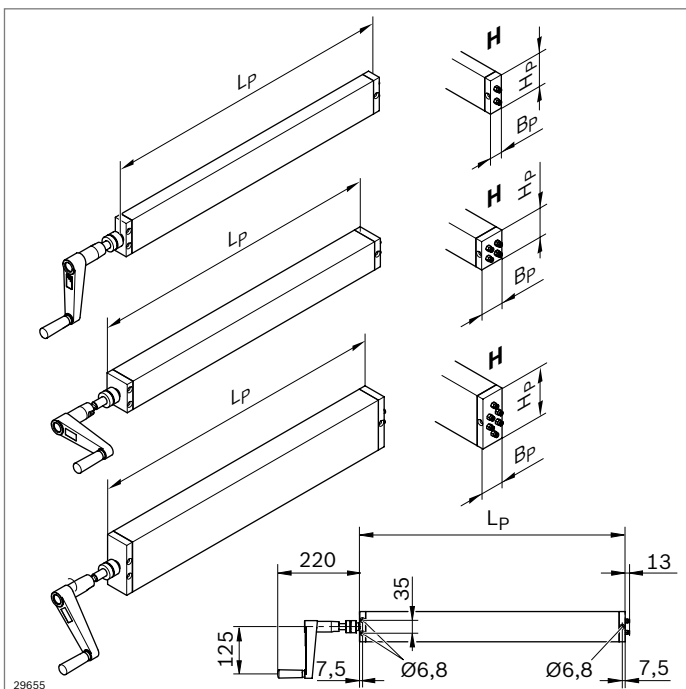
²⁾ Hose length (L_S) can be ordered in 1000, 1500, 2000, 2500, 3000, 4000 mm

Scope of delivery: 2 x lifting module with built-in hydraulic cylinder incl. hose (min. bend radius 50 mm) and quick-release coupling; 2 x cover cap

Condition on delivery: Assembled, filled with food-safe HPL oil of class NSF H1

Pump and drive

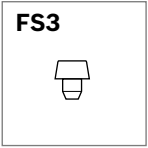
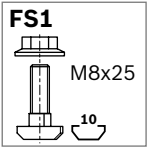
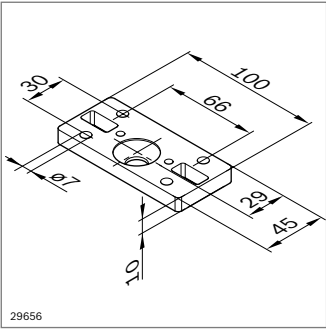
- Synchronous activation of 2, 4 or 6 lifting modules
- Can be mounted in any position
- Incl. friction clutch for load control
- 4 mm lift per rotation
- Crank handle, retractable



Pump	Max. Load (N)	Quantity Lift module	L _P (mm)	W _P (mm)	H _P (mm)	No.
	1600	2	702.5±2	30	80	3 842 552 133
	3200	4	702.5±2	56	68	3 842 552 134
	3200	6	714.5±2	60	120	3 842 552 135

Scope of delivery: Pump incl. hand crank and quick-release coupling

Condition on delivery: Assembled, filled with food-safe HPL oil of class NSF H1

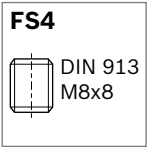
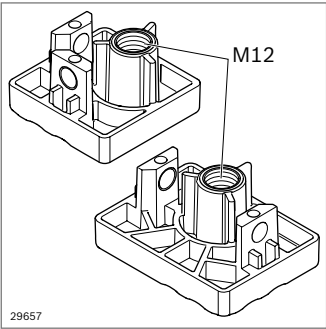


Connecting plate

- For mounting the lift module on a foot, profile or table top

Connecting plate	No.	FS
Set	3 842 552 176	4xFS1, 2xFS2, 4xFS3

Material: Aluminum
Fastening material: steel, galvanized
Scope of delivery: 2 x connecting plate; Incl. fastening material (FS)

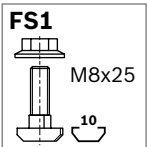
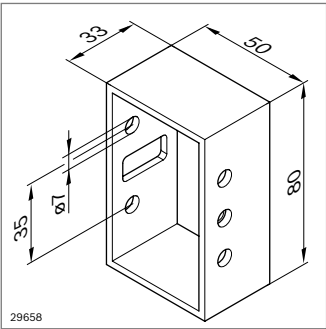


Adapter plate

- For connecting a leveling foot (e.g. 3 842 529 025) to the lifting module

Adapter plate	No.	FS
45x45	Set 3 842 552 174	4xFS4
45x60	Set 3 842 552 175	4xFS4

Material: Diecast zinc
Fastening material: steel; galvanized,
Scope of delivery: 2 x adapter plate; incl. fastening material (FS)

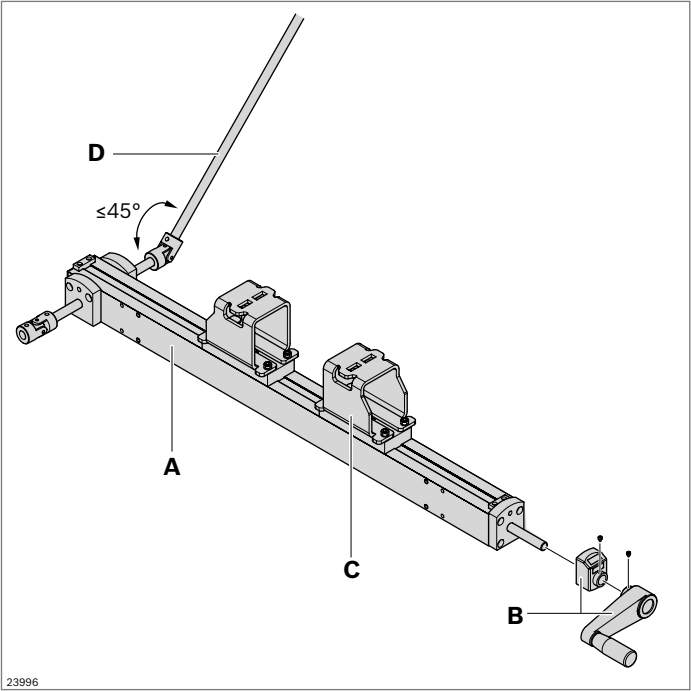


Connection adapter

- For mounting the pump on a profile or a table top
- Depending on the pump size, connection requires 3 countersunk screws (ISO 10642, M6, 8.8) which are either 40 mm long (pump for 2 lifting modules) or 70 mm long (pump for 4 or 6 lifting modules)

Connection adapter	No.	FS
Set	3 842 552 177	2xFS1

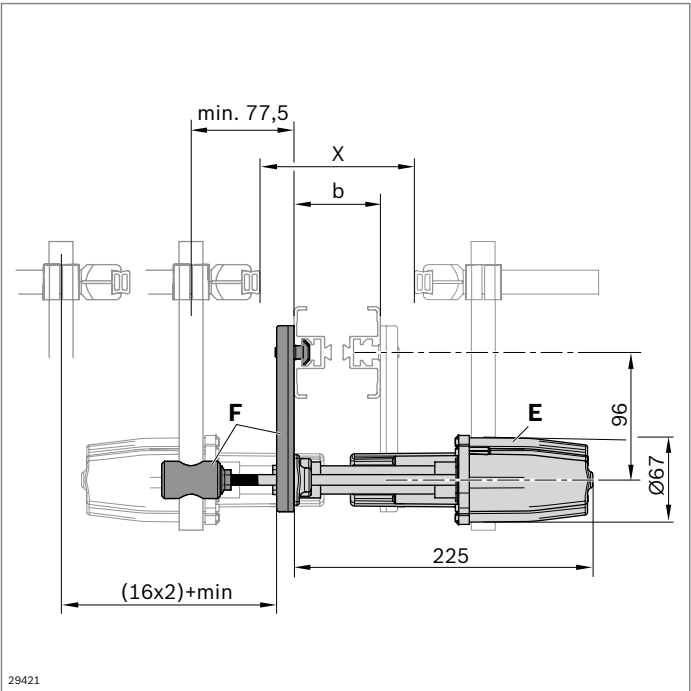
Material: Aluminum
Fastening material: steel, galvanized
Scope of delivery: 2 x connection adapter; Incl. fastening material (FS)



Adjustment unit

- Can be used for parallel width adjustment

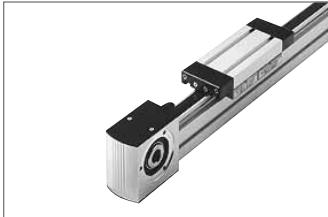
Adjustment unit (A)		No.
		3 842 547 971
Crank handle (B)		No.
		3 842 547 990
Connection kit (C)		No.
		3 842 547 729
Profile rail D12 (D)	L (mm)	No.
1 pc	200 ... 3000	3 842 993 306 / L
6 pcs	3000	3 842 533 841



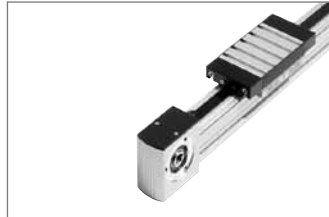
- Can be used for automatic (pneumatic) adjustment of lateral guides
- see also VarioFlow *plus* catalog (R999000401)

Adjustment unit (E)		No.
		3 842 547 707
Assembly kit (F)		No.
		3 842 547 718

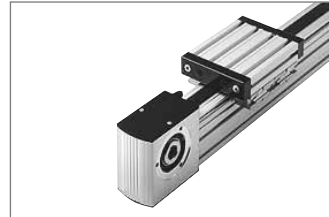
Linear guides



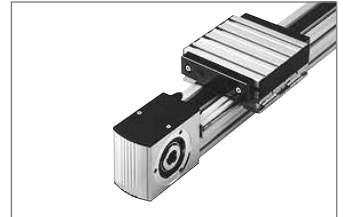
Cam roller guides LF6S
(p. 13-6)



Cam roller guides LF6C
(p. 13-11)



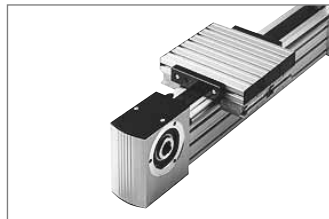
Cam roller guides LF12S
(p. 13-16)



Cam roller guides LF12C
(p. 13-23)



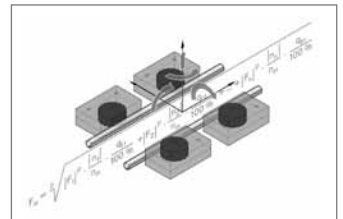
Cam roller guides LF20S
(p. 13-30)



Cam roller guides LF20C
(p. 13-37)



Center shafts, synchronous
shafts (p. 13-47)

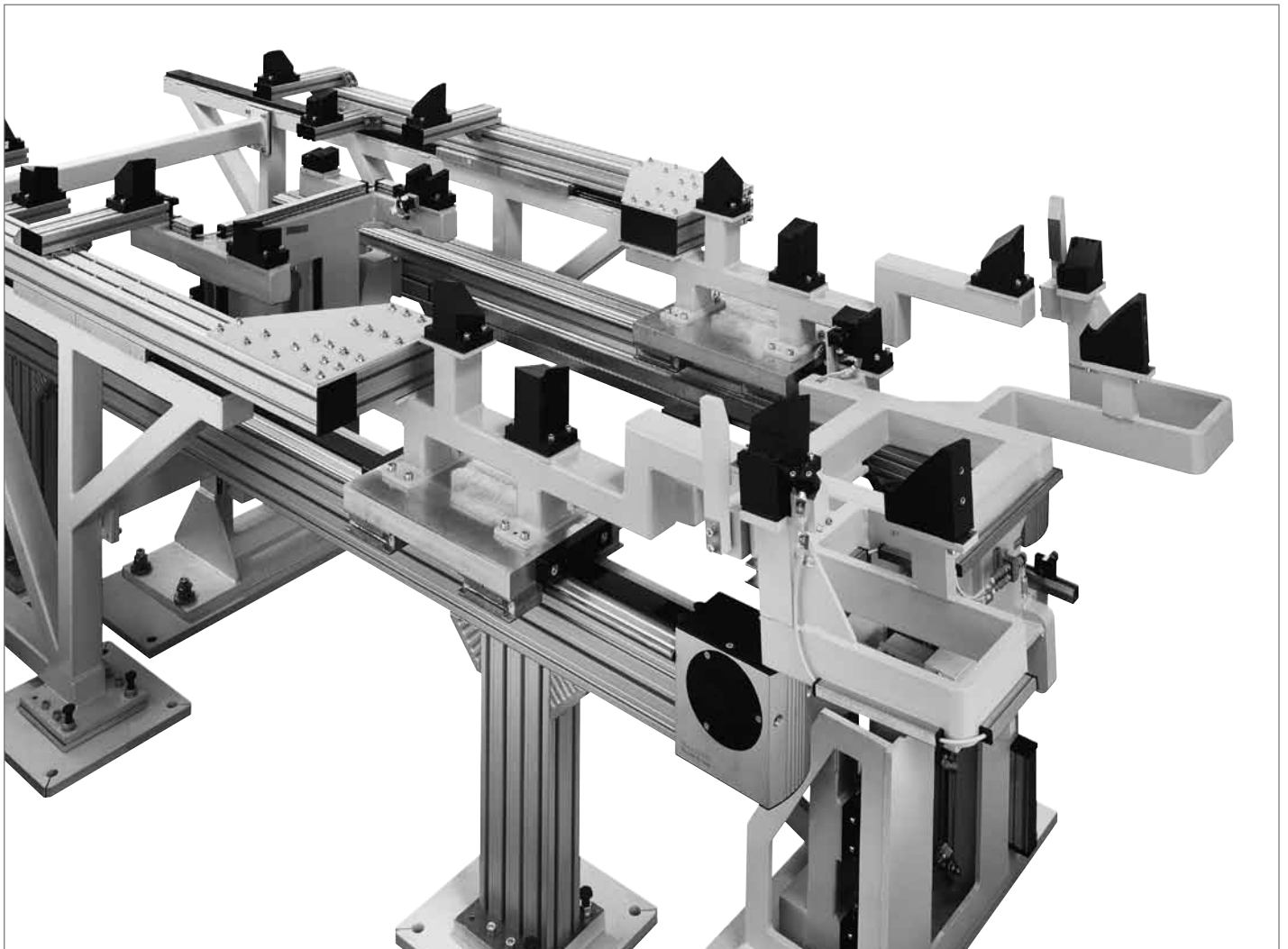


Design (p. 13-49)

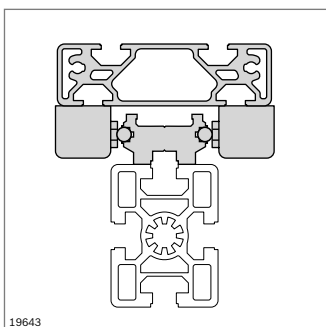
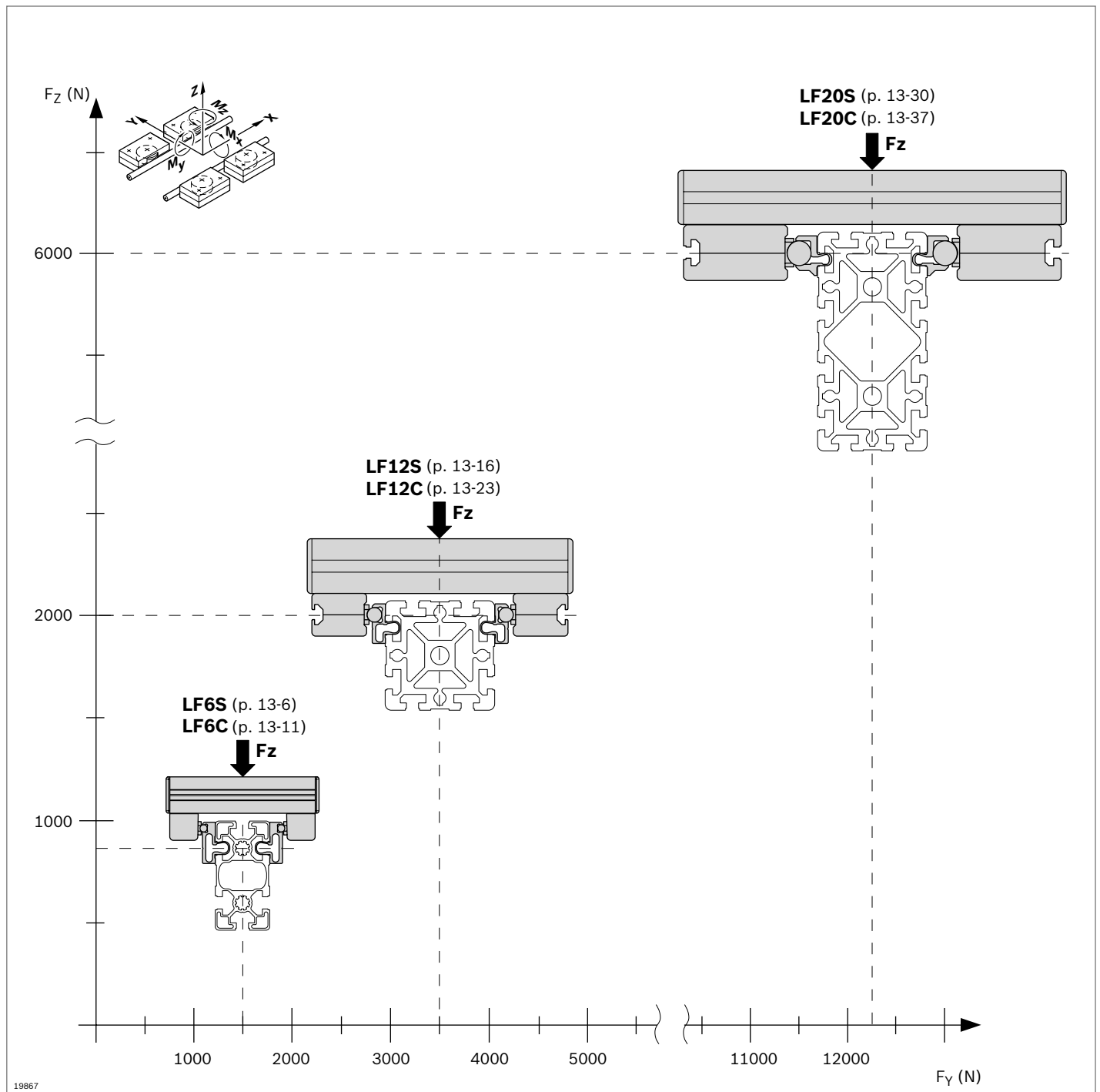


Linear guides

- ▶ For constructing linear guides based on cam roller guides
- ▶ Cam roller guides are suitable for applications with high speeds and medium loads, in particular for the construction of handling equipment, feed systems, guides in work machines, and many other applications
- ▶ Fully pre-assembled in any required length or as individual components for assembly on site
- ▶ Without drive or with toothed-belt drive for attaching gears and motors



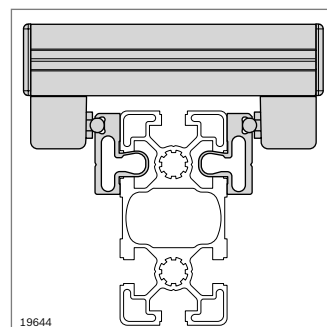
Linear guides – sizes, designs, and loads



LF...S

- Compact construction
- Fixed track width
- $v_{\max} = 5 \text{ m/s}$

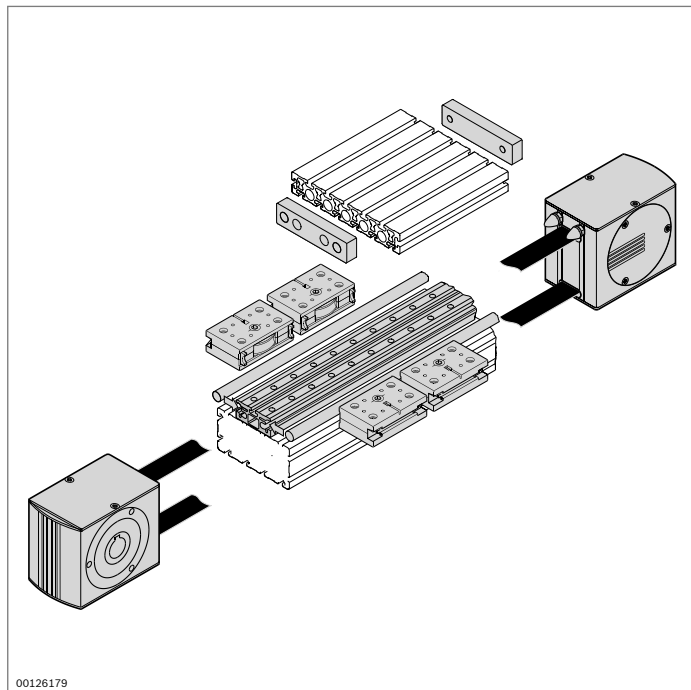
19643



LF...C

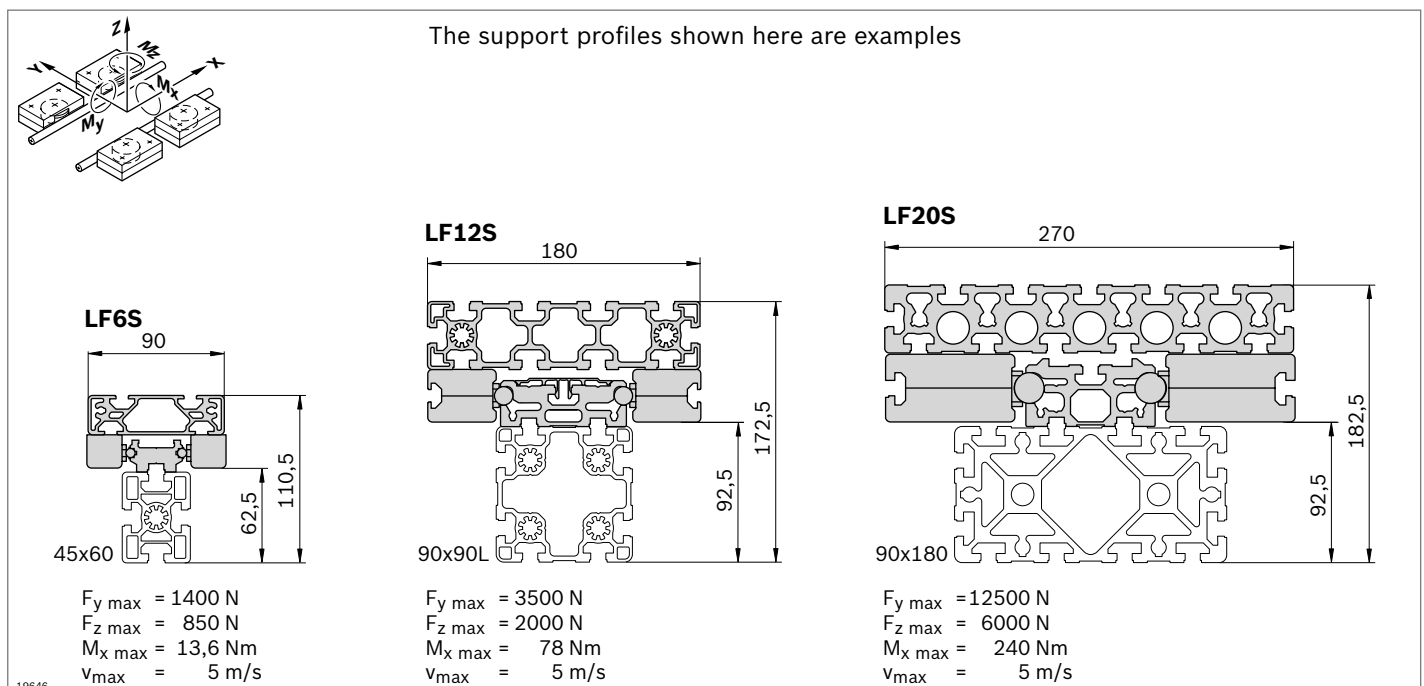
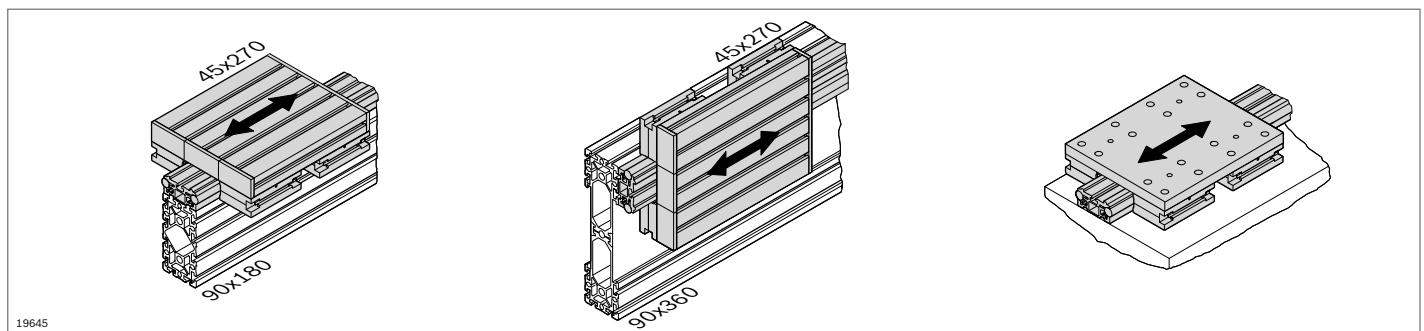
- Freely selectable track width for greater torque absorption
- $v_{\max} = 5 \text{ m/s}$

19644



Cam roller guides LF...S

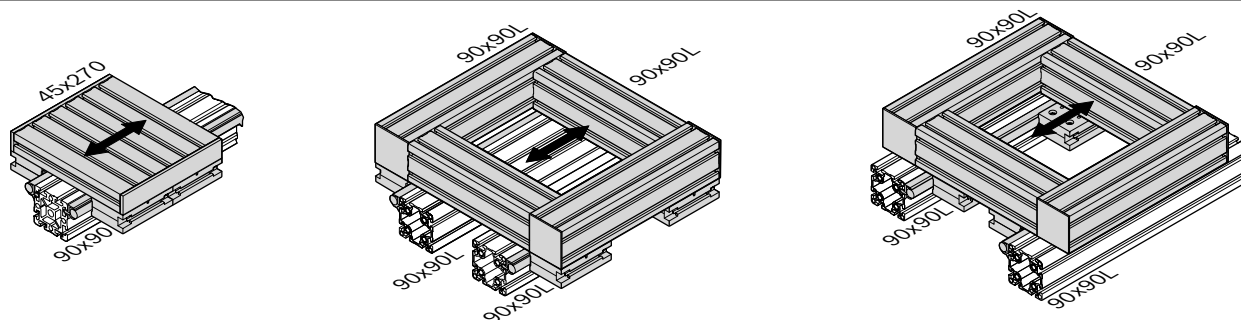
- ▶ Cam roller guide LF...S with fixed track widths
- ▶ Guide rail made of aluminum with hardened and polished VA guide rods
- ▶ Simple mounting on strut profile or directly on flat surface, e.g. on a machine
- ▶ High precision, dimensional stability and torsional rigidity
- ▶ Lighter and cheaper than steel guides
- ▶ Light trolley with good torsional rigidity
- ▶ Freely selectable trolley lengths
- ▶ Freely selectable stroke lengths possible
- ▶ High permissible speed



Cam roller guides LF...C

- ▶ Cam roller guide LF...C for free choice of track widths and large track widths
- ▶ Clamping profile made of aluminum with hardened and polished VA guide rods
- ▶ Easy assembly through clipping the clamping profile into the slots of any Rexroth profile with 10 mm slot
- ▶ Optimally adjustable to different loads
- ▶ Greater torque absorption due to a C construction and free choice of track width
- ▶ Light trolley with good torsional rigidity
- ▶ Freely selectable trolley lengths and widths
- ▶ Freely selectable stroke lengths possible
- ▶ High permissible speed

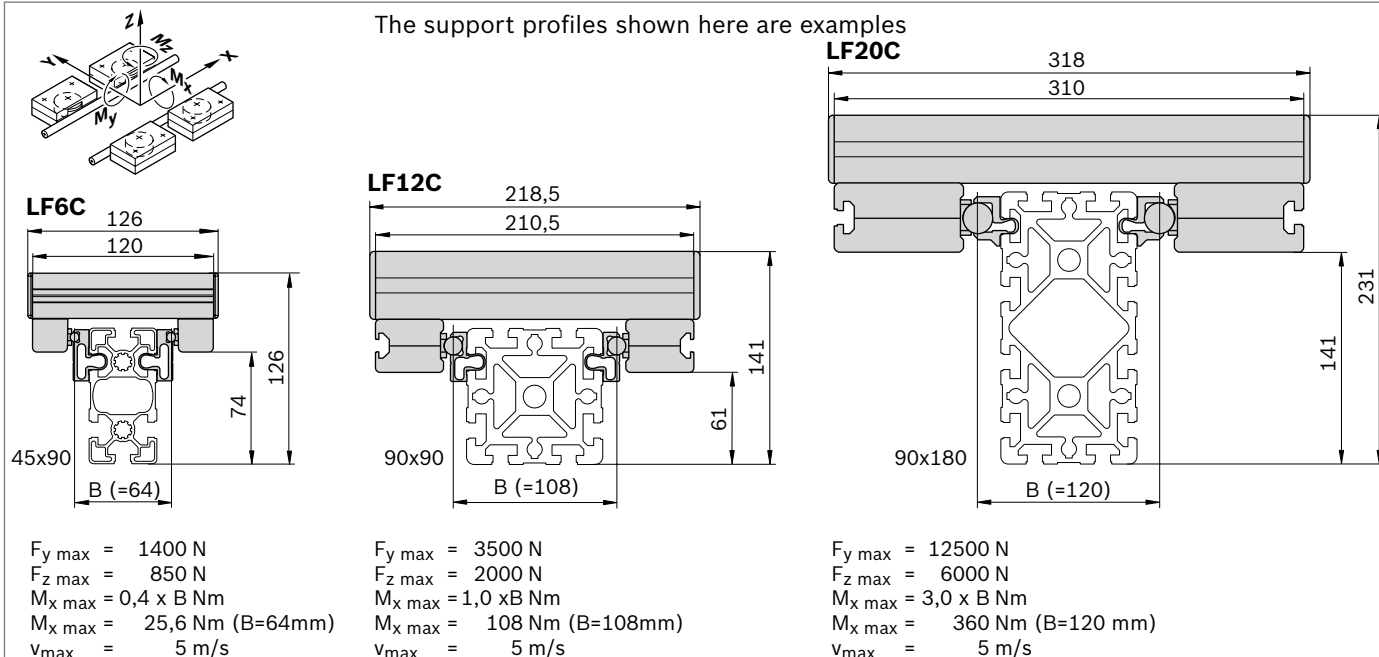
00126180



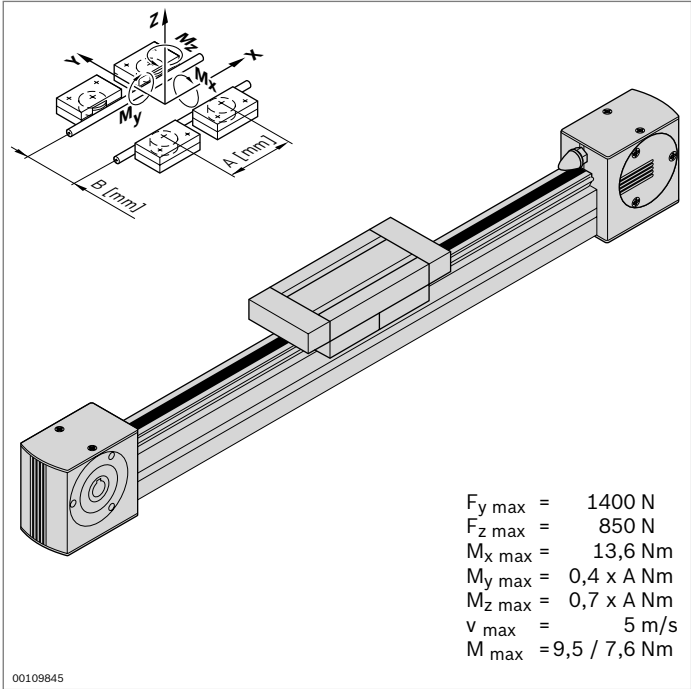
19874

13

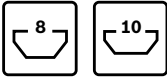
The support profiles shown here are examples



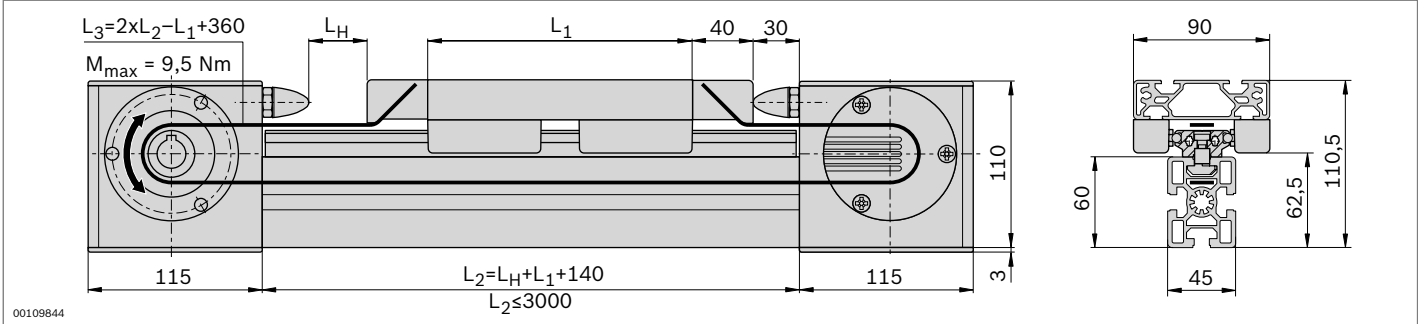
19647



Cam roller guide LF6S – complete axis



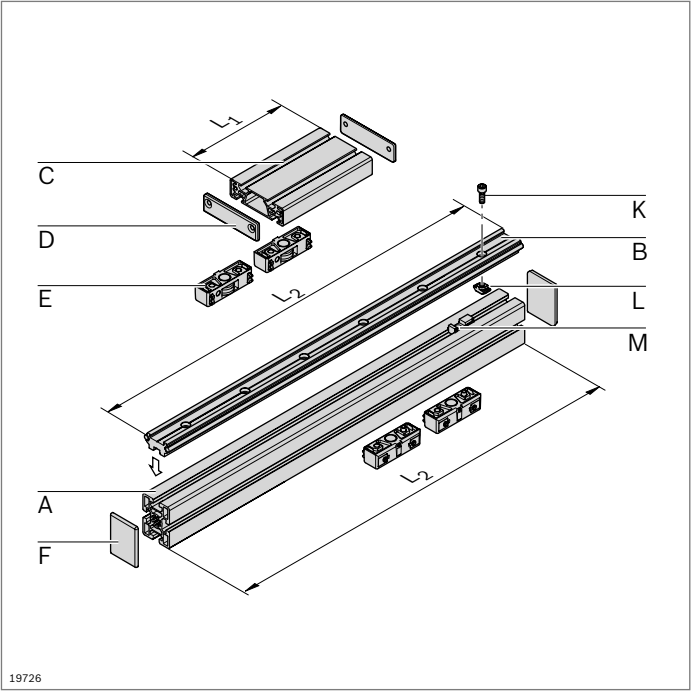
- Fully assembled cam roller guide
- Stroke and trolley length can be individually selected
- Rail profile screwed onto strut profile 45x60
- Incl. toothed belt drive; additional notes on the drive concept (p. 13-44)



Technical data

See pages 13-57 for notes on layout and drive

Complete axis LF6S	L_H/L_1 (mm)	No.
	$L_1 + 80 \leq L_H \leq 2710$	3 842 998 495 / L_H / L_1
	$150 \leq L_1 \leq 1000$	



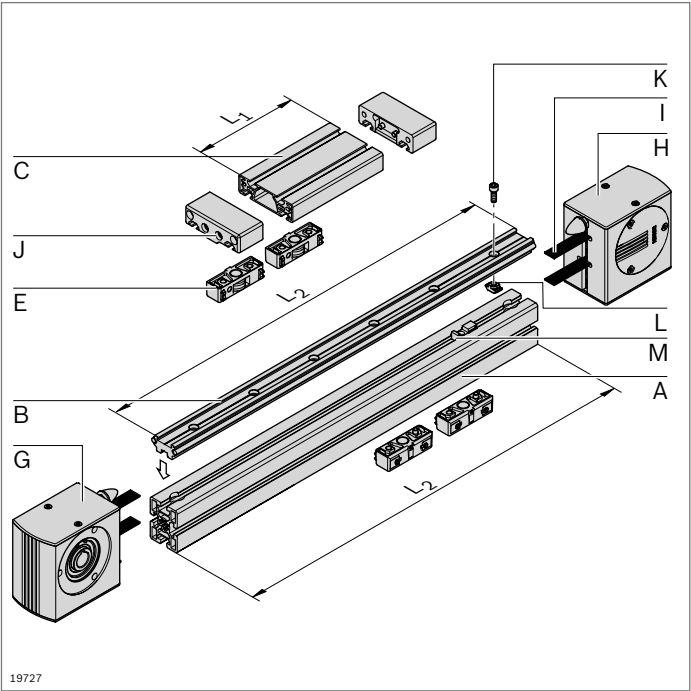
Cam roller guide LF6S – components

► Components for the individual assembly of cam roller guides, with or without drive

Parts list for cam roller guide LF6S without drive

Component	No.	Qty.	Page
A Profile 45x60	3 842 990 570 / L ₂	1	2-39
B Guide profile LF6S	3 842 993 966 / L ₂	1	13-8
C Trolley profile LF6S	3 842 993 061 / L ₁	1	13-8
D Cover cap LF6S	3 842 535 645	2	13-9
E Guide bearing LF6	3 842 535 662	4	13-8
F Cover cap 45x60	3 842 548 755	2	2-39
K Cylinder bolt M6x20 – DIN7984		n ¹⁾	
L T-nut M6, 10 mm slot	3 842 530 285	n ¹⁾	3-4
M Sliding block	3 842 146 877	n ¹⁾	13-8

1) For identification see page 13-8

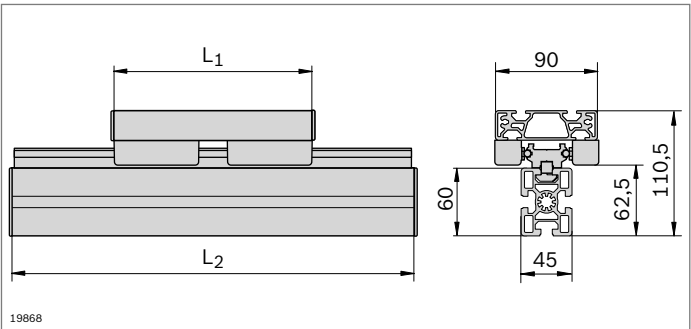


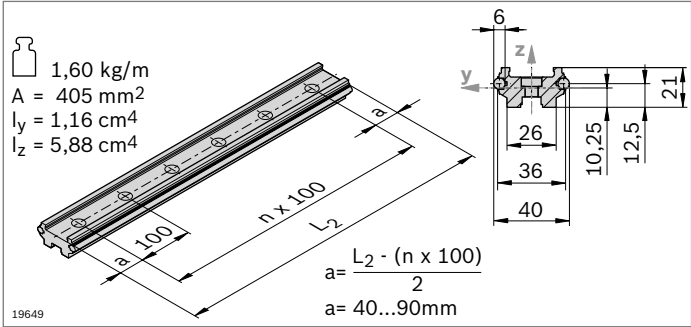
Parts list for cam roller guide LF6S with drive

Component	No.	Qty.	Page
A Profile 45x60 LF LF	3 842 993 085 / L ₂	1	2-39
B Guide profile LF6S	3 842 993 966 / L ₂	1	13-8
C Trolley profile LF6S	3 842 993 061 / L ₁	1	13-8
E Guide bearing LF6	3 842 535 662	4	13-8
G Drive head LF6S	3 842 526 410	1	13-9
H Return head LF6S	3 842 526 411	1	13-10
I Toothed belt LF6S	3 842 994 659 / L ₃ ¹⁾	1	13-10
J Belt connector LF6S	3 842 535 682	2	13-10
K Cylinder bolt M6x20 – DIN7984		n ²⁾	
L T-nut M6, 10 mm slot	3 842 530 285	n ²⁾	3-4
M Sliding block	3 842 146 877	n ²⁾	13-8

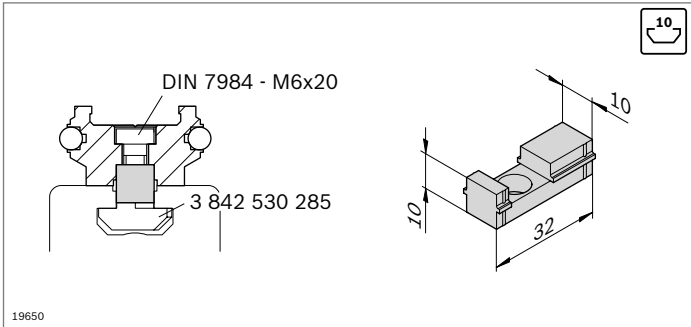
1) L₃ = 2xL₂ - L₁ + 360

2) For identification see page 13-8

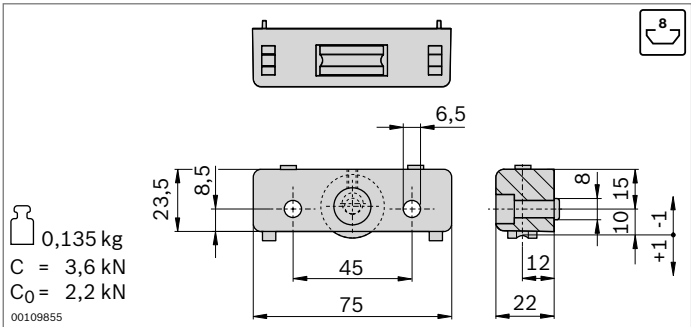




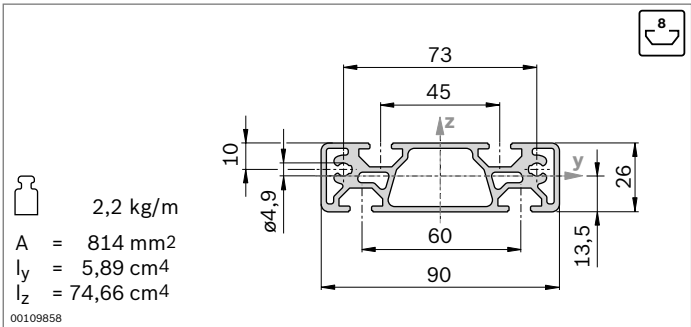
- ▶ Guide profile LF6S with integrated guide rods
 - ▶ Installation on MGE strut profiles with 10 mm slot or directly on a flat surface
- | Guide profile | L ₂ (mm) | No. |
|---------------|---------------------|--------------------------------|
| LF6S | 1 pc 150 ... 3000 | 3 842 993 966 / L ₂ |
| | 10 pcs | 3000 3 842 539 412 |
- Material: Guide profile: aluminum, anodized
Guide rod: Solid shaft VA, induction hardened, polished
- Condition on delivery: Ungreased guide rods; greasing according to assembly instructions **3 842 527 226**
- Accessories, required: Cylinder bolt DIN 7984 – M6x20
T-nut M6, 10 mm slot **3 842 530 285** (p. 3-4)



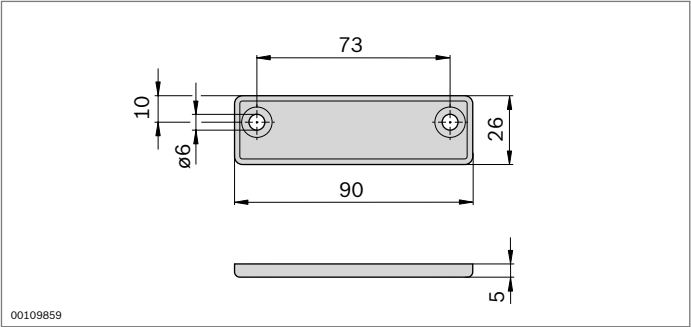
- ▶ Sliding block as a centering aid for mounting the guide profile in a 10 mm profile slot
- | Sliding block | No. |
|---------------|------------------|
| | 50 3 842 146 877 |
- Material: PA; black



- ▶ Guide bearing for trolley construction
 - ▶ Guiding via guide rod
 - ▶ Rollers with ball bearings, permanently lubricated
 - ▶ Lubricating felts with guide rod lubrication reservoir
 - ▶ Play-free roller adjustment via eccentric bolts
- | Guide bearing | No. | FS |
|---------------|-----------------|-------|
| LF6 | 2 3 842 535 662 | 2xFS1 |
- Material: Housing: diecast aluminum
Roller: steel, hardened, polished
- Scope of delivery: Incl. fastening material (FS)
- Condition on delivery: Lubricating felts ungreased; greasing according to assembly instructions **3 842 527 226**



- ▶ Trolley profile for the construction of trolley LF6S
- | Trolley profile | L ₁ (mm) | No. |
|-----------------|---------------------|--------------------------------|
| LF6S | 150 ... 3000 | 3 842 993 061 / L ₁ |
- Material: Aluminum, anodized

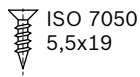


- ▶ Cover cap for trolley profile LF6S
- ▶ For use on trolleys which are not driven by a toothed belt

Cover cap		No.	FS
LF6S	2	3 842 535 645	2xFS2

Material: PA; black

FS2

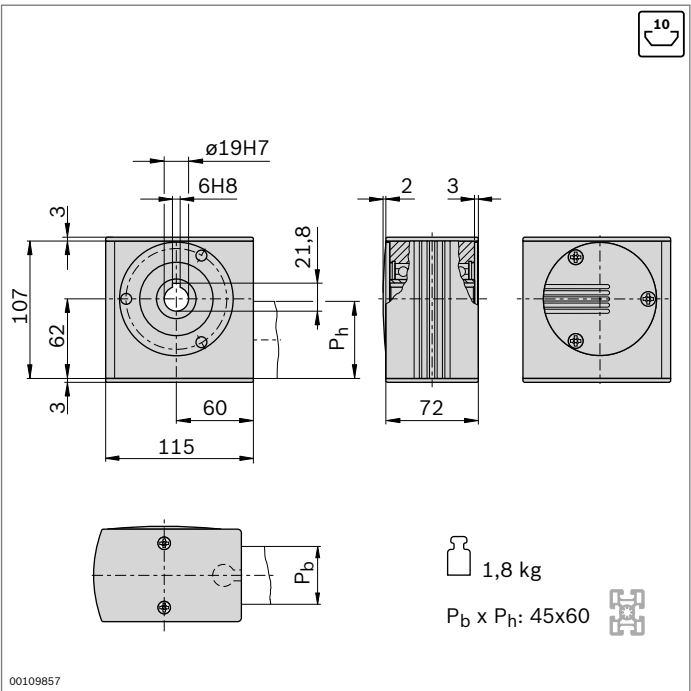


- ▶ Drive head for transferring drive torque to a toothed belt
- ▶ For direct mounting of a motor or (in conjunction with a center shaft) for mounting a hollow shaft gear or a coupling (p. 13-46)
- ▶ Mounted with end connector directly on profile 45x60
- ▶ Profile machining: LF blind hole drilling for longitudinal end connector

Drive head	No.	FS
LF6S	3 842 526 410	2xFS3, FS4

Material: Aluminum, anodized
Hollow shaft: steel; galvanized
Cover caps: PA; black

Scope of delivery: Incl. fastening material (FS), cover caps



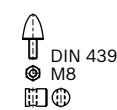
1,8 kg

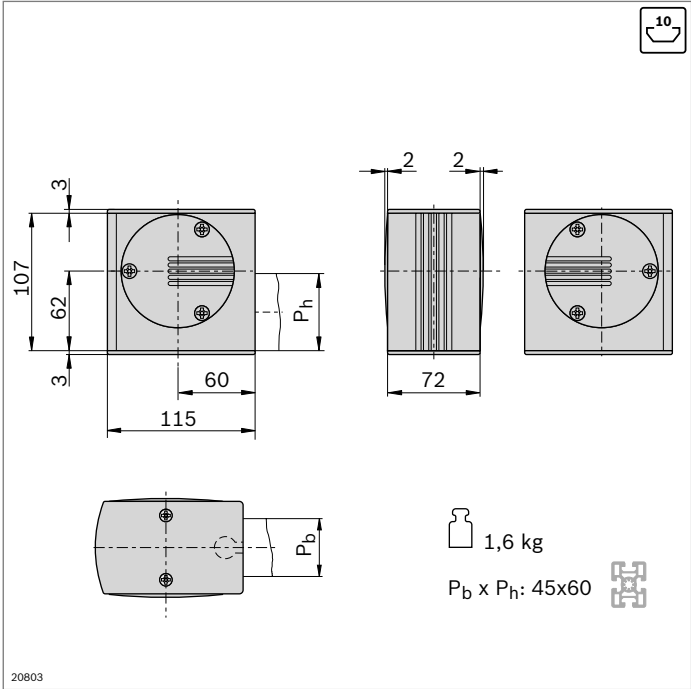
P_b x P_h: 45x60

FS3



FS4



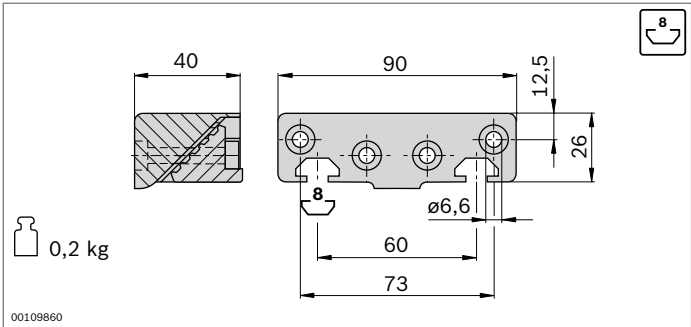
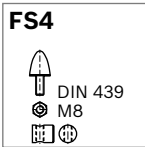
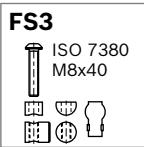


- Return head for tensioning the toothed belt and changing its direction
- Mounted directly on profile using longitudinal end connector
- Profile machining: LF blind hole drilling for longitudinal end connector

Return head	No.	FS
LF6S	3 842 526 411	2xFS3, FS4

Material: Aluminum, anodized
Hollow shaft: steel; galvanized
Cover caps: PA; black

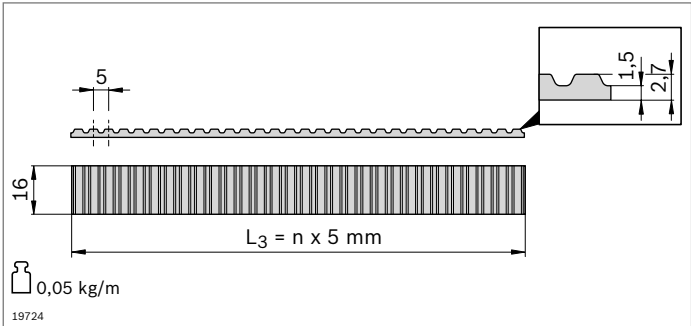
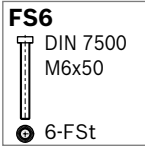
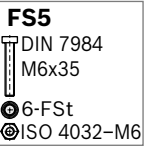
Scope of delivery: Incl. fastening material (FS), cover caps



- Belt connector for fixing the toothed belt on the front of the trolley
- All connecting parts for mounting on the trolley profile LF6S are included

Belt connector	No.	FS
LF6S	2 3 842 535 682	2xFS5, 2xFS6

Material: Aluminum, painted black
Scope of delivery: Incl. fastening material (FS)

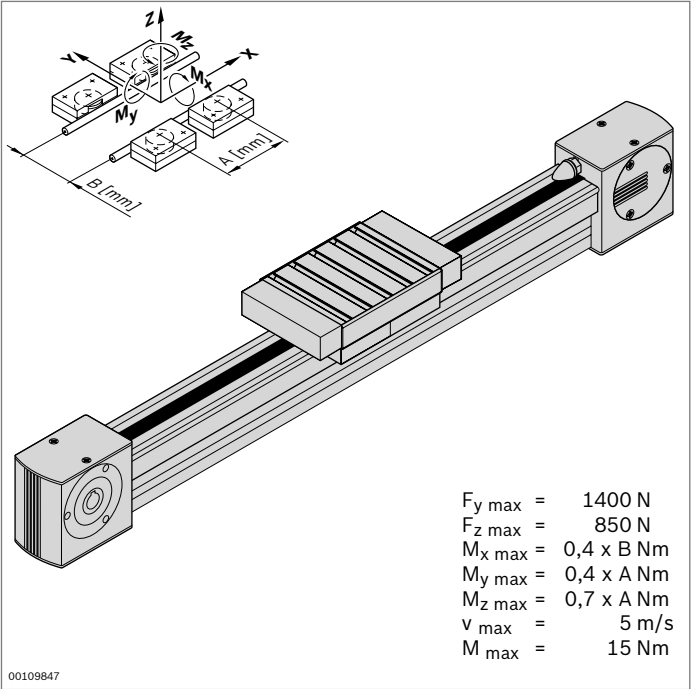


- Toothed belt as a trolley drive
- Pitch: AT5

Toothed belt	L ₃ (mm)	No.
LF6S	300 ... 50000	3 842 994 659 / L ₃ ¹⁾
	50000	3 842 513 646

¹⁾ L₃ = 2xL₂ - L₁ + 360

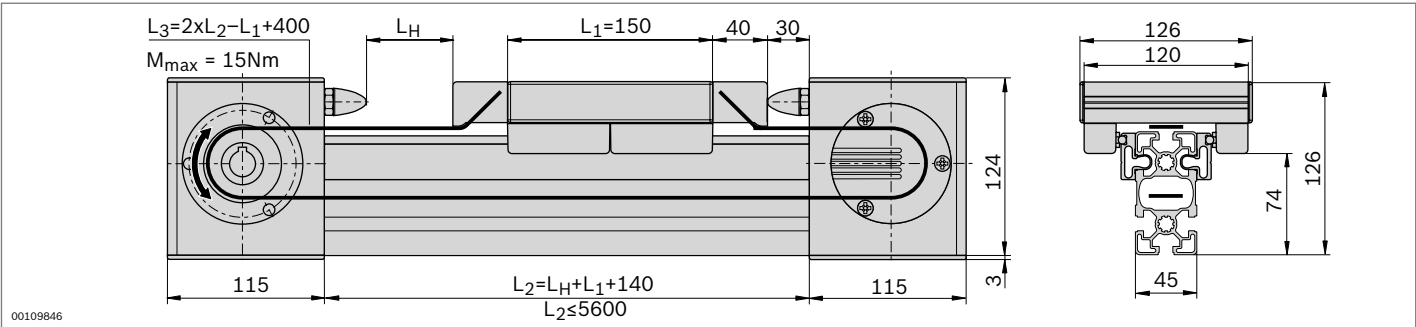
Material: PU with embedded steel wires



Cam roller guide LF6C – complete axis



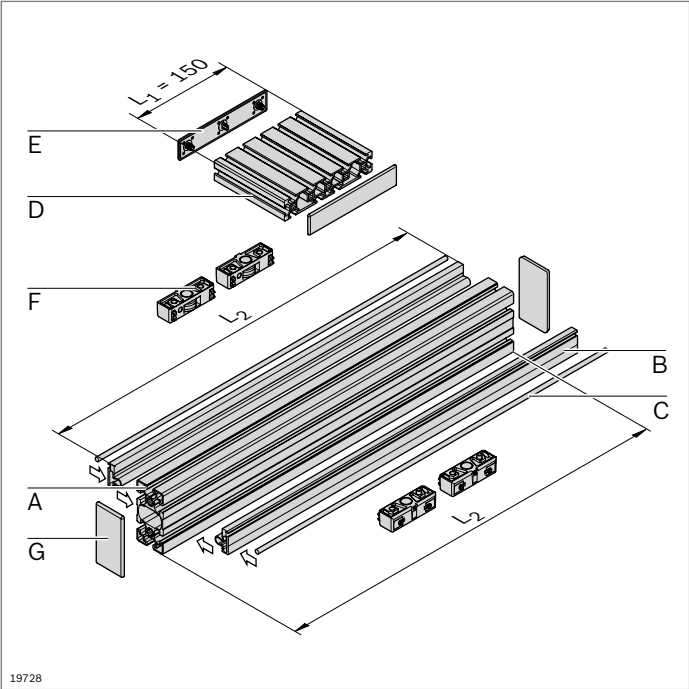
- ▶ Fully assembled cam roller guide
- ▶ Stroke can be individually selected
- ▶ Clamping profile clipped into strut profile 45x90L
- ▶ Incl. toothed belt drive; additional notes on the drive concept (p. 13-44)



Technical data

See pages 13-50 for notes on layout and drive

Complete axis	L_H (mm)	No.
LF6C	50 ... 5310	3 842 998 496 / L_H

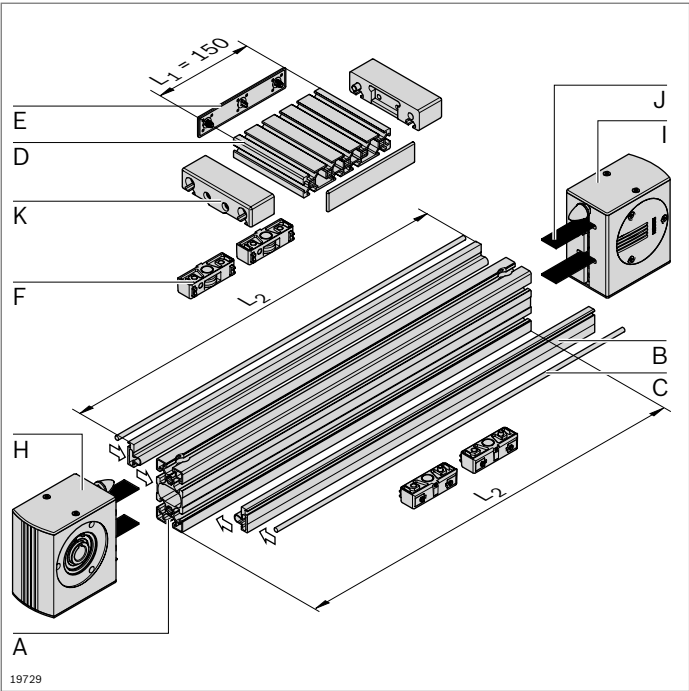


Cam roller guide LF6C – components

- Components for the individual assembly of cam roller guides, with or without drive

Parts list for cam roller guide LF6C without drive

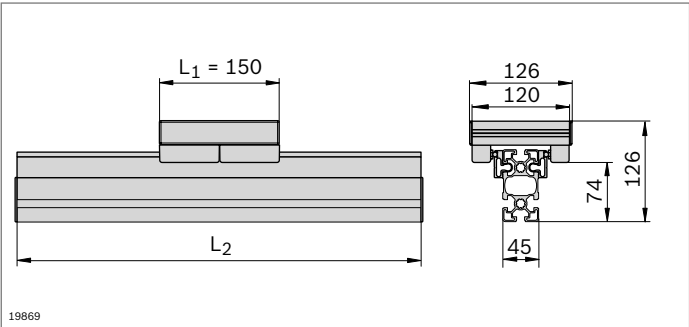
Component	No.	Qty.	Page
A Profile 45x90L	3 842 992 432 / L ₂	1	2-40
B Clamping profile LF6C	3 842 992 925 / L ₂	2	13-13
C Guide rod LF6	3 842 993 967 / L ₂	2	13-13
D Trolley profile LF6C	3 842 993 952 / 120 mm	1	13-13
E Cover cap LF6C	3 842 539 120	2	13-14
F Guide bearing LF6	3 842 535 662	4	13-13
G Cover cap 45x90	3 842 548 757	2	2-40

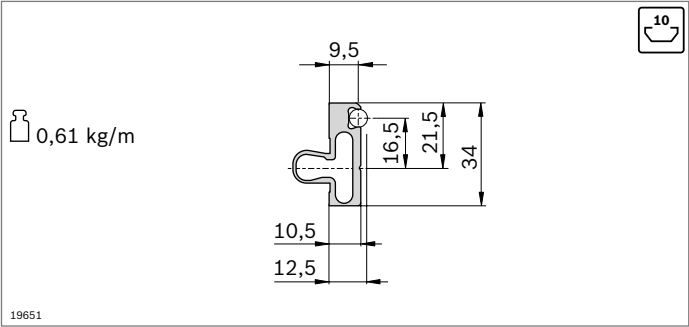


Parts list for cam roller guide LF6C with drive

Component	No.	Qty.	Page
A Profile 45x90L LF6C	3 842 993 084 / L ₂	1	2-40
B Clamping profile LF6C	3 842 992 925 / L ₂	2	13-13
C Guide rod LF	3 842 993 967 / L ₂	2	13-13
D Trolley profile LF6C	3 842 993 952 / 120 mm	1	13-13
E Cover cap LF6C	3 842 539 120	2	13-14
F Guide bearing LF6	3 842 535 662	4	13-13
H Drive head LF6C	3 842 526 416	1	13-14
I Return head LF6C	3 842 526 417	1	13-15
J Toothed belt LF6C	3 842 994 711 / L ₃ ¹⁾	1	13-15
K Belt connector LF6C	3 842 535 681	2	13-15

¹⁾ L₃ = 2xL₂ - L₁ + 400

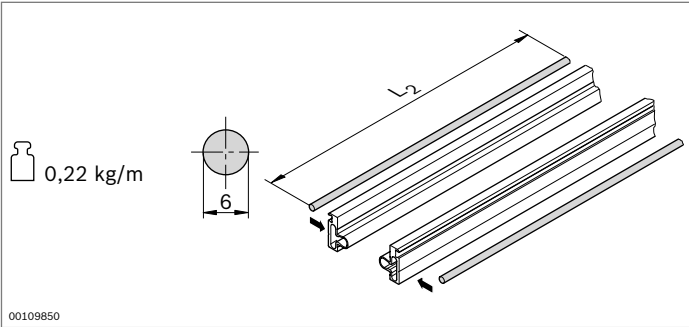




- The clamping profile is clipped into any 10 mm slot of the strut profile and it holds the guide rods

Clamping profile	L ₂ (mm)	No.
LF6C	1 pc 150 ... 3000	3 842 992 925 / L₂
	20 pcs 3000	3 842 518 896

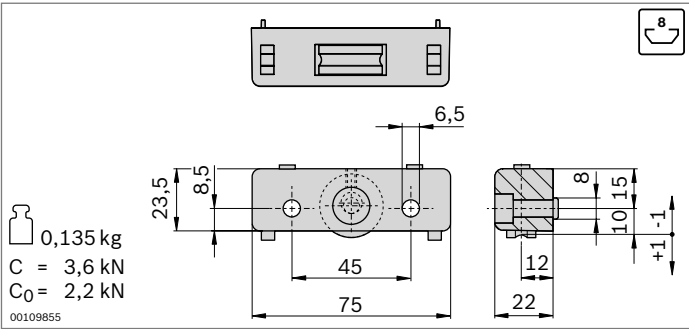
Material: Aluminum, anodized



- The guide rod is pressed into the clamping profile
- The guide rod guides the guide bearing

Guide rod	L ₂ (mm)	No.
LF6	150 ... 3000	1 3 842 993 967 / L₂
	3000	20 3 842 539 414

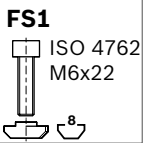
Material: Solid shaft VA, induction hardened, polished
Condition on delivery: Ungreased; greasing according to assembly instructions **3 842 527 226**



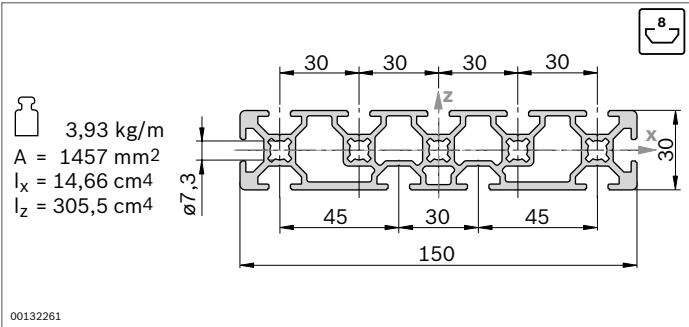
- Guide bearing for trolley construction
- Guiding via guide rod
- Rollers with ball bearings, permanently lubricated
- Lubricating felts with guide rod lubrication reservoir
- Play-free roller adjustment via eccentric bolts

Guide bearing	No.	FS
LF6	2 3 842 535 662	2xFS1

Material: Housing: die-cast aluminum
Roller: steel, hardened, polished
Scope of delivery: Incl. fastening material (FS)
Condition on delivery: Lubricating felts ungreased; greasing according to assembly instructions **3 842 527 226**

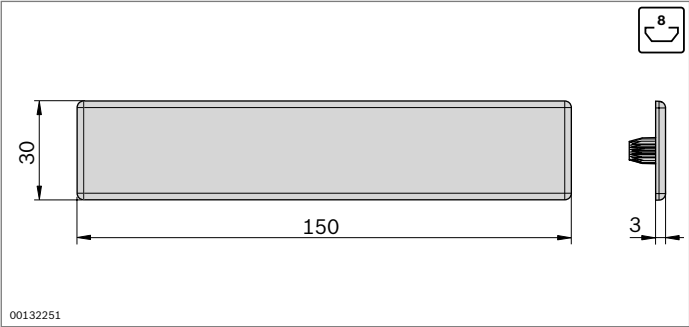


- Trolley profile for the construction of trolley LF6C



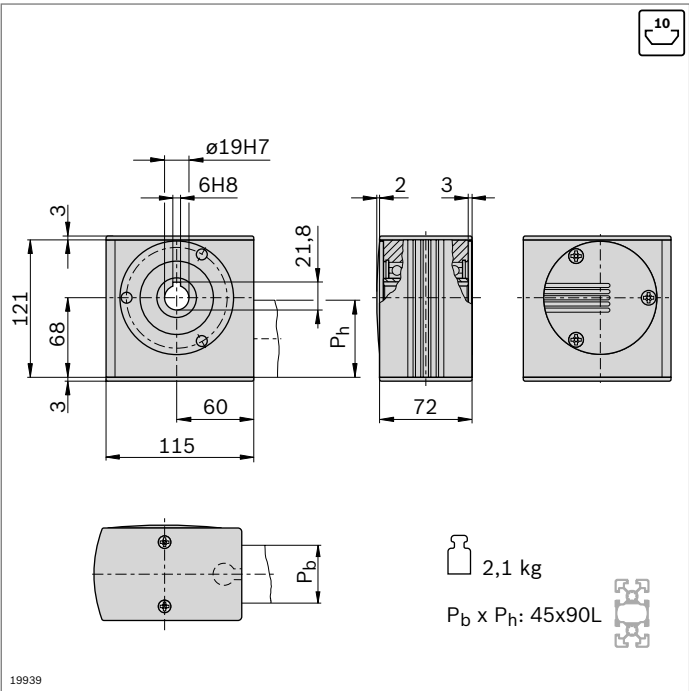
Trolley profile	L (mm)	No.
LF6C	150 ... 3000	3 842 993 952 / L

Material: Aluminum, anodized



- ▶ Cover cap for trolley profile LF6C
- ▶ For use on trolleys which are not driven by a toothed belt

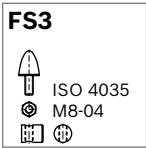
Cover cap		No.
LF6C	2	3 842 539 120
Material: PA, black		

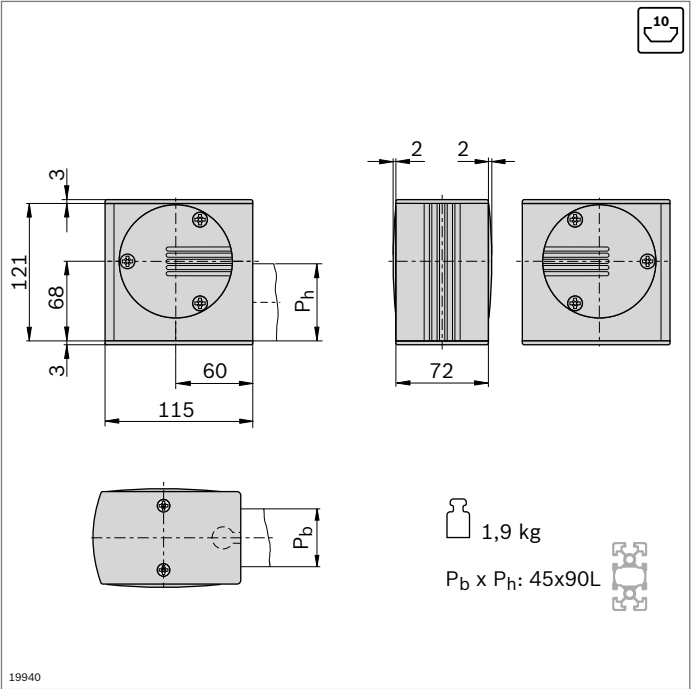


- ▶ Drive head for transferring drive torque to a toothed belt
- ▶ For direct mounting of a motor or (in conjunction with a center shaft) for mounting a hollow shaft gear or a coupling (p. 13-46)
- ▶ Mounted directly on profile 45x90L using longitudinal end connector
- ▶ Profile machining: LF blind hole drilling for longitudinal end connector

Drive head	No.	FS
LF6C	3 842 526 416	2xFS2, FS3

Material: Aluminum, anodized
Hollow shaft: steel; galvanized
Cover caps: PA, black
Scope of delivery: Incl. fastening material (FS), cover caps



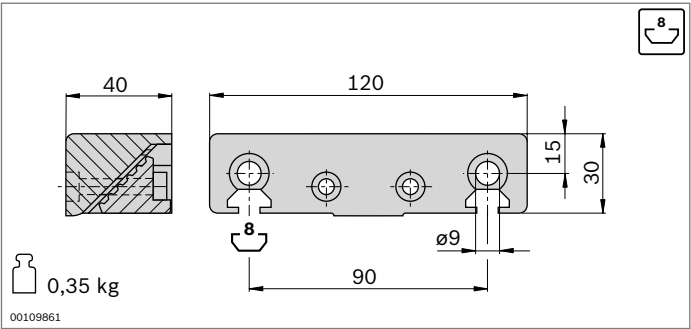


- ▶ Return head for tensioning the toothed belt and changing its direction
- ▶ Mounted directly on profile 45x90L using longitudinal end connector
- ▶ Profile machining: LF blind hole drilling for longitudinal end connector

Return head	No.	FS
LF6C	3 842 526 417	2xFS2, FS3

Material: Aluminum, anodized
Hollow shaft: steel; galvanized
Cover caps: PA, black

Scope of delivery: Incl. fastening material (FS), cover caps

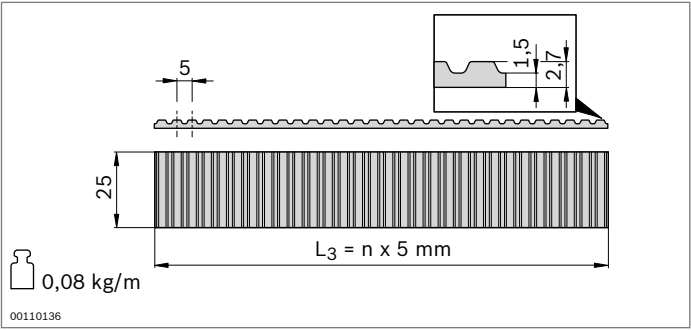
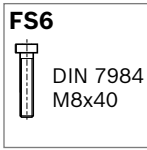
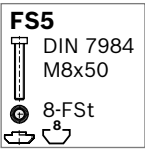


- ▶ Belt connector for fastening the toothed belt to the trolley slot
- ▶ All connecting parts for mounting on the trolley profile LF6C are included

Belt connector	No.	FS
LF6C	2 3 842 535 681	2xFS4, 2xFS5, 2xFS6

Material: Aluminum, painted black

Scope of delivery: Incl. fastening material (FS)

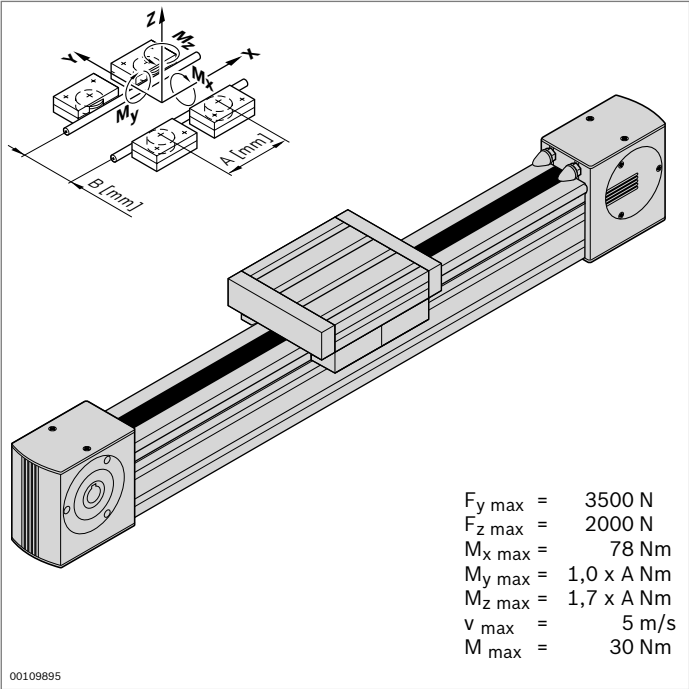


- ▶ Toothed belt as a trolley drive
- ▶ Pitch: AT5

Toothed belt	L ₃ (mm)	No.
LF6C	300 ... 50000	3 842 994 711 / L ₃ ¹⁾
	50000	3 842 518 856

¹⁾ L₃ = 2xL₂ - L₁ + 400

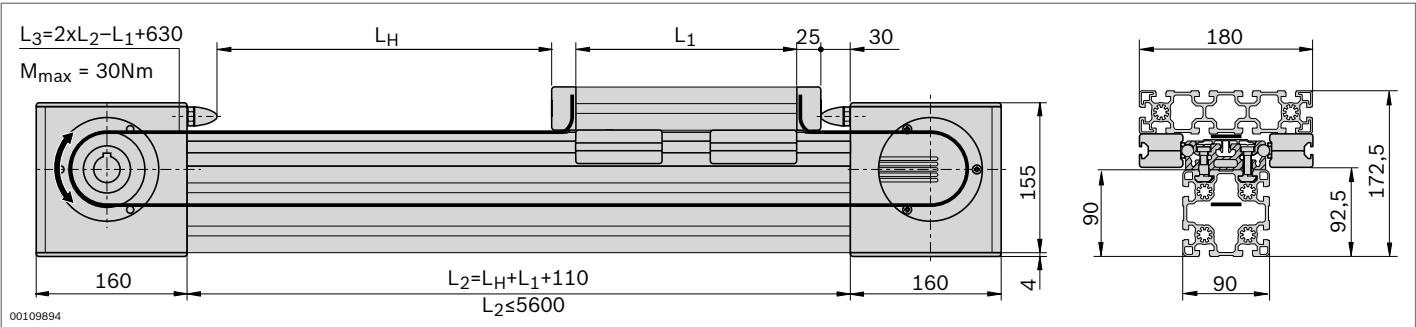
Material: PU with embedded steel wires



Cam roller guide LF12S – complete axis



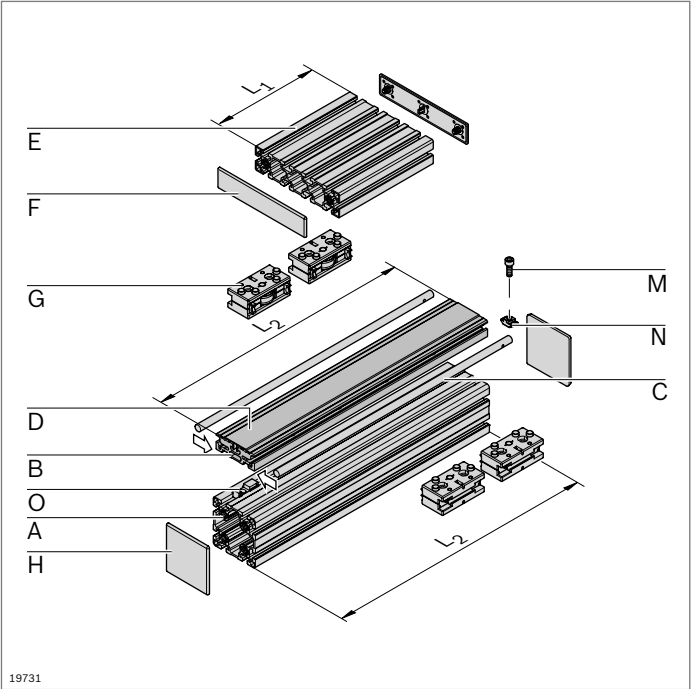
- Fully assembled cam roller guide
- Stroke and trolley length can be individually selected
- Rail profile screwed onto strut profile 90x90L
- Incl. toothed belt drive; additional notes on the drive concept (p. 13-44)



Technical data

See pages 13-57 for notes on layout and drive

Complete axis	L_H / L_1 (mm)	No.
LF12S	$L_1 + 50 \leq L_H \leq 5310$ $180 \leq L_1 \leq 1000$	3 842 998 497 / L_H / L_1



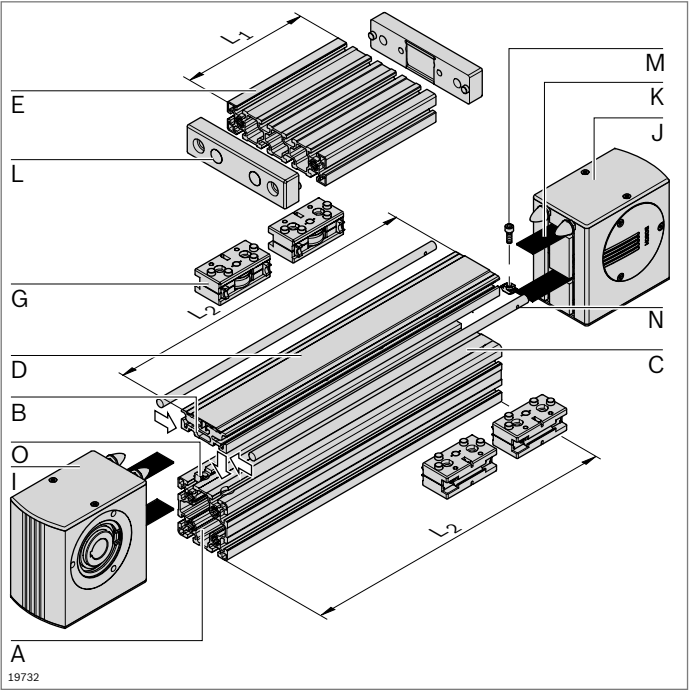
Cam roller guide LF12S – components

► Components for the individual assembly of cam roller guides, with or without drive

Parts list for cam roller guide LF12S without drive

Component	No.	Qty.	Page
A Profile 90x90L	3 842 992 415 / L ₂	1	2-43
B Guide profile LF12S	3 842 992 438 / L ₂	1	13-18
C Guide rod LF12	3 842 993 968 / L ₂	2	13-18
D Cover profile LF12S	3 842 993 062 / L ₂	1	13-18
E Profile 45x180	3 842 990 335 / L ₁	1	2-41
F Cover cap 45x180	3 842 548 795	2	2-41
G Guide bearing LF12	3 842 535 664	4	13-19
H Cover cap 90x90L	3 842 548 759	2	2-43
M Cylinder bolt DIN 7984 – M8x30		n ¹⁾	
N T-nut M8, 10 mm slot	3 842 530 287	n ¹⁾	3-4
O Sliding block	3 842 146 877	n ¹⁾	13-18

1) For identification see page 13-18

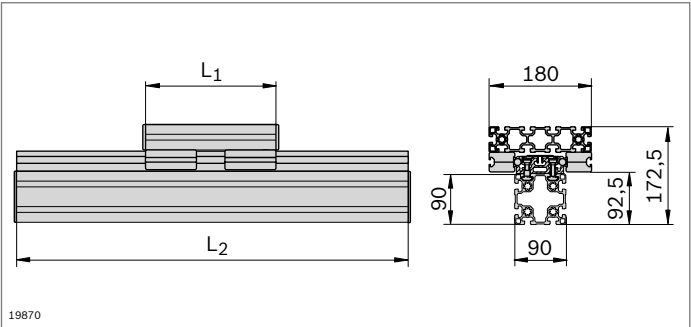


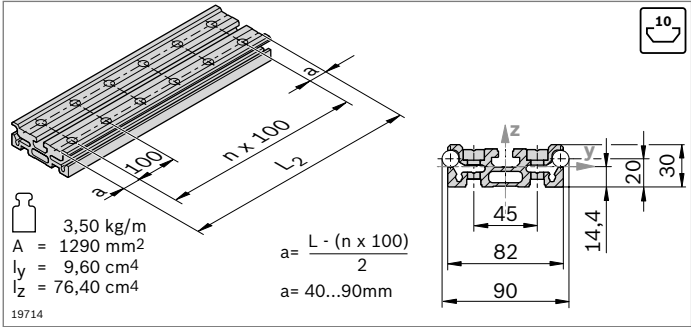
Parts list for cam roller guide LF12S with drive

Component	No.	Qty.	Page
A Profile 90x90L LF12S	3 842 992 418 / L ₂	1	2-43
B Guide profile LF12S	3 842 992 438 / L ₂	1	13-18
C Guide rod LF12	3 842 993 968 / L ₂	2	13-18
D Cover profile LF12S	3 842 993 062 / L ₂	1	13-18
E Profile 45x180 M12	3 842 990 339 / L ₁	1	2-41
G Guide bearing LF12	3 842 535 664	4	13-19
I Drive head LF12S	3 842 526 412	1	13-21
J Return head LF12S	3 842 526 413	1	13-21
K Toothed belt	3 842 994 821 / L ₃ ¹⁾	1	13-22
L Belt connector	3 842 535 680	2	13-22
M Cylinder bolt DIN 7984 – M8x30		n ²⁾	
N T-nut M8, 10 mm slot	3 842 530 287	n ²⁾	3-4
O Sliding block	3 842 146 877	n ²⁾	13-18

1) L₃ = 2xL₂ - L₁ + 630

2) For identification see page 13-18



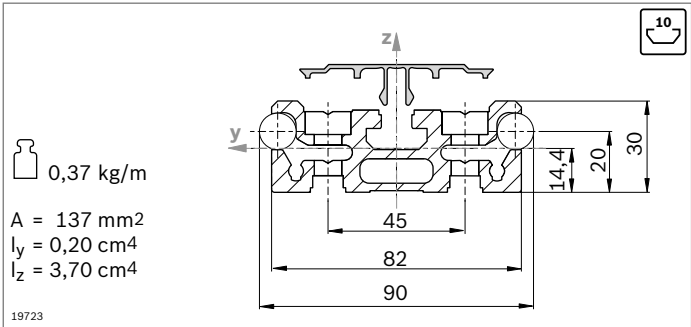


- ▶ Guide profile LF12S to hold the guide rods
- ▶ Installation on MGE strut profiles with 10 mm slot or directly on a flat surface

Guide profile	L_2 (mm)		No.
LF12S	1 pc	150 ... 5600	3 842 992 438 / L_2
	5 pcs	5600	3 842 511 841

Material: Aluminum, anodized

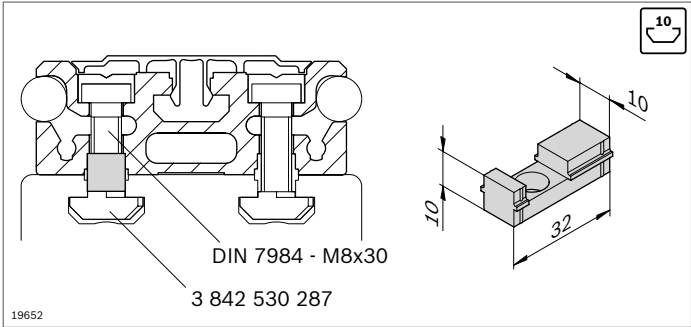
Accessories: Cylinder bolt DIN 7984 – M8x30
T-nut M8, 10 mm slot, **3 842 530 287**
Sliding block, cover profile, guide rod



- ▶ Cover profile to prevent contamination on threaded connections

Cover profile	L_2 (mm)		No.
LF12S	150 ... 5600		3 842 993 062 / L_2

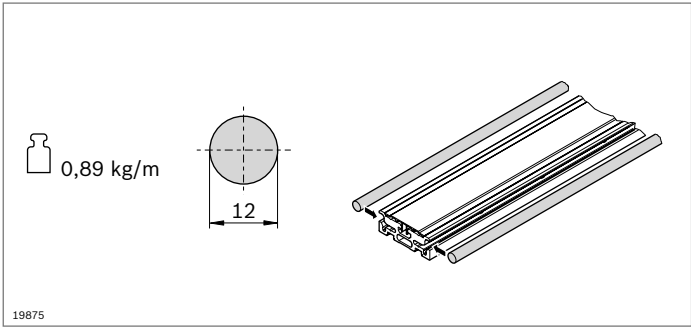
Material: PA, black



- ▶ Sliding block as a centering aid for mounting the guide profile in a 10 mm profile slot

Sliding block	L_2 (mm)		No.
	50		3 842 146 877

Material: PA, black

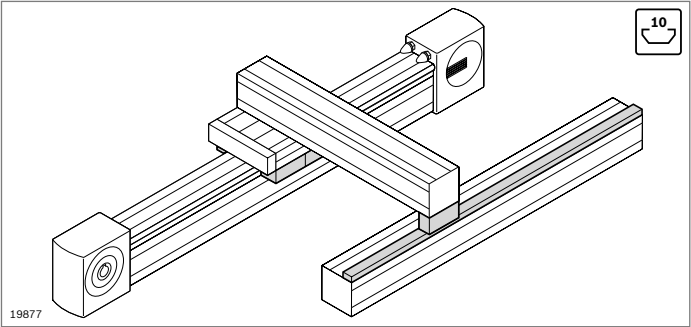


- ▶ The guide rod is pressed into the guide profile
- ▶ The guide rod guides the guide bearing

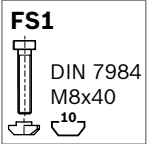
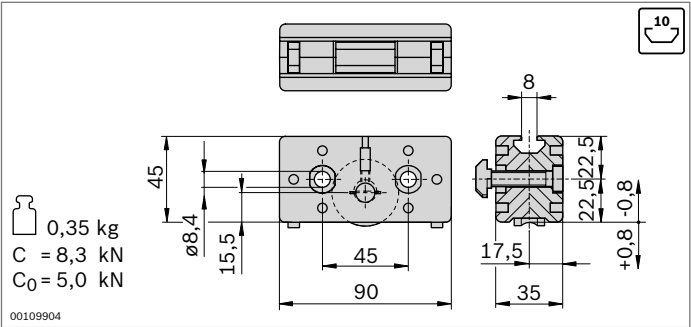
Guide rod	L_2 (mm)		No.
LF12	150 ... 2900	1	3 842 993 968 / L_2
	2900	20	3 842 539 415

Material: Solid shaft VA, induction hardened and polished

Condition on delivery: Ungreased; greasing according to assembly instructions **3 842 527 226**

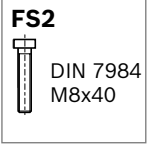
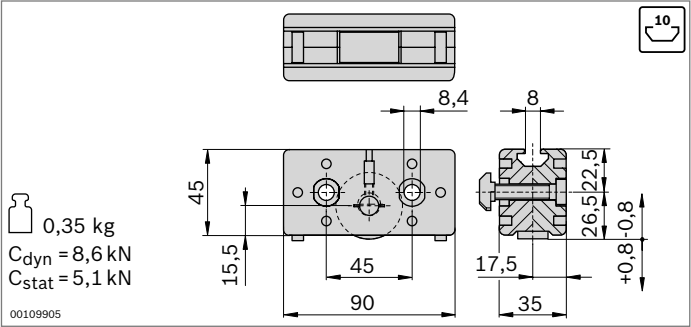


- ▶ Guide bearing for trolley construction
- ▶ Supporting bearing for brackets to withstand off-center forces
- ▶ Guide rail to support supporting bearings (p. 13-20)



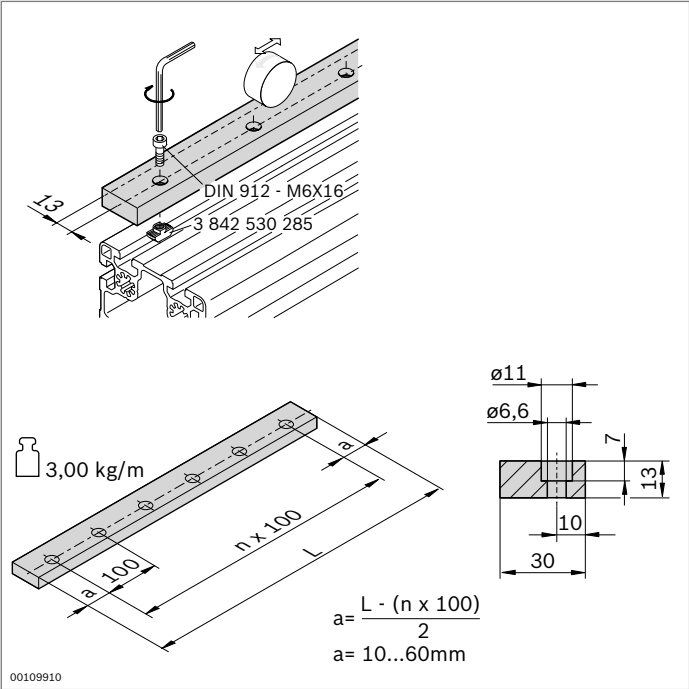
- ▶ Guide bearing for trolley construction
- ▶ Guiding via guide rod
- ▶ Rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free roller adjustment via eccentric bolts
- ▶ Replacement of the lubricating felts possible from rear in installed state

Guide bearing	No.	FS
LF12	2 3 842 535 664	2xFS1
Material:	Housing: die-cast aluminum Roller: steel, hardened, polished	
Scope of delivery:	Incl. fastening material (FS)	
Condition on delivery:	Lubricating felts ungreased; greasing according to assembly instructions 3 842 527 226	



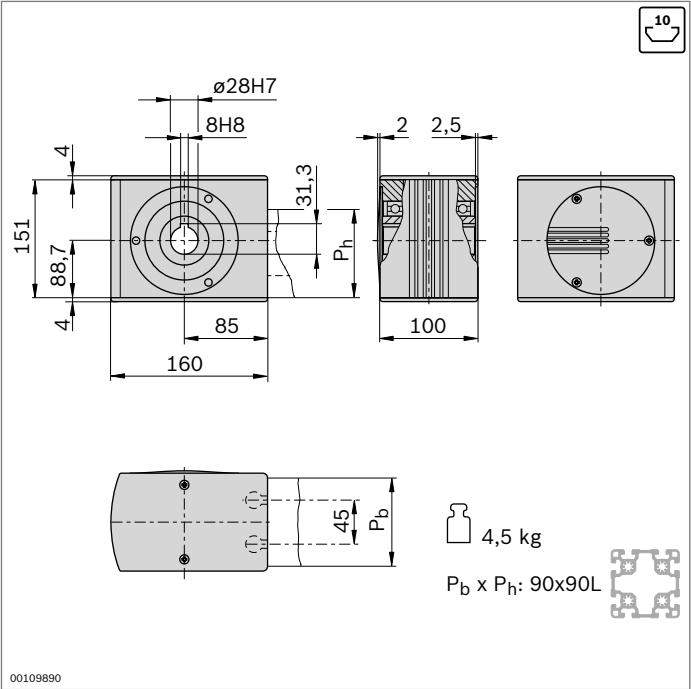
- ▶ Supporting bearing for brackets for bearing off-center forces
- ▶ For support on the guide rail
- ▶ Rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free roller adjustment via eccentric bolts
- ▶ Replacement of the lubricating felts possible from rear in installed state

Supporting bearing	No.	FS
LF12	2 3 842 535 666	2xFS2
Material:	Housing: die-cast aluminum Roller: steel, hardened, polished	
Scope of delivery:	Incl. fastening material (FS)	
Condition on delivery:	Lubricating felts ungreased; greasing according to assembly instructions 3 842 527 226	



► Guide rail to hold supporting bearings

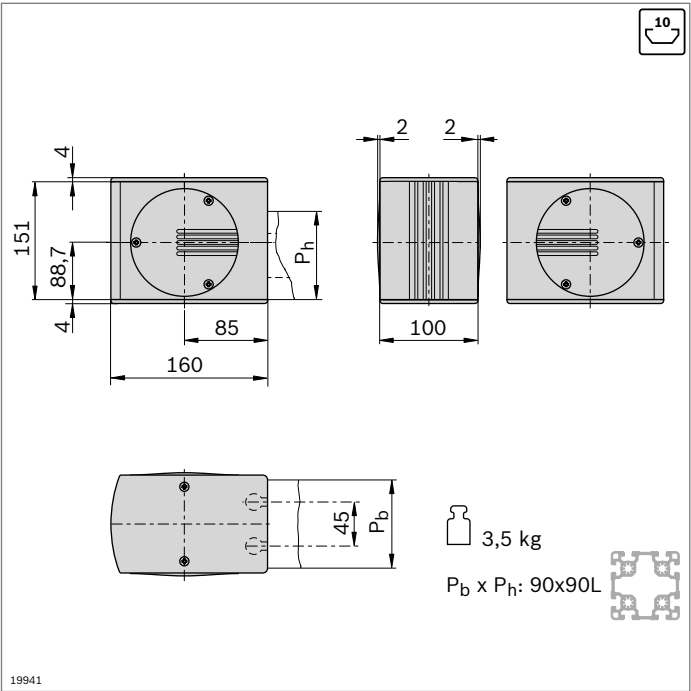
Guide rail	L (mm)	No.
LF12	120 ... 2000	3 842 994 702/L
Material:	Steel, hardened, polished	
Condition on delivery:	Ungreased; greasing according to assembly instructions 3 842 527 226	
Accessories:	Cylinder bolt DIN 912 – M6x16 T-nut M6, 10 mm slot (3 842 530 285)	



- Drive head for transferring drive torque to a toothed belt
- For direct mounting of a motor or (in conjunction with a center shaft) for mounting a hollow shaft gear or a coupling (p. 13-46)
- Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- Profile machining: LF blind hole drilling for longitudinal end connector

Drive head	No.	FS
LF12S	3 842 526 412	2xFS3, 2xFS4

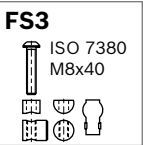
Material: Drive head aluminum, anodized
Cover caps: PA, black
Hollow shaft: steel; galvanized
Scope of delivery: Incl. fastening material (FS), cover caps

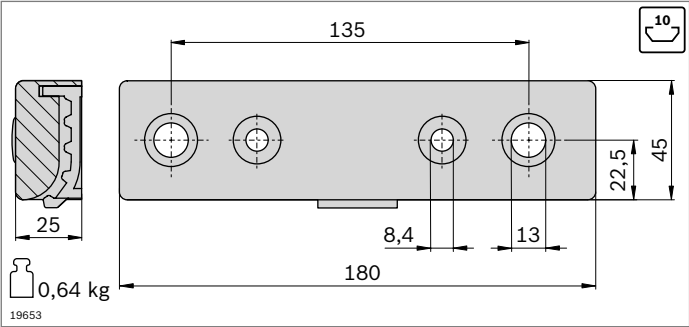


- Return head for tensioning the toothed belt and changing its direction
- Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- Profile machining: LF blind hole drilling for longitudinal end connector

Return head	No.	FS
LF12S	3 842 526 413	2xFS3, 2xFS4

Material: Aluminum, anodized
Hollow shaft: steel; galvanized
Cover caps: PA, black
Scope of delivery: Incl. fastening material (FS), cover caps



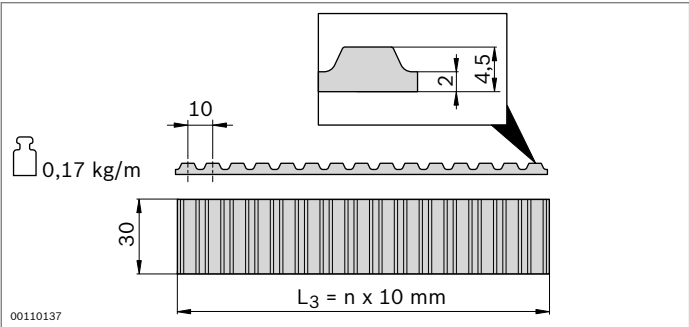


- ▶ Belt connector suitable for trolley built out of strut profiles 45x180
- ▶ All connecting parts included for mounting on the profile end (LF12S) or in the slot (LF12C)
- ▶ Profile finishing for strut profile 45x180 for trolley LF12S: M12

Belt connector	No.	FS
LF12	2	3 842 535 680
		2xFS5, 2xFS6, 2xFS7, 2xFS8, 4xFS9

Material: Aluminum, painted black
Scope of delivery: Incl. fastening material (FS)

FS5  DIN 7984 M12x40	FS6  DIN 7984 M8x30 DIN 125 A8,4 	FS7  DIN 7991 M8x30 	FS8  ø18x7
FS9  ø10xø5x11			

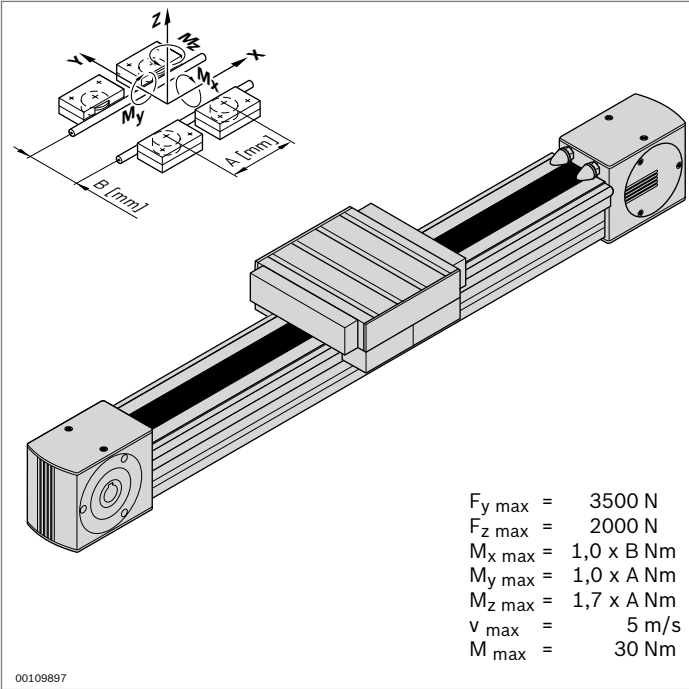


- ▶ Toothed belt as a trolley drive
- ▶ Pitch: AT10

Toothed belt	L_3 (mm)	No.
LF12	300 ... 50000	3 842 994 821 / L_3 ¹⁾
	50000	3 842 526 422

¹⁾ $L_3 = 2 \times L_2 - L_1 + 630$

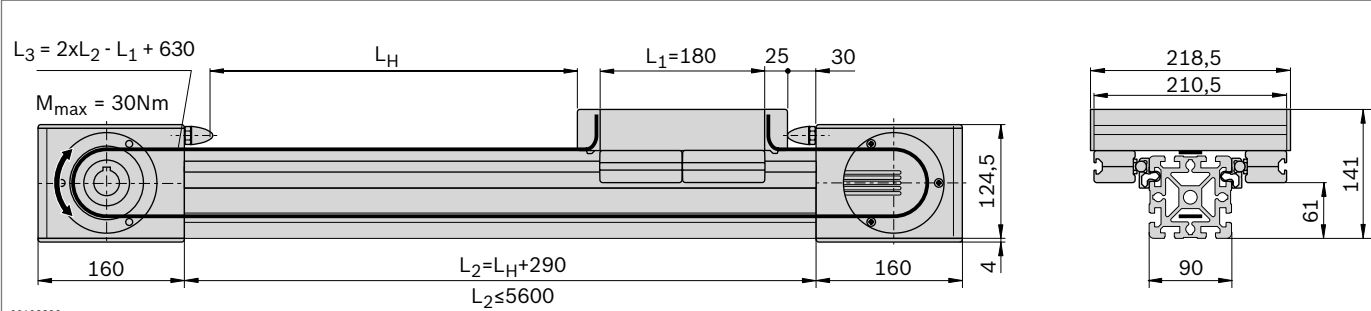
Material: PU with embedded steel wires



Cam roller guide LF12C – complete axis



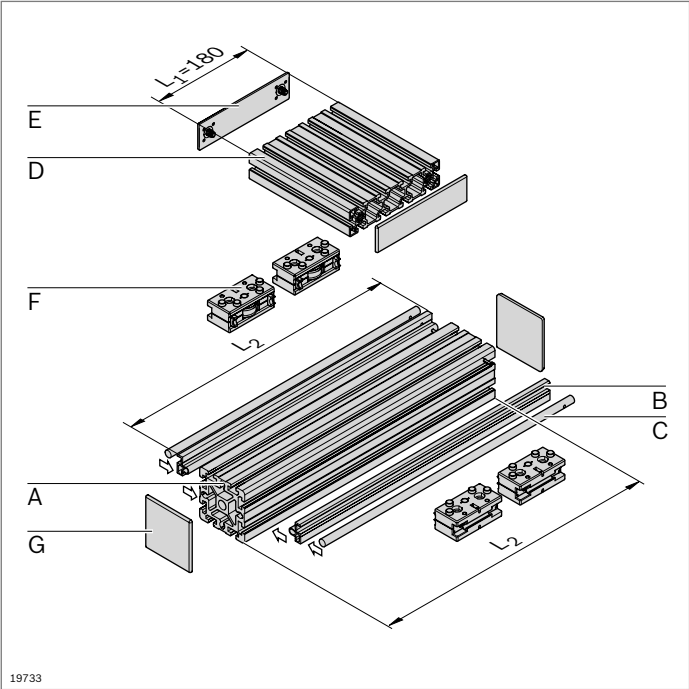
- Fully assembled cam roller guide
- Stroke can be individually selected
- Clamping profile clipped into strut profile 90x90
- Incl. toothed belt drive; additional notes on the drive concept (p. 13-44)



Technical data

See pages 13-50 for notes on layout and drive

Complete axis	L_H (mm)	No.
LF12C	50 ... 5310	3 842 998 498 / L_H

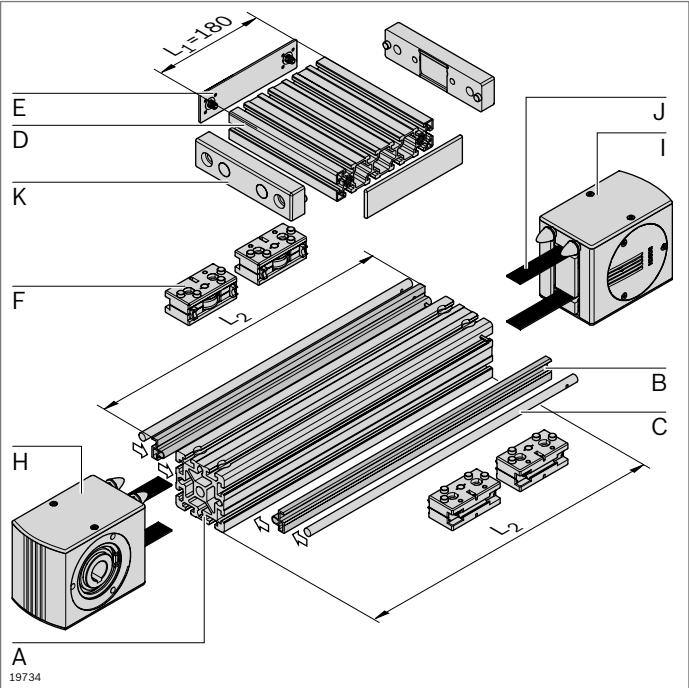


Cam roller guide LF12C – components

► Components for the individual assembly of cam roller guides, with or without drive

Parts list for cam roller guide LF12C without drive

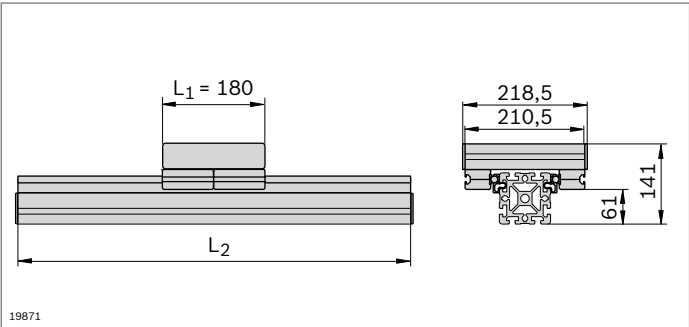
Component	No.	Qty.	Page
A Profile 90x90	3 842 990 500 / L ₂	1	2-44
B Clamping profile LF12C	3 842 992 440 / L ₂	2	13-25
C Guide rod LF12	3 842 993 968 / L ₂	2	13-25
D Profile 45x180	3 842 990 335 / 210.5 mm	1	2-41
E Cover cap 45x180	3 842 548 795	2	2-41
F Guide bearing LF12	3 842 535 664	4	13-26
G Cover cap 90x90	3 842 548 761	2	2-44

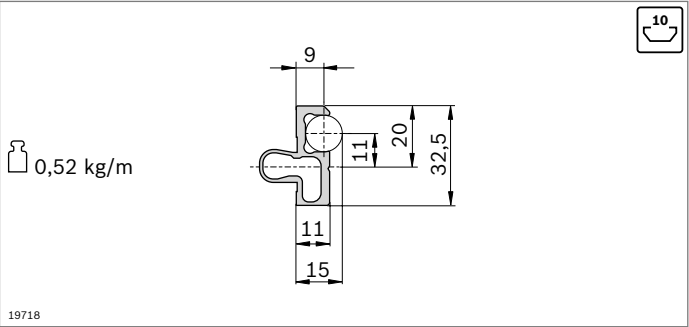


Parts list for cam roller guide LF12C with drive

Component	No.	Qty.	Page
A Profile 90x90 LF	3 842 993 082 / L ₂	1	2-44
B Clamping profile LF12C	3 842 992 440 / L ₂	2	13-25
C Guide rod LF12	3 842 993 968 / L ₂	2	13-25
D Profile 45x180	3 842 990 335 / 210.5 mm	1	2-41
E Cover cap 45x180	3 842 548 795	2	2-41
F Guide bearing LF12	3 842 535 664	4	13-26
H Drive head LF12C	3 842 526 863	1	13-28
I Return head LF12C	3 842 526 865	1	13-28
J Toothed belt LF12	3 842 994 821 / L ₃ ¹⁾	1	13-29
K Belt connector LF12	3 842 535 680	2	13-29

¹⁾ L₃ = 2xL₂ - L₁ + 630

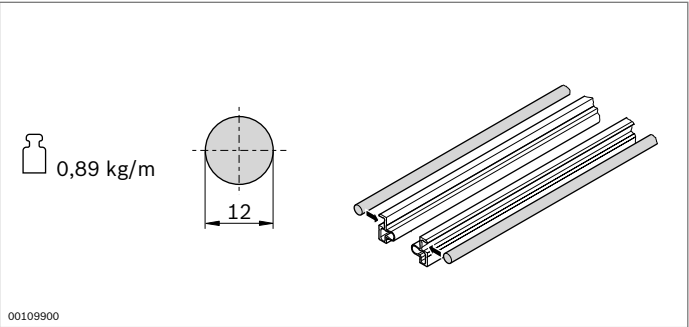




- The clamping profile is clipped into any chosen strut profile with a 10 mm slot and holds the guide rods

Clamping profile		L ₂ (mm)	No.
LF12C	1 pc	150 ... 3000	3 842 992 440 / L₂
	 20 pcs	3000	3 842 518 897

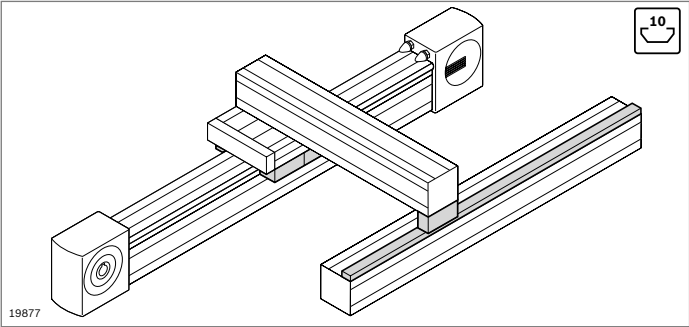
Material: Aluminum, anodized



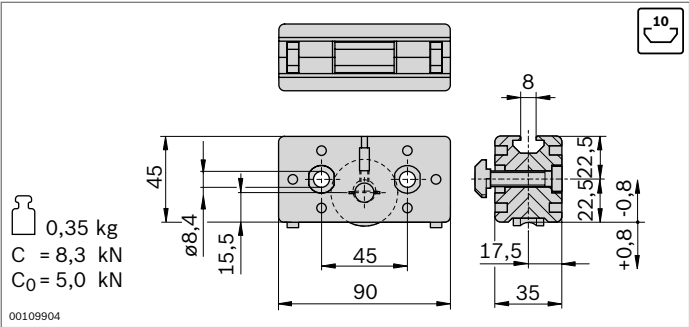
- The guide rod is pressed into the clamping profile
- The guide rod guides the guide bearing

Guide rod	L ₂ (mm)		No.
LF12	150 ... 2900	1	3 842 993 968 / L₂
	2900	20	3 842 539 415

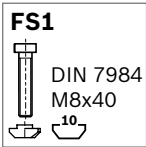
Material: Solid shaft VA, induction hardened and polished
Condition on delivery: Ungreased; greasing according to assembly instructions **3 842 527 226**



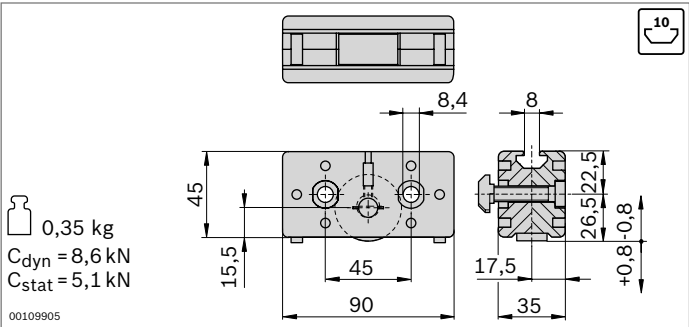
- ▶ Guide bearing for trolley construction
- ▶ Supporting bearing for brackets for bearing off-center forces
- ▶ Guide rail to support supporting bearings (p. 13-27)



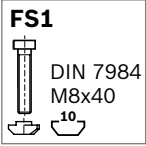
- ▶ Guide bearing for trolley construction
- ▶ Guiding via guide rod
- ▶ Rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free roller adjustment via eccentric bolts
- ▶ Replacement of the lubricating felts possible from rear in installed state



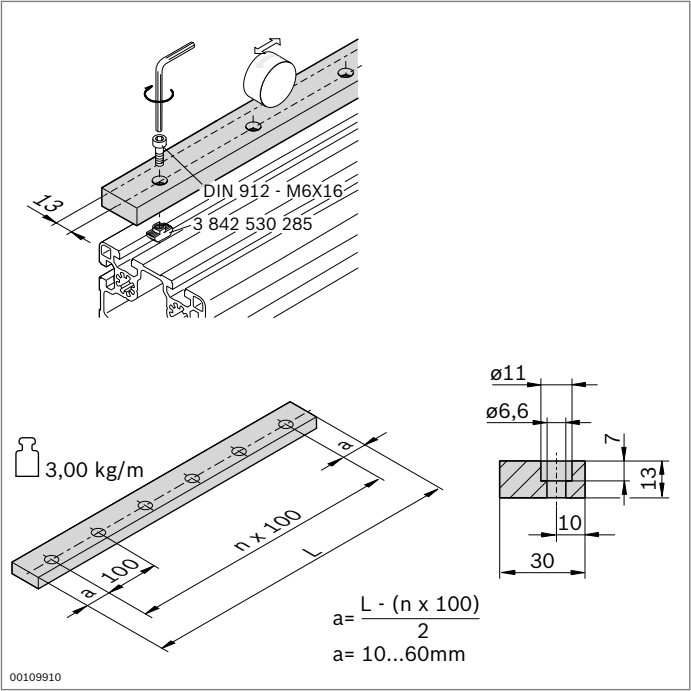
Guide bearing	No.	FS
LF12	2	3 842 535 664 2xFS1
Material:	Guide bearing die-cast aluminum Roller: steel, hardened, polished	
Scope of delivery:	Incl. fastening material (FS)	
Condition on delivery:	Lubricating felts ungreased; greasing according to assembly instructions 3 842 527 226	



- ▶ Supporting bearing for brackets for bearing off-center forces
- ▶ For support on the guide rail
- ▶ Rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free roller adjustment via eccentric bolts
- ▶ Replacement of the lubricating felts possible from rear in installed state

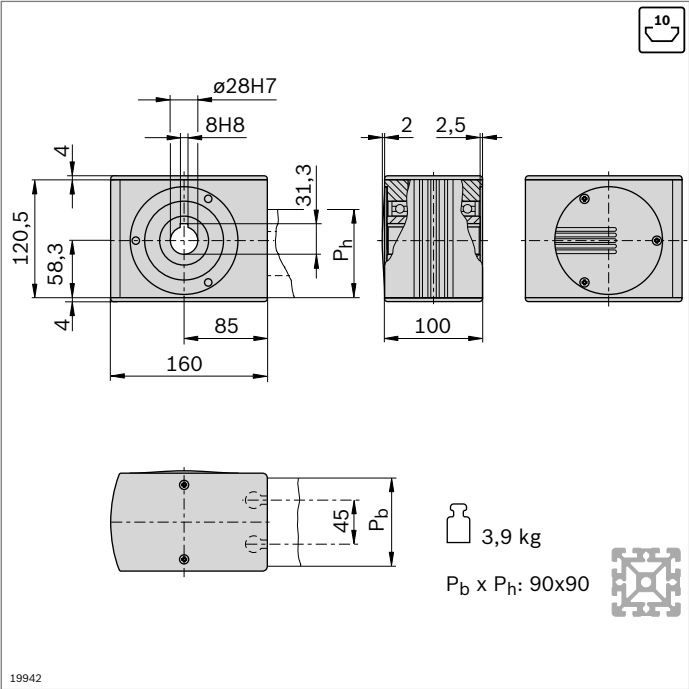


Supporting bearing	No.	FS
LF12	2	3 842 535 666 2xFS1
Material:	Guide bearing die-cast aluminum Roller: steel, hardened, polished	
Scope of delivery:	Incl. fastening material (FS)	
Condition on delivery:	Lubricating felts ungreased; greasing according to assembly instructions 3 842 527 226	



► Guide rail to hold supporting bearings

Guide rail	L (mm)	No.
LF12	120 ... 2000	3 842 994 702 / L
Material:	Steel, hardened, polished	
Condition on delivery:	Ungreased; greasing according to assembly instructions 3 842 527 226	
Accessories:	Cylinder bolt DIN 912 – M6x16 T-nut M6, 10 mm slot (3 842 530 285)	

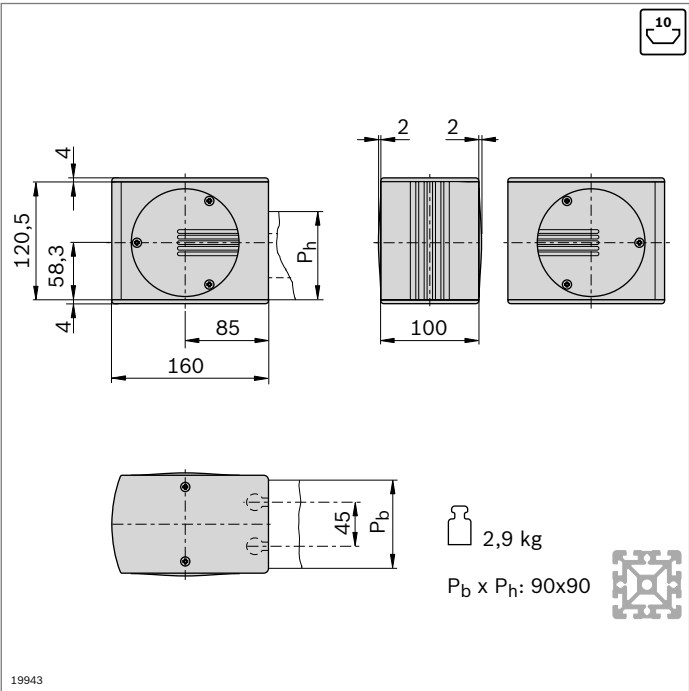
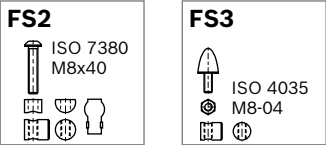


- Drive head for transferring drive torque to a toothed belt
- For direct mounting of a motor or (in conjunction with a center shaft) for mounting a hollow shaft gear or a coupling (p. 13-46)
- Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- Profile machining: LF blind hole drilling for longitudinal end connector

Drive head	No.	FS
LF12C	3 842 526 863	4xFS2, 2xFS3

Material: Drive head aluminum, anodized
Hollow shaft: steel; galvanized
Cover caps: PA, black

Scope of delivery: Incl. fastening material (FS), cover caps

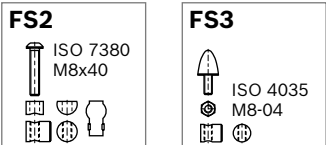


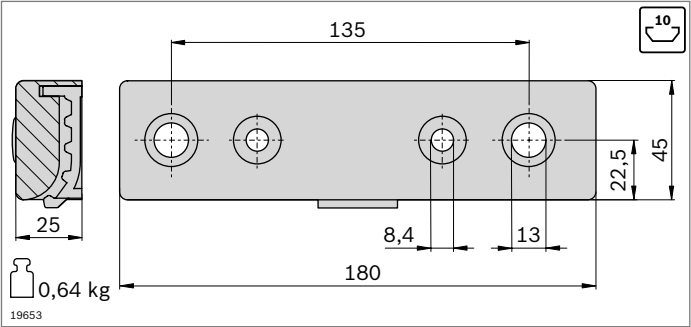
- Return head for tensioning the toothed belt and changing its direction
- Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- Profile machining: LF blind hole drilling for longitudinal end connector

Return head	No.	FS
LF12C	3 842 526 865	4xFS2, 2xFS3

Material: Return head: aluminum, anodized
Hollow shaft: steel; galvanized
Cover caps: PA, black

Scope of delivery: Incl. fastening material (FS), cover caps





- Belt connector suitable for trolley built out of strut profiles 45x180
- All connecting parts included for mounting at the profile end (LF12S) or the slot (LF12C)
- Profile finishing for strut profile 45x180 for trolley LF12S: M12

Belt connector	No.	FS
LF12	2 3 842 535 680	2xFS4, 2xFS5, 2xFS6, 2xFS7, 4xFS8

Material: Aluminum, painted black
Scope of delivery: Incl. fastening material (FS)

FS4

DIN7984
M12x40

FS5

DIN 7984
M8x30
DIN 125
A8,4

FS6

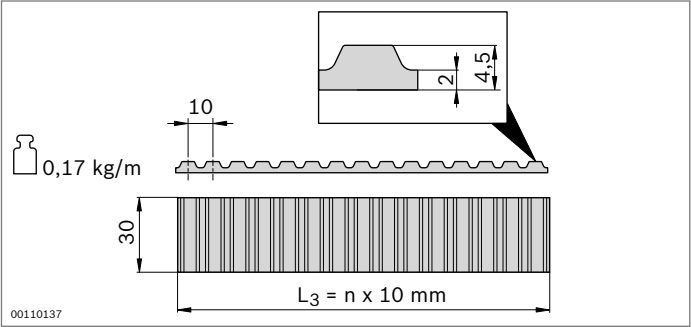
DIN 7991
M8x30

FS7

ø18x7

FS8

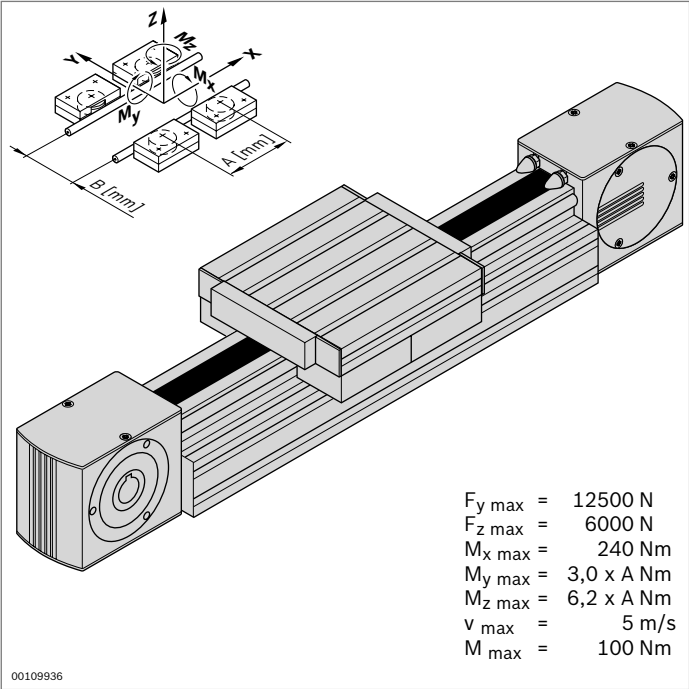
ø10xø5x11



- Toothed belt as a trolley drive
- Pitch: AT10

Toothed belt	L ₃ (mm)	No.
LF12	300 ... 50000	3 842 994 821 / L ₃ ¹⁾
	50000	3 842 526 422

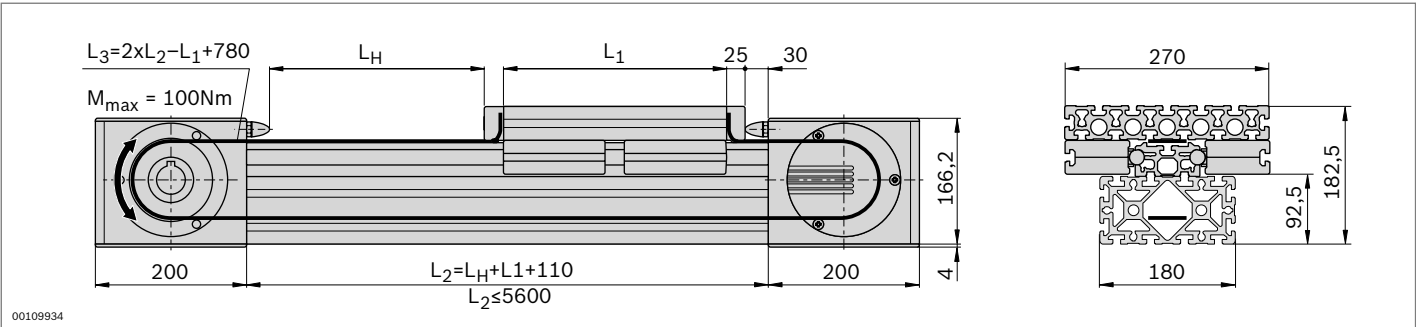
¹⁾ L₃ = 2xL₂ - L₁ + 630
Material: PU with embedded steel wires



Cam roller guide LF20S – complete axis



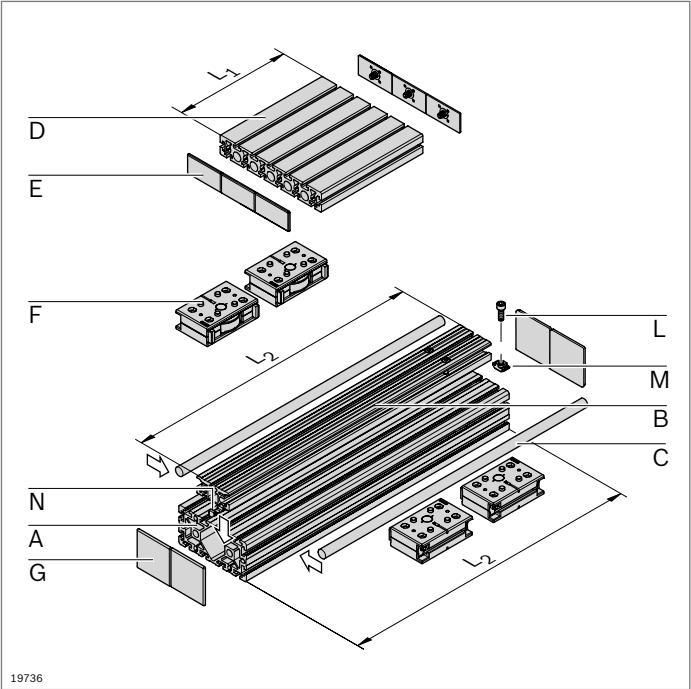
- Fully assembled cam roller guide
- Stroke and trolley length can be individually selected
- Rail profile mounted on strut profile 90x180
- Incl. toothed belt drive; additional notes on the drive concept (p. 13-44)



Technical data

See pages 13-57 for notes on layout and drive

Complete axis	L_H / L_1 (mm)	No.
LF20S	$L_1 + 50 \leq L_H \leq 5220$ $270 \leq L_1 \leq 1000$	3 842 998 499 / L_H / L_1



Cam roller guide LF20S – components

► Components for the individual assembly of cam roller guides, with or without drive

Parts list for cam roller guide LF20S without drive

Component	No.	Qty.	Page
A Profile 90x180	3 842 990 416 / L ₂	1	2-45
B Guide profile LF20S	3 842 993 080 / L ₂	1	13-32
C Guide rod LF20	3 842 993 969 / L ₂	2	13-32
D Profile 45x270	3 842 992 927 / L ₁	1	2-42
E Cover cap 45x90	3 842 548 757	6	2-42
F Guide bearing LF20	3 842 535 663	4	13-33
G Cover cap 90x90	3 842 548 761	4	2-44
L Cylinder bolt DIN 7984 – M8x45		n ¹⁾	
M T-nut M8, 10 mm slot	3 842 530 287	n ¹⁾	3-4
N Sliding block	3 842 146 877	n ¹⁾	13-32

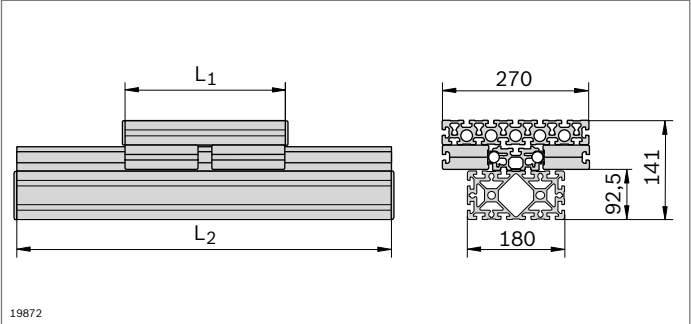
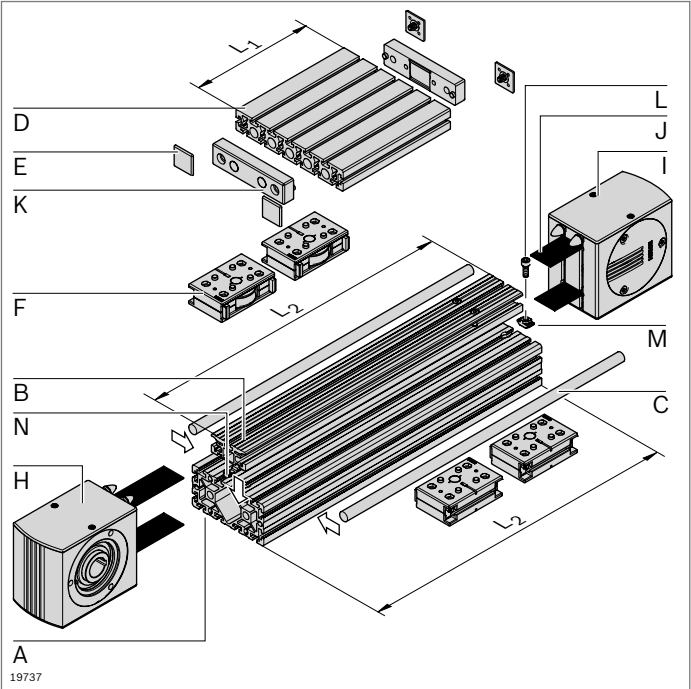
1) For identification see page 13-32

Parts list for cam roller guide LF20S with drive

Component	No.	Qty.	Page
A Profile 90x180 LF-S	3 842 993 081 / L ₂	1	2-45
B Guide profile LF20S	3 842 993 080 / L ₂	1	13-32
C Guide rod LF20	3 842 993 969 / L ₂	2	13-32
D Profile 45x270 M12	3 842 992 928 / L ₁	1	2-42
E Cover cap 45x45	3 842 548 753	4	2-38
F Guide bearing LF20	3 842 535 663	4	13-33
H Drive head LF20S	3 842 526 414	1	13-35
I Return head LF20S	3 842 526 415	1	13-35
J Toothed belt LF20	3 842 994 662 / L ₃ ¹⁾	1	13-36
K Belt connector LF20	3 842 535 680	2	13-36
L Cylinder bolt DIN 7984 – M8x45		n ²⁾	
M T-nut M8, 10 mm slot	3 842 530 287	n ²⁾	3-4
N Sliding block	3 842 146 877	n ²⁾	13-32

1) L₃ = 2xL₂ - L₁ + 780

2) For identification see page 13-32





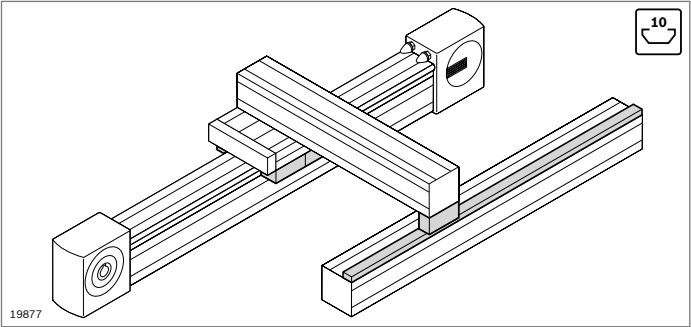
- | Guide profile | L_2 (mm) | No. |
|---|---|---|
| LF20S | 1 pc 150 ... 5600 | 3 842 993 080 / L_2 |
|  5 pcs | 5600 | 3 842 526 878 |
| Accessories: | Cylinder screw DIN 7984 – M8x45
T-nut M8, 10 mm slot (p. 3-4)
Sliding block | |



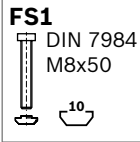
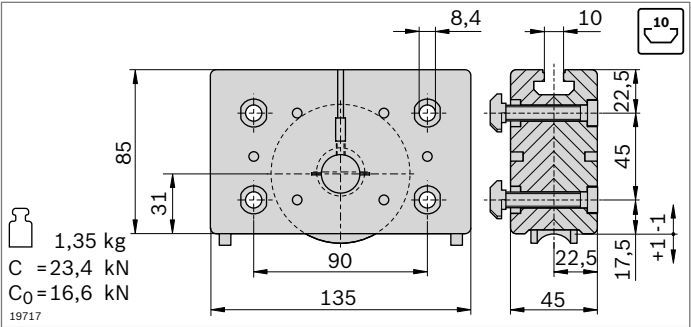
- | | | |
|----------------------|---|----------------------|
| Sliding block |  | No. |
| | 50 | 3 842 146 877 |
| Material: | PA, black | |



- | Guide rod | L ₂ (mm) |  | No. |
|------------------------|---|---|--------------------------------------|
| LF20 | 150 ... 2900 | 1 | 3 842 993 969 / L₂ |
| | 2900 | 20 | 3 842 539 416 |
| Material: | Solid shaft VA, induction hardened, polished | | |
| Condition on delivery: | Ungreased; greasing according to assembly instructions 3 842 527 226 | | |

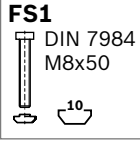
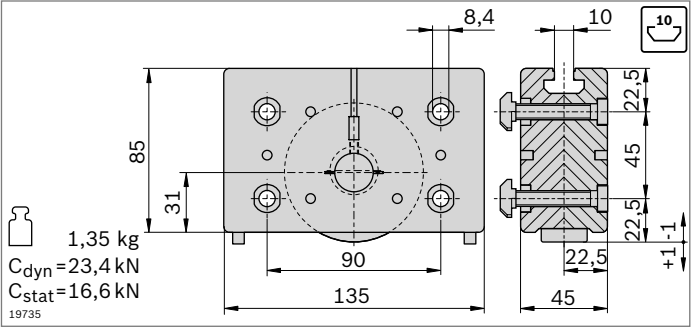


- ▶ Guide bearing for trolley construction
- ▶ Supporting bearing for brackets for bearing off-center forces
- ▶ Guide rail to support supporting bearings (p. 13-34)



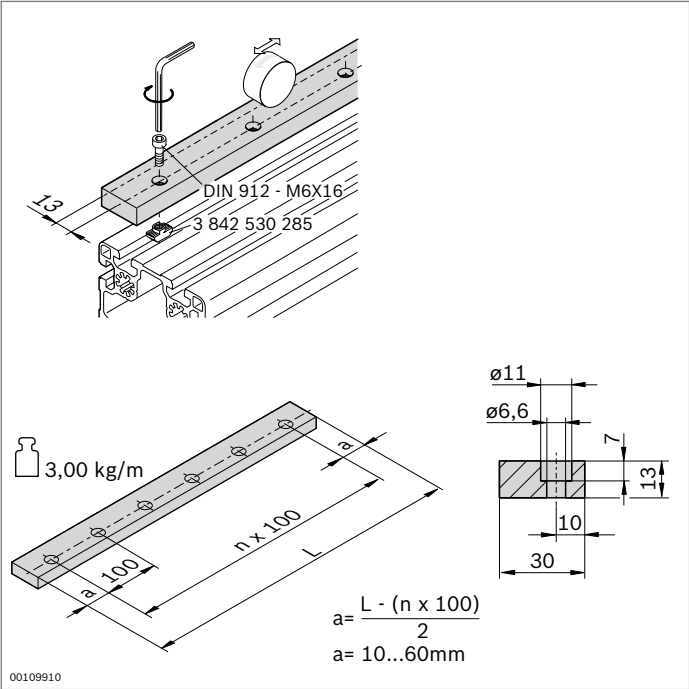
- ▶ Guide bearing for trolley construction
- ▶ Guiding via guide rod
- ▶ Rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free roller adjustment via eccentric bolts
- ▶ Replacement of the lubricating felts possible from rear in installed state

Guide bearing	No.	FS
LF20	2 3 842 535 663	4xFS1
Material:	Housing: die-cast aluminum Roller: steel, hardened, polished	
Scope of delivery:	Incl. fastening material (FS)	
Condition on delivery:	Lubricating felts ungreased; greasing according to assembly instructions 3 842 527 226	



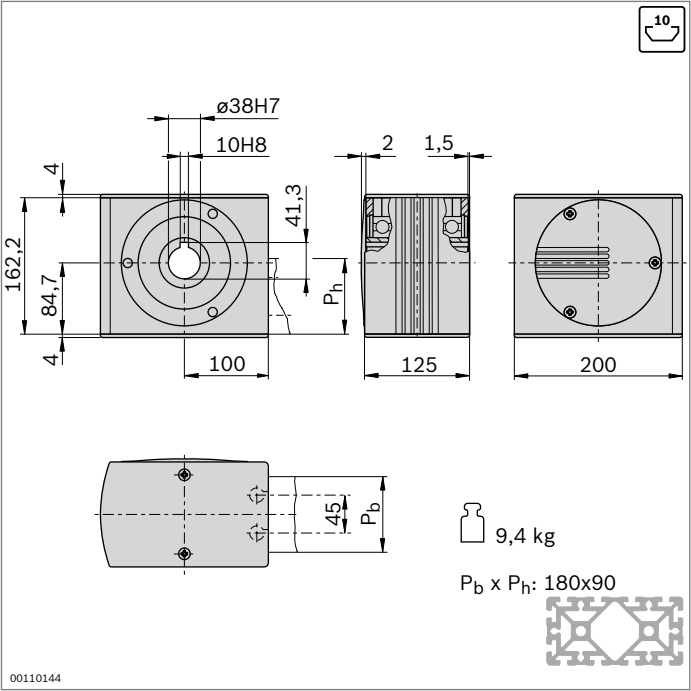
- ▶ Supporting bearing for brackets for bearing off-center forces
- ▶ For support on the guide rail
- ▶ Rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free roller adjustment via eccentric bolts
- ▶ Replacement of the lubricating felts possible from rear in installed state

Supporting bearing	No.	FS
LF20	2 3 842 535 665	4xFS1
Material:	Housing: die-cast aluminum Roller: steel, hardened, polished	
Scope of delivery:	Incl. fastening material (FS)	
Condition on delivery:	Lubricating felts ungreased; greasing according to assembly instructions 3 842 527 226	



► Guide rail to hold supporting bearings

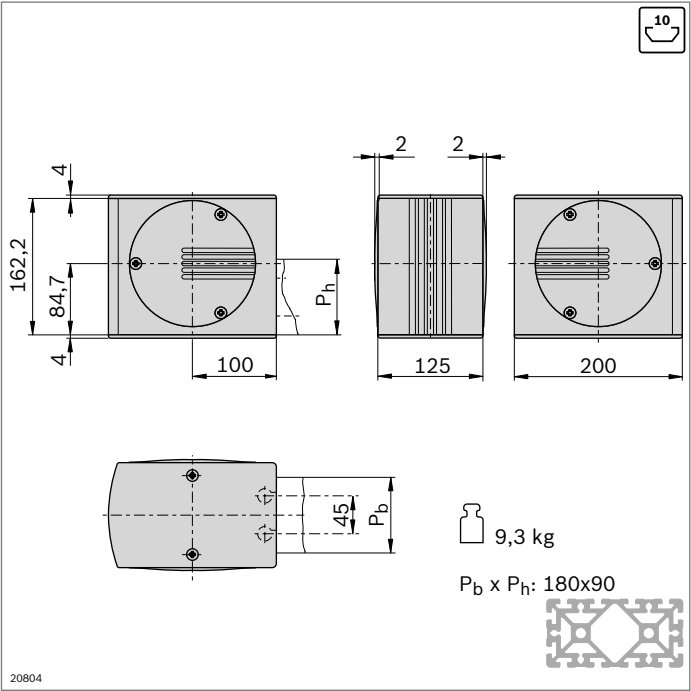
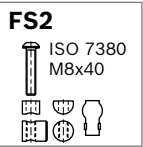
Guide rail	L (mm)	No.
LF20	120 ... 2000	3 842 994 702 / L
Material:	Steel, hardened, polished	
Condition on delivery:	Ungreased; greasing according to assembly instructions 3 842 527 226	
Accessories:	Cylinder bolt DIN 912 – M6x16 T-nut M6, 10 mm slot (3 842 530 285)	



- Drive head for transferring drive torque to a toothed belt
- For direct mounting of a motor or (in conjunction with a center shaft) for mounting a hollow shaft gear or a coupling (p. 13-46)
- Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- Profile machining: LF-S blind hole drilling for longitudinal end connector

Drive head	No.	FS
LF20S	3 842 526 414	4xFS2, 2xFS3

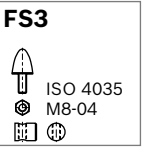
Material: Drive head: aluminum, anodized
Hollow shaft: steel; galvanized
Scope of delivery: Incl. fastening material (FS), cover caps

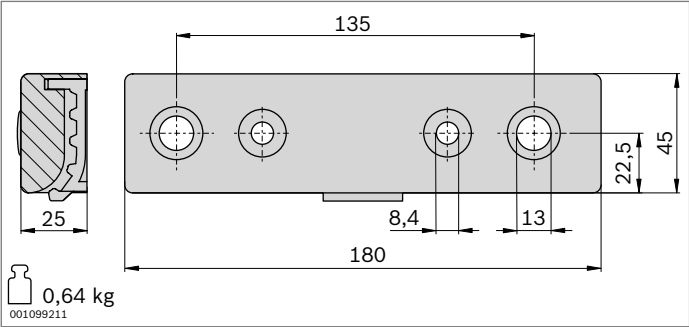


- Return head for tensioning the toothed belt and changing its direction
- Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- Profile machining: LF-S blind hole drilling for longitudinal end connector

Return head	No.	FS
LF20S	3 842 526 415	4xFS2, 2xFS3

Material: Return head: aluminum, anodized
Hollow shaft: steel; galvanized
Cover caps: PA, black
Scope of delivery: Incl. fastening material (FS), cover caps



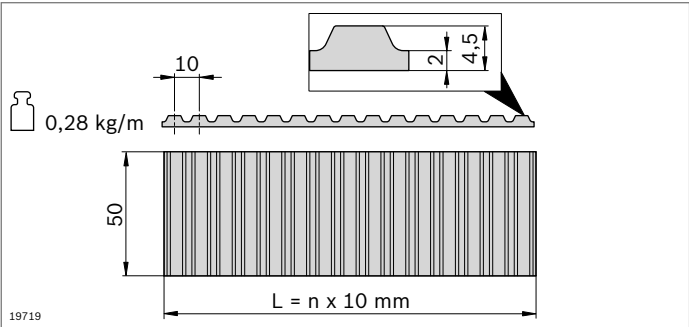


- ▶ Belt connector for fixing the toothed belt on the front of the trolley
- ▶ Profile finish for strut profile 45x270 for trolley LF20S: M12
- ▶ All connecting parts included for mounting at the profile end (LF20S) or the slot (LF20C)

Belt connector		No.	FS
LF20	2	3 842 535 680	2xFS4, 2xFS5, 2xFS6, 2xFS7, 4xFS8

Material: Aluminum, painted black
Scope of delivery: Incl. fastening material (FS)

FS4  DIN 7984 M12x40	FS5  DIN 7984 M8x30  DIN 125 A8,4 	FS6  DIN 7991 M8x30 	FS7  ø18x7
FS8  ø10x5x11			

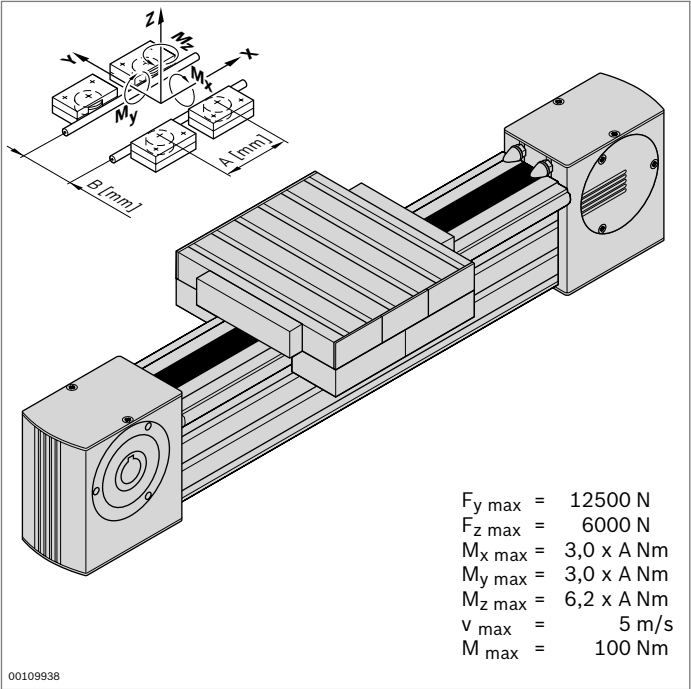


- ▶ Toothed belt as a trolley drive
- ▶ Pitch: AT10

Toothed belt	L ₃ (mm)	No.
LF20	300 ... 50000	3 842 994 662 / L ₃ ¹⁾
	50000	3 842 513 648

¹⁾ L₃ = 2xL₂ - L₁ + 780

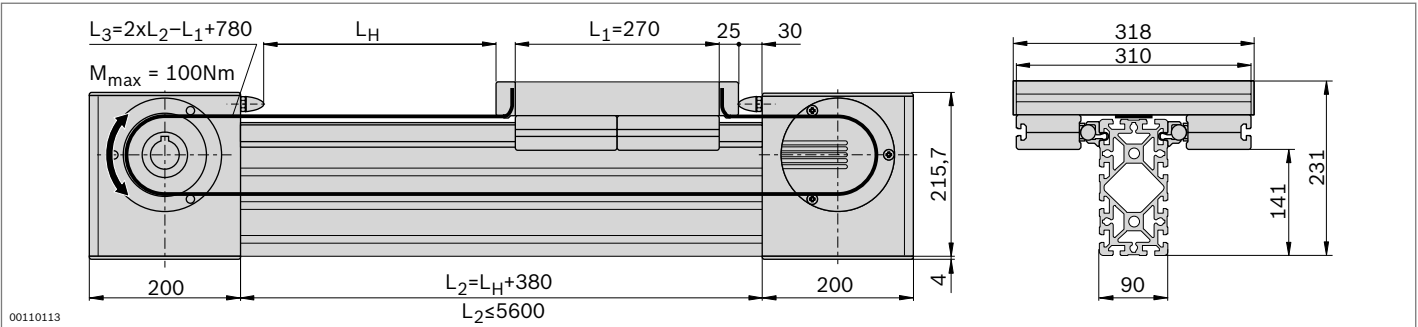
Material: PU with embedded steel wires



Cam roller guide LF20C – complete axis



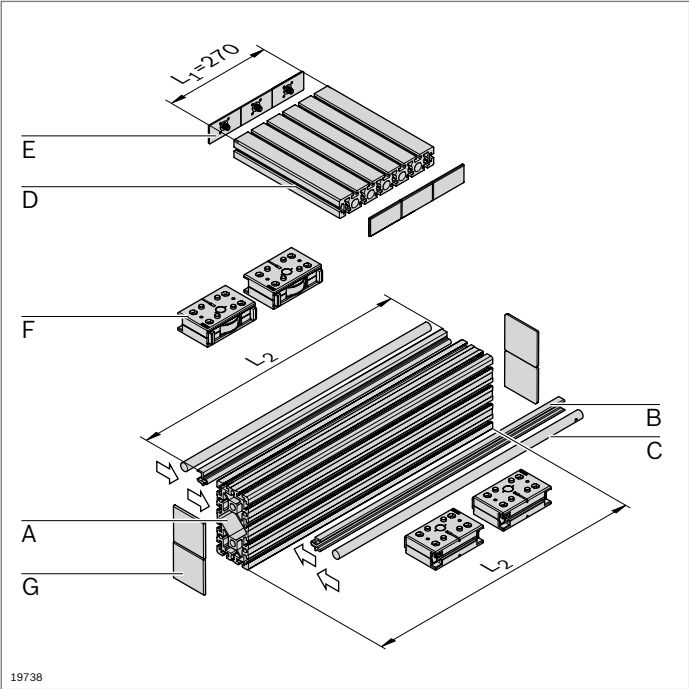
- Fully assembled cam roller guide
- Stroke can be individually selected
- Clamping profile clipped into strut profile 90x180
- Incl. toothed belt drive; additional notes on the drive concept (p. 13-44)



Technical data

See pages 13-50 for notes on layout and drive

Complete axis	L_H (mm)	No.
LF20C	50 ... 5220	3 842 998 500 / L_H

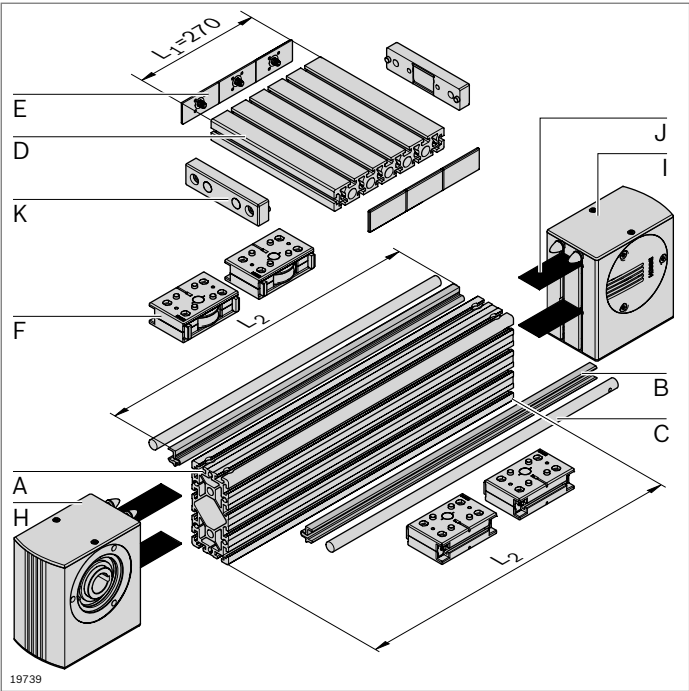


Cam roller guide LF20C – components

► Components for the individual assembly of cam roller guides, with or without drive

Parts list for cam roller guide LF20C without drive

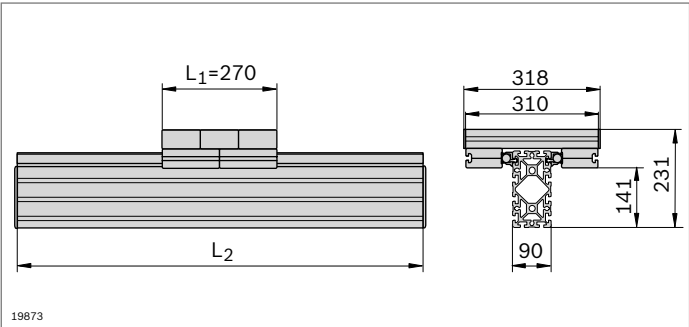
Component	No.	Qty.	Page
A Profile 90x180	3 842 990 416 / L ₂	1	2-45
B Clamping profile LF20C	3 842 992 441 / L ₂	2	13-39
C Guide rod LF20	3 842 993 969 / L ₂	2	13-39
D Profile 45x270	3 842 992 927 / 310 mm	1	2-42
E Cover cap 45x90	3 842 548 757	6	2-41
F Guide bearing LF20	3 842 535 663	4	13-40
G Cover cap 90x90	3 842 548 761	4	2-44

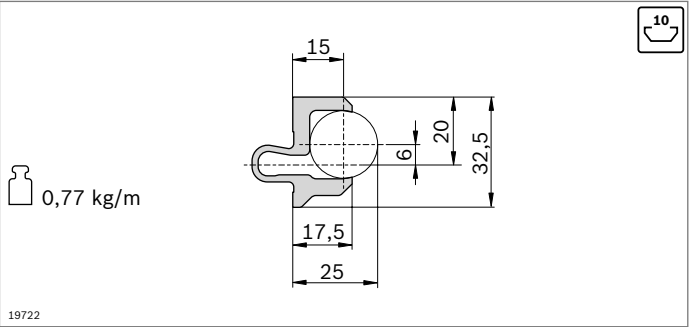


Parts list for cam roller guide LF20C with drive

Component	No.	Qty.	Page
A Profile 90x180 LF LF	3 842 992 898 / L ₂	1	2-45
B Clamping profile LF20C	3 842 992 441 / L ₂	2	13-39
C Guide rod LF20	3 842 993 969 / L ₂	2	13-39
D Profile 45x270	3 842 992 927 / 310 mm	1	2-42
E Cover cap 45x90	3 842 548 757	6	2-41
F Guide bearing LF20	3 842 535 663	4	13-40
H Drive head	3 842 526 867	1	13-42
I Return head	3 842 526 869	1	13-42
J Toothed belt	3 842 994 662 / L ₃ ¹⁾	1	13-43
K Belt connector	3 842 535 680	2	13-43

¹⁾ L₃ = 2xL₂ - L₁ + 780

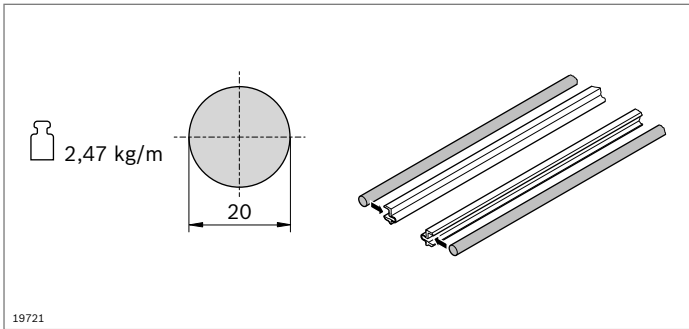




- The clamping profile is clipped into any chosen 10 mm strut profile slot and holds the guide rods

Clamping profile	L (mm)		No.
LF20C	1 pc	150 ... 3000	3 842 992 441 / L
	 20 pcs	3000	3 842 518 898

Material: Aluminum, anodized

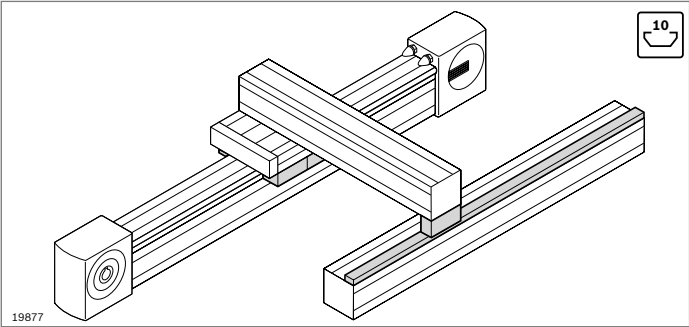


- The guide rod is pressed into the clamping profile
- The guide rod guides the guide bearing

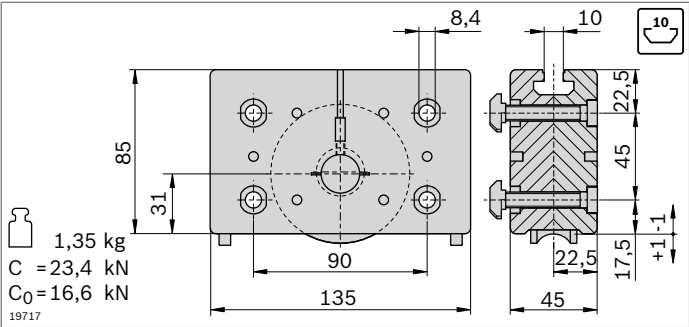
Guide rod	L (mm)			No.
LF20	150 ... 2900	1		3 842 993 969 / L
	2900	20		3 842 539 416

Material: Solid shaft VA, induction hardened, polished

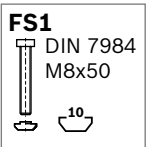
Condition on delivery: Ungreased; greasing according to assembly instructions **3 842 527 226**



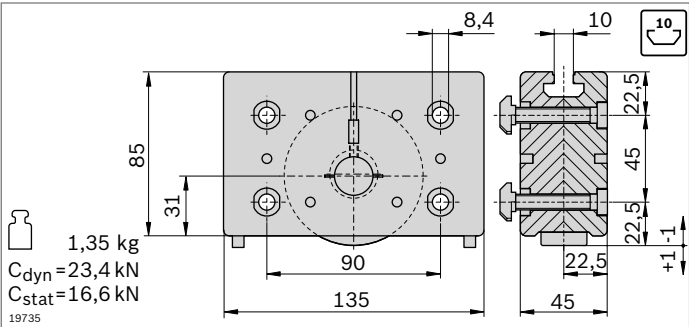
- ▶ Guide bearing for trolley construction
- ▶ Supporting bearing for brackets for bearing off-center forces
- ▶ Guide rail to support supporting bearings (p. 13-44)



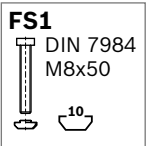
- ▶ Guide bearing for trolley construction
- ▶ Guiding via guide rod
- ▶ Rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free roller adjustment via eccentric bolts
- ▶ Replacement of the lubricating felts possible from rear in installed state



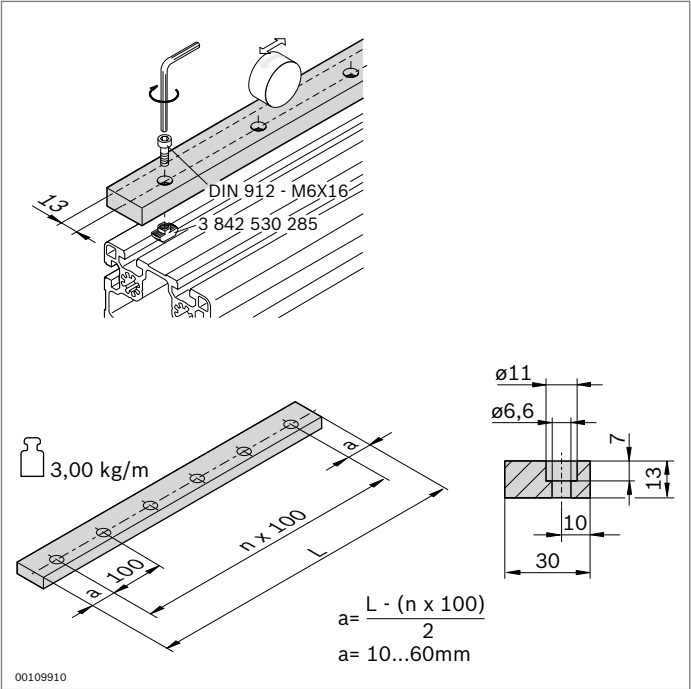
Guide bearing	No.	FS
LF20	2	3 842 535 663 4xFS1
Material:	Housing: die-cast aluminum Roller: steel, hardened, polished	
Scope of delivery:	Incl. fastening material (FS)	
Condition on delivery:	Lubricating felts ungreased; greasing according to assembly instructions 3 842 527 226	



- ▶ Supporting bearing for brackets for bearing off-center forces
- ▶ For support on the guide rail
- ▶ Rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free roller adjustment via eccentric bolts
- ▶ Replacement of the lubricating felts possible from rear in installed state

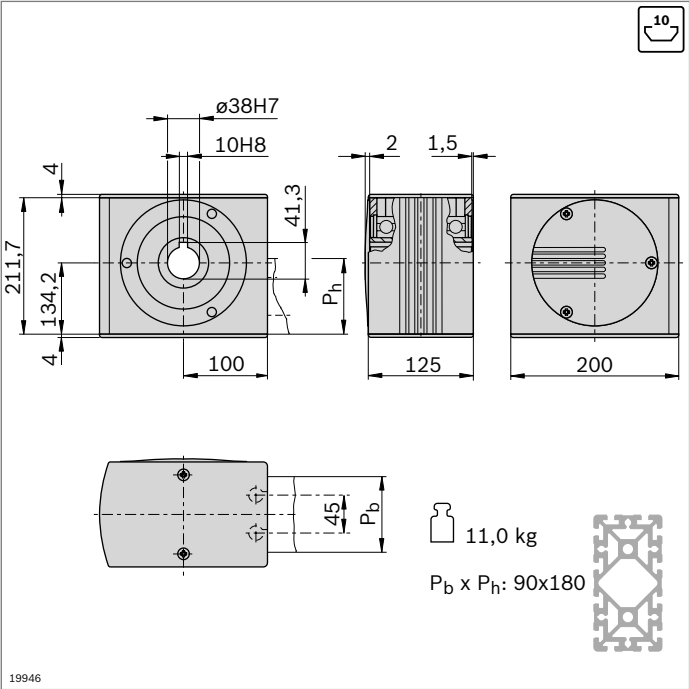


Supporting bearing	No.	FS
LF20	2	3 842 535 665 4xFS1
Material:	Housing: die-cast aluminum Roller: steel, hardened, polished	
Scope of delivery:	Incl. fastening material (FS)	
Condition on delivery:	Lubricating felts ungreased; greasing according to assembly instructions 3 842 527 226	



► Guide rail to hold supporting bearings

Guide rail	L (mm)	No.
LF20	120 ... 2000	3 842 994 702 / L
Material:	Steel, hardened, polished	
Accessories:	Cylinder bolt DIN 912 – M6x16 T-nut M6, 10 mm slot (3 842 530 285)	
Condition on delivery:	Ungreased; greasing according to assembly instructions 3 842 527 226	

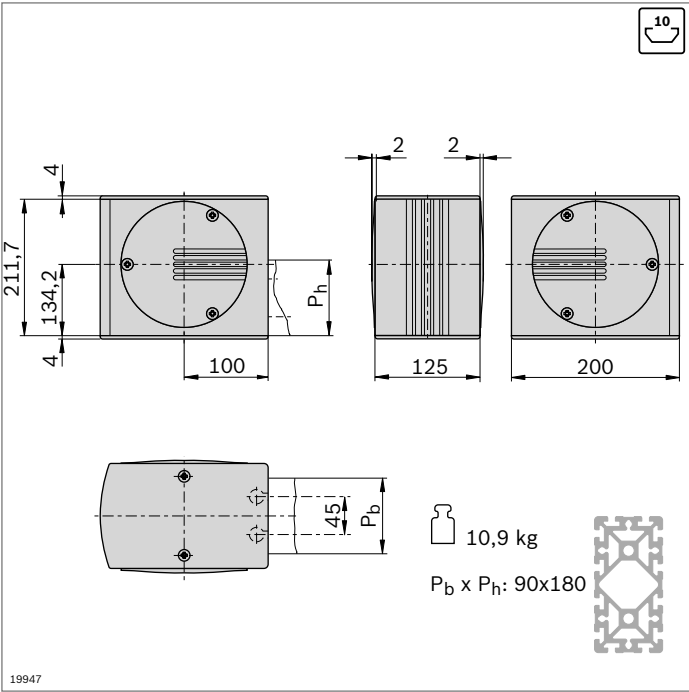
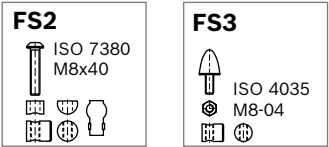


- Drive head for transferring drive torque to a toothed belt
- For direct mounting of a motor or (in conjunction with a center shaft) for mounting a hollow shaft gear or a coupling (p. 13-46)
- Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- Profile machining: LF blind hole drilling for longitudinal end connector

Drive head	No.	FS
LF20C	3 842 526 867	4xFS2, 2xFS3

Material: Drive head: aluminum, anodized
Hollow shaft: steel; galvanized

Scope of delivery: Incl. fastening material (FS), cover caps

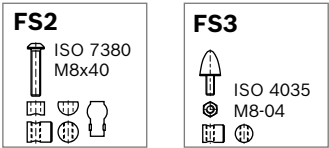


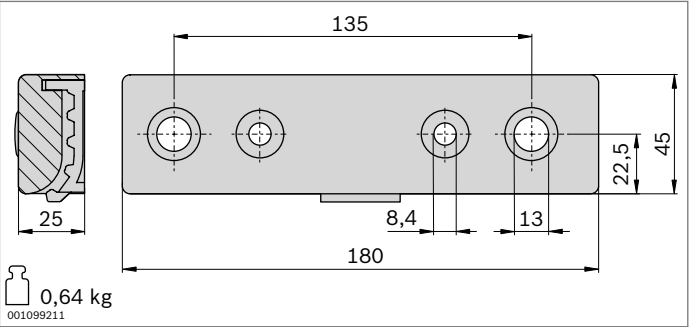
- Return head for tensioning the toothed belt and changing its direction
- Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- Profile machining: LF blind hole drilling for longitudinal end connector

Return head	No.	FS
LF20C	3 842 526 869	4xFS2, 2xFS3

Material: Return head: aluminum, anodized
Hollow shaft: steel; galvanized
Cover caps: PA, black

Scope of delivery: Incl. fastening material (FS), cover caps





- Belt connector for fastening the toothed belt to the trolley slot
- Profile finish for strut profile 45x270 for trolley LF20S: M12
- All connecting parts included for mounting at the profile end (LF20S) or the slot (LF20C)

Belt connector		No.	FS
LF20	2	3 842 535 680	2xFS4, 2xFS5, 2xFS6, 2xFS7, 4xFS8

Material: Aluminum, painted black
Scope of delivery: Incl. fastening material (FS)

FS4

DIN7984
M12x40

FS5

DIN 7984
M8x30

DIN 125
A8,4

FS6

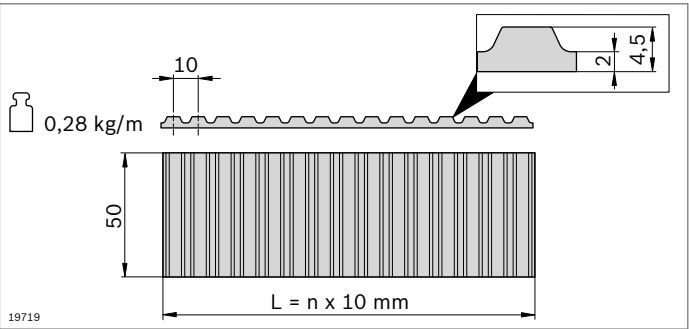
DIN 7991
M8x30

FS7

ø18x7

FS8

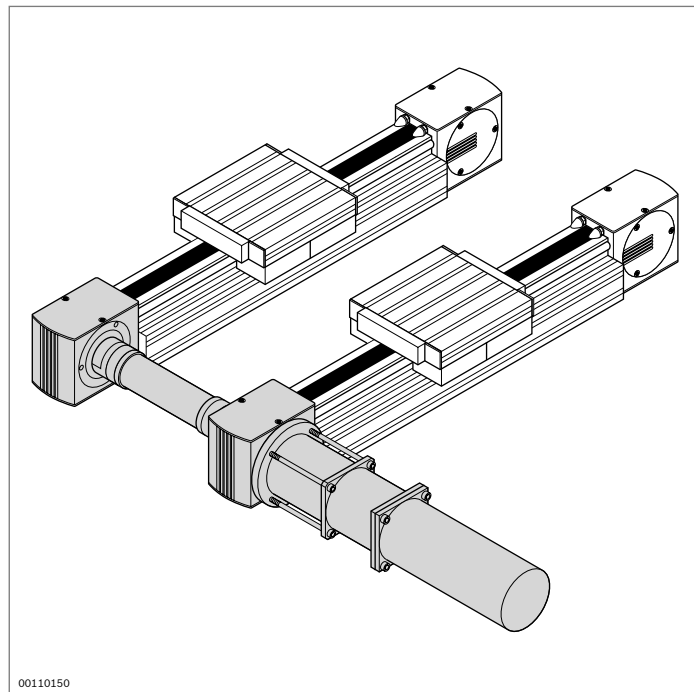
ø10xø5x11



- Toothed belt as a trolley drive
- Pitch: AT10

Toothed belt	L (mm)	No.
LF20	300 ... 50000	3 842 994 662 / L ₃ ¹⁾
	50000	3 842 513 648

¹⁾ L₃ = 2xL₂ - L₁ + 780
Material: PU with embedded steel wires



Linear guide drives

Drive concept

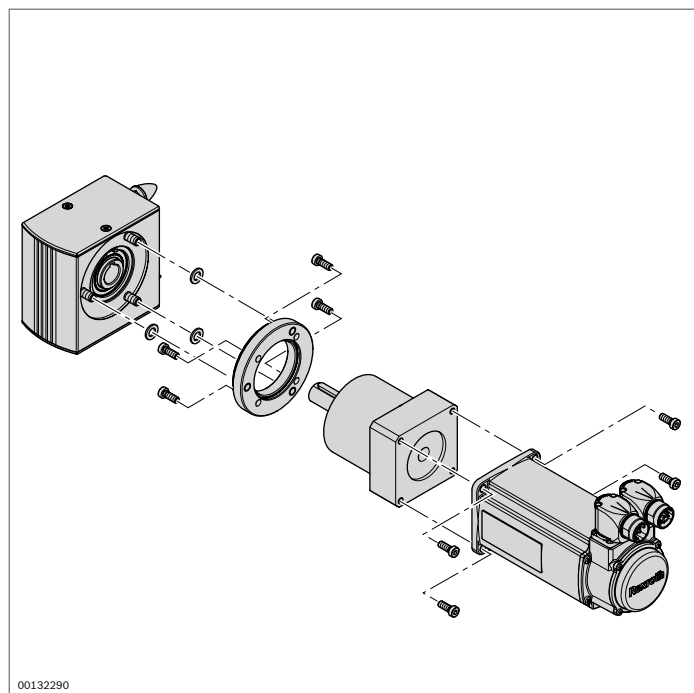
The linear guides are driven via the hollow shaft in the drive head. The drive head is used to directly install a motor or alternatively (in connection with a center shaft) a hollow shaft gear or a coupling. Depending on the desired speeds of movement for the application, it is necessary to use various motor types in conjunction with intermediate gears. Due to the multitude of drive components available in the market, there are a large number of possible combinations.

The MGE modular profile system makes it easy to assemble Bosch Rexroth linear guides through the use of a standard shaft and simple connection dimensions.

Fastening

The drive head is directly secured on the profile by means of longitudinal end connectors.

The motor, or the intermediate gear flange, can be screwed to the drive head as a complete unit from the left- or right-hand side.

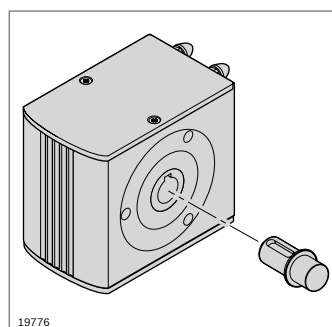


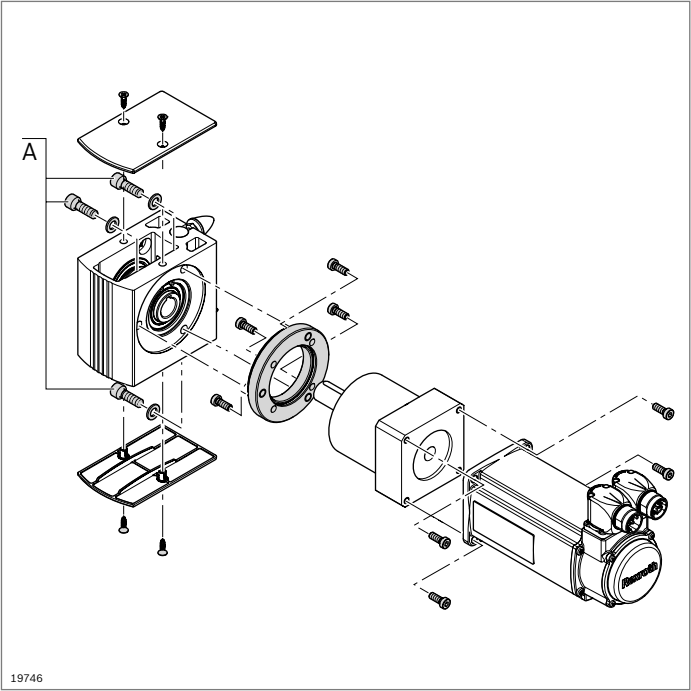
Synchronous shafts

The use of synchronous shafts (p. 13-47) enables several linear axes to be operated with one drive.

Connection dimensions (flange)

The connection dimensions for the size LF6, LF12 and LF20 linear guides are shown on pages 13-45.

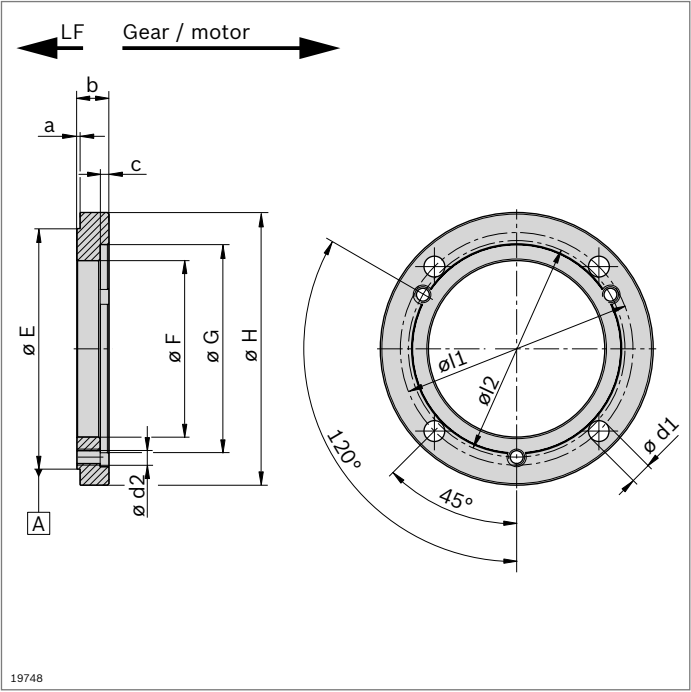




Fastening material flange A

Note regarding flange in self-build version. Adapt fastening material to suit differing flange thicknesses.

	LF6 (b = 14.5 mm)	LF12 (b = 20 mm)	LF20 (b = 20 mm)
Drive head – flange	ISO 4762 – M8x22 (3x) ISO 7092 – 8 (3x)	ISO 4762 – M8x25 (3x) ISO 7092 – 8 (3x)	ISO 4762 – M10x30 (3x) ISO 7092 – 10 (3x)



Flange

A flange is generally required for fixing the motor/gear unit in place. The connection dimensions for connection to the drive head are shown below. The connection to the motor/ gear unit depends on the model chosen in each case.

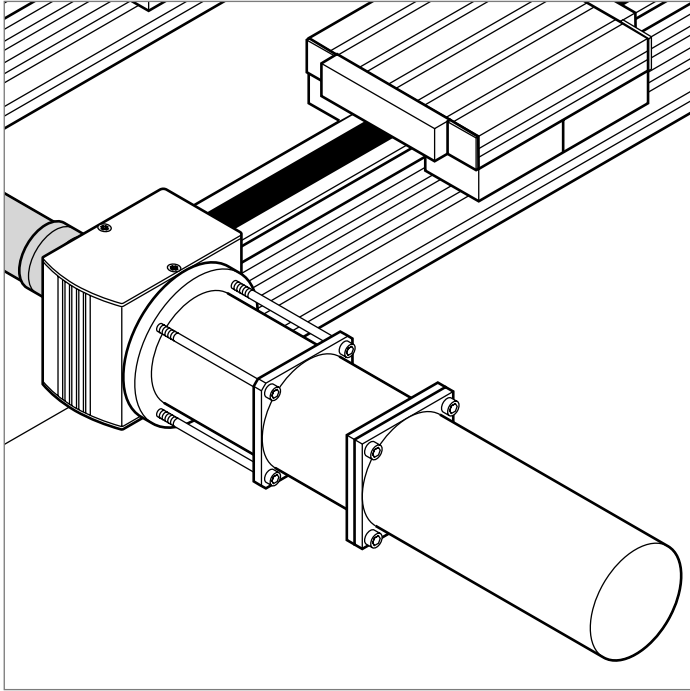
See also the connection dimensions for the drive heads LF6S (p. 13-9), LF6C (p. 13-14), LF12C (p. 13-28), LF12S (p. 13-21), LF20C (p. 13-42), LF20S (p. 13-35)

Drawing and dimensions for flange in self-build version. Customer-specific adjustment is necessary, depending on the motor and gear unit. The fastening material must be self-sourced.

Flange

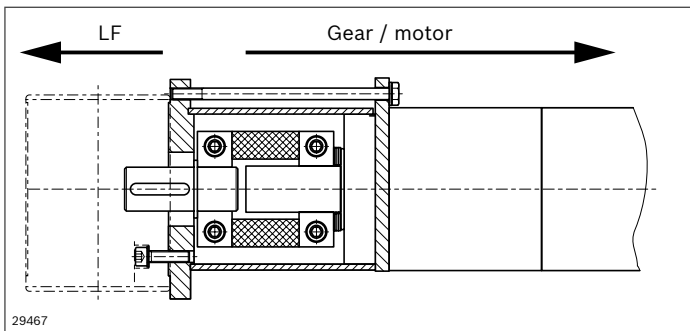
Dimension parameter	LF6 (mm)	LF12 (mm)	LF20 (mm)
a	3.5 ± 0.15	3.5 ± 0.15	2 ± 0.15
b _{min} *)	0.05	*)	*)
c *)	*)	*)	*)
E	Ø 88 -0.1/-0.3	Ø 111 -0.1/-0.3	Ø 150 -0.1/-0.3
F _{min} *)	Ø *)	Ø *)	Ø *)
G *)	0.05	Ø *)	Ø *)
H *)	Ø *)	Ø *)	Ø *)
I1 *)	Ø *)	Ø *)	Ø *)
I2	Ø 78	Ø 100	Ø 135
d1 *)	Ø *)	Ø *)	Ø *)
d2	Ø 0.25	M8	M10

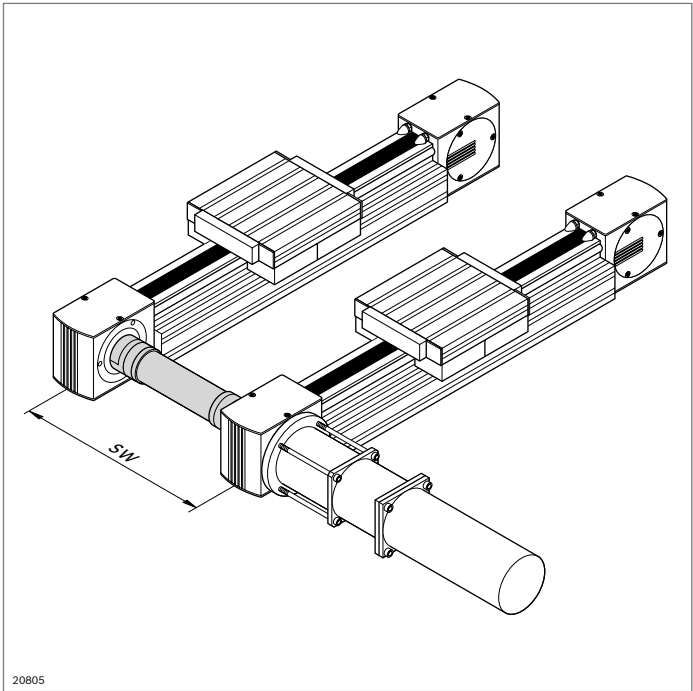
*) Dimension according to customer drive
Note: The values must be checked by the user.



Alternative mounting with coupling

Instead of direct mounting over the section link, a coupling can be inserted. This allows any user truing errors to be rectified. The coupling must be designed and sourced by the customer.





20805

Center shafts, synchronous shafts

Center shafts

- Enable the installation of customized drive solutions

Center shaft	No.
LF6	3 842 526 893
LF12	3 842 526 894
LF20	3 842 526 895

Material: Steel, nickel-plated

SW = support separation

LF6

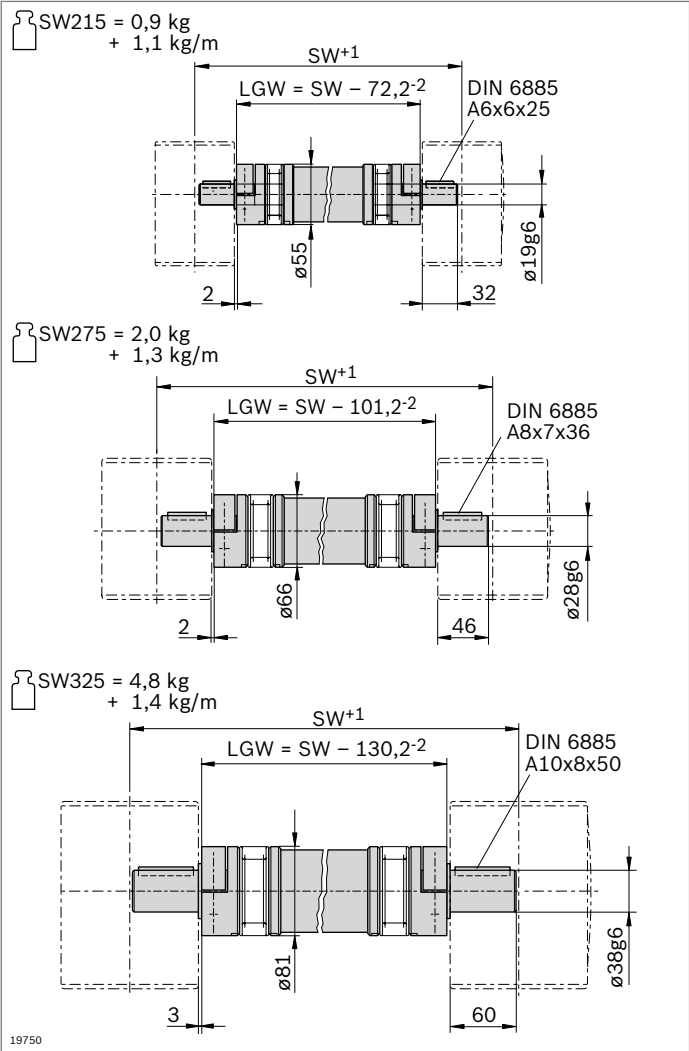
0,11 kg

LF12

0,33 kg

LF20

0,77 kg



SW = support separation
LGW = length of synchronous shaft

Synchronous shafts

- ▶ Allow several linear guides to be operated synchronously while being driven by a common motor
- ▶ The synchronous shaft can be replaced without the drive heads having to be disassembled

The selection diagrams on pages 13-60 and 13-61 specify maximum values without safety margins.

Synchronous shaft	SW (mm)	No.
LF6	215 ... 3000	3 842 994 811 / SW
LF12	275 ... 3500	3 842 994 812 / SW
LF20	325 ... 3500	3 842 994 813 / SW

Material: Steel/aluminum

Technical data for roller, design, mounting

General technical data and calculations

Speed

$$v_{\max} = 5 \text{ m/s}$$

Acceleration

$$a_{\max} = 15 \text{ m/s}^2$$

Temperature resistance

$$-10 \text{ °C} < \vartheta < 40 \text{ °C}$$

Lubrication

All cam roller guide ball bearings are delivered with built-in lubrication felts.

Condition on delivery

Ungreased (greasing with Klüber Isoflex Topas NCA 52; see assembly instructions **3 842 527 226**)

v Lubricating felts with reservoir are not greased.

Guide rods are ungreased.

Definition of dynamic load rating C

The radial loading of constant magnitude and direction which a linear rolling bearing can theoretically withstand for a nominal service life of 100 km distance traveled (acc. to ISO 14728 Part 1).

Note regarding maximum load $F_{\max}$

The maximum loads apply to individual loads. Combining loads decreases the expected service life.

Definition and calculation of nominal service life

The calculated service life which an individual linear rolling bearing – or a group of apparently identical rolling element bearings operating under the same conditions – can attain with a 90% probability, based on the materials of normal manufacturing quality that are generally used today and under usual operating conditions (acc. to ISO 14728 Part 1) and optimal installation conditions.

Nominal service life at constant speed

$$L = \left(\frac{C}{F} \right)^3 \cdot 10^5$$

$$L_h = \left(\frac{L}{2 \cdot s \cdot n_s \cdot 60} \right)$$

L = nominal service life (m)

L_h = nominal service life (h)

C = dynamic load capacity (N)

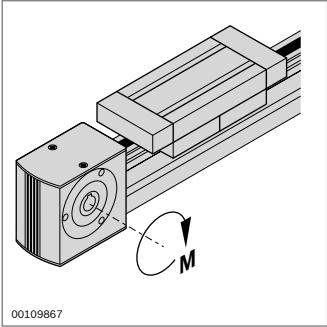
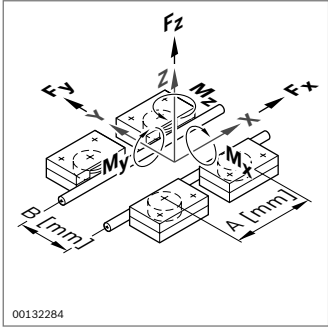
F = equivalent load (N)

s = length of stroke* (m)

n_s = stroke frequency (double stroke) (min^{-1})

*) For $s < 2 \times L_1$ (trolley length) load capacities are reduced.

Please consult us.



Load-dependent design

- The specified values are maximum single loads, which are reduced when loads are combined

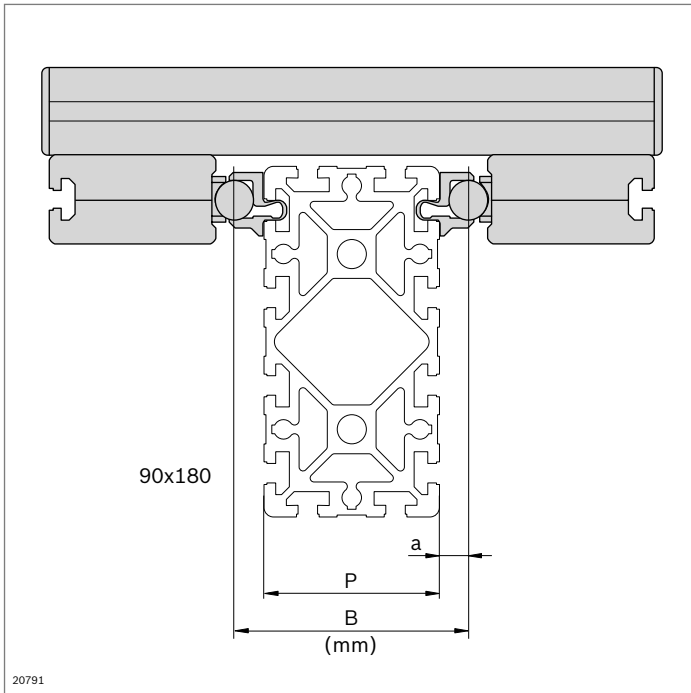
Note: If cumulative forces and moments arise in your application, please use the Linear Motion Designer LF-MGE linear guide calculation program to recalculate your design (p. 13-57)

	F_z (N)	F_y (N)	M_x (Nm)	M_z (Nm)	M_y (Nm)	v_{max} (m/s)	M_{max} (Nm)
LF6S	850	1400	13.6	$0.7 \times A^{1)}$	$0.4 \times A^{1)}$	5	9.5 / 7.6
LF6C	850	1400	$0.4 \times B^{1)}$	$0.7 \times A^{1)}$	$0.4 \times A^{1)}$	5	15
LF12S	2000	3500	78.0	$1.7 \times A^{1)}$	$1.0 \times A^{1)}$	5	30
LF12C	2000	3500	$1.0 \times B^{1)}$	$1.7 \times A^{1)}$	$1.0 \times A^{1)}$	5	30
LF20S	6000	12500	240.0	$6.2 \times A^{1)}$	$3.0 \times A^{1)}$	5	100
LF20C	6000	12500	$3.0 \times B^{1)}$	$6.2 \times A^{1)}$	$3.0 \times A^{1)}$	5	100

¹⁾ Note: A (spacing of support rollers, see image above) in mm; see below for calculation of B (track width)

Do not exceed the maximum loading of the screwed connections for rails, carriages and fastenings.

Take account of the general service life of lubricants!

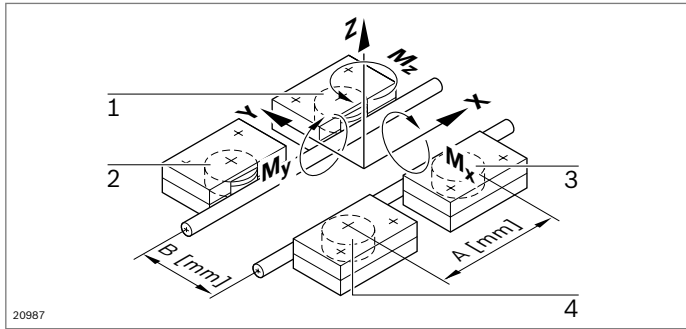


Calculating the track width B

$$B = P + 2 \times a$$

B = track width (in mm)
 P = profile width (in mm)
 a = rod spacing (in mm)

Values for a : for LF6C = 9.5 mm (p. 13-13)
for LF12C = 9 mm (p. 13-25)
for LF20C = 15 mm (p. 13-41)



Roller 1:

$$F_r = -\left(\frac{F_y}{2}\right) - \left(\frac{M_z}{A}\right)$$

$$F_a = \left(\frac{F_z}{4}\right) + \left(\frac{M_x}{2 \cdot B}\right) - \left(\frac{M_y}{2 \cdot A}\right)$$

Roller 3:

$$F_r = +\left(\frac{F_y}{2}\right) + \left(\frac{M_z}{A}\right)$$

$$F_a = \left(\frac{F_z}{4}\right) - \left(\frac{M_x}{2 \cdot B}\right) - \left(\frac{M_y}{2 \cdot A}\right)$$

Roller 2:

$$F_r = -\left(\frac{F_y}{2}\right) + \left(\frac{M_z}{A}\right)$$

$$F_a = \left(\frac{F_z}{4}\right) + \left(\frac{M_x}{2 \cdot B}\right) + \left(\frac{M_y}{2 \cdot A}\right)$$

Roller 4:

$$F_r = +\left(\frac{F_y}{2}\right) - \left(\frac{M_z}{A}\right)$$

$$F_a = \left(\frac{F_z}{4}\right) - \left(\frac{M_x}{2 \cdot B}\right) + \left(\frac{M_y}{2 \cdot A}\right)$$

Calculation of load on bearing for a trolley

Loading of the individual rollers

- A mm: spacing of the rollers' rotational axes
- B mm: center-to-center distance between the guide rods
- Only compressive forces can be transferred between rollers and guide rods in the radial direction. The following therefore applies in respect of radial forces:
 $F_r \leq 0$: $F_r = 0$
- Rollers can be loaded equally in both directions.
 Therefore force F_a is sufficient for calculating P and P_0

Table 1: Load factors for rollers

	Load case: $F_r \geq F_a $				Load case: $F_r < F_a $			
	x	y	x_0	y_0	x	y	x_0	y_0
LF6	1	3.1	1.2	3.5	0.5	3.6	1	3.7
LF12	1	4.2	1.2	5.2	0.5	4.7	1	5.4
LF20	1	4	1.2	4.9	0.5	4.5	1.1	5

Table 2: Rollers - load capacities

	C for 10^5 m (N)	C_0 (N)
LF6	3670	2280
LF12	8300	5000
LF20	23400	16600

Equivalent dynamic and static loads

To calculate the service life of a cam roller guide, the roller with the greatest load has to be considered.

The following must be determined:

$$P = \max(P_1, \dots, P_4)$$

$$P_0 = \max(P_{01}, \dots, P_{04})$$

Equivalent dynamic load P

$$P = x \cdot |F_r| + y \cdot |F_a|$$

Equivalent static load P_0

$$P_0 = x_0 \cdot |F_r| + y_0 \cdot |F_a|$$

F_r (N): radial load of the roller

The following applies: $F_r \leq 0$: $F_r = 0$

F_a (N): axial load of the roller

x, x_0 : radial factor (Table 1)

y, y_0 : axial factor (Table 1)

C: dynamic load capacity (Table 2)

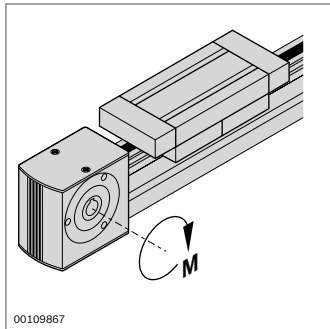
C_0 : static load capacity (Table 2)

Static safety values:

$$S_0 = \left(\frac{C_0}{P_0}\right)$$

$S_0 \geq 4$ recommended!

Size selection



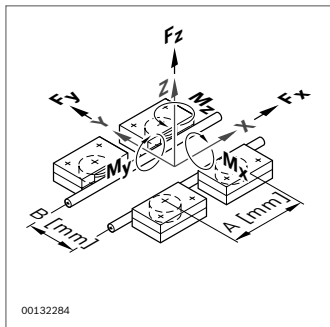
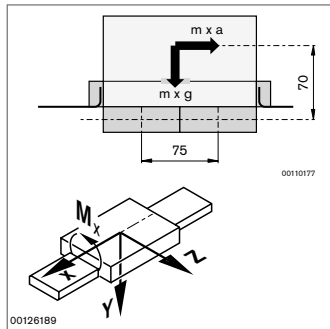
Determining the forces and moments which arise

$$\begin{matrix} F_{x\text{dyn}}, F_{y\text{dyn}}, F_{z\text{dyn}}^{1)} \\ M_{x\text{dyn}}, M_{y\text{dyn}}, M_{z\text{dyn}} \end{matrix}$$

¹⁾ $F_{z\text{dyn}}$ includes the weight of the trolley

All the influences must be considered, e.g.:

- net mass and load
- acceleration forces and moments
- process forces and moments
- loads caused by dampers and/or stops



Determining the permissible forces and moments

For values see p. 13-51

Example:

$$\begin{aligned} m &= 30 \text{ kg} & a &= 2.5 \text{ m/s}^2; \\ L_1 &= 150 \text{ mm} & L_2 &= 5000 \text{ mm} \\ g &= 9.81 \text{ m/s}^2 \end{aligned}$$

$$F_{z\text{dyn}} = m \cdot g = 294 \text{ N}$$

$$M_{y\text{dyn}} = m \cdot a \cdot 70 \text{ mm} = 5.25 \text{ Nm}$$

Example of LF 6 S, LF 6 C

$$\begin{aligned} F_{z\text{dyn zul}} &= 850 \text{ N} > F_{z\text{dyn}} = 294 \text{ N} \\ M_{y\text{dyn zul}} &= 0.4 \cdot A = 0.4 \cdot 75 \text{ mm} \\ &= 30 \text{ Nm} > M_{y\text{dyn}} = 5.25 \text{ Nm} \end{aligned}$$

Selection of the suitable size

$$\begin{matrix} F_{x, y, z \text{ dyn}} < F_{x, y, z \text{ dyn zul}} ! \\ M_{x, y, z \text{ dyn}} < M_{x, y, z \text{ dyn zul}} ! \end{matrix}$$

If F and M are cumulative:

recalculate using linear guide calculation program.

Note: When using the program, account must be taken of the directions of the respective forces and moments, i.e. the plus/minus sign, in order for the program to be able to calculate correctly.

You can order the CD directly from our media catalog, number 3 842 540 900.

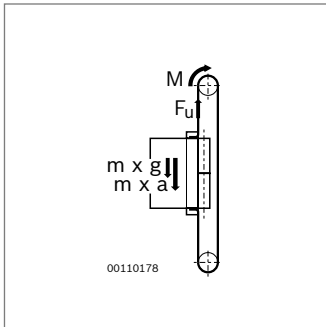
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Example:

$$F_{z\text{dyn}} = 294 \text{ N} < F_{z\text{dyn zul}} = 850 \text{ N} !$$

$$\begin{aligned} M_{y\text{dyn}} &= 5.25 \text{ Nm} < M_{y\text{dyn zul}} \\ &= 30 \text{ Nm} ! \end{aligned}$$

Calculating the drive

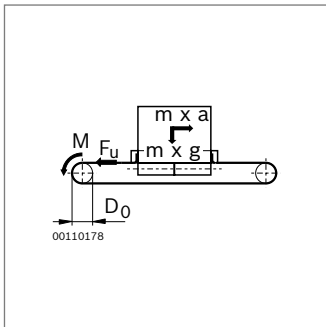


Peripheral force F_u

$$F_u = m \cdot a + m \cdot g + F_0 + \mu \cdot m \cdot g$$

$$F_u \leq F_{u \text{ zul}} !$$

F_0 : frictional force on return units
 μ : coefficient of friction of the guide
 see table below.



Alternative calculation formula

$$F_u = m \cdot a + F_0 + \mu \cdot m \cdot g \leq F_{u \text{ zul}} !$$

Example of LF6C

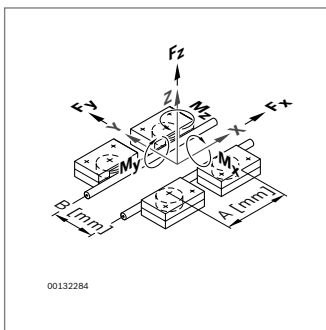
$$m = 30 \text{ kg}; \quad a = 2.5 \text{ m/s}^2$$

$$F_u = (30 \cdot 2.5) \text{ N} + 10 \text{ N}$$

$$+ (0.025 \cdot 30 \cdot 9.81) \text{ N}$$

$$F_u = 75 \text{ N} + 10 \text{ N} + 0.025 \cdot 294 \text{ N}$$

$$F_u = 92.35 \text{ N} < F_{u \text{ zul}} = 600 \text{ N} !$$



Required drive torque M

$$M = \frac{1}{2} \cdot D_0 \cdot F_u \leq M_{\text{zul}} !$$

Example:

$$M = \frac{1}{2} \cdot 50.94 \text{ mm} \cdot 92.35 \text{ N}$$

$$= 2.4 \text{ Nm}$$

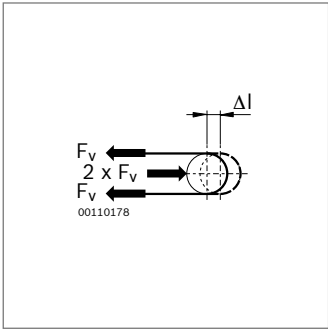
$$M = 2.35 \text{ Nm} \leq M_{\text{zul}}$$

$$= 15 \text{ Nm} !$$

	v (m/s)	$F_{u \text{ zul}}$ (N)	M_{zul} (Nm)	F_0 (N)	μ	D_0 (mm)	$D_0 \cdot \pi$ (mm)
LF6S	≤ 2.0	500	9.5	10	0.025	38.21	120
LF6S	2.01 ... 5.0	400	7.6	10	0.025	38.21	120
LF6C	≤ 5.0	600	15.0	10	0.025	50.94	160
LF12S	≤ 5.0	820	30.0	30	0.020	73.20	230
LF12C	≤ 5.0	820	30.0	30	0.020	73.20	230
LF20S	≤ 5.0	2000	100.0	35	0.015	101.86	320
LF20C	≤ 5.0	2000	100.0	35	0.015	101.86	320

F_0 : frictional force on return units; μ : coefficient of friction

Checking the selected size



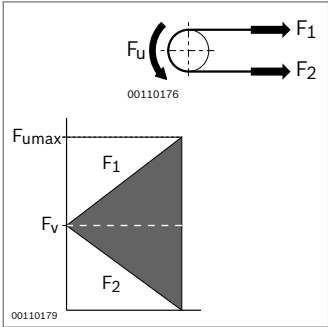
Preload force F_v of toothed belt

$$0.5 \cdot F_u \leq F_v \leq F_u$$
 Recommendation: $F_v = 0.5 \cdot F_u$

Example:

$$F_u = 92.35 \text{ N}$$

$$F_v = 50 \text{ N}$$



Maximum toothed belt force $F_{1 \text{ max}}$

$$F_{1 \text{ max}} = F_v + 0.5 \cdot F_u \leq F_{1 \text{ zul}} !$$

$$F_{2 \text{ min}} = F_v - 0.5 \cdot F_u > 0 !$$

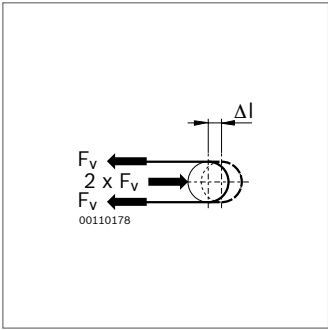
Example of LF6C

$$F_{1 \text{ max}} = 50 \text{ N} + 0.5 \cdot 92.35 \text{ N}$$

$$F_{1 \text{ max}} = 96.18 \text{ N} < F_{1 \text{ zul}} = 900 \text{ N} !$$

$$F_{2 \text{ min}} = 50 \text{ N} - 0.5 \cdot 92.35 \text{ N}$$

$$F_{2 \text{ min}} = 3.825 \text{ N} > 0 !$$



Required preload length Δl

$$\Delta l = 0.5 \cdot F_v \cdot L / C_{\text{spez}} \leq \Delta l_{\text{max}} !$$

Example:

$$L = 2 \cdot L_2 - L_1 + 400 \text{ mm}$$

$$L = 10\,250 \text{ mm}$$

$$\Delta l = 0.5 \cdot 50 \text{ N} \cdot 10\,250 \text{ mm}$$

$$/ 420\,000 \text{ N}$$

$$\Delta l = 0.8 \text{ mm} < \Delta l_{\text{max}} = 13 \text{ mm} !$$

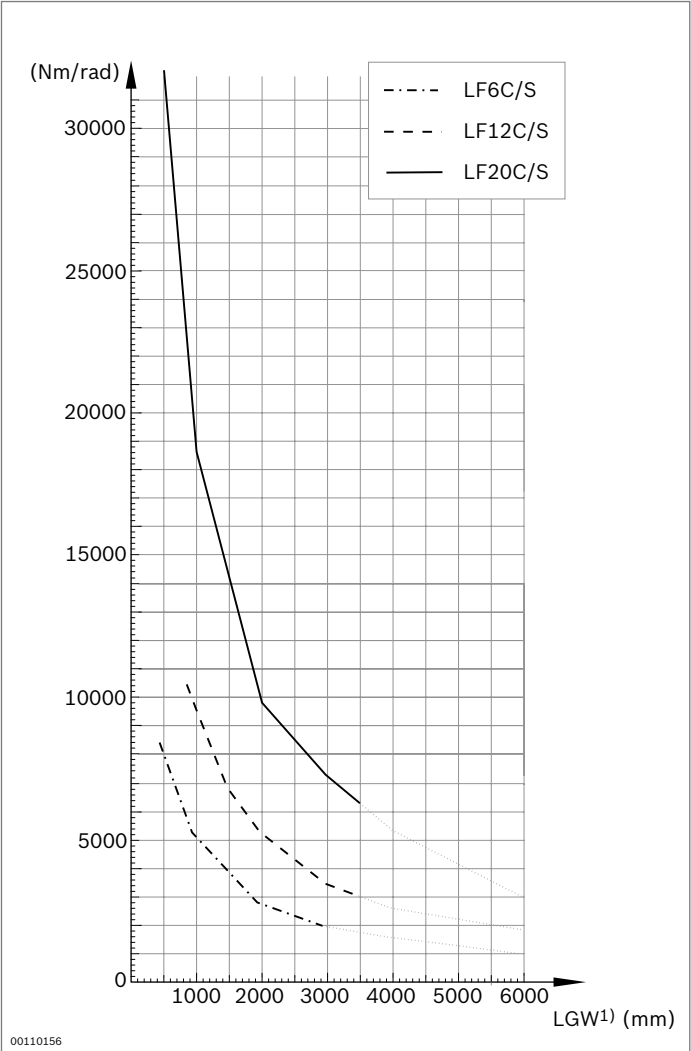
	$F_{1 \text{ zul}}$ (N)	C_{spez} (N)	Δl_{max} (mm)	L (mm)	Page
LF6S	750	315000	11	$2 \cdot L_2 - L_1 + 360$	13-6
LF6C	900	420000	13	$2 \cdot L_2 - L_1 + 400$	13-11
LF12S	1230	1250000	16	$2 \cdot L_2 - L_1 + 630$	13-16
LF12C	1230	1250000	16	$2 \cdot L_2 - L_1 + 630$	13-23
LF20S	3000	1870000	23	$2 \cdot L_2 - L_1 + 780$	13-30
LF20C	3000	1870000	23	$2 \cdot L_2 - L_1 + 780$	13-37

C_{spez} : Belt stiffness;
 L: Long toothed belts, see also LF6 (p. 13-6), LF6C (p. 13-11),
 LF12S (p.13-16), LF12C (p. 13-16),
 LF20S (p. 13-30), LF20C (p. 13-37)

Dimensioning of synchronous shafts

			LF6	LF12	LF20
Support separation SW	horizontal		215 ... 3000 mm	275 ... 3500 mm	325 ... 3500 mm
	vertical		215 ... 2000 mm	275 ... 2000 mm	325 ... 1100 mm
Nominal torque			max. 30 Nm	max. 60 Nm	max. 150 Nm
Permitted rpm			diagram 3 (p. 13-61) max. 0.7 · nk	diagram 3 (p. 13-61) max. 0.7 · nk	diagram 3 (p. 13-61) max. 0.7 · nk
Elasticity	axial		max. 2 mm	max. 3 mm	max. 4 mm
	lateral		diagram 4 (p. 13-61)	diagram 4 (p. 13-61)	diagram 4 (p. 13-61)
	torsion angle		diagram 5 (p. 13-61)	diagram 5 (p. 13-61)	diagram 5 (p. 13-61)

Diagram 1: Torsion stiffness



¹⁾ Long synchronous shaft LGW

- LF6 LGW = SW - 72
- LF12 LGW = SW - 101
- LF20 LGW = SW - 130

Diagram 2: Mass inertia

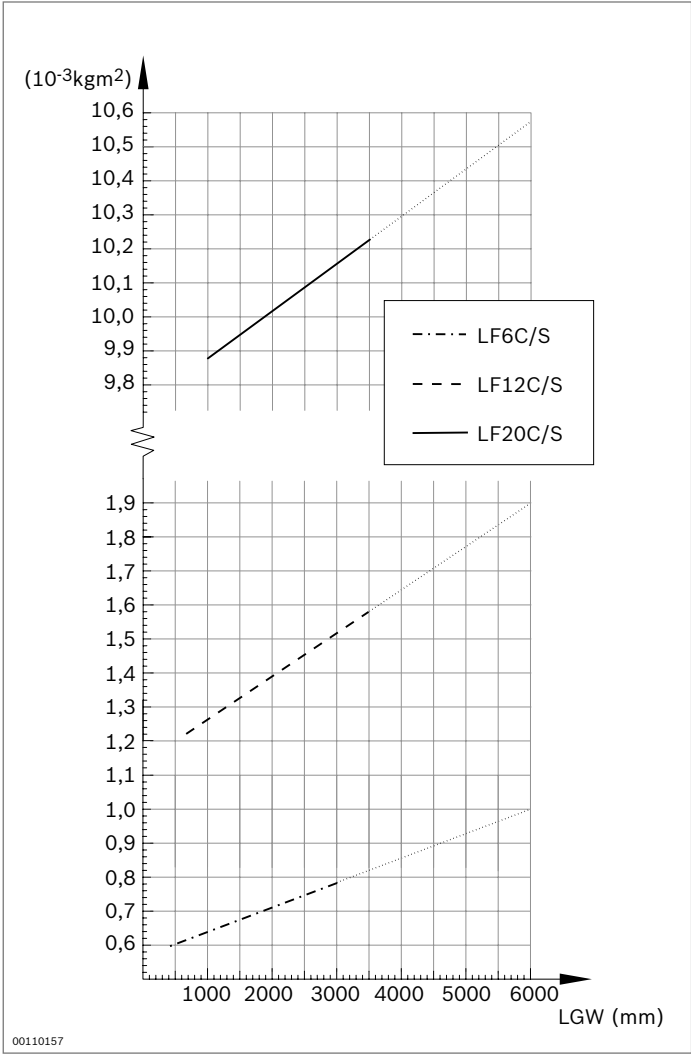


Diagram 3: Critical rpm nk due to bending

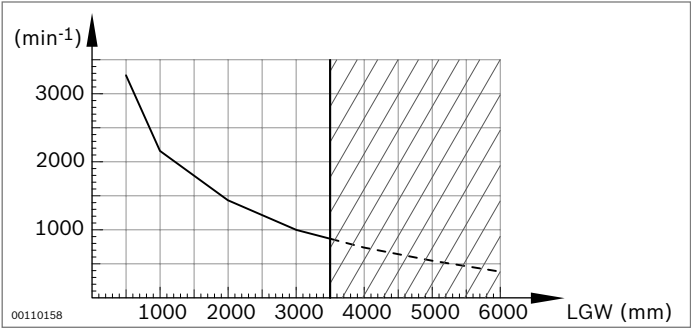
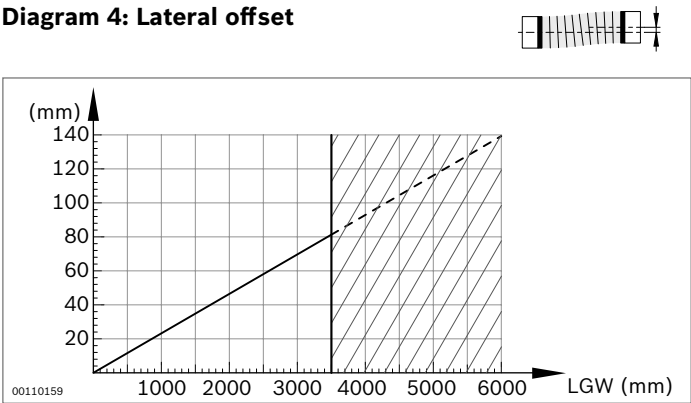
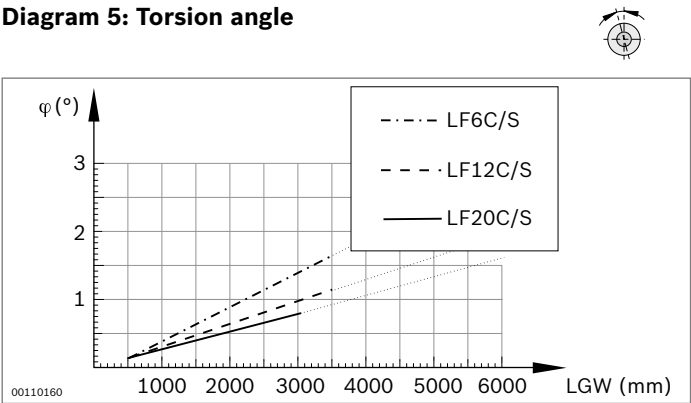


Diagram 4: Lateral offset



Aligned shafts are recommended.

Diagram 5: Torsion angle



Planning tool LF-MGE

Automation from a single source

Planning, implementation, commissioning and training – Rexroth offers you support in every project phase.

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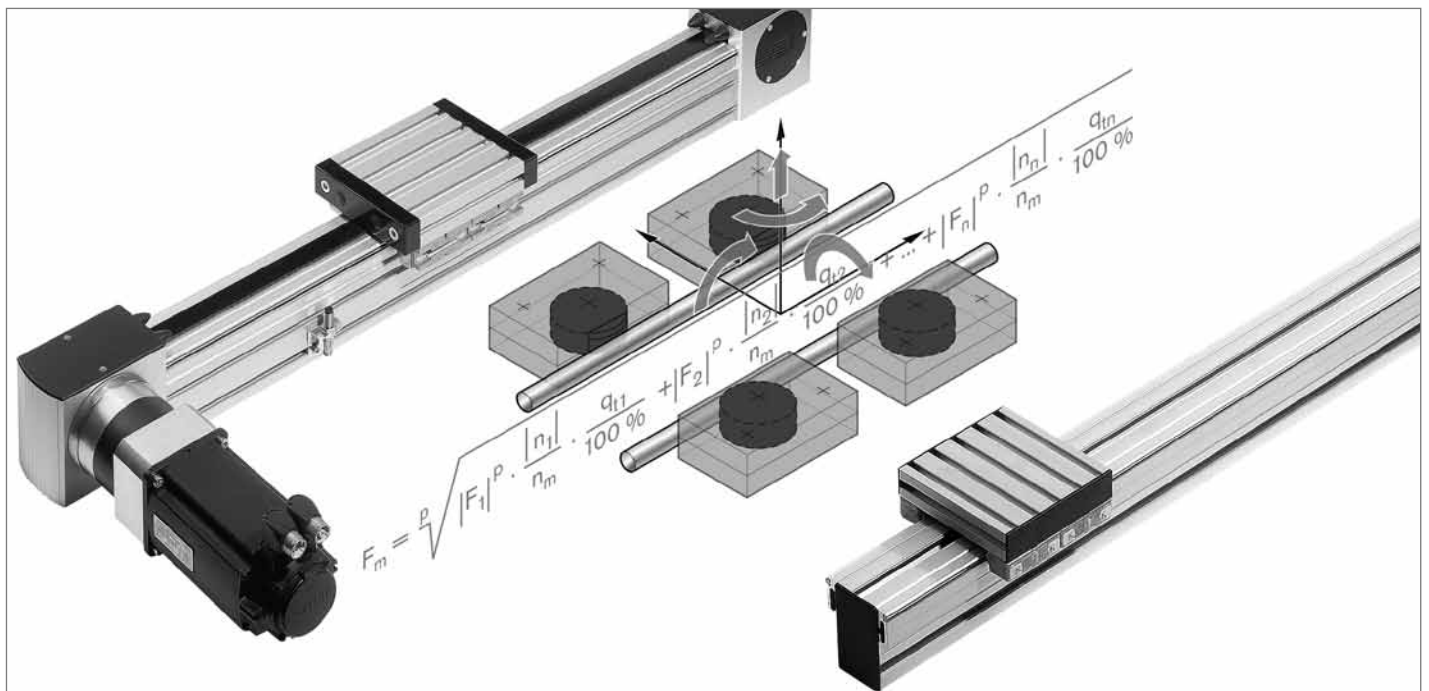
- ▶ Calculation of the service life of the individual guide bearings
- ▶ Combination of up to 16 guide bearings
- ▶ Dynamic movement sequence input
- ▶ Checking of the selected size
- ▶ Quick and easy design
- ▶ Clear displaying and documenting of results

Multilingual content and graphical user interface in 5 different languages (de/en/fr/it/es). The program can be run directly from the CD without separate installation.

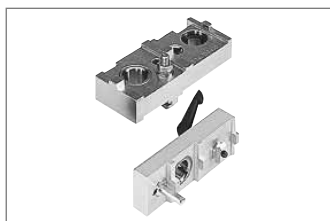
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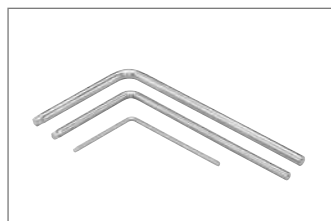
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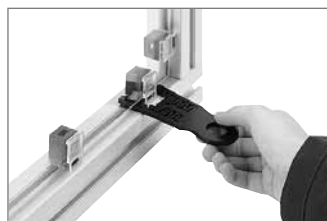
Tools



Drilling jigs (p. 14-2)



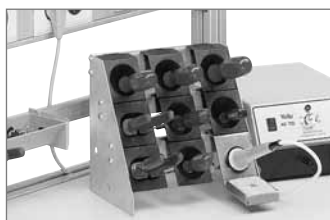
Offset screwdriver Torx®
(p. 14-6)



Variofix remover, flexible
grinder for anodized
surfaces (p. 14-7)



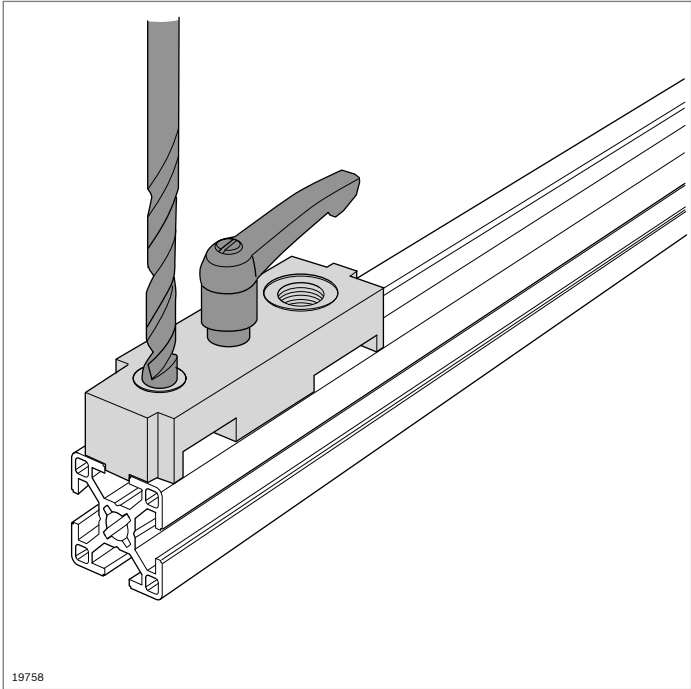
Beveling shears (p. 14-7)



Tool shelf, tool holder
(p.14-8)

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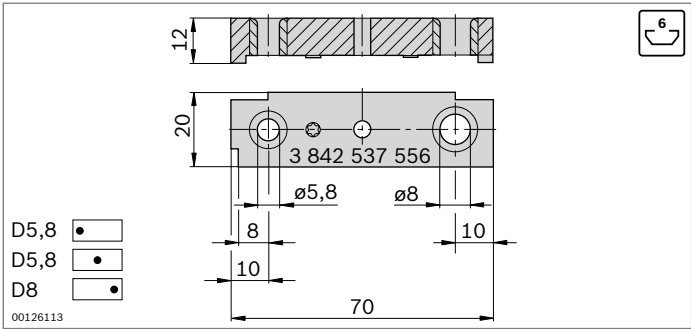
Robert Bosch GmbH
Geschäftsbereich Elektrowerkzeuge
PO Box 10 01 56
D-70745 Leinfelden-Echterdingen
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Drilling jigs



- For simple drilling of standard holes for the Rexroth range of connectors
- Stopping surfaces and edges for precise hole positioning
- Lockable



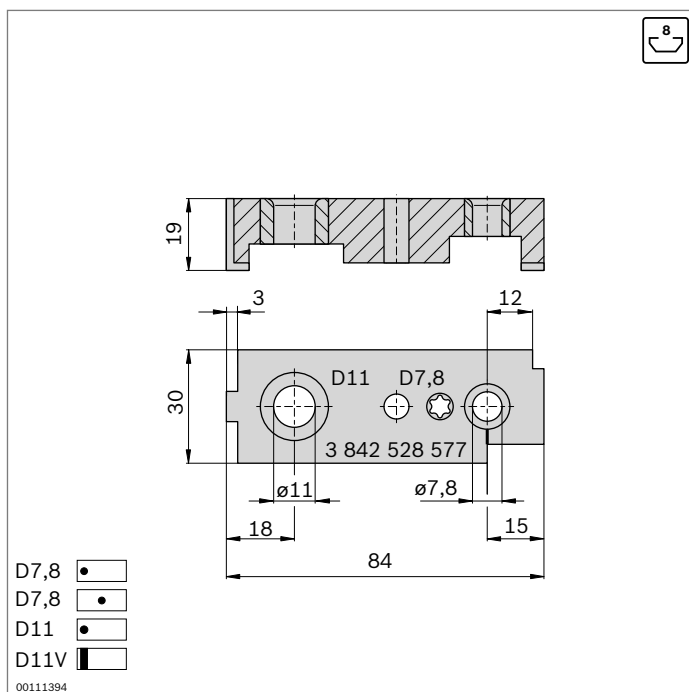
Drilling jigs – slot 6 mm

- For through-holes (ø 5.8) for hexagonal-star socket screwdrivers T25
- For fastening holes (ø 8) for quick connectors

Drilling jig	No.	FS
Slot 6 mm	3 842 537 556	FS1

Material: Aluminum
Scope of delivery: Incl. fastening material (FS)





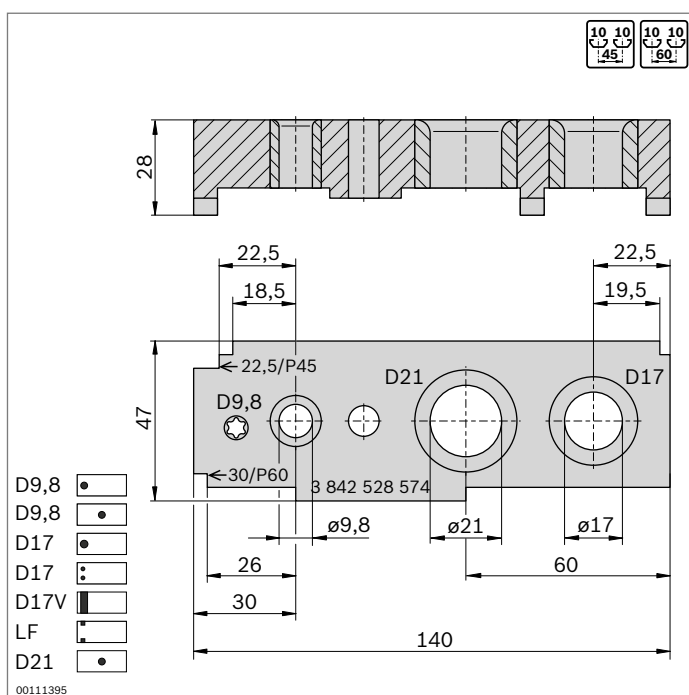
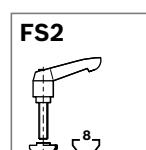
Drilling jigs – slot 8 mm

- For through-holes ($\varnothing 7.8$) for hexagonal-star socket screwdrivers T40
- For fastening holes ($\varnothing 11$) for quick connectors

Drilling jig	No.	FS
Slot 8 mm	3 842 528 577	FS2

Material: Steel; galvanized

Scope of delivery: Incl. fastening material (FS)



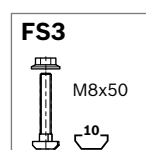
Drilling jigs – slot 10 mm, modular dimensions 45, 60

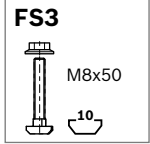
- For fastening holes ($\varnothing 17$) for bolt connectors, quick connectors, and threaded sleeves
- For through-holes ($\varnothing 9.8$) for hexagonal-star socket screwdrivers T50
- For counterbores ($\varnothing 21$) for pneumatic connections

Drilling jig	No.	FS
Slot 10 mm, modular dimensions 45, 60	3 842 528 574	FS3

Material: Steel; galvanized

Scope of delivery: Incl. fastening material (FS)

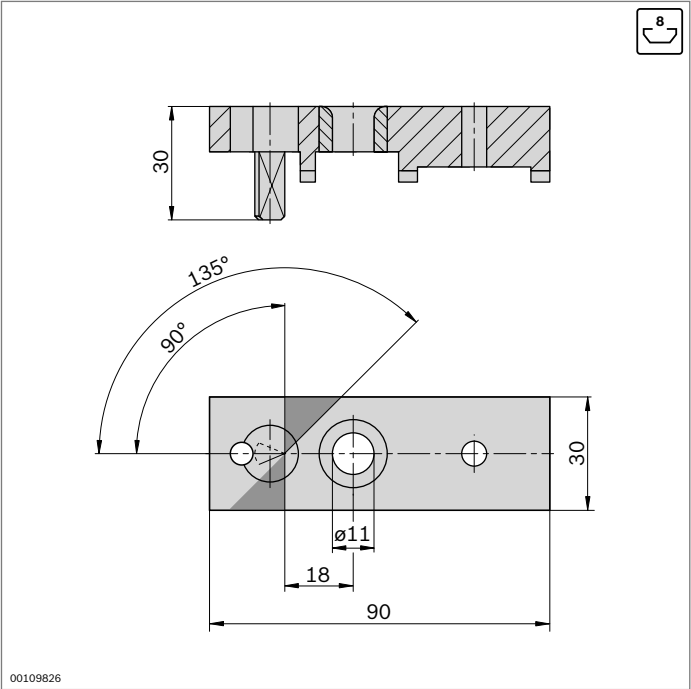




- For through-holes (ø 9.8) for hexagonal-star socket screwdrivers T50
- For fastening holes (ø 17) for bolt connectors, quick connectors, and threaded sleeves

Material:	Steel; galvanized
Scope of delivery:	Incl. fastening material (FS)

FS3

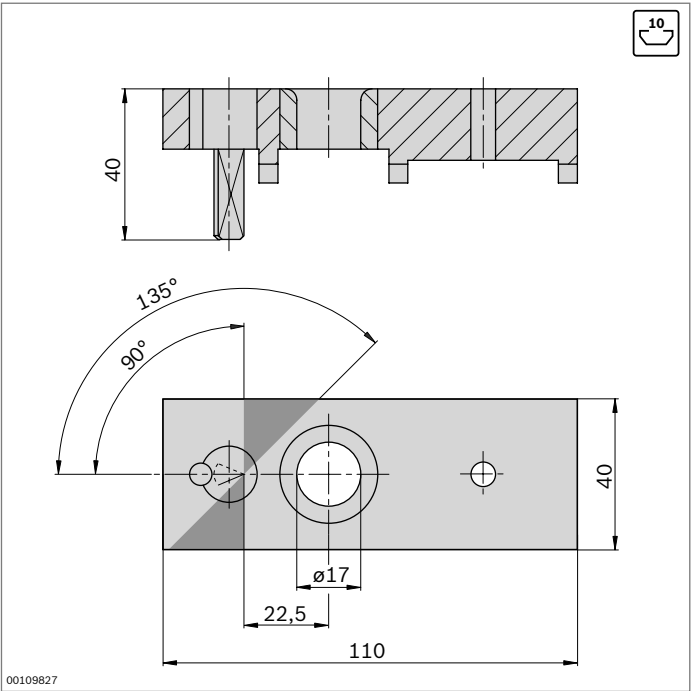
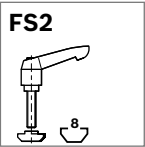


Drilling jig for diagonally sawn profiles – slot 8 mm

- For fastening holes (ø 11) for bendable quick connectors

Drilling jig	No.	FS
Slot 8 mm – diagonally sawn profiles	3 842 516 729	FS2

Material: Aluminum
Scope of delivery: Incl. fastening material (FS)
Also see bendable quick connector (p. 3-54)

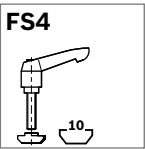


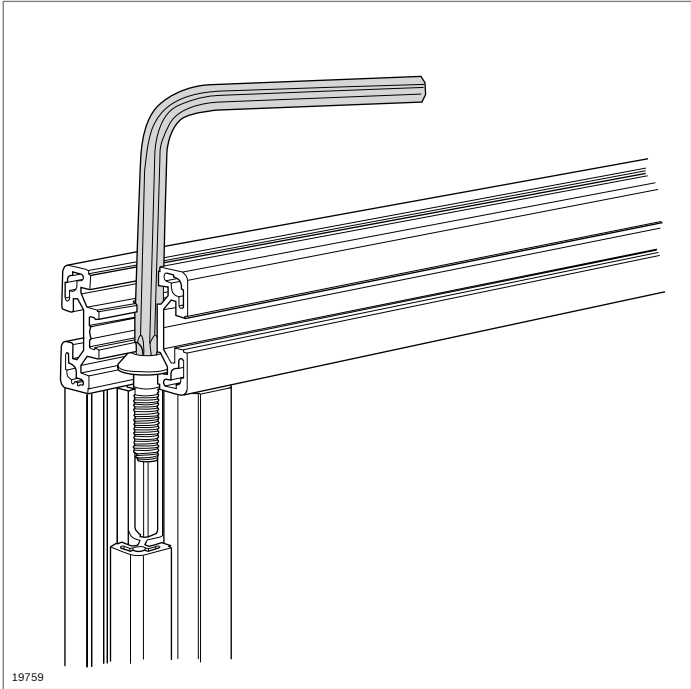
Drilling jig for diagonally sawn profiles – slot 10 mm

- For fastening holes (ø 17) for bendable quick connectors

Drilling jig	No.	FS
Slot 10 mm – diagonally sawn profiles	3 842 516 731	FS4

Material: Aluminum
Scope of delivery: Incl. fastening material (FS)
Also see bendable quick connector (p. 3-54)

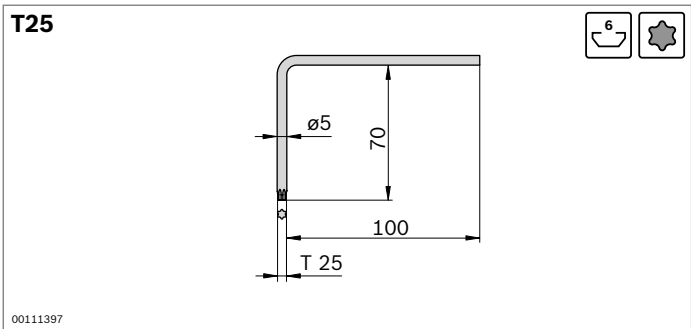




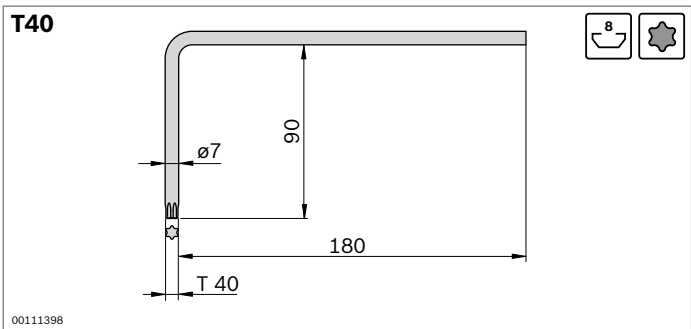
Offset screwdriver Torx®



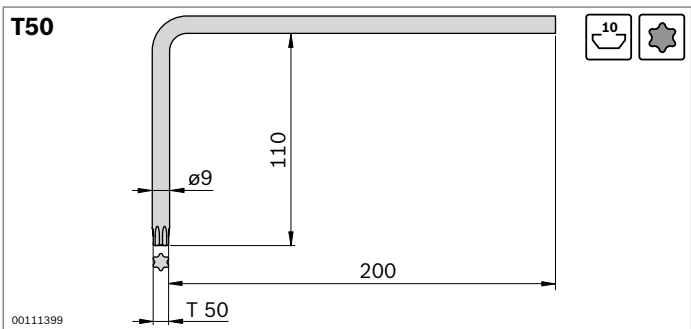
- Offset screwdriver for the central bolts (p. 3-38):
 - S6x16-**T25**
 - S8x25-**T40**
 - S12x30-**T50**, M12x30-**T50**
- Long shank for easy screw head access



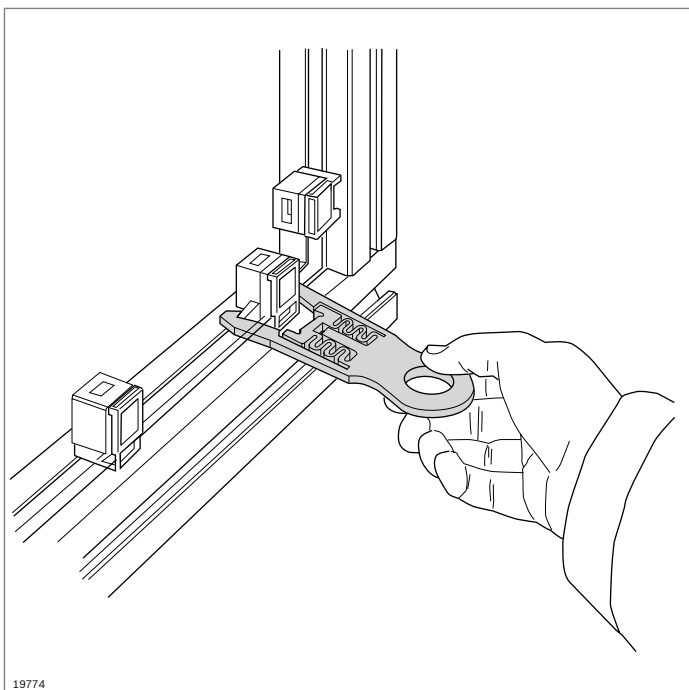
Offset screwdriver T25		No.
	5	3 842 528 590
Material:	Chrome vanadium steel	



Offset screwdriver T40		No.
	5	3 842 528 588
Material:	Chrome vanadium steel	



Offset screwdriver T50		No.
	5	3 842 528 586
Material:	Chrome vanadium steel	

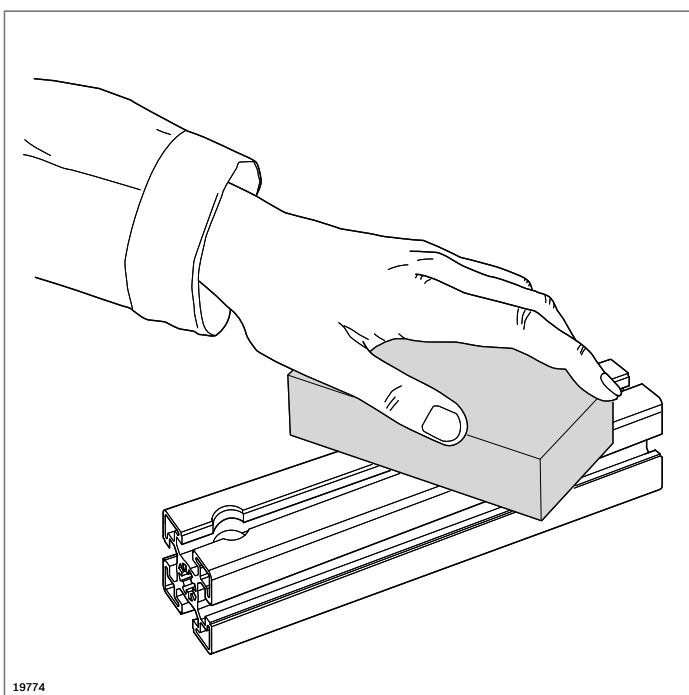


19774

Variofix remover

- For fast, easy removal of the Variofix snap-in clip (p. 7-6), even in hard-to-reach places
- The remover is pushed onto the snap-in clip of the Variofix block so that it spreads the teeth of the clip and can then be removed together with the clip

Variofix remover		No.
		10 3 842 526 589
Material:	PA	

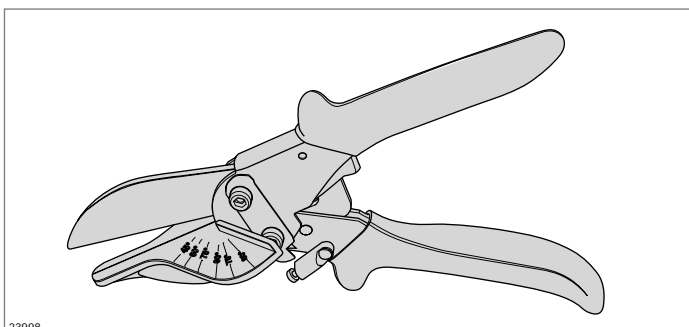


19774

Flexible grinder for anodized surfaces

- Hand grinder for removing light soiling and minor scratches
- Handy grindstone made of flexible base material containing abrasive agents
- Long service life thanks to automatic, continual surface renewal, like an eraser
- Suitable for all natural-colored, anodized surfaces, e.g. also for aluminum windows and doors

Flexible grinder for anodized surfaces		No.
		3 842 518 650
Material:	Silicon carbide 60% Polyurethane 40%	

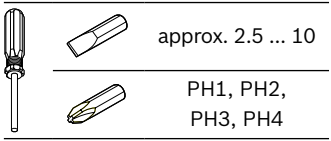
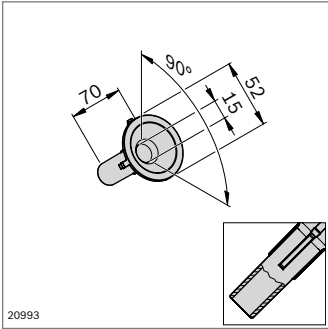
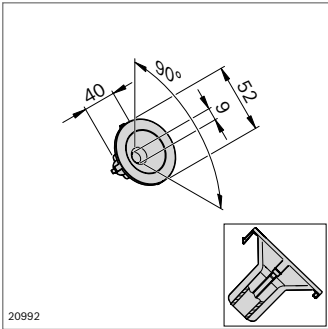
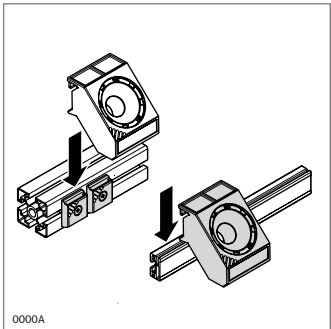
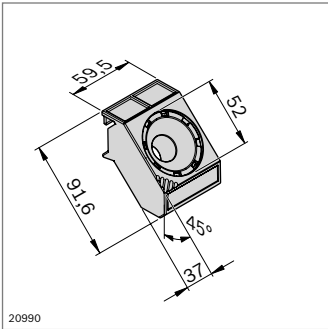
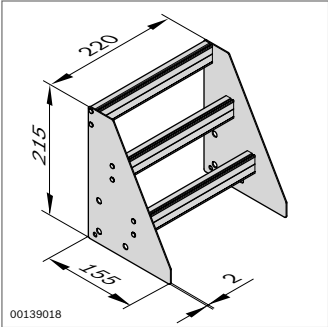
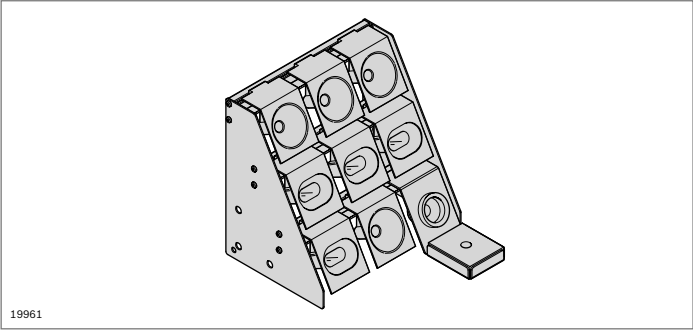


23998

Beveling shears

- For length-trimming of plastic profiles, e.g. slot cover profiles

Beveling shears		No.
		3 842 547 982



Tool shelf
Tool holder



- Tool shelf and tool holder for ergonomic and handy positioning of tools at the workstation
- Tool shelf can be individually equipped
- Accessories: Container mount (p. 2-59)

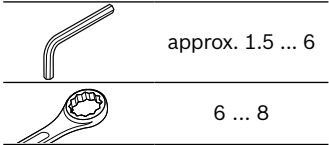
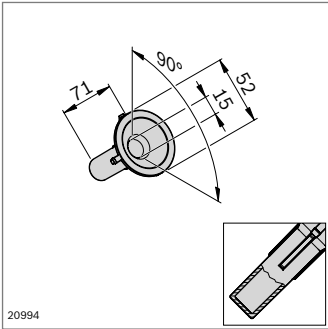
Tool shelf	ESD	No.
		3 842 514 519
Material:	Side parts: sheet aluminum Suspension profile: aluminum, anodized	

Tool holder D52 for bucket-trays D52-9 and D52-15

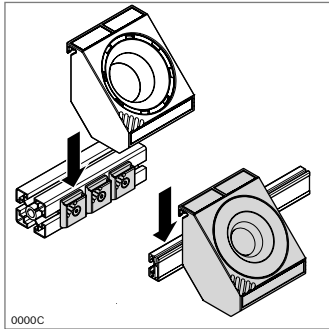
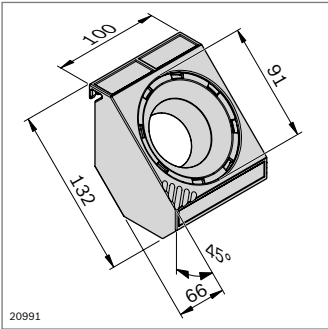
Tool holder D52	ESD	No.
		3 842 544 832

Bucket-tray D52-9 (open base)	ESD	No.
		3 842 544 834

Bucket-tray D52-15 (open base)	ESD	No.
		3 842 544 835

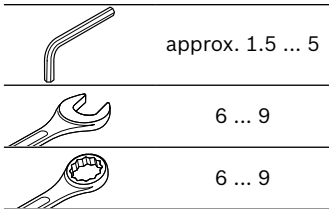
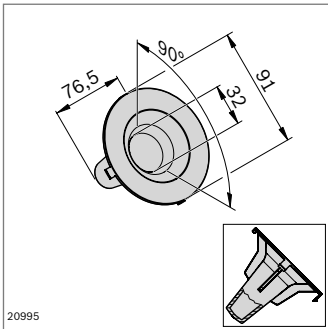


Bucket-tray D52-15 (closed base)	ESD	No.
		3 842 544 836

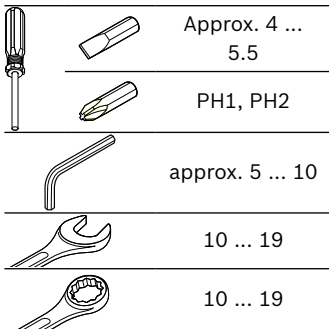
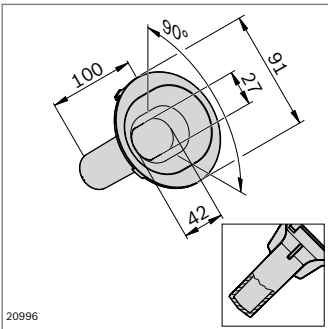


Tool holder D91 for bucket-trays D91-32, D91 Oval53 L100 and D91 Oval53 L136

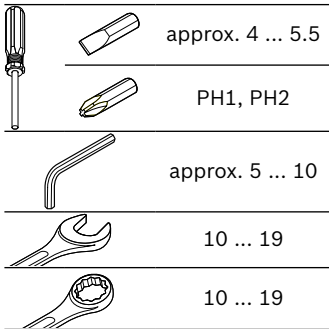
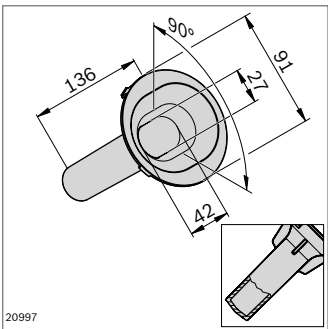
Tool holder D91	ESD	No.
		3 842 544 833



Bucket-tray D91-32 (closed base)	ESD	No.
		3 842 544 837



Bucket-tray D91 Oval53 L100 (closed base)	ESD	No.
		3 842 546 744



Bucket-tray D91 Oval53 L136 (closed base)	ESD	No.
		3 842 546 745

FiFo station



Guide rail (p. 15-2)



Adapter (p. 15-3)



Right end cap, small (p. 15-3)



Left end cap, small (p. 15-3)

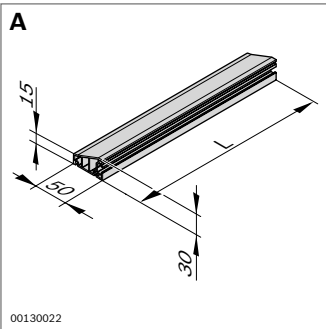
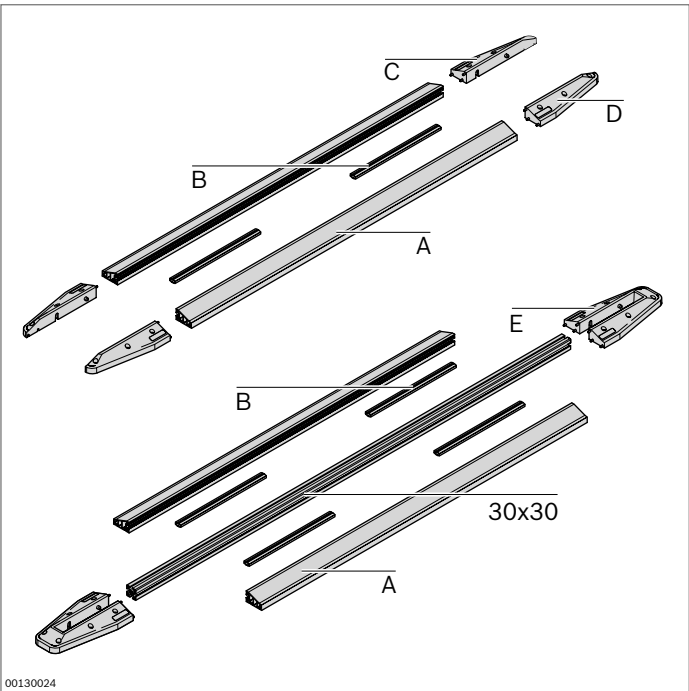


End cap, large (p. 15-3)



FiFo station

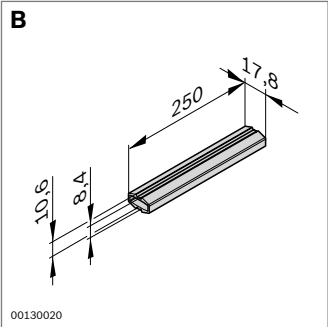
- Components for constructing a FiFo station for material shuttles
- Clearly organized and highly transparent production operations through having standardized delivery routes
- Modular system lets you adapt the layout to your needs and to your available space



- Adhesive strips for fastening to floor
- Screw fitting to floor possible at end caps

Guide rail	L (mm)	No.
A	1200	10 3 842 540 012
	2400	10 3 842 539 894

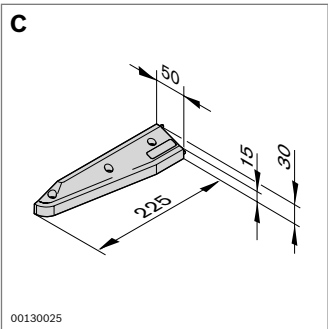
Material: PVC, yellow



- For the parallel connection of guide rails, or a guide rail with a 30x30 profile

Adapter		No.
B	20	3 842 539 898

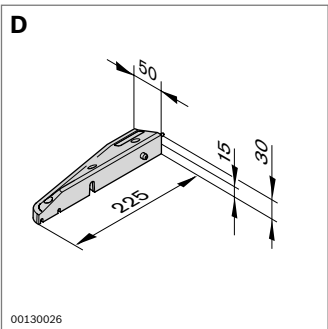
Material: PP



- For use as a jointing aid and for fastening the guide rails to the floor

Right-hand end cap, small		No.
C	10	3 842 539 895

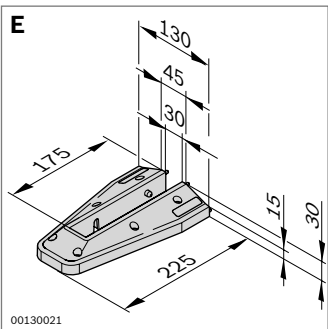
Material: PA 6; black



- For use as a jointing aid and for fastening the guide rails to the floor

Left-hand end cap, small		No.
D	10	3 842 539 896

Material: PA 6; black



- For installing a 30x30 profile between two guide rails
- The 30x30 profile can be used to construct flow rack systems, information boards, and height limits. Since the guide rails are flat-sided, setup can be done using a wide profile (40, 45, 50)

Required accessories:

- Profile 30x30 (p. 2-17)

End cap, large		No.
E	10	3 842 539 897

Material: PA 6; black

Components for lateral guides



Profile rails, slide rails
(p. 16-3)



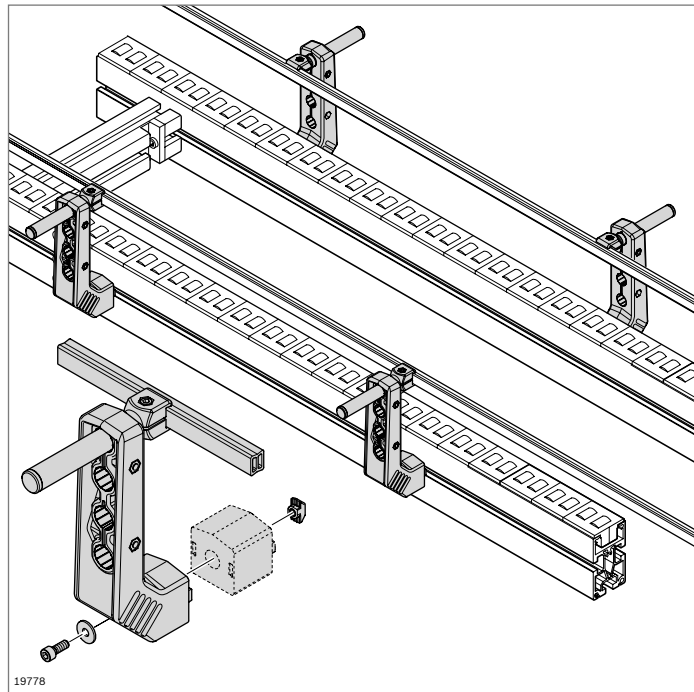
Holder, fixed (p. 16-6)



Holder, variable (p. 16-8)



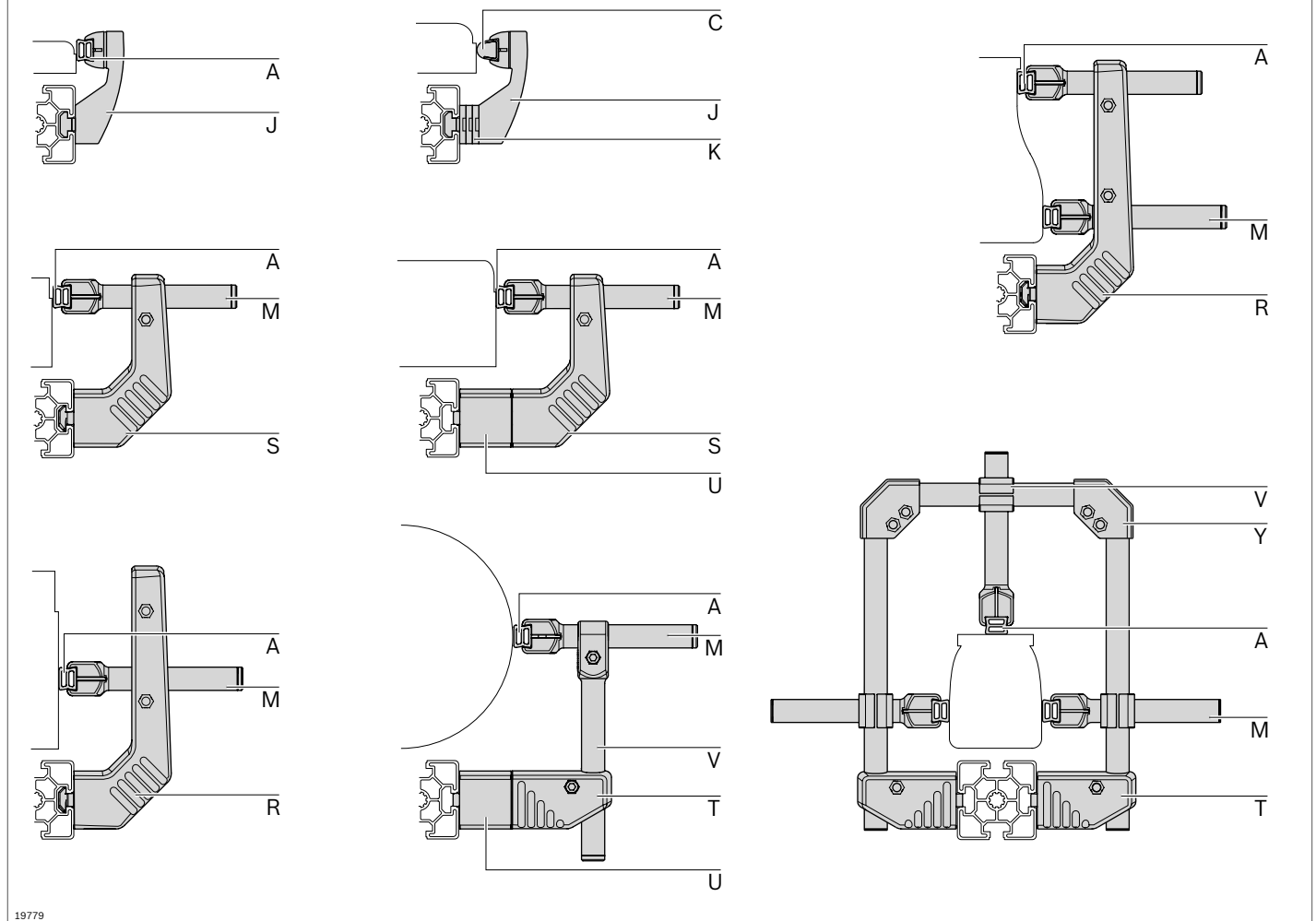
Clamping element (p. 16-13)

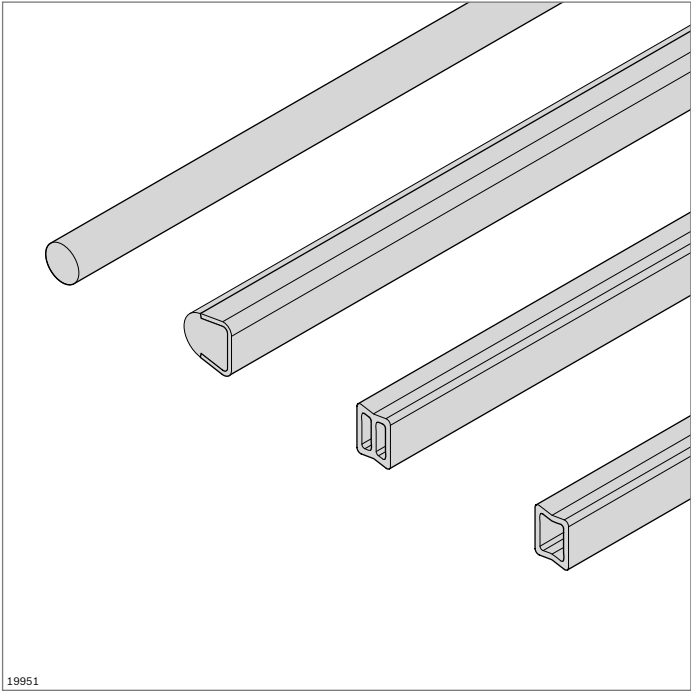


Components for lateral guides

- ▶ Wide variety of profile rail and holder combinations make customized solutions possible
- ▶ Easy to clean
- ▶ Sturdy
- ▶ Only one tool required for adjustment
- ▶ 10 mm slot interface

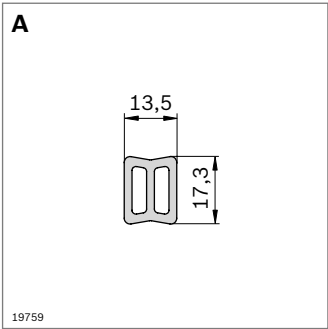
Mounting variants





Profile rails for lateral guides

- Profile rails for lateral guiding of the transported material
- Suitable for fixed lateral guide holders (p. 16-6), and variable lateral guide holders (p. 16-8)
- Various materials and geometries for different applications

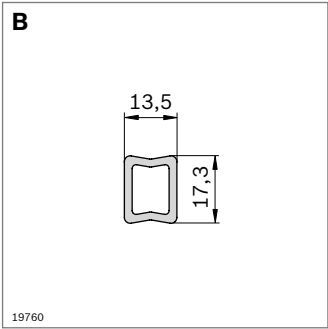


- Aluminum profile rail for robust lateral guides

Profile rail, aluminum		L (mm)	No.
1 pc		200 ... 3000	3 842 993 887 / L
 20 pcs		3000	3 842 538 829

Material: Aluminum, natural, anodized

Accessories: Narrow slide rail (**E**); high slide rail (**F**); outer profile connector (**G**); inner profile connector (**H**); cover cap (**I**); clamping holder C L100 (**M**); holder (**J**); clamping head (**L**); clamping head (**O**)

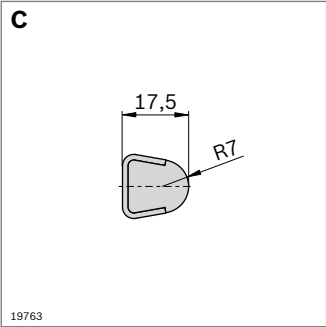


- HDPE profile rail for light applications
- Bendable

Profile rail HDPE		L (mm)	No.
1 pc		3000	3 842 538 388

Material: HDPE, gray

Accessories: Narrow slide rail (**E**); high slide rail (**F**); outer profile connector (**G**); inner profile connector (**H**); cover cap (**I**); clamping holder C L100 (**M**); holder (**J**); clamping head (**L**); clamping head (**O**)



- Profile rail 17x17.5, robust stainless steel version with PE guide for gentle product handling

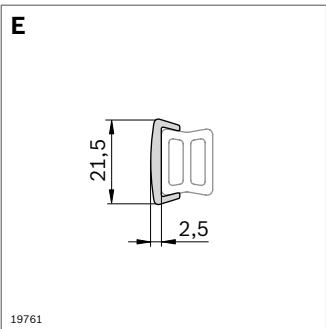
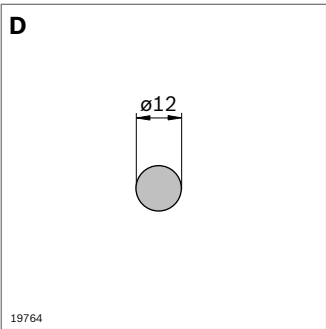
Profile rail 17x17.5		L (mm)	No.
1 pc		200 ... 3000	3 842 994 863 / L
20 pcs		3000	3 842 529 850

Material: Steel, stainless / PE, natural
Accessories: Outer profile connector (**G**); clamping holder C L100 (**M**); holder (**J**); clamping head (**L**); clamping head (**O**)

- Profile rail D12, robust stainless steel version

Profile rail D12		L (mm)	No.
1 pc		200 ... 3000	3 842 993 306 / L
6 pcs		3000	3 842 533 841

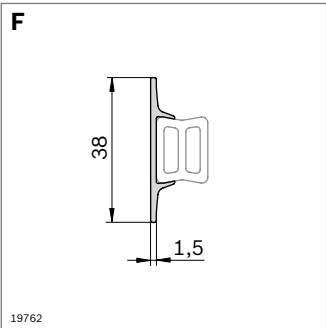
Material: Steel; stainless
Accessories: Clamping holder D12 L100 (**N**)



- Slide rail for clipping on to aluminum or HDPE profile rail
- For gentle product conveying and minimum wear of the HDPE profile rail

Slide rail, narrow	L (mm)	ESD	No.
	3000		3 842 538 209
	3000		3 842 539 340

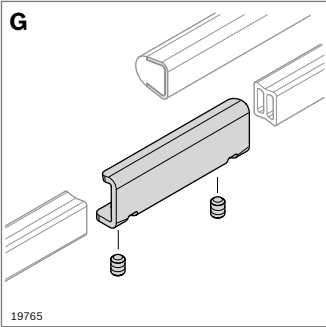
Material: HDPE, gray
ESD: PE-UHMW, conductive, black



- Slide rail for clipping on to aluminum or HDPE profile rail
- Wide guiding surface
- For gentle product conveying and minimum wear of the HDPE profile rail

Slide rail, high	L (mm)	No.
	3000	3 842 538 389

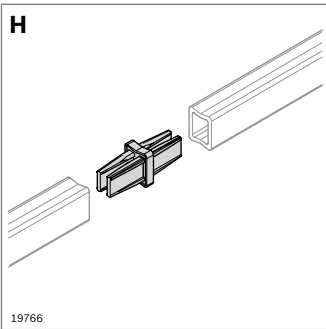
Material: HDPE, gray



- Outer profile connector for aluminum profile rails **(A)**, HDPE profile rail **(B)**, 17x17.5 profile rail **(C)**

Outer profile connector		No.
	10	3 842 539 613

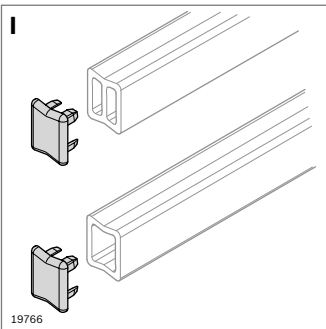
Material: Steel; stainless
Scope of delivery: Incl. 2 x grub screws



- Inner profile connector for aluminum profile rail **(A)**, HDPE profile rail **(B)**

Inner profile connector		No.
	10	3 842 539 345

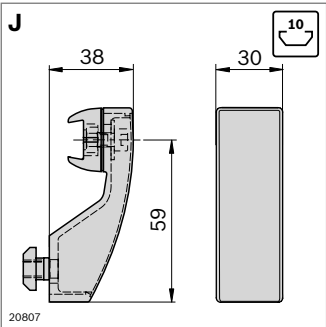
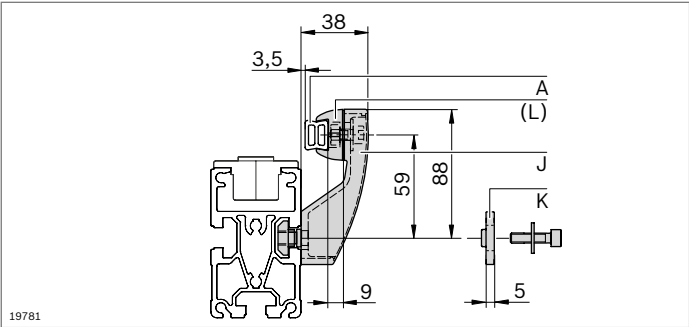
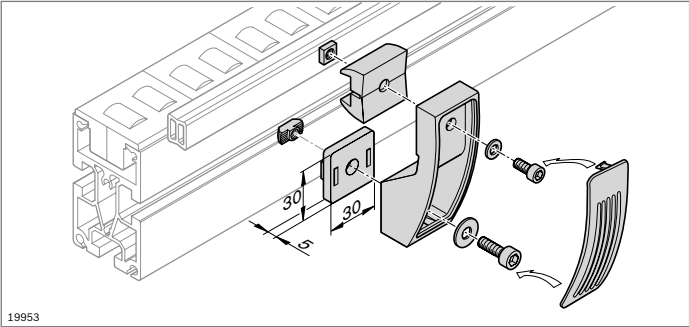
Material: PA, black; conductive



- Cover cap for aluminum profile rail **(A)**, HDPE profile rail **(B)**

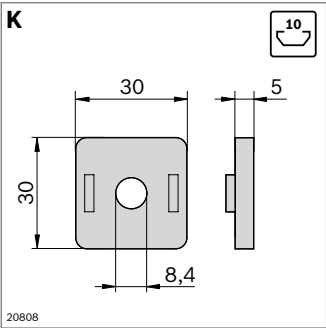
Cover cap		No.
	10	3 842 538 208

Material: PA, black; conductive



FS1

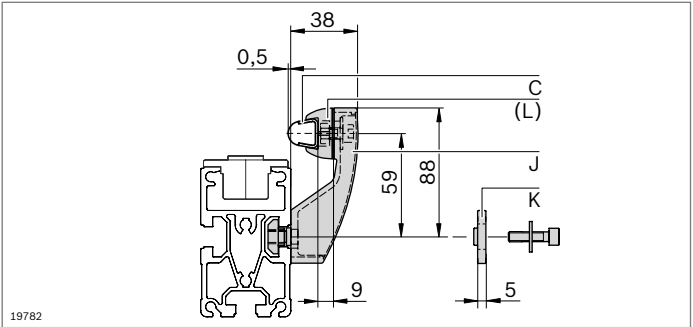
- ISO4762
- M8x16
- DIN 125
- A 8,4



Lateral guide holder, fixed



- Holder for lateral guides of fixed installation height and fixed guide width



- Holder, fixed, for aluminum profile rail (A), HDPE profile rail (B) and 17x17.5 profile rail (C)
- For fixed guide width
- Guide width increased through use of spacer plate (K)

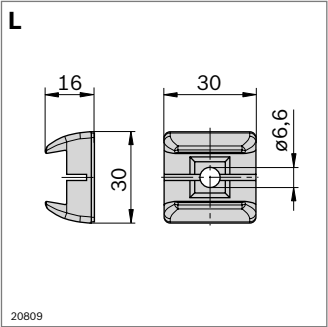
Holder, fixed	No.	FS
Set	3 842 527 851	FS1

Material: PA, black
Fastening material: steel; galvanized
Scope of delivery: Incl. clamping head, fastening material (FS)

- Spacer plate for fixed holders, for increasing guide width

Spacer plate	No.
10	3 842 527 738

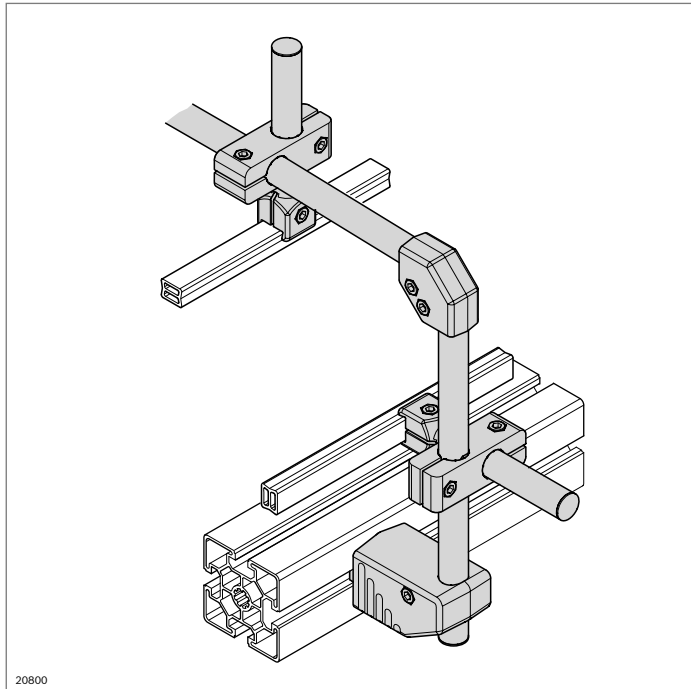
Material: PA; black



- Clamping head for on-site construction of supports for protruding transported material

Clamping head		No.	FS
Set	10	3 842 536 295	FS2

Material: PA, black
Fastening material: steel; galvanized
Scope of delivery: Incl. fastening material (FS)



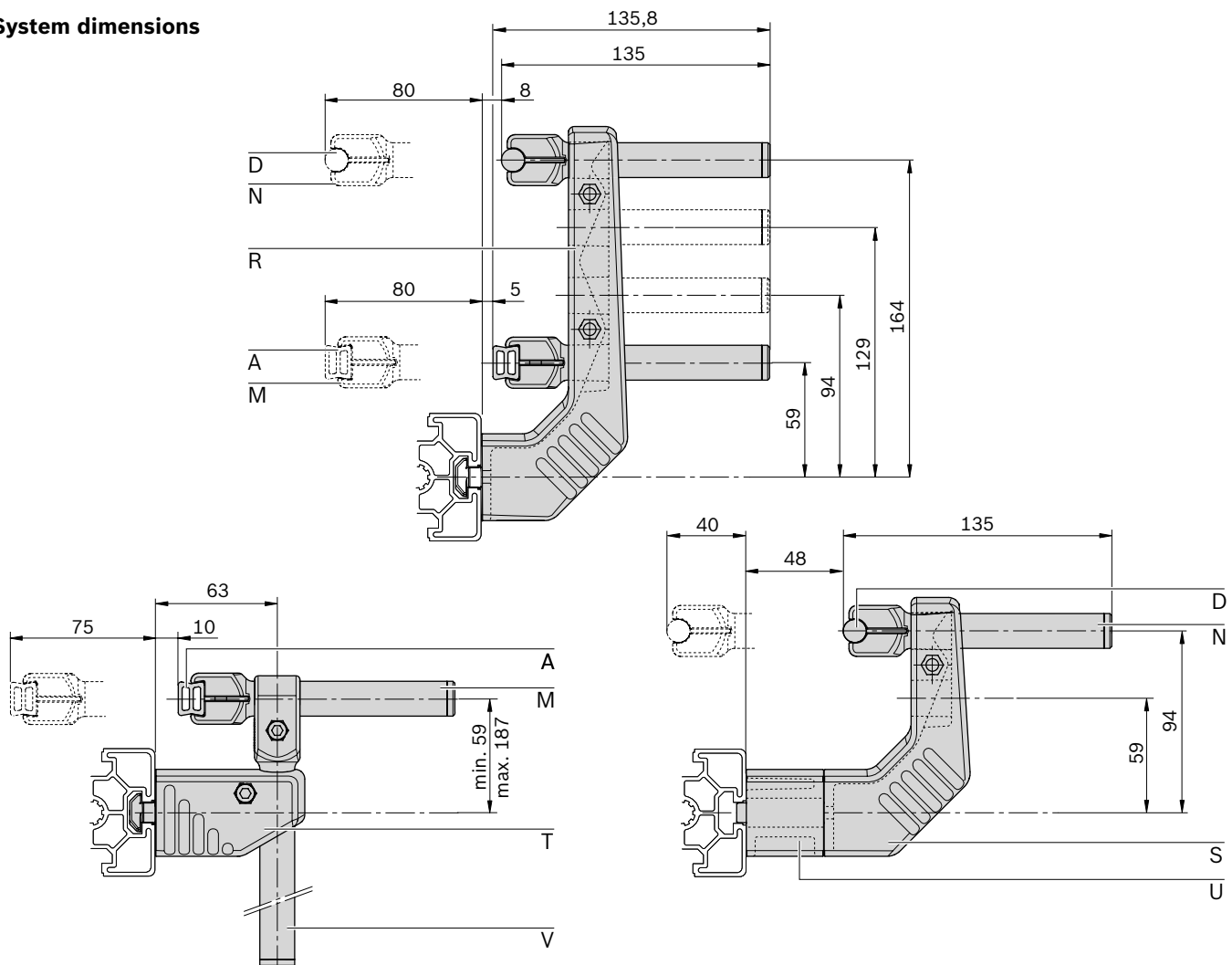
Lateral guide holder, variable

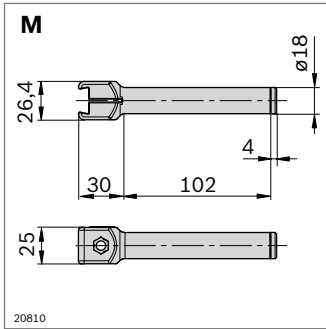


- Holders and clamping holders make variable adjustment of the guide height and width possible
- Easy to clean

Note: For stability in the direction of rotation, at least 2 holders must be connected with a continuous profile rail.

System dimensions



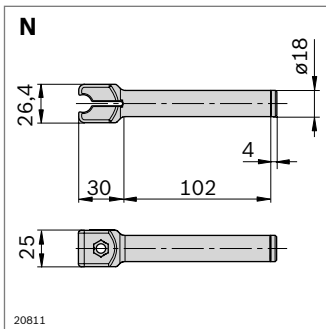


- Clamping holder C L100 for supporting aluminum **(A)**, HDPE **(B)** or 17x17.5 **(C)** profile rails
- Scaling in mm and inches for simple alignment

Clamping holder C L100		No.
	10	3 842 539 499

Material: Clamping holder: PA; black
Nut, bolt: steel; stainless

Accessories: Plug **(X)**

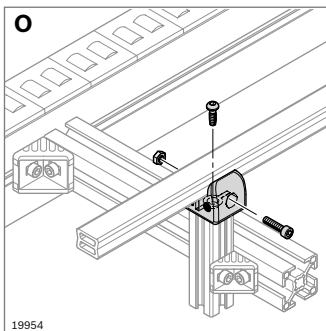


- Clamping holder D12 for supporting profile rails D12 **(D)**
- Scaling in mm and inches for simple alignment

Clamping holder D12 L100		No.
	10	3 842 539 498

Material: Clamping holder: PA; black
Nut, bolt: steel; stainless

Accessories: Plug **(Z)**



FS1

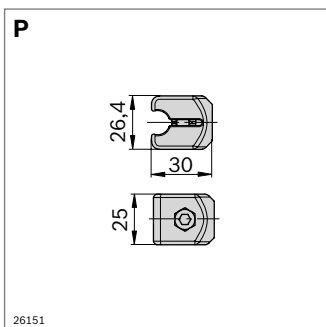
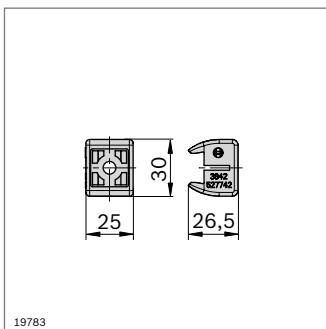


- Clamping head for supporting aluminum **(A)**, HDPE **(B)** profile rails, or stainless steel profile rails with PE guide **(C)**
- Direct mounting on profiles with 10 mm slot

Clamping head		No.	FS
Set	10	3 842 528 009	FS1

Material: Clamping holder: PA, black
Fastening material: steel; galvanized

Scope of delivery: Incl. fastening material (FS)

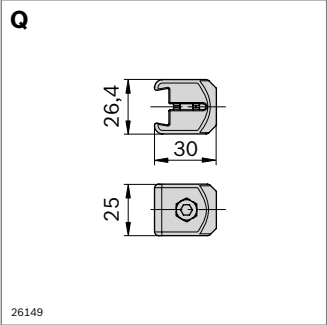


- Clamping holder D12 for supporting profile rails D12 **(D)**
- In conjunction with tube 18 **(W)** for constructing longer clamping holders

Clamping holder D12		No.
P	10	3 842 547 227

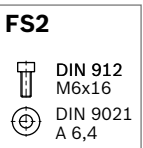
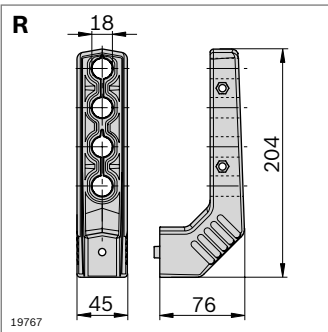
Material: Clamping holder: PA; black
Nut, bolt: steel; stainless

Accessories: Plug **(Z)**, tube D18 **(W)**



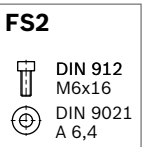
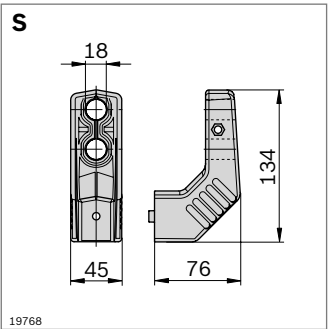
- ▶ Clamping holder C for supporting aluminum **(A)**, HDPE **(B)** or 17x17.5 **(C)** profile rails
- ▶ In conjunction with tube 18 **(W)** for constructing longer clamping holders

Clamping holder C		No.
N		10 3 842 547 228
Material:	Clamping holder: PA; black Nut, bolt: steel; stainless	
Accessories:	Plug (Z) , tube D18 (W)	



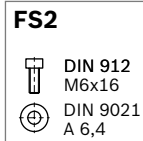
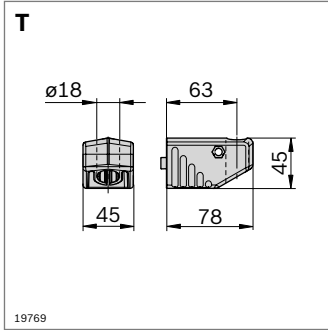
- ▶ Holder for fastening clamping holders C L100 **(M)** or D12 L100 **(N)**
- ▶ Various installation heights possible for clamping holders
- ▶ Variable guide widths possible
- ▶ Use spacer (S) for added enlargement of guide width **(U)**

Holder L204	No.	FS
Set	3 842 539 494	FS2
Material:	PA, black Fastening material: steel; stainless	
Scope of delivery:	Incl. fastening material (FS)	
Accessories:	T-nut M6, 10 mm slot (p. 3-4) Spacer (U)	



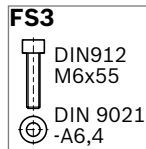
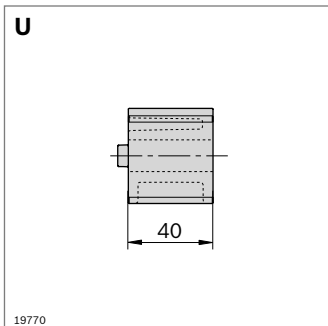
- ▶ Holder for fastening clamping holders C L100 **(M)** or D12 L100 **(N)**
- ▶ Various installation heights possible for clamping holders
- ▶ Variable guide widths possible
- ▶ Use spacer (S) for added enlargement of guide width **(U)**

Holder L134	No.	FS
Set	3 842 539 495	FS2
Material:	PA, black Fastening material: steel; stainless	
Scope of delivery:	Incl. fastening material (FS)	
Accessories:	T-nut M6, 10 mm slot (p. 3-4) Spacer (U)	

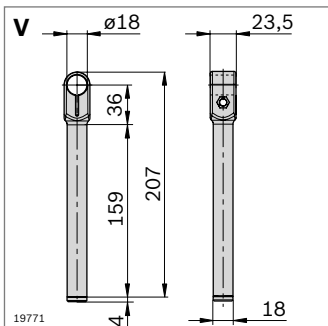


- Holder L45 for fastening vertical clamping holders or tube D18 (**W**)
- For infinitely height-adjustable lateral guides
- Guide width increased by using the spacer (**U**)

Holder L45		No.	FS
Set	10	3 842 539 496	FS2
Material:	PA, black		
	Fastening material: steel; stainless		
Scope of delivery:	incl. fastening material (FS)		
Accessories:	T-nut M6, 10 mm slot (p. 3-4)		
	Spacer (U)		

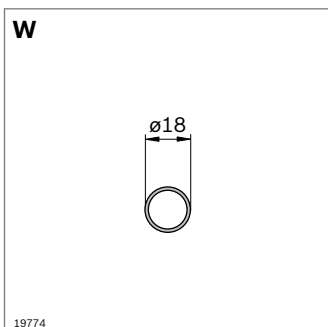


Spacer		No.	FS
Set	10	3 842 539 497	FS3
Material:	PA, black		
	Fastening material: steel; stainless		
Scope of delivery:	Incl. fastening material (FS)		



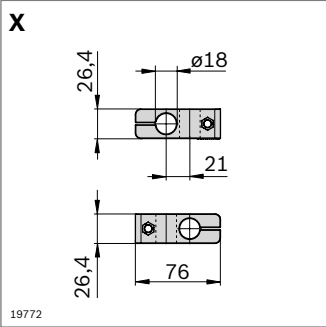
- Vertical clamping holder for constructing height-adjustable guides

Vertical clamping holder D18 L160		No.
	10	3 842 539 500
Material:	PA, black	
	Nut, screw: steel; stainless	
Accessories:	Plug (Z)	



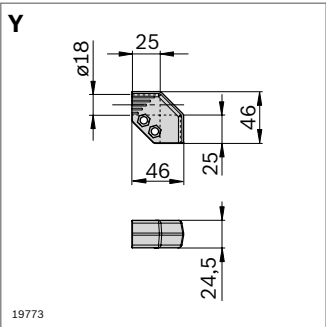
- Tube D18 for the construction of height-adjustable vertical holders or cross members for upper guides

Tube D18	L (mm)	No.
	3000	3 842 539 339
Material:	Stainless steel	
Accessories:	Plug (Z)	



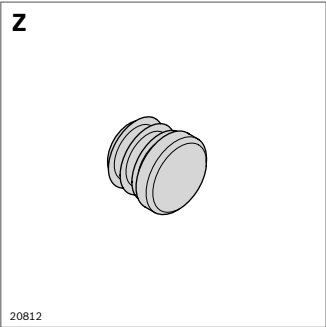
- Crosspiece for intersecting, perpendicular connections of tubes D18 **(W)** and clamping holders C L100 **(M)** or D12 L100 **(N)**

Crosspiece		No.
	10	3 842 539 501
Material:	Crosspiece: PA, black Nut, screw: steel; stainless	



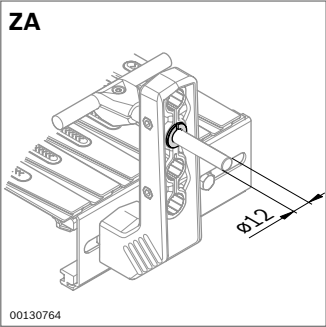
- Corner piece for end-to-end, perpendicular connections of tubes D18 **(W)** and clamping holders C L100 **(M)** or D12 L100 **(N)**

Corner piece		No.
	10	3 842 539 505
Material:	Corner piece: PA, black Nut, screw: steel; stainless	



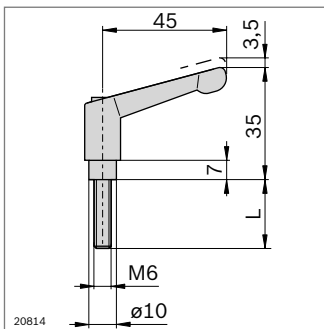
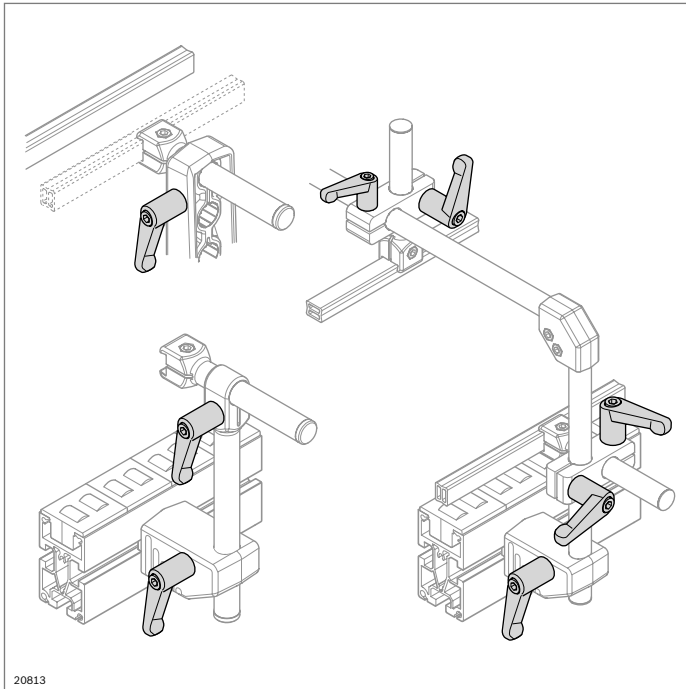
- Plug for sealing clamping holder C L100, **(M)**, clamping holder D12 L100 **(N)**, vertical clamping holder D18 L160 **(V)** or tube D18 **(W)**

Plug		No.
	10	3 842 539 826
Material:	PA; black	



- Reducing adapter for accommodating round profiles Ø 12 in D18 mountings

Reduction piece		No.
	20	3 842 539 344
Material:	PA; black	



Clamping lever

- For easy adjustment of lateral guide holders
- Clamping lever M6x25 for crosspiece
- Clamping lever M6x40 for holder

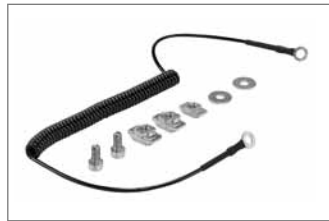
Clamping lever	L (mm)	No.
M6x25	25	3 842 528 540
M6x40	40	3 842 528 539

Material: Lever: diecast zinc; black plastic coated
Screws: steel, galvanized and black chrome-plated

Components for ESD applications



Set of grounding components (p. 17-2)



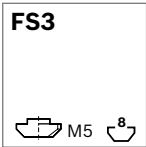
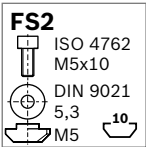
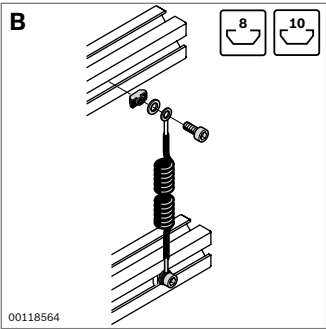
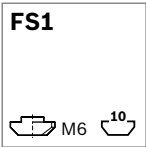
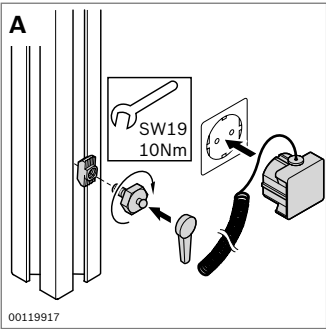
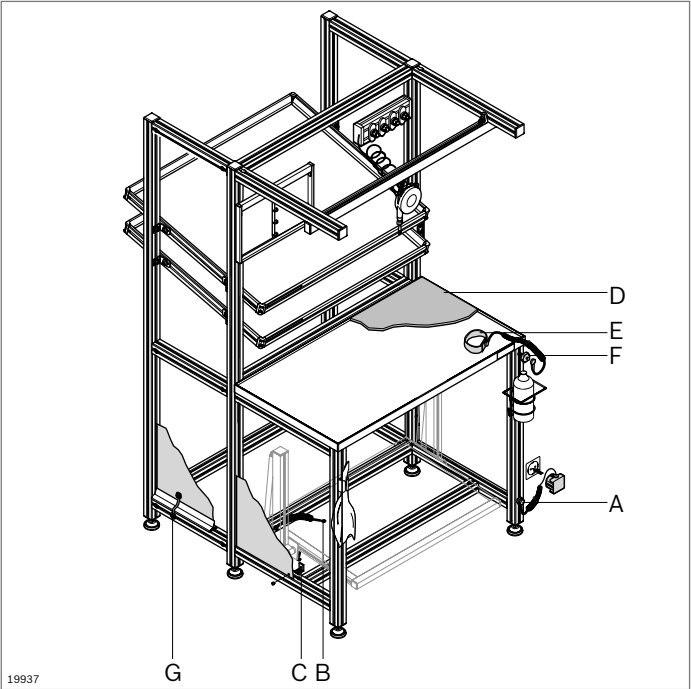
Grounding cable (p. 17-2)



Potential fix (p. 17-3)



Wrist band, connection piece (p. 17-3)



Components for ESD applications



ESD – Electro Static Discharge

Components which, due to their electrical properties and inner structure, are damaged or destroyed by static discharge also cause economic losses running into millions of euros each year.

You can use Rexroth components for ESD applications to protect your products from this type of damage.

Look for the ESD mark when selecting products (⚡).

- Set of grounding components for defined grounding of ESD workstations
- Conduction resistance $R_A = 1 \times 10^6 \Omega$ (DIN EN 61340-5-1)

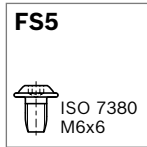
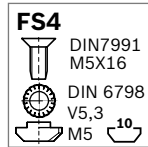
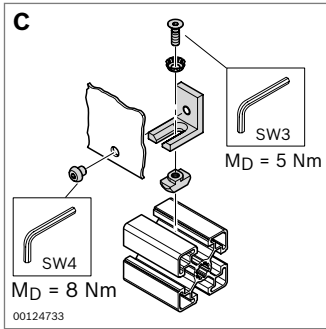
Accessories:

Damping ring or damping plate for insulation from conductive floors makes defined conduction possible (p. 6-4, 6-6)

Set of grounding components	ESD	No.	FS
A	⚡	3 842 522 087	FS1
Material: Fastening material: steel; galvanized			
Scope of delivery: Incl. fastening material (FS)			

- Grounding cable to create defined conductive paths between strut profiles in order to protect ESD-sensitive components

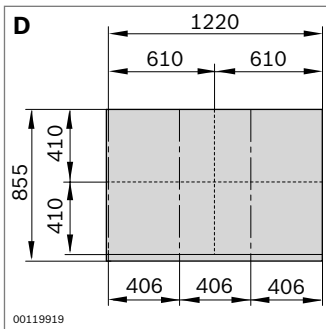
Grounding cable	ESD	No.	FS
B	⚡	3 842 519 465	2xFS2, FS3
Material: Fastening material: steel; galvanized			
Scope of delivery: Incl. fastening material (FS)			



- Potential fix for defined grounding of surface elements such as side panels

Potentialfix	ESD	No.	FS
C		3 842 536 320	FS4, FS5

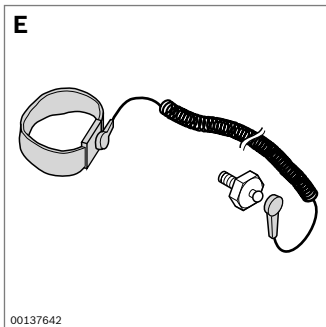
Material: Bracket: aluminum
Fastening material: steel; galvanized
Scope of delivery: Incl. fastening material (FS)



- ESD mat insert for protecting ESD-sensitive components
- To create a safe, conductive connection, e.g. to ESD material shelves, we recommend using adhesive copper tape
- Conduction resistance $R_A = 1 \times 10^6 - 1 \times 10^9 \Omega$ according to DIN EN 61340-5-1

ESD mat insert	ESD	No.
D 1220 mm x 855 mm		3 842 522 012

Material: Rubber (thickness: 2 mm)



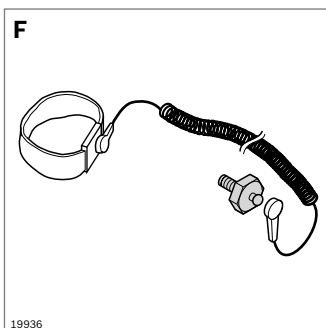
- Wrist band for defined grounding of people and protection of ESD-sensitive components

Accessories, required:

- connection piece
- T-nut M6, or sliding block, swivel-in with spring, M6

Wrist band	ESD	No.
E		3 842 516 908

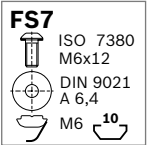
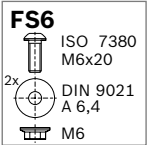
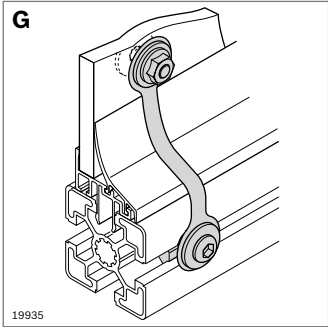
Material: Textile with woven-in conductive plastic, navy blue



- Connection piece for connecting the wrist band to the profile construction

Connection piece	ESD	No.
F		3 842 516 905

Material: Steel; galvanized



► Potential equalizer for creating electrostatic conduction between surface elements and strut profiles

Potential equalizer	ESD		No.	FS
G		10	3 842 536 148	FS6, FS7

Material: Strip steel, stainless
Fastening material: steel; galvanized
Scope of delivery: Incl. fastening material (FS)

Proximity switches and switch brackets



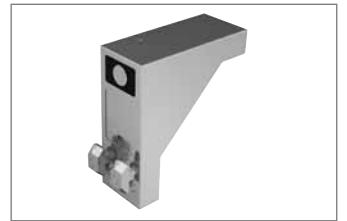
SH 1/S (p. 18-2)



SH 1/U (p. 18-3)



SH 2/S, SH 2/ST (p. 18-4)



SH 2/S-H (p. 18-5)



SH 2/U (p. 18-7)



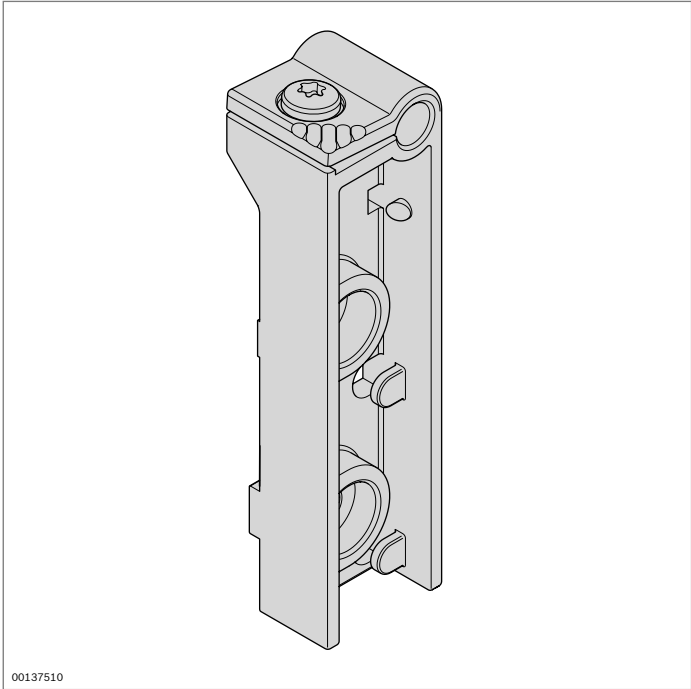
SH 2/U-H (p. 18-7)



Proximity switch (p. 18-8)



Stop (p. 18-10)

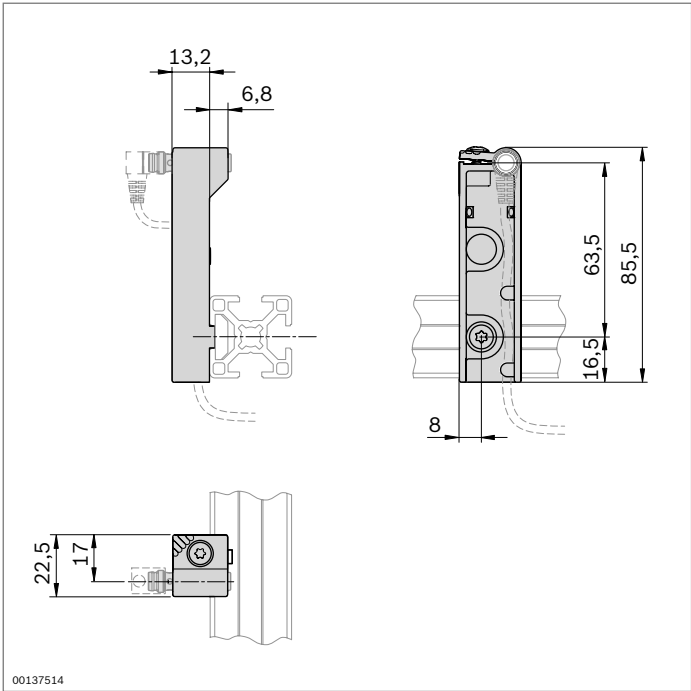


Switch bracket SH 1/S



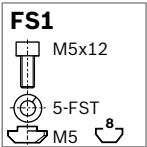
► For fastening a proximity switch Ø 6.5 mm

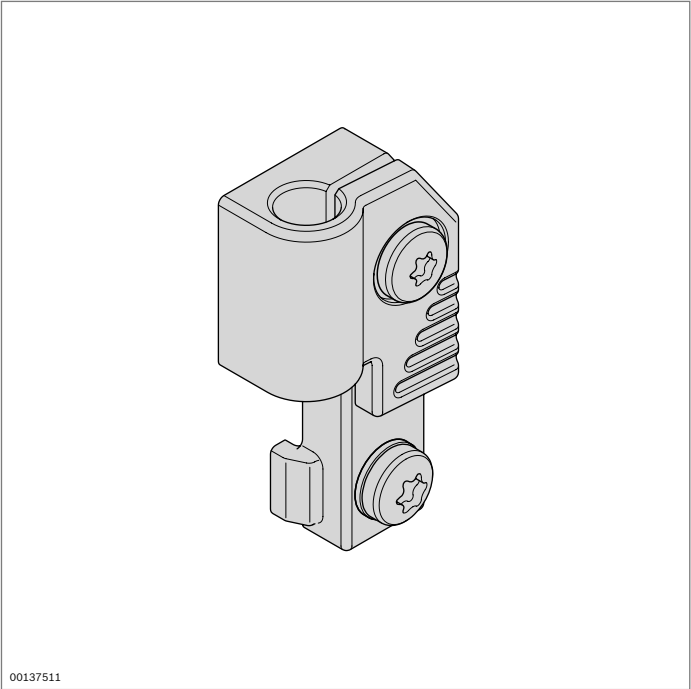
Accessories, required:
proximity switch Ø 6.5 mm (p. 18-8)



Switch bracket	ESD	No.	FS
SH 1/S		3 842 542 556	FS1

Material: SH 1/S: PE 6.6, black
Fastening material: steel; galvanized
Scope of delivery: Incl. fastening material (FS)



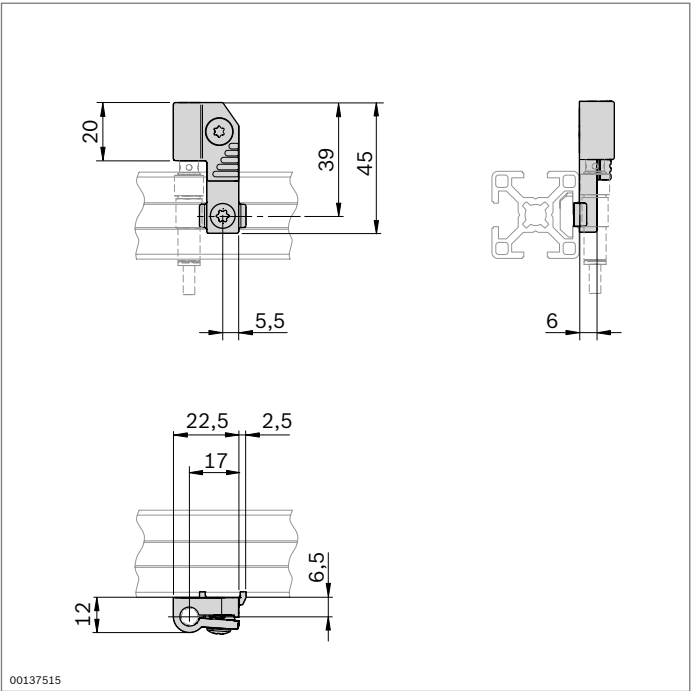


Switch bracket SH 1/U



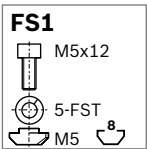
► For fastening a proximity switch Ø 6.5 mm

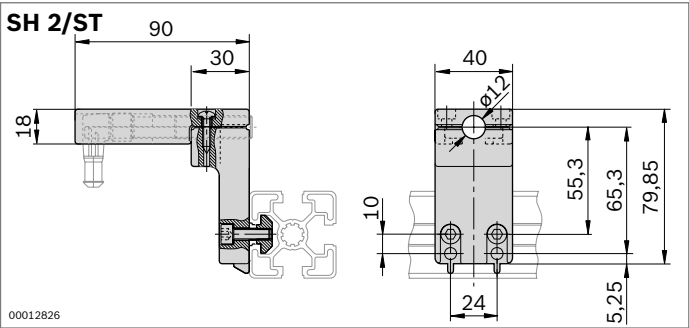
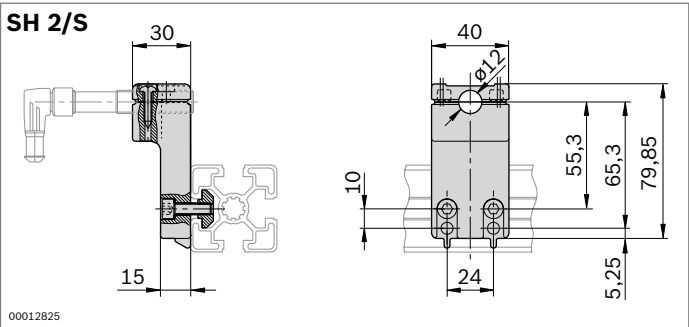
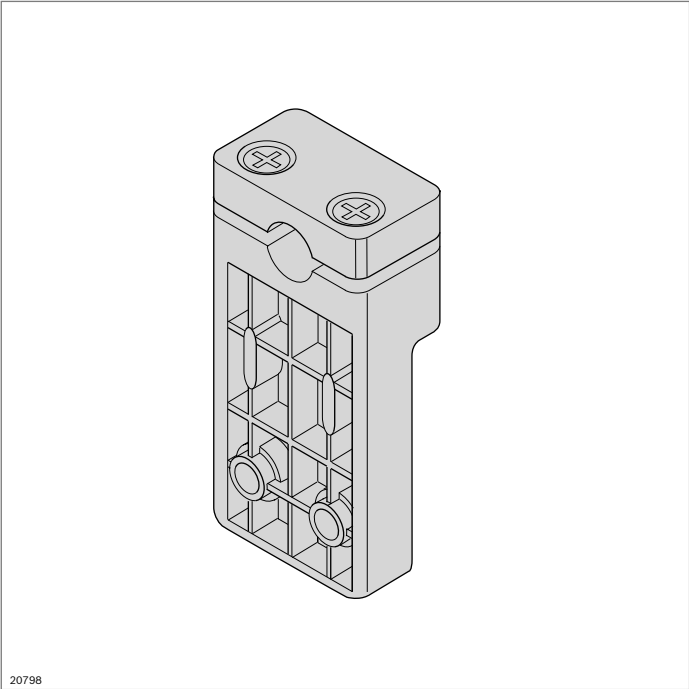
Accessories, required:
proximity switch Ø 6.5 mm (p. 18-8)



Switch bracket	ESD No.	FS
SH 1/U	 3 842 542 555	FS1

Material: SH 1/U: PE 6.6, black
Fastening material: steel; galvanized
Scope of delivery: Incl. fastening material (FS)





Switch bracket SH 2/S, SH 2/ST



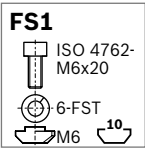
- For fastening a proximity switch M12x50
- SH 2/ST: switch cover to protect switches and cables

Accessories, required:
proximity switch M12x50 (p. 18-9)

Switch bracket	No.	FS
SH 2/S	3 842 168 830	2xFS1

Material: Housing: PA6, black
Switch cover (30 mm): PA6, black
Fastening material: steel; galvanized

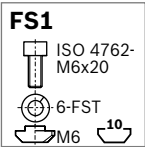
Scope of delivery: Incl. fastening material (FS)

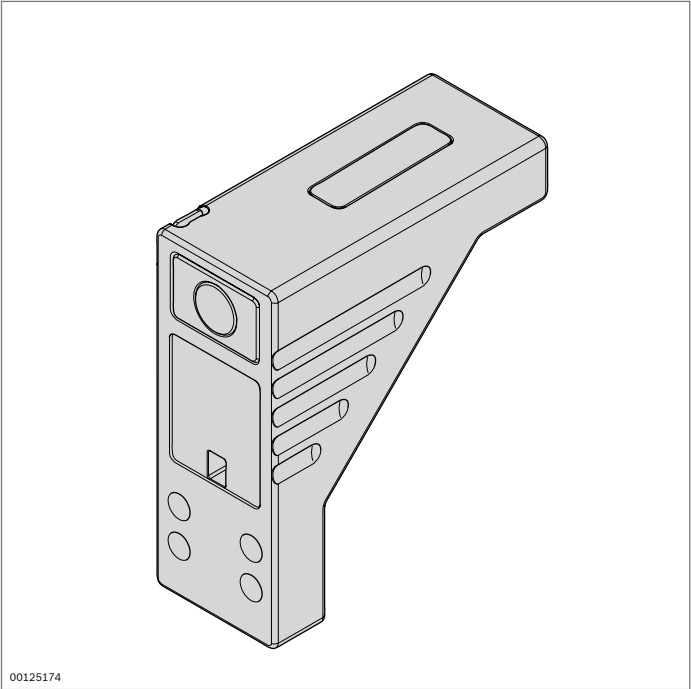


Switch bracket	No.	FS
SH 2/ST	3 842 168 850	2xFS1

Material: Housing: PA6, black
Switch cover (90 mm): ABS, transparent
Fastening material: steel; galvanized

Scope of delivery: Incl. fastening material (FS)



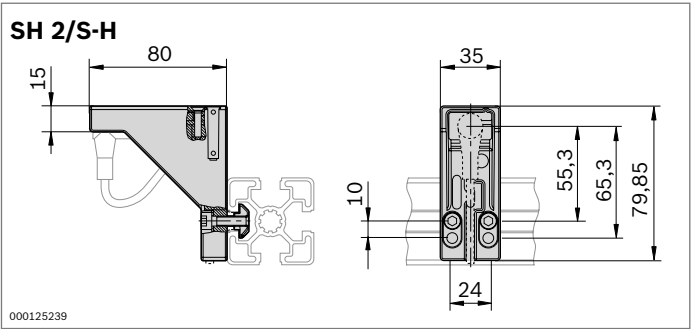


Switch bracket SH 2/S-H



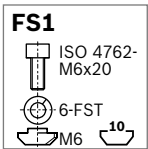
- For fastening a proximity switch M12x50
- Especially sturdy metal version
- Able to bear loads of up to 100 kg
- Centering lugs for pre-positioning and fast assembly in the profile slot
- Integrated stop for 12 mm sensor
- Integrated cable guide

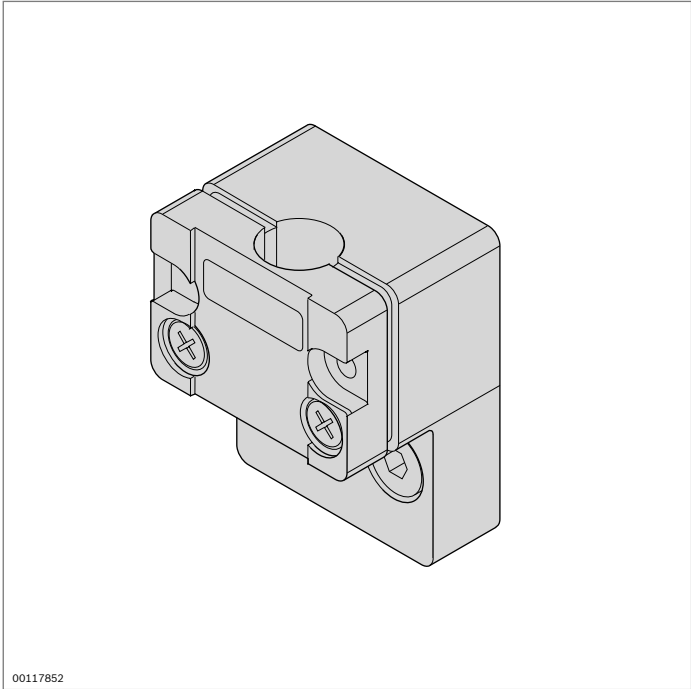
Accessories, required:
proximity switch M12x50 (p. 18-9)



Switch bracket	No.	FS
SH 2/S-H	3 842 537 280	2xFS1

Material: SH 2/S-H: diecast aluminum
Fastening material: steel; galvanized
Scope of delivery: Incl. fastening material (FS)



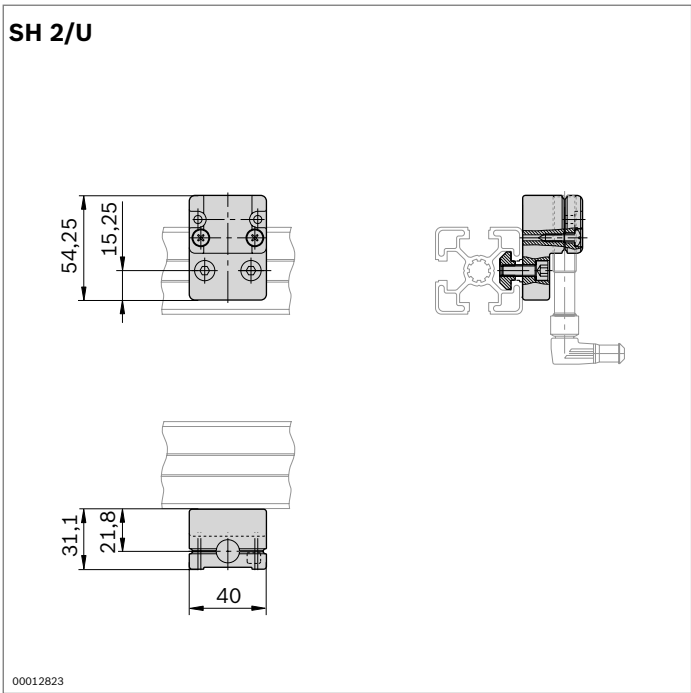


Switch bracket SH 2/U



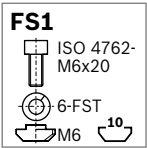
► For fastening a proximity switch M12x50

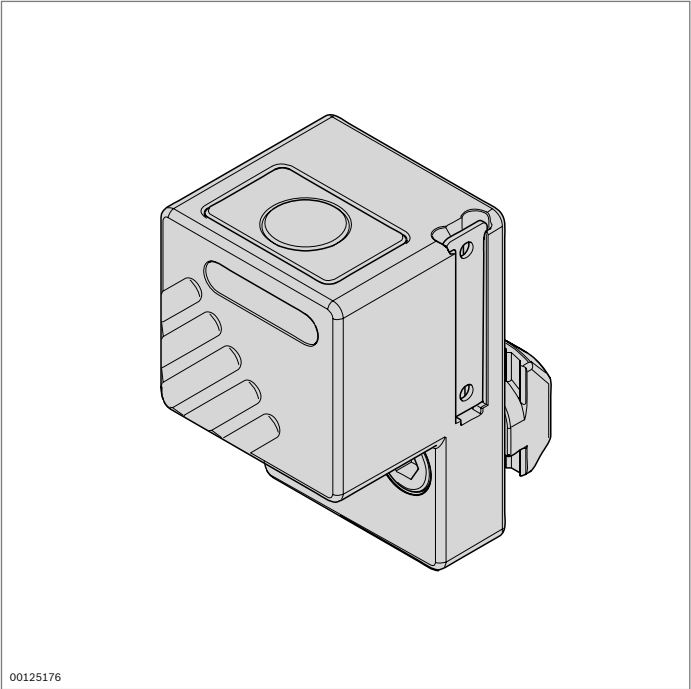
Accessories, required:
proximity switch M12x50 (p. 18-9)



Switch bracket	No.	FS
SH 2/U	3 842 168 820	2xFS1, 2xFS2

Material: SH 2/U: PA6 granulate, black
Fastening material: steel; galvanized
Scope of delivery: Incl. fastening material (FS)





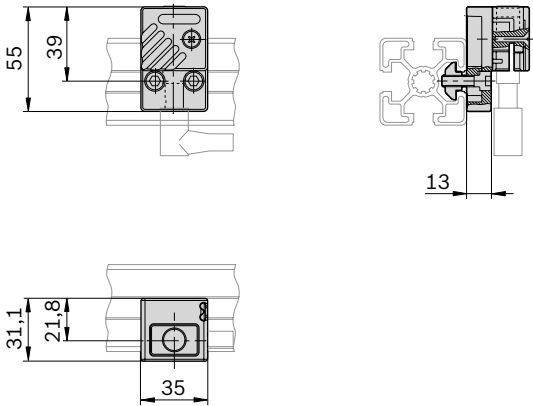
Switch bracket SH 2/U-H



- For fastening a proximity switch M12x50
- Especially sturdy metal version
- Able to bear loads of up to 100 kg
- Centering lugs for pre-positioning and fast assembly in the profile slot
- Integrated stop for 12 mm sensor

Accessories, required:
proximity switch M12x50 (p. 18-9)

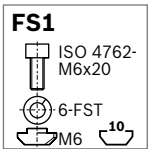
SH 2/U-H

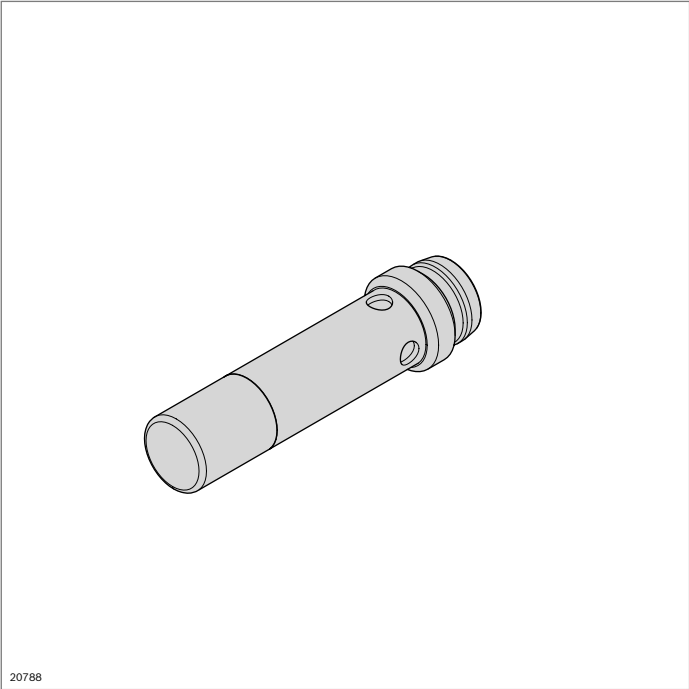


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Switch bracket	No.	FS
SH 2/U-H	3 842 537 289	2xFS1

Material: SH 2/U-H: diecast aluminum
Fastening material: steel; galvanized
Scope of delivery: Incl. fastening material (FS)

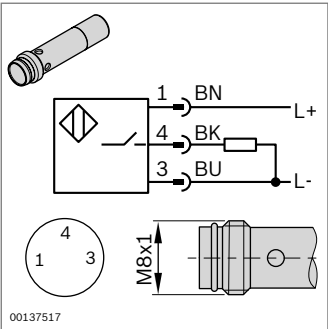




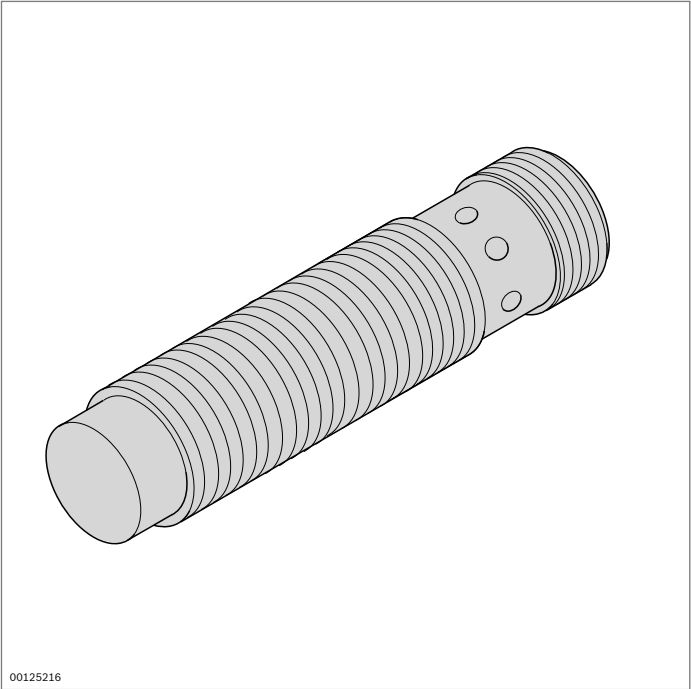
Proximity switch Ø6.5 x 30 mm, inductive

- For installation in switch bracket SH 1/...
- Design:
 - PNP contact
 - Optical LED function display
 - Compact length of 30 mm; Ø 6.5 mm
 - M8 plug connection
 - Switch distance $S_N = 4\text{ mm}$
 - Operating voltage: 0 ... 30 V
 - Switching frequency 1500 Hz
 - Operating current 200 mA
 - Protection class IP 67
 - Ambient temperature: -20 to 70 °C

Accessories, required:
switch bracket SH 1/... (p. 18-2f)

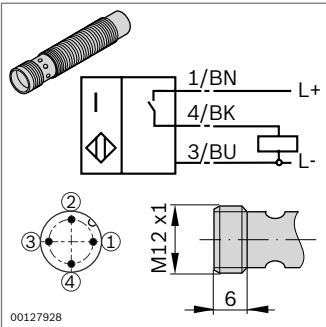


Proximity switch	No.
Ø 6.5 x 30 mm	3 842 542 500
Material:	Brass, nickel-plated



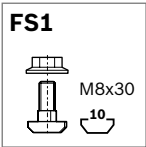
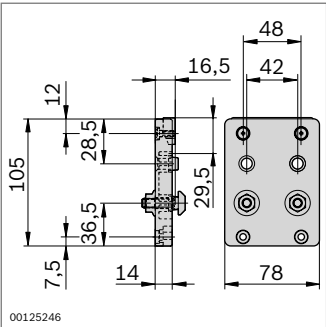
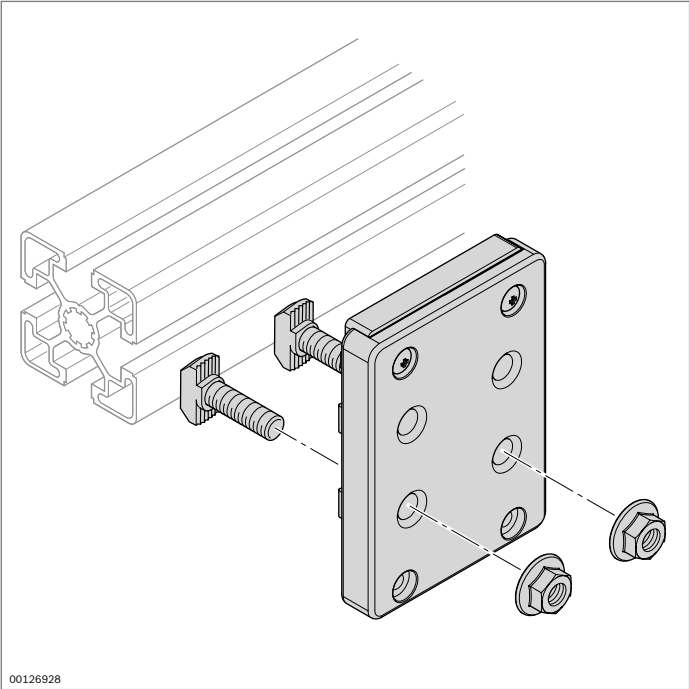
Proximity switch M12x50, inductive

- For installation in switch bracket SH2/...
- Design:
 - PNP contact according to IEC/EN 60947-5-2-2004
 - Connection via V1 plug (M12)
 - Resistant to media such as test oil and test fuel
 - Optical LED function display
 - Gold-plated contacts
 - Compact length of 50 mm
 - Metal thread M12x1
 - Switch distance $S_N = 7$ mm
 - Operating voltage: 0 ... 30 V
 - Switching frequency: 300 Hz
 - Operating current: 150 mA
 - No-load current: max. 15 mA
 - Protection class: IP 67
 - Ambient temperature: -25 to 70 °C



Accessories, required:
switch bracket SH 2/... (p. 18-4ff)

Proximity switch	No.
M12 x 50 mm	3 842 537 995
Material:	Brass, nickel-plated



Stop



- Can be mounted on profiles with 10 mm slot
- Centering aid can be broken off for flexible installation

Stop	ESD No.	FS
	3 842 519 717	2xFS1
Material:	Stop: PA6	
	Fastening material: steel; galvanized	
Scope of delivery:	Incl. fastening material (FS)	

Technical data

Technical data for strut profiles

EN AW – Al MgSi		Material designation according to DIN EN 573 for Rexroth strut profiles
EN AW – 6060		Material number according to DIN EN 573
R_m	= 245 N/mm ²	Minimum tensile strength (in direction of pressure)
$R_{p0,2}$	= 195 N/mm ²	0.2% proof stress (in direction of pressure)
A_5	= 10%	Ductile yield A_5 or A_{10}
A_{10}	= 8%	
E	= 70000 N/mm ²	Modulus of elasticity E
75 HB		Brinell hardness
$\alpha_{(-50...+20\text{ °C})}$	= 21.8 x 10 ⁻⁶ 1/K	Longitudinal expansion coefficient
$\alpha_{(+20...100\text{ °C})}$	= 23.4 x 10 ⁻⁶ 1/K	

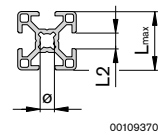
μ = 0.34 Poisson's ratio

E6/EV1 - 12 μm - 300 HV Anodizing process – layer thickness – layer hardness

L_{max}	11-20	22.5-30	40	45-60
t	± 0.15	± 0.2	± 0.6	± 0.3

Permitted dimensional tolerance t (mm) for profiles from different deliveries

L_{max}	80	90	120	160
t	± 0.8	± 0.4	± 1.0	± 1.6



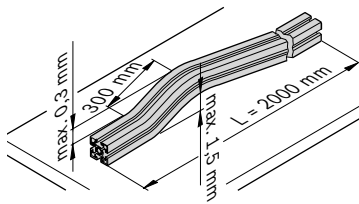
L_{max}	180	270	360
t	± 0.6	± 1.0	± 1.5

L2	6	8	10
t	± 0.3	± 0.3	± 0.4

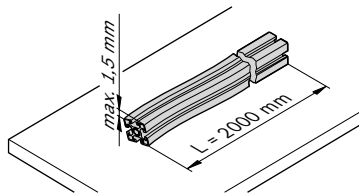
Ø	5.5	7.3	10	15
t	-0.1 $+0.2$	-0.1 $+0.2$	± 0.15	± 0.15

Deviation limits and form tolerances according to DIN EN 12020-2

Rexroth profiles generally fall well within the generally applicable tolerances specified in the standard. They are specifically defined for the individual products.

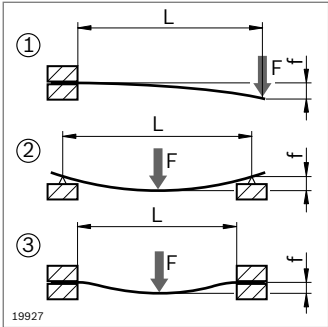


Longitudinal straightness tolerance of profile



Longitudinal torsional tolerance of profile

Profile deflection

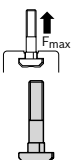
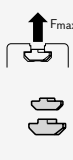
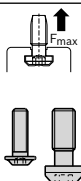
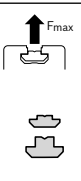
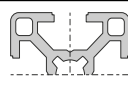
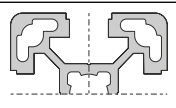
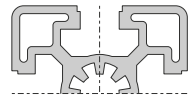
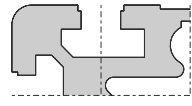


$f_{①} = \frac{F \times L^3}{3 E \times I \times 10^4}$	Profile deflection due to force F for static load cases ①②③
$f_{②} = \frac{F \times L^3}{48 E \times I \times 10^4}$	
$f_{③} = \frac{F \times L^3}{192 E \times I \times 10^4}$	
$f_{①} = \frac{m' \times g \times L^4}{8 E \times I \times 10^4}$	Profile deflection due to the profile's own weight
$f_{②} = \frac{5 \times m' \times g \times L^4}{384 E \times I \times 10^4}$	
$f_{③} = \frac{m' \times g \times L^4}{384 E \times I \times 10^4}$	
$\sigma_{①} = \frac{(m' \times g \times L + F) \times L}{W \times 10^3}$	Control of max. occurring bending stress $\sigma_{b \max}$
$\sigma_{②} = \frac{(m' \times g \times L + F) \times L}{4 W \times 10^3}$	
$\sigma_{③} = \frac{(m' \times g \times L + F) \times L}{8 W \times 10^3}$	
$\sigma_{b \max} < \sigma_{b \text{ zul.}}!$	$S_{F \text{ req}}$: Safety value required to avoid deformation (flow)
$\sigma_{b \text{ zul.}} = \frac{R_{p0,2}}{S_{F \text{ erf.}}}$	$\sigma_{b \text{ zul.}}$: Max. permissible bending stress

f (mm)	W (cm³)
F (N)	E = 70000 N/mm²
L (mm)	m' (kg/mm); m' = m/1000; m (p. 2-4 ... 2-7)
I (cm⁴)	g = 9.81 m/s² ≈ 10 m/s²

Profile slot load-bearing capacity

Static load limit values of slot (beginning of plastic deformation) **for connectors with the largest thread in each case**

							
			T-bolt	T-nut	Central bolt	Sliding block, swivel-in	Sliding block
		20x20, 20x20R 10x40 20x40, 20x60 20x40x40	1700 N	1700 N	2000 N	—	3000 N
		30x30, 30x30R 30x30°, 30x45°, 30x60° 11x20, 15x120 30x45, 30x60, 30x60x60 30x90, 30x120	4000 N	4000 N	5000 N	2200 N	6000 N
		90x90SL 40x40L, 40x40L R 40x30°, 40x45°, 40x60° 40x80L, 40x120L, 40x160L 40x80x80L 80x80L 80x120L, 80x160L 45x45L, 45x45L R 45x30°, 45x45°, 45x60° 15x22,5 , 15x180, 22,5x45 45x90L, 45x90x90L 50x50L, 50x50L R 50x100L , 50x150L 100x100L ,100x200L 60x60L	6000 N 7000 N	6000 N 7000 N	9000 N 10000 N	8000 N 9000 N	11000 N 12000 N
		45x45 60x60 90x90L 22,5x180 45x60 45x90 , 45x180 90x180L	12000 N	12000 N	15000 N	13000 N	17000 N
		45x270 60x90 90x90 90x180 90x360	18000 N	18000 N	22000 N	18000 N	24000 N

Load-bearing capacity of profile connection

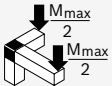
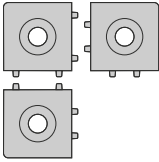
The stated tightening and loading limit values were determined as an example in (dry) trials. You must take account of legal safety factors and building regulations as well as those corresponding to accepted engineering practices!

Static load limit values of the connection (beginning of plastic deformation)

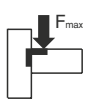
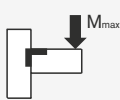
6 8 10			D	Slot		</
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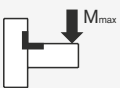
8 10		Slot		  		
	ø11, L=30	8	↻ 6 Nm	2500 N	60 Nm	20 Nm
	ø17, L=40	10	↻ 25 Nm	4000 N	180 Nm	40 Nm
	ø17, L=45	10	↻ 25 Nm	4000 N	180 Nm	60 Nm
	ø17, L=50	10	↻ 25 Nm	4000 N	200 Nm	65 Nm
	ø17, L=60	10	↻ 25 Nm	4000 N	200 Nm	80 Nm
	ø17, L=80	10	↻ 25 Nm	5000 N	800 Nm	170 Nm
	ø17, L=90	10	↻ 25 Nm	5000 N	800 Nm	200 Nm
	ø17, L=100	10	↻ 25 Nm	5000 N	1000 Nm	480 Nm
Bolt connector (p. 3-57)	ø28, L=22.5	10	↻ 25 Nm	2000 N	–	–

6 8 10		Slot		 		
	S6	6	↻ 10 Nm	500 N	8 Nm	
	S8	8	↻ 25 Nm	800 N	43 Nm	
	S12	10	↻ 35 Nm	1300 N	80 Nm	
	M12	10	↻ 35 Nm	3000 N	80 Nm	
Central bolt (p. 3-38)						

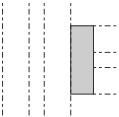
  		Slot					
	20/2	6	↻	10 Nm		18 Nm	
	20/3	6	↻	10 Nm			23 Nm
	30/2	8	↻	25 Nm		80 Nm	
	30/3	8	↻	25 Nm			85 Nm
	40/2	10	↻	35 Nm		60 Nm	
	40/3	10	↻	35 Nm			70 Nm
	45/2	10	↻	35 Nm	45x45L	150 Nm	
					45x45	200 Nm	
	45/3	10	↻	35 Nm	45x45L		170 Nm
					45x45		240 Nm
Cubic connector (p. 3-40)	50/2	10	↻	35 Nm		120 Nm	
	50/3	10	↻	35 Nm			140 Nm

 		Profile		Slot				
	SV8	30x...	8	↻	6 Nm	1000 N	35 Nm	15 Nm
	SV 10L	45x... L	10	↻	15 Nm	3500 N	110 Nm	30 Nm
	SV 10	40x..., 45x...	10	↻	15 Nm	3500 N	110 Nm	30 Nm
	Tensioning connector (p. 3-12)		60x...	10	↻	15 Nm	3500 N	195 Nm

 		Slot					
			8 / 8	↻	12 Nm	2200 N	50 Nm
			10 / 10	↻	15 Nm	2800 N	100 Nm
Inner bracket (p. 3-13)							

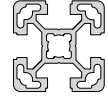
  		Slot					
			6 / 6	↻	3 Nm	600 N	10 Nm
			8 / 8	↻	12 Nm	2500 N	50 Nm
			10 / 10	↻	15 Nm	3000 N	100 Nm
Inner bracket R (p. 3-14)							

6 8 10			Slot		F_{max}	M_{max}	M_{max}	M_{max}
	20/20	6		3 Nm	700 N	6 Nm	25 Nm	–
	20/40	6		3 Nm	1400 N	15 Nm	50 Nm	8 Nm
	30/30	8		10 Nm	1250 N	25 Nm	75 Nm	–
	30/60	8		10 Nm	2500 N	100 Nm	170 Nm	25 Nm
	30/120	8		10 Nm	3750 N	100 Nm		47 Nm
	60/60-8	8		10 Nm	5000 N	320 Nm	370 Nm	110 Nm
	60/60-10	10		25 Nm	3000 N	125 Nm	150 Nm	–
	40/40	10		25 Nm	3000 N	55 Nm	145 Nm	35 Nm
	40/80	10		25 Nm	6000 N	180 Nm	400 Nm	60 Nm
	40/160	10		25 Nm	9000 N	250 Nm		60 Nm
	80/80	10		25 Nm	14000 N	500 Nm	1000 Nm	400 Nm
	45/45	10		25 Nm	3000 N	60 Nm	160 Nm	–
	45/90	10		25 Nm	6000 N	180 Nm	400 Nm	60 Nm
	45/180	10		25 Nm	9000 N	250 Nm		65 Nm
	90/90	10		25 Nm	12000 N	370 Nm	800 Nm	200 Nm
	43x42	10		25 Nm	2000 N	–	160 Nm	–
	50/50	10		25 Nm	4000 N	125 Nm	250 Nm	38 Nm
	50/100	10		25 Nm	7500 N	300 Nm	600 Nm	73 Nm
	100/100	10		25 Nm	15000 N	550 Nm	1100 Nm	480 Nm
Bracket (p. 3-17)								
6 8 10			Slot		F_{max}	M_{max}	M_{max}	
	S 20x20	6		2.5 Nm	700 N	3.6 Nm	25 Nm	
	S 30x30	8		8.5 Nm	1250 N	16 Nm	75 Nm	
	S 40x40	10		25 Nm	3000 N	36 Nm	160 Nm	
	S 45x45	10		25 Nm	3000 N	36 Nm	160 Nm	
Bracket S (p. 7-8)								

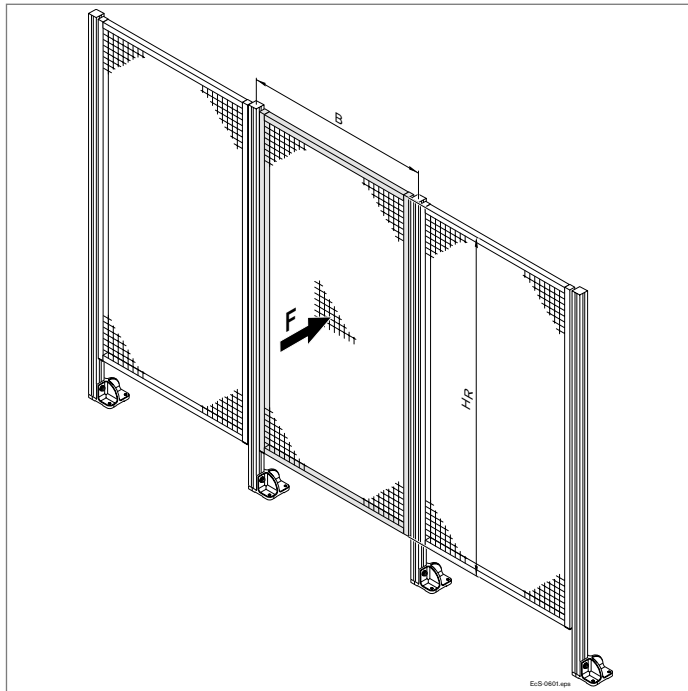
 		Slot			
	30x30	8	↻ 25 Nm (S8) / 5 Nm (M5)	4000 N	80 Nm
	40x40	10	↻ 35 Nm (S12) / 10 Nm (M6)	9000 N	150 Nm
	45x45	10	↻ 35 Nm (S12) / 10 Nm (M6)	9000 N	200 Nm
	50x50	10	↻ 35 Nm (S12) / 10 Nm (M6)	10000 N	170 Nm
T-connector (p. 3-48)					

 						
	30x30	8	↻ 25 Nm (S8) / 5 Nm (M5)			81 Nm
	40x40	10	↻ 35 Nm (S12) / 10 Nm (M6)			170 Nm
	45x45	10	↻ 35 Nm (S12) / 10 Nm (M6)			200 Nm
	50x50	10	↻ 35 Nm (S12) / 10 Nm (M6)			180 Nm
End connector (p. 3-46)						

Profile connection load-bearing capacity with radial compensation (p. 2-83)

				Slot				
	30x30		S8	8	↻ 25 Nm	600 N	37 Nm	28 Nm
				8 / 8	↻ 12 Nm	600 N	37 Nm	28 Nm
	40x40		M12 S12	10	↻ 30 Nm	1000 N	47 Nm	55 Nm
				10 / 10	↻ 22 Nm	1000 N	47 Nm	55 Nm
 	45x45		S12 M12	10	↻ 35 Nm	1200 N	53 Nm	59 Nm
				10 / 10	↻ 25 Nm	1200 N	53 Nm	59 Nm

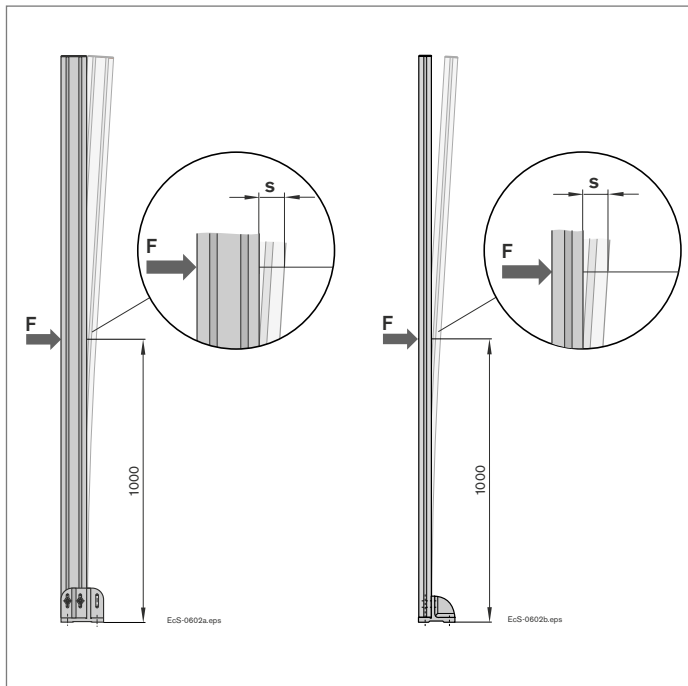
Load-bearing capacity data for EcoSafe protective frames and EcoSafe supports



EcoSafe protective frames withstand high loadings. The permissible forces which act on the protective grille have been determined in series of tests.

Test structure: In the case of a protective fence consisting of 3 frames, the woven wire grille in the middle frame is exposed to a maximum load force acting on its center.

Protective frame	HR (mm)	B (mm)	F (N)	No.
	1800	750	1650	3 842 554 283
	1800	1000	1100	3 842 554 284
	1800	1500	800	3 842 554 285



The force required to deflect the EcoSafe system supports has been determined in series of tests.

Test structure: A force acts on an installed system support at a height of 1 m (spring balance).

F (N)		100	150	300	450	600
s (mm)	45x45	4	6	13	21	31
	45x90	2	3	6	12	18

Material Number Overview

0 842 901 309	2-79, 12-2	3 842 506 948	2-17	3 842 516 694	8-22	3 842 522 301	6-5
1 845 719 000	2-85	3 842 506 949	2-18	3 842 516 715	8-10	3 842 522 303	6-5
3 842 071 941	12-38	3 842 506 950	2-17	3 842 516 720	2-55	3 842 522 345	10-9
3 842 111 987	3-10	3 842 506 951	2-18	3 842 516 729	14-5	3 842 522 462	10-9
3 842 111 988	3-10	3 842 506 956	2-36	3 842 516 731	14-5	3 842 522 463	10-9
3 842 111 989	3-10	3 842 506 957	2-36	3 842 516 837	7-11	3 842 522 464	10-9
3 842 146 813	3-31	3 842 506 958	2-36	3 842 516 838	7-11	3 842 522 465	10-9
3 842 146 815	3-32	3 842 506 959	2-37	3 842 516 845	4-11	3 842 522 467	10-12, 10-16, 19-11
3 842 146 848	3-32	3 842 508 087	5-5	3 842 516 846	4-11, 12-7/8, 12-9/10	3 842 522 468	10-14, 19-11
3 842 146 877	13-7/8, 13-17/18, 13-31/32	3 842 508 088	5-5			3 842 522 469	10-14/15, 19-11
		3 842 508 102	2-56	3 842 516 847	4-4, 4-11	3 842 522 475	10-20
3 842 146 901	2-82	3 842 508 104	2-57	3 842 516 848	4-11	3 842 522 476	10-20
3 842 146 902	8-25	3 842 508 116	2-57	3 842 516 849	4-11	3 842 522 477	10-20
3 842 146 905	8-24	3 842 508 967	12-38	3 842 516 850	4-11	3 842 522 479	8-12, 10-16
3 842 146 906	7-2	3 842 509 175	2-39	3 842 516 851	4-11	3 842 522 481	10-10
3 842 146 920	11-10	3 842 509 177	8-24	3 842 516 905	17-3	3 842 522 633	4-7
3 842 146 972	3-59	3 842 509 178	2-17	3 842 516 908	17-3	3 842 522 634	4-7
3 842 168 820	18-6	3 842 509 179	2-48	3 842 517 132	3-40, 3-41	3 842 523 014	9-2, 11-2
3 842 168 830	18-4	3 842 509 183	2-52	3 842 517 179	2-12	3 842 523 092	5-4
3 842 168 850	18-4	3 842 509 184	2-40	3 842 517 180	2-13	3 842 523 093	5-6
3 842 184 738	2-78, 7-6	3 842 509 185	2-52	3 842 517 183	2-13	3 842 523 094	5-6
3 842 191 175	3-47	3 842 509 186	2-42	3 842 517 198	2-19	3 842 523 097	5-3
3 842 191 182	2-82	3 842 509 187	2-42	3 842 517 200	2-38	3 842 523 098	5-3
3 842 191 194	8-25	3 842 509 188	2-46	3 842 517 543	3-41	3 842 523 102	5-6
3 842 218 940	12-17	3 842 509 189	2-45	3 842 518 204	2-81	3 842 523 135	3-4
3 842 218 941	12-17	3 842 509 658	2-44	3 842 518 205	2-81	3 842 523 140	3-7
3 842 218 942	12-17	3 842 510 078	3-7	3 842 518 343	7-2	3 842 523 142	3-7
3 842 218 953	12-2	3 842 510 145	5-5	3 842 518 347	7-2	3 842 523 145	3-9
3 842 242 404	8-25	3 842 510 165	9-5	3 842 518 351	7-2	3 842 523 165	10-12
3 842 259 790	6-23	3 842 510 462	9-5, 12-5	3 842 518 367	2-82	3 842 523 166	10-12
3 842 259 791	6-23	3 842 510 464	9-5	3 842 518 368	2-82	3 842 523 167	10-12, 10-16
3 842 259 792	6-24	3 842 511 352	6-6	3 842 518 369	2-82	3 842 523 170	10-13
3 842 259 793	6-24	3 842 511 702	2-35	3 842 518 375	2-82	3 842 523 205	12-14
3 842 259 794	6-24	3 842 511 704	2-22	3 842 518 376	2-82	3 842 523 206	12-14
3 842 305 766	7-12	3 842 511 782	2-41	3 842 518 377	2-82	3 842 523 207	12-15
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3 842 311 951	6-5	3 842 512 603	2-20	3 842 518 492	8-20	3 842 523 212	12-7, 12-13
3 842 311 956	6-5	3 842 513 517	12-16	3 842 518 650	14-7	3 842 523 213	12-13
3 842 319 500	12-22	3 842 513 576	2-47	3 842 518 738	8-17	3 842 523 243	8-11
3 842 319 501	12-22	3 842 513 581	2-22	3 842 518 740	9-6	3 842 523 254	2-82
3 842 338 990	2-58	3 842 513 584	2-22	3 842 518 743	6-4	3 842 523 256	2-82
3 842 345 081	3-6, 3-31/32, 6-11, 10-7	3 842 513 646	13-10	3 842 518 797	9-3	3 842 523 258	2-82
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3 842 348 526	3-25	3 842 514 519	14-8	3 842 518 856	13-15	3 842 523 320	8-12, 10-16
3 842 352 009	3-25	3 842 514 567	6-10	3 842 518 896	13-13	3 842 523 438	3-7
3 842 352 061	6-5	3 842 514 568	6-5	3 842 518 897	13-25	3 842 523 493	7-3
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3 842 500 287	9-5	3 842 514 928	3-7	3 842 519 318	3-44	3 842 523 508	3-18
3 842 500 921	3-57	3 842 514 929	3-7	3 842 519 319	3-44	3 842 523 511	3-18
3 842 500 922	3-57	3 842 514 930	3-7	3 842 519 321	3-45	3 842 523 516	3-18
3 842 500 923	3-57	3 842 514 931	3-7, 12-7, 12-11, 12-16	3 842 519 465	17-2	3 842 523 517	3-18
3 842 501 576	12-18			3 842 519 565	7-4	3 842 523 520	3-18
3 842 501 578	12-18	3 842 515 229	2-55	3 842 519 567	7-4	3 842 523 525	3-19
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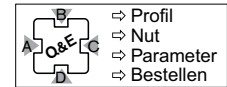
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Notes

Quick & Easy profile finishes

Logical structure of the order key

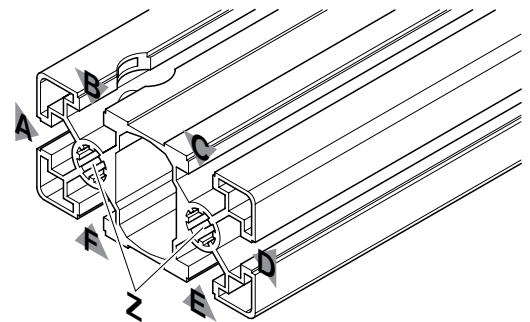
Material number / length / [slot designation = finishing; parameter set]



Example: Profile 45x90L with through-hole D17 in slot B

3 842 993 662 / 393 / B = D17/-

Material number	Length	Standard profile finishes
3 842 993 662	393	D17 through-hole in slot B



Standard profile finishes

- ▶ Through-hole drilling D
- ▶ Blind hole drilling DB
- ▶ Thread cutting M
- ▶ Standard milling F1

Customized profile finishes

- ▶ Hole drilling DI
- ▶ Drilling sequence DIS
- ▶ Cross milling MT
- ▶ Cross milling sequence MTS
- ▶ Lengthwise milling MI
- ▶ Lengthwise milling sequence MIS
- ▶ Miter cutting S1 / S3



You can configure your profile really quickly and easily in the Rexroth eShop or with the profile configurator in MTpro



Standard profile finishes

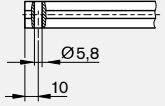
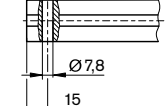
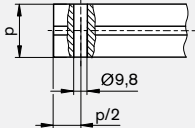
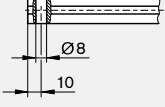
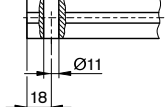
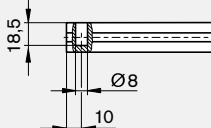
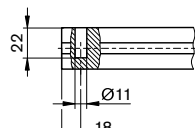
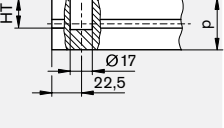
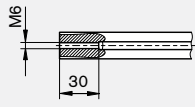
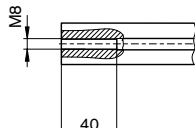
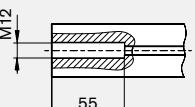
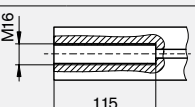
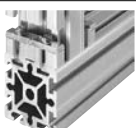
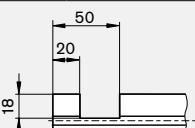
Order syntax for through-holes, blind holes, standard milling

Material number / length / slot designation = finishing at profile start / finishing at profile end; ...

Order syntax for threads

Material number / length / Z = Mx at profile start / Mx at profile end

Standard profile finishes

		Slot 6 mm 	Slot 8 mm 	Slot 10 mm 										
Through-hole for corner connections with central bolt		D5.8 	D7.8 	D9.8 										
Through-hole for bolt connectors and quick connectors		D8 	D11 	D17 										
Blind hole for longitudinal end connectors and quick connectors in closed profiles		DB8 	DB11 	DB17  <table><tr><td>p</td><td>40</td><td>45</td><td>50</td><td>60</td></tr><tr><td>HT</td><td>31</td><td>34</td><td>36</td><td>41</td></tr></table>	p	40	45	50	60	HT	31	34	36	41
p	40	45	50	60										
HT	31	34	36	41										
Thread in all central holes for accessories		M6 	M8 	M12  M16 										
Standard milling for cross connectors				F1 										

Minimum profile lengths (mm) for standard profile finishes on one or both sides

	-	M6	D5.8	D8/ DB8
-	50	50	50	50
M6	50	70	50	70
D5.8	50	50	50	50
D8/ DB8	50	50	50	50

	-	M8	D7.8	D11/ DB11
-	50	50	50	50
M8	50	80	62	70
D7.8	50	62	60	50
D11/ DB11	50	70	50	60

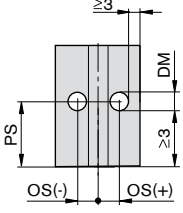
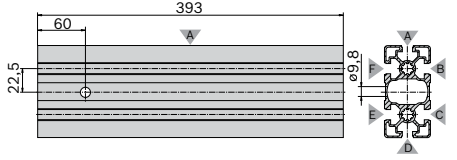
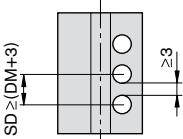
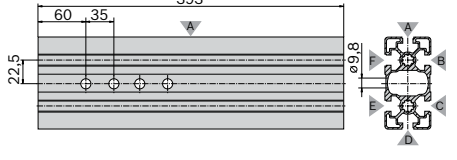
	-	M12	M16	D9.8	D17/ DB17	F1
-	50	60	120	50	60	60
M12	60	110	180	90	60	110
M16	120	180	240	150	170	170
D9.8	50	90	150	80	70	90
D17/ DB17	60	90	150	70	80	90
F1	60	110	170	90	90	80

Notice: In the case of clashes with the values in the order table, the larger value applies.

Drilling DI, drilling sequence DIS

Material number / length / [slot designation=DI; PS=...; OS=...; DM=...; HT=...]; [...]

Material number / length / [slot designation=DIS; PS=...; OS=...; DM=...; HT=...; SN=...; SD=...]; [...]

End finishing	Parameter	Order example for profile 45x90L
Hole DI 	PS Center point of hole $PS_{min} = DM/2 + 3 \text{ mm};$ $PS_{max} = L - (DM/2 + 3 \text{ mm})$ OS Offset start point (optional) Select OS so that the hole does not cut through any slot edges DM DM hole diameter DM; see table. HT Depth of hole (optional) Through-holes made if no information provided HT_{max} see table	 3 842 993 662 / 393 / [B=DI; PS=60; OS=22.5; DM=9.8]
Drilling sequence DIS 	PS, OS, DM, HT As for DI hole drilling SN Number of finishes $SN_{max} = INT((L - 3 - PS - DM/2) / SD) + 1$ SD Distance between adjacent finishes $SD_{min} = DM + 3$	 3 842 993 662 / 393 / [B=DIS; PS=60; OS=22.5; DM=9.8; SN=4; SD=35]

Permissible hole diameters, permissible hole depths (in mm)

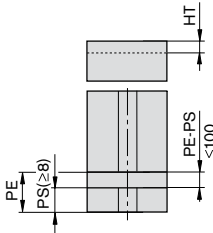
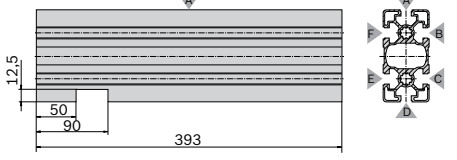
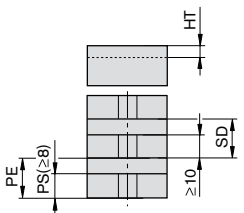
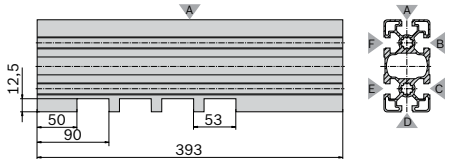
DM	5.8	6.4	7.8	8.0	8.4	9.8	11.0	17.0
HT _{max}	40.0	45.0	45.0	45.0	45.0	50.0	60.0	75.0

ATTENTION: If HT_{max} is not sufficient to drill through the profile, you must order two opposite bores!

Cross milling MT, cross milling sequence MTS

Material number / length / [slot designation=MT; PS=...; HT=...; PE=...]; [...]

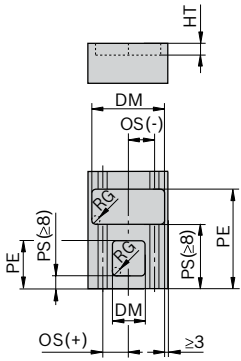
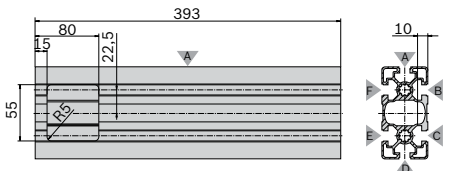
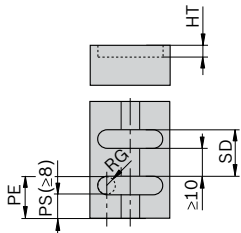
Material number / length / [slot designation=MTS; PS=...; HT=...; PE=...; SN=...; SD=...]; [...]

End finishing	Parameter	Order example for profile 45x90L
Cross milling MT 	PS Starting point of milling $PS_{min} = 8 \text{ mm}; PS_{min} = 60 \text{ mm}$ on the underside of the profile HT Depth of milling $HT_{max} = 5.5 \text{ mm}$ (slot 6 mm) $HT_{max} = 9.0 \text{ mm}$ (slot 8 mm) $HT_{max} = 12.5 \text{ mm}$ (slot 10 mm) PE End point of milling $PE_{max} = L - 8 \text{ mm}; 8 \text{ mm} \leq PE - PS \leq 100 \text{ mm}$	 3 842 993 662 / 393 / [D=MT; PS=50; HT=12.5; PE=90]
Cross milling sequence MTS 	PS, HT, PE As for cross milling MT SN Number of finishes $SN_{max} = INT((L - 8 - PE) / SD) + 1$ SD Distance between adjacent finishes $SD_{min} = (PE - PS) + 10$	 3 842 993 662 / 393 / [D=MTS; PS=50; HT=12.5; PE=90; SN=4; SD=53]

Lengthwise milling MI, lengthwise milling sequence MIS

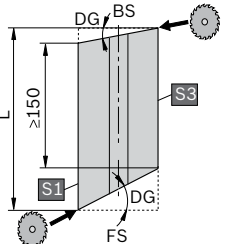
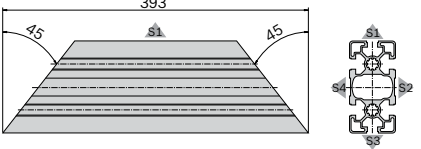
Material number / length / [slot designation=MI; PS=...; OS=...; DM=...; HT=...; PE=...; RG=...]; [...]

Material number / length / [slot designation=MIS; PS=...; OS=...; DM=...; HT=...; PE=...; RG=...; SN=...; SD=...]; [...]

End finishing	Parameter	Order example for profile 45x90L
Lengthwise milling MI 	PS Starting point of milling $PS_{min} = 8 \text{ mm}$ $PS_{min} = 60 \text{ mm}$ on the underside of the profile (see order tables for guidance) OS Offset starting point (optional) DM Milling width $DM_{min} = 8 \text{ mm}$; $DM_{max} = \text{profile width/height} - 6 \text{ mm}$ At least 3 mm of profile must remain on both sides HT Depth of milling. $HT_{max} = 5.5 \text{ mm}$ (slot 6 mm) $HT_{max} = 9.0 \text{ mm}$ (slot 8 mm) $HT_{max} = 12.5 \text{ mm}$ (slot 10 mm) PE End point of milling $PE_{max} = L - 8 \text{ mm}$ $8 \text{ mm} \leq PE - PS \leq 100 \text{ mm}$ RG Radius of milling geometry $RG = 3 \text{ mm}; 4 \text{ mm}; 5 \text{ mm}; 8 \text{ mm}$	 3 842 993 662 / 393 / [B=MI; PS=15; OS=22.5; DM=55; HT=10; PE=80; RG=5]
Lengthwise milling sequence MIS 	PS, OS, DM, HT, PE, RG As for lengthwise milling MI SN Number of finishes $SN_{max} = \text{INT}(L - 8 - PE / SD) + 1$ SD Distance between adjacent finishes $SD_{min} = (PE - PS) / 10$	 3 842 993 662 / 393 / [C=MIS; PS=15; DM=15; HT=10; PE=80; RG=4; SN=2; SD=85]

Miter cutting

Material number / length/[FS=side; DG=miter angle]; [BS=side; DG=miter angle]

End finishing	Parameter	Order example for profile 45x90L
Miter cutting 	FS Front side $S1, S3$ – profile side on which the miter cut begins BS Back side $S1, S3$ – profile side on which the miter cut begins DG Miter bracket $DG > 0$ The angle is always specified as a positive value. Note the maximum permissible miter angle (see order tables)	 3 842 993 662 / 393 / [FS=S3; DG=45]; [BS=S3; DG=45]

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