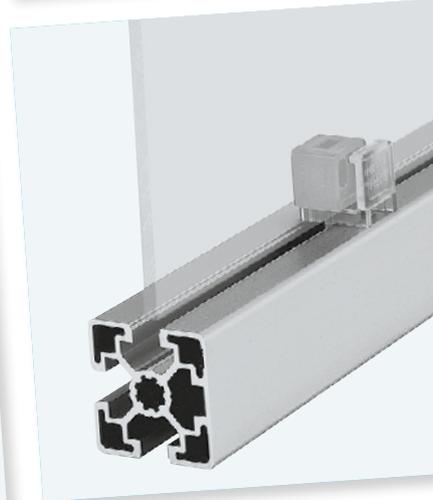


Basic

14.0

Mechanic Elements



Explanations

Presentation		Explanation	
40x40 HR	L (mm) No.	Product available for delivery as:	
1 pc 	50 ... 6070 3 842 993 256 / L	– Single component of variable length, e.g. Order: 1 x 3 842 993 257 / 785	
1 pc M12  M12	110 ... 6000 3 842 993 257 / L	Delivery: 1 x 40x40 HR with M12 profile finishing on both sides, L = 785 mm	
 20 pcs 	6070 3 842 529 381	– Delivery unit ( : here 20 pcs) of fixed length, e.g. Order: 1 x 3 842 529 381	
		Delivery: 20 x 40x40 HR (without profile finishing), L = 6070 mm	
		M12  M12 Notes on profile finishing, see Section 2.	
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	
Bracket (standard)	10  20 3 842 530 381	Order examples: – Order: 1 x 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	
Threaded sleeve	No.	For order tables without the column  , the following applies:  = 1	
	3 842 504 790	Order examples: – Order: 1 x 3 842 504 790 – delivery: 1 x threaded sleeve incl. fastening material (FS) enclosed with the product for peripheral mounting	
  		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 clean rooms	
		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)	

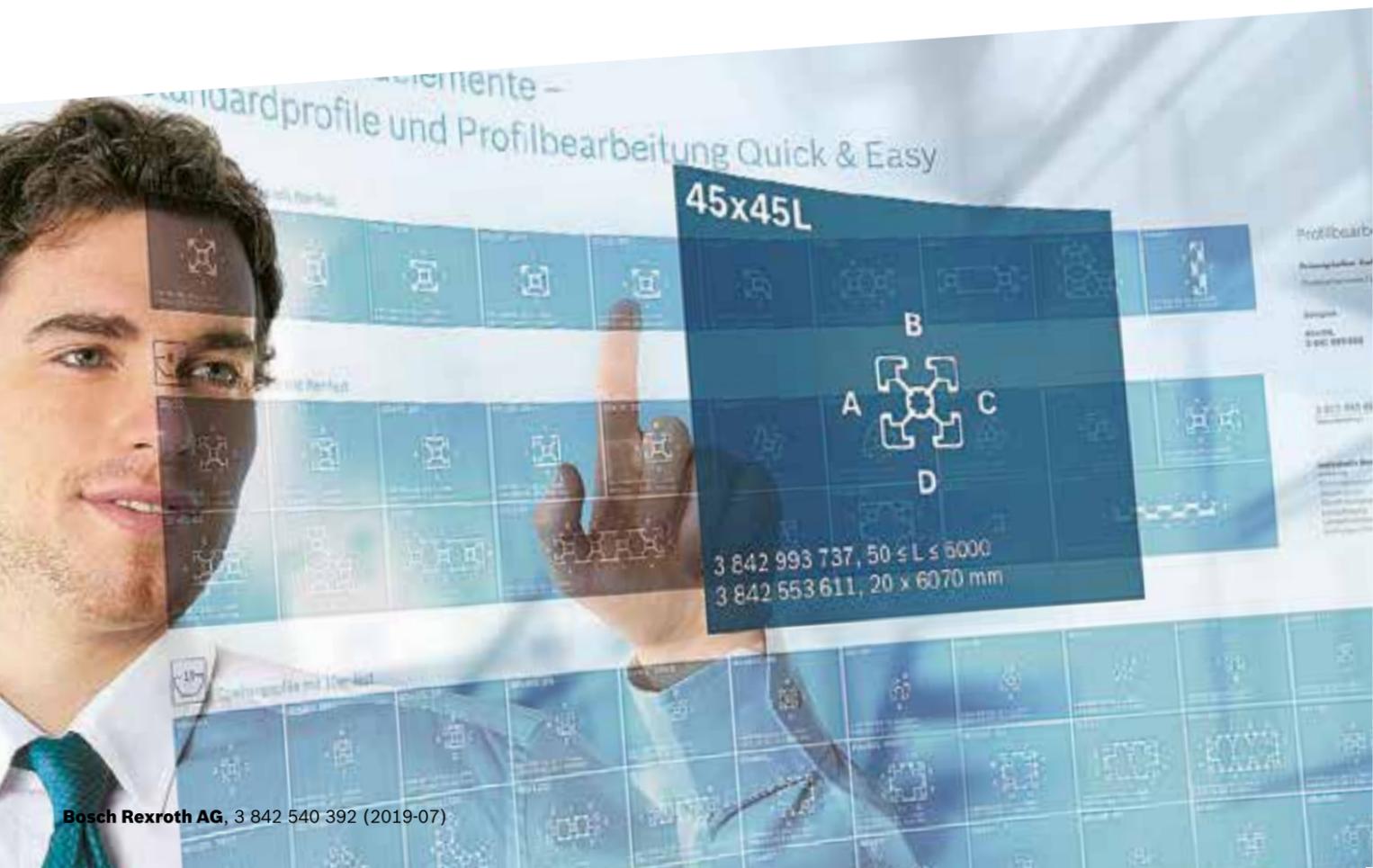
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The Rexroth modular profile system

Working environments are all the more efficient when they are individually tailored to meet the respective production requirements. Bosch Rexroth's ultra-flexible assembly system offers quick, complete solutions for every industry.

From flow racks and frames made of aluminum profiles, enclosures, ergonomic assembly work stations through to fully automated manufacturing lines with transfer systems: Based on decades of practical experience, the sophisticated and uniquely versatile assembly technology from Bosch Rexroth is continuously being further developed. With modular, finely coordinated components,

Bosch Rexroth facilitates the realization of customized, future-proof solutions for your production. With customer-oriented services and comprehensive service support, including free-of-charge planning software, our modular system offers everything you need for efficient working environments.



**One system – Everything covered.
Our versatile comprehensive range:
The “Single-source overall concept”**



Smart product concept – The Rexroth modular profile system

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

VERSATILE

FUNCTIONAL

SECURE



- Standardized components
- Well designed connecting systems
- Low planning costs
- Short assembly times with few tools needed

- Systematically matched elements
- Comprehensive color concept
- Universal ESD-compatibility
- Anti-torsion elements and positioning aids

- Strong profiles and stable connectors withstanding strong forces
- Compliance with standards and regulations
- Guaranteed performance data
- Durable and corrosion-resistant

Rexroth aluminum strut profiles – Smart individual components in comprehensive systems

Over 120 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 – for maximum design flexibility and security.

Strong profiles

Secure connection technology

Custom-fit matching accessories

Economical choice for any load scenario!

Rexroth connectors hold firmly and securely!

Easy to fix in the profile slot or central hole!

Our product advantages



Profiles with high load-bearing capacities

Innovative special profiles

Perfectly matching components

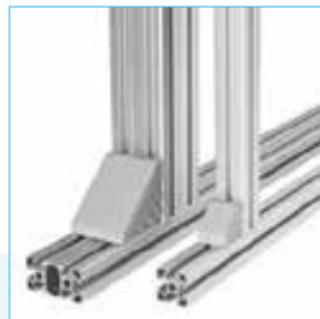
Easy handling

Fast and secure fitting

Application options without limits

Secure connection technology – Smart and proven in practice and workshop environments

The right connection element for every application – whether rectangular, variable-angle, flexible, internal, vibration-resistant, torsion-resistant. The connectors break the anodized coating of the profiles. This way, a conducting connection is established between the profiles to comply with the requirements for applications in ESD-sensitive environments (ESD – Electro Static Discharge).



BRACKET

- ▶ Quick and precise installation with centering lugs – even overhead
- ▶ Plug-through screws including position recognition



CUBIC CONNECTOR

- ▶ Well-designed connectors with high rigidity
- ▶ Quick installation without profile preparation
- ▶ Cut-out for gap-free mounting of panel elements



QUICK CONNECTOR

- ▶ Easy and quick installation
- ▶ Free slots for panel mounting, movable on profile slot



TENSIONING CONNECTOR

- ▶ Well-designed corner connection without end finishing



BOLT CONNECTOR

- ▶ Reliable and strong connection for challenging requirements like permanent vibration or dynamic load
- ▶ High torsion resistance



T-CONNECTORS AND END CONNECTORS

- ▶ Very high load-bearing capacity
- ▶ Exact and quick installation without profile finishing and movable on the slot

Matching accessories – Tailor precisely to the modular profile system

The accessories are tailored precisely to the modular profile system and enable easy mounting in the profile slot or the central bore. The modular profile system of profiles and connection elements is completed by a wide range of accessories.



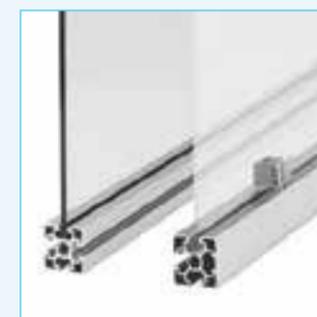
COVER CAPS

- ▶ Protection against injury at open cutting edges
- ▶ Attractive design in “signal gray” and “black ESD”



FEET AND WHEELS

- ▶ Secure support
- ▶ Wide range of supports and wheels



MOUNTING OF PANEL ELEMENTS

- ▶ Mounting of panel elements (e.g. protective pane) in the slot
- ▶ Design in compliance with Machinery Directive



INSTALLATION ELEMENTS

- ▶ Well-arranged installation of power lines
- ▶ Low-maintenance electrical installation with cable ducts and cable brackets



DOORS AND FITTINGS

- ▶ Construction of hatches and doors
- ▶ Attachment via profile slot or directly at panel element



MANUAL MOVEMENT

- ▶ Wide selection of sliders, support wheels and hydraulic adjustment options
- ▶ Individual solutions with standard products

Design elements – Well-arranged connections, clear marking

SIGNAL GRAY

The signal gray (RAL7004) color variant meets the market requirement for a subtle color scheme for fixtures and therefore provide the application with a harmonious and calm appearance. The low-contrast aluminum structure forms the optical background and leaves open room for customer-specific design elements.



ESD BLACK

As the only modular profile system on the market, Rexroth offers all standard and ESD accessories in gray and black. The conductive plastic components can discharge voltage and ensure equipotential bonding in the frame. The showstopper: Black ESD components make it easy to visually distinguish ESD applications from non-ESD applications.



designLINE – THE PERFECT COMBINATION OF QUALITY AND FUNCTION

You value good design? The *designLINE* version of our proven die-cast connectors features an impressive and high-quality appearance. Thanks to special pointing in “RAL 9006 white aluminum”, the appearance of your application is further improved by visually seamless adaptation to aluminum profiles. The paint is also scratch-resistant. A special highlight: The ESD-compatibility of connections is maintained.



Experience and expertise – thanks 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 order” production capacities

Professional point of contact

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

On-time, speedy supply

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

Your contact partner can be found under:
www.boschrexroth.com/contact

worldwide

reliable

professional

Systematic safety – playing it safe from the start

Thanks to the overall system of the Rexroth modular profile system, accident risks are avoided and safety regulations reliably complied with.

There are numerous hazards in any modern work environment and particularly where they are expected the least. A lack of safety in production, assembly or storage facilities poses a risk of death for personnel.

Severe accidents may have unexpected consequences for the liable manufacturer of equipment or the equipment owner.

Operational safety of equipment is a serious topic within the responsibility of the company and the facility owner. In most countries, these positions are also liable.

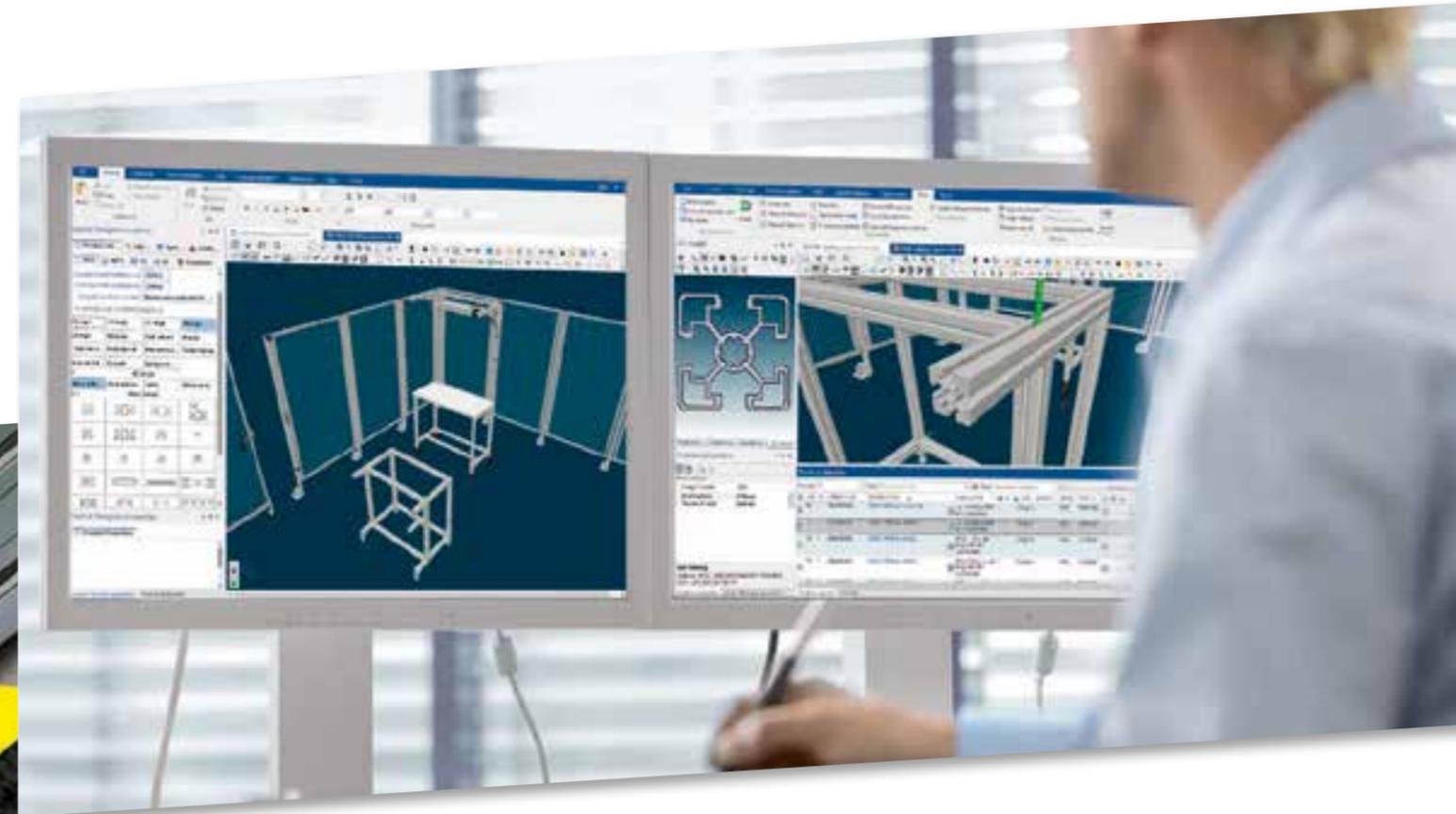
Legal regulations, product regulations, certifications, regular checks and verifications and documentation are comprehensive requirements. We are aware of them and offer our support.

For further information, refer to our website. Simple scan the QR code for direct access:



Maximum planning security with MTpro planning software

Unlimited combination options together with simple planning and ordering 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 environment via a CAD interface. The program offers the following functions and full content in seven languages (en/de/fr/es/it/ja/zh):

- ▶ Complete product information
- ▶ CAD library

- ▶ Quick & Easy configurator
- ▶ Profile deflection calculation
- ▶ Conversion of profile drawings
- ▶ Quick and simple planning in the Layout Designer

Download MTpro:



Solutions for all sectors – Optimum application-oriented solutions with deep specialized know-how

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



SOLUTION #1

For Robert Bosch GmbH in Stuttgart, Rexroth assembly technology has designed a flexible assembly line.

SOLUTION #2

Frame enclosure of an assembly plant for steering systems

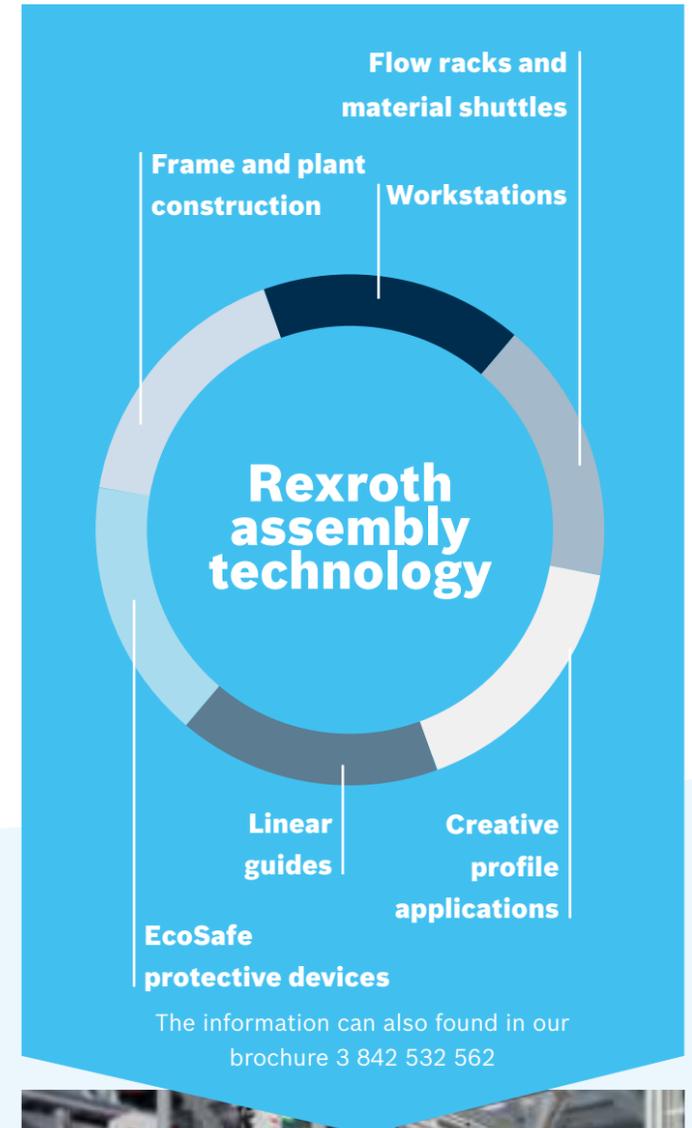
SOLUTION #3

Thanks to a tightening station for manufacturing of generators made of Rexroth aluminum profiles, work process can be realized even easier.



SOLUTION #4

EcoSafe protective fences from Rexroth are used in fully automatized assembly of car bodies at Jaguar Land Rover, UK.



More solutions can be found online. Find out for yourself.

Competent partner – Assembly technology product range

Strut profiles



Manual Production Systems (MPS)

The manual production system enables quick and efficient adaptation of workstations and entire production lines to the work to be carried out.

Catalog

3 842 538 281



ActiveAssist

The ActiveAssist system is a freely configurable software that supports employees with targeted information and help functions and intelligently guides them through the assembly process.

Catalog

R999001409



TS 2plus

From the automotive industry and the electronics industry to household appliances and electronics manufacturing: With their diverse system components, TS 2plus assembly lines are suitable for use in a wide range of industries.

Catalog

R999000396



TS 5

The roller conveyor of the TS 5 transfer system conveys loads of up to 400 kg or more even over long distances and its robust construction make it especially suitable for harsh and oily environments.

Catalog

3 842 540 380



ActiveMover linear drive transfer system

The manual production system enables quick and efficient adaptation of workstations and entire production lines to the work to be carried out.

Catalog

R999001427



VarioFlow plus

VarioFlow plus is a high-performance and low-noise 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

R999000402



Tightening technology

Handheld, hand-guided, semi, or fully automatic – electric tightening systems from Rexroth are the efficient and flexible solution for your production process.

Catalog

R999000049



Strut profiles, 6 mm slot, 20 mm modular dimension (p. 2-10)



Strut profiles, 8 mm slot, 30 mm modular dimension (p. 2-15)



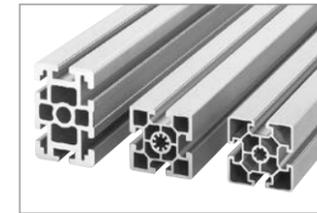
Strut profiles, 10 mm slot, 40 mm modular dimension (p. 2-23)



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



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



Strut profiles, 10 mm slot, 60 mm modular dimension (p. 2-52)



Rectangular tube (p. 2-54)
Clamping profile (p. 2-55)
Al angle profile 19" (p. 2-56)



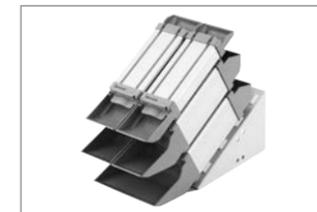
Frame profile 22.5x30 (p. 2-57)
22.5x45 (p. 2-58)



Angle profile (p. 2-59)
Suspension profile (p. 2-60)
Container mount (p. 2-61)



Grooved plate (p. 2-62)



Material chute (p. 2-63)



Profile rail (p.2-65)



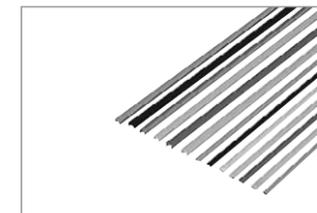
Profiles for installing conveyor media (p. 2-66)



Round tube D28 (p. 2-69)
Strut profile D28x55 (p. 2-69)



EcoShape tubular framing system (p. 2-72)



Cover profiles, additional accessories (p. 2-84)

Strut profiles

With more than 120 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 make profile connections possible which can handle high static and dynamic loads.

Bosch Rexroth AG offers you six 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.

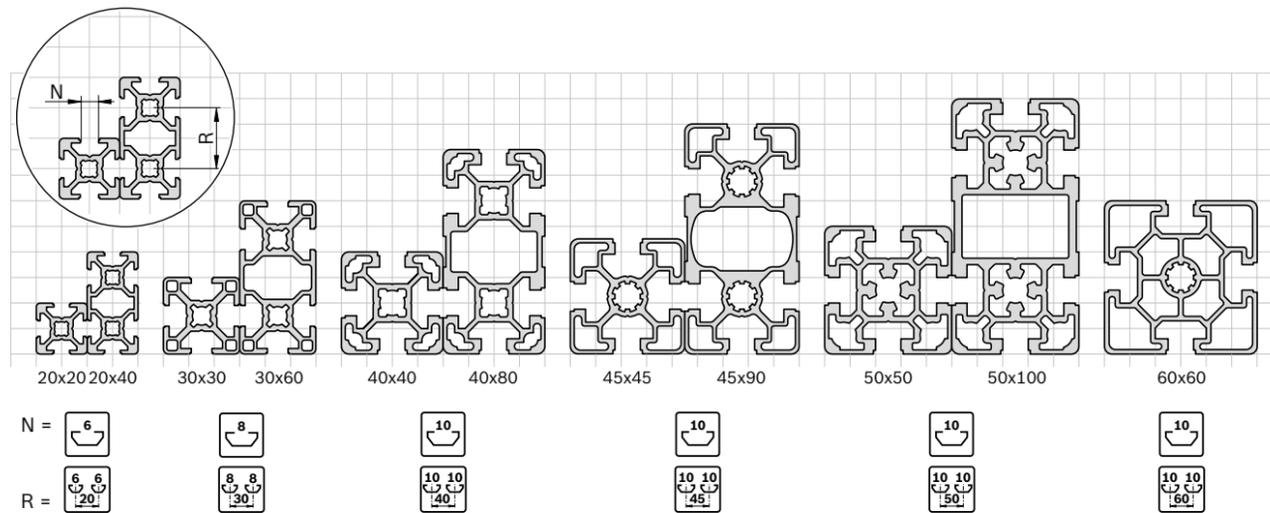
During anodizing as part of the manufacturing process bare areas which are approx. 30 mm long are left at each end of the profile (= contact areas), so the profiles are generally supplied incorporating an excess length of 100 mm.

Example:

45x45L	L (mm)	No.
 20 pcs		6070 3 842 553 611

Notice: 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



Slot size N = 6 mm, 8 mm, 10 mm

Modular dimensions R = 20 mm, 30 mm, 40 mm, 45 mm, 50 mm, 60 mm

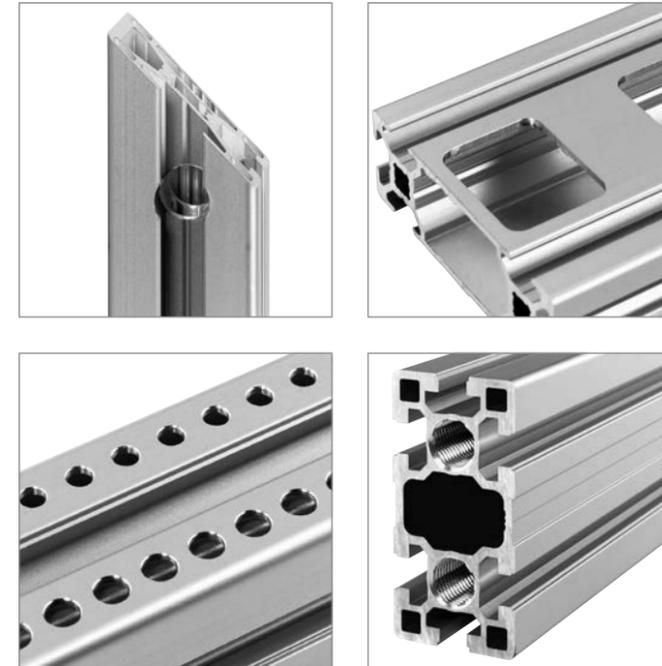
Technical data – profiles

Profile	Slot	Profile surface A (cm ²)	Moment of inertia		Moment of resistance		Torsion index		Weight m (kg/m)	Page
			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	2-11
20x20 1N	6	1.9	0.8	0.8	0.8	0.8	0.60	0.67	0.5	2-11
20x20 2N	6	1.8	0.7	0.8	0.7	0.8	0.31	0.52	0.5	2-11
20x20 2NVS	6	1.8	0.7	0.7	0.7	0.7	0.37	0.52	0.5	2-12
20x20 3N	6	1.7	0.7	0.8	0.7	0.7	0.19	0.34	0.5	2-12
20x20 R	6	1.6	0.6	0.6	0.5	0.5	0.21	0.39	0.4	2-12
20x40	6	2.9	4.6	1.2	2.5	1.4	0.68	0.91	0.8	2-13
20x60	6	3.5	14.2	1.7	4.7	1.7	2.30	2.00	0.9	2-13
20x40x40	6	4.2	6.0	6.0	2.6	2.6	1.50	1.30	1.1	2-13
10x40	6	2.1	3.2	0.2	1.6	0.4	-	-	0.6	2-14
30x30	8	3.1	2.8	2.8	1.8	1.8	0.29	0.33	0.9	2-16
30x30 1N	8	3.7	3.1	3.5	2.0	2.3	2.80	1.50	1.0	2-16
30x30 2N	8	3.5	2.8	3.5	2.1	2.7	1.50	1.20	1.0	2-16
30x30 2NVS	8	3.5	3.1	3.1	2.0	2.0	1.70	1.10	1.0	2-17
30x30 3N	8	3.3	3.1	2.8	2.3	2.1	0.86	0.73	0.9	2-17
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	2-18
30x60°	8	3.6	3.0	4.1	1.7	1.9	1.50	2.00	1.0	2-18
30x30 R	8	2.9	2.3	2.3	1.4	1.4	0.81	1.20	0.8	2-18
30x60	8	5.5	19.6	5.1	7.0	3.9	2.60	2.10	1.5	2-19
30x60 4N	8	5.8	20.2	5.5	6.7	3.8	4.80	2.40	1.6	2-19
30x60x60	8	8.2	26.2	26.2	7.6	7.6	6.40	3.60	2.2	2-19
30x90	8	7.7	60.7	7.3	13.5	4.9	5.10	3.80	2.1	2-20
30x120	8	9.9	136.3	9.6	22.7	6.4	7.60	5.60	2.7	2-20
30x45	8/10	4.0	8.1	3.9	3.9	2.9	1.30	1.30	1.1	2-21
60x60 8N	8	9.8	39.7	39.7	13.2	13.2	19.30	6.80	2.6	2-21
11x20	8	1.0	0.5	0.1	0.7	0.3	-	-	0.3	2-21
15x120	8	9.0	110.4	2.2	18.4	2.7	-	-	2.4	2-22
40x40L	10	5.6	9.1	9.1	4.5	4.5	1.30	0.74	1.5	2-25
40x40L 0N	10	6.3	10.4	10.4	5.2	5.2	10.70	4.30	1.7	2-25
40x40L 1N	10	6.1	9.8	10.3	4.7	5.1	6.90	3.70	1.7	2-25
40x40L 2N	10	6.0	9.0	10.3	4.5	5.2	4.00	3.00	1.6	2-26
40x40L 2NVS	10	6.0	9.7	9.7	4.9	4.9	4.50	2.70	1.6	2-26
40x40L 3N	10	5.8	9.7	9.0	4.8	4.5	2.60	1.70	1.6	2-26
40x30°	10	6.2	9.4	11.8	4.7	5.9	3.00	3.10	1.7	2-27
40x45°	10	6.8	9.9	16.6	5.0	8.3	4.20	3.70	1.8	2-27
40x60°	10	6.3	8.7	13.1	4.3	6.5	3.00	3.10	1.7	2-27
40x40L R	10	5.0	7.2	7.2	3.6	3.6	2.50	2.00	1.3	2-28
40x40 HR	10	5.5	8.1	7.6	4.0	3.6	4.60	2.80	1.5	2-28

Profile	Slot	Profile surface	Moment of inertia		Moment of resistance		Torsion index		Weight	Page
			A (cm ²)	I _x (cm ⁴)	I _y (cm ⁴)	W _x (cm ³)	W _y (cm ³)	I _t (cm ⁴)		
40x80L	10	9.9	63.4	17.3	15.9	8.7	8.02	4.80	2.7	2-29
40x80L 2N	10	10.9	66.6	20.8	16.6	10.4	22.40	7.58	2.9	2-29
40x80L 4N	10	10.4	65.2	19.1	16.3	9.9	13.30	4.40	2.8	2-29
40x80L 2NVS	10	10.7	67.8	19.0	17.0	9.5	19.24	7.55	2.9	2-30
40x80L 3NVS	10	10.6	67.8	19.0	17.0	9.5	15.90	5.20	2.9	2-30
40x80x80L	10	15.4	96.6	96.6	24.2	24.2	19.60	9.80	4.2	2-30
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	2-31
80x80L	10	18.2	132.1	132.1	33.0	33.0	59.80	17.20	4.9	2-32
80x80L 4N	10	19.1	142.5	142.5	35.6	35.6	83.90	15.4	5.2	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

Profile	Slot	Profile surface	Moment of inertia		Moment of resistance		Torsion index		Weight	Page
			A (cm ²)	I _x (cm ⁴)	I _y (cm ⁴)	W _x (cm ³)	W _y (cm ³)	I _t (cm ⁴)		
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	26.9	85.6	6.0	38.1	31.70	7.70	3.2	2-41
45x90L 2NVS	10	12.0	25.9	90.6	5.7	40.3	23.34	9.65	3.3	2-42
45x90L 3NVS	10	11.8	87.2	25.2	38.8	5.6	25.70	6.60	3.2	2-42
45x90	10	15.4	124.6	32.8	27.7	14.6	15.40	6.61	4.2	2-43
45x180	10	25.5	766.7	57.3	85.2	25.5	44.40	17.00	6.9	2-43
45x270	10	61.9	3962.0	118.0	300.2	61.6	-	-	16.7	2-44
45x90x90L	10	21.2	152.1	152.1	19.1	19.1	34.90	11.60	5.7	2-44
45x90x90L 4N	10	22.1	160.8	160.8	30.6	30.6	65.30	17.20	6.0	2-45
90x90SL	10	14.1	130.2	130.2	28.9	28.9	42.50	13.90	3.8	2-45
90x90L	10	24.1	211.1	211.1	46.9	46.9	82.10	20.10	6.5	2-45
90x90L 4N	10	24.2	227.4	214.7	50.5	47.7	122.00	22.20	6.5	2-46
90x90L 4NVS	10	24.2	220.9	220.9	49.2	49.2	127.00	22.00	6.5	2-46
90x90	10	38.4	299.8	299.8	66.7	66.7	118.60	26.00	10.4	2-46
90x180L	10	42.8	1380.0	401.0	153.3	89.1	257.00	47.10	11.6	2-47
90x180	10	63.6	2138.3	544.3	237.6	121.0	429.00	64.00	17.2	2-47
90x360	10	90.2	14065.0	710.0	781.4	157.7	937.10	117.60	24.4	2-48
15x22.5	10	1.3	0.8	0.3	0.9	0.6	-	-	0.3	2-48
15x180	10	11.6	321.7	3.2	35.7	4.2	-	-	3.1	2-49
22.5x45	10	4.7	7.1	2.9	3.2	2.6	-	-	1.3	2-49
22.5x180	10	21.6	581.0	11.8	66.8	14.7	-	-	5.8	2-49
50x50L	10	9.3	21.2	21.2	8.5	8.5	5.37	4.30	2.5	2-50
50x100L	10	17.2	162.8	42.6	32.6	17.0	29.43	10.70	4.6	2-50
50x150L	10	25.8	540.0	64.2	72.0	25.7	52.10	20.50	6.9	2-51
100x100L	10	29.9	318.3	318.3	63.7	63.7	153.53	31.40	8.1	2-51
100x200L	10	54.0	2133.1	602.1	213.3	120.4	421.00	75.70	14.6	2-52

Profile	Slot	Profile surface	Moment of inertia		Moment of resistance		Torsion index		Weight 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)		
60x60L	10	9.6	32.4	32.4	10.8	10.8	13.20	8.70	2.6	2-52
60x60	10	14.4	52.2	52.2	17.4	17.4	15.90	8.80	3.9	2-53
60x90	10	25.8	214.2	90.5	47.6	30.2	45.80	18.00	7.0	2-53
50x50 Rectangular tube	10	4.5	15.1	15.1	5.7	5.7	-	-	1.2	2-54
Frame profile 22.5x30	10	3.2	1.7	3.0	1.5	2.0	-	-	0.9	2-57
Frame profile 22.5x45	10	3.4	6.7	1.7	2.8	1.3	-	-	0.9	2-58
Angle profile	10	4.5	8.8	6.9	3.2	2.3	-	-	1.2	2-59
Suspension profile	10	2.0	2.0	0.5	2.7	0.3	-	-	0.6	2-60
30x100 L/R Grooved plate	10	9.7	88.8	9.2	17.8	6.0	-	-	2.6	2-62
30x100 M Grooved plate	10	9.7	88.8	9.2	17.8	6.0	-	-	2.6	2-62
Profile rail 30x45C	10	4.4	10.3	5.6	4.2	3.7	-	-	1.2	2-65
U-profile	10	4.4	10.4	8.3	4.6	4.1	-	-	1.2	2-66
SP 2/R	8	5.2	4.3	11.7	2.4	5.2	-	-	1.4	2-66
SP 2/B	10	10.4	49.6	25.8	12.1	11.5	-	-	2.8	2-67
SP 2/B-50	8/10	6.9	16.1	16.9	5.3	7.5	-	-	1.9	2-67
SP 2/B-100	10	11.9	95.1	30.4	20.0	13.5	-	-	3.2	2-67
SP 2/BH	10	12.4	53.7	28.6	14.0	13.8	-	-	3.3	2-68
SP 4/R	10	26.1	222.0	95.5	84.9	16.4	-	-	3.5	2-68
D28		2.4	1.5	1.5	1.1	1.1	-	-	0.7	2-70
D28x55		5.9	3.2	88.3	2.3	32.1	-	-	1.6	2-71
D28L		1.8	1.3	1.3	1.0	1.0	-	-	0.5	2-74
D28L; N10		2.6	1.2	2.0	0.8	1.4	-	-	0.7	2-74
Section profile MV45x45	10	6.2	11.8	10.5	5.3	4.7	-	-	1.7	12-27
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 finishing 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 finishing:

Example: 40x40L

3 842 993 126 / 255 D17 D17V

00133799

Standard profile finishing with fixed material numbers

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

The available profile finishing is shown in pictograms in the order tables.

Example: 40x40L 2N

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

00133800

Quick & Easy – standard profile finishing

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

For more information on the available profile finishing, see page 18-2 and following as well as the fold-out section at the end of the catalog.

Example: 20x60

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

00133801

Quick & Easy – individual profile finishing

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

For more information, see page 18-2 and following as well as 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 MTpro profile configurator.

We offer:

- ▶ Customer-friendly configuration
- ▶ 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 by letters (A; B; C; ...)
– ascending in clockwise direction (see profile dimension drawings)
3. Define the parameters:
– Type of finishing (drilling, milling, miter cutting)
– Distance from profile end
4. Place order:
Conventionally by fax or, preferably online in our eShop

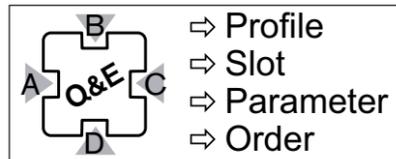
45x90L
3 842 993 662

3 842 993 662 / 393 / B = D17/-

Material number	Length	Standard finish
3 842 993 662	393	Through-hole D17 in slot B

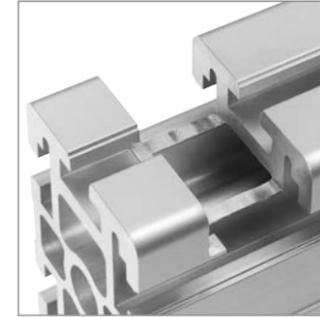
Logical structure of the order key

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



Notice:

For a detailed description of the order key, please refer to page 18-2ff



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	Finishing	Notices
M6	Thread forming	–
M8	Thread forming	–
M12	Thread cutting	–
M16	Thread forming	pre-drilling in some cases

Drilling jigs

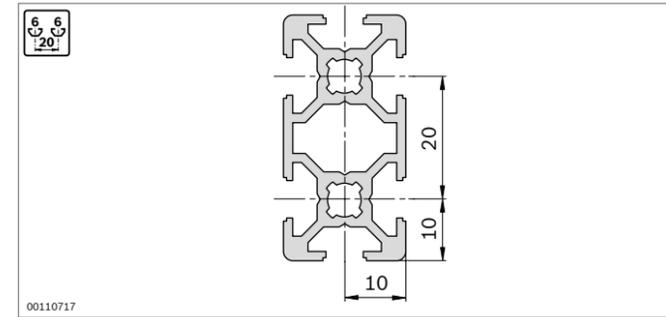
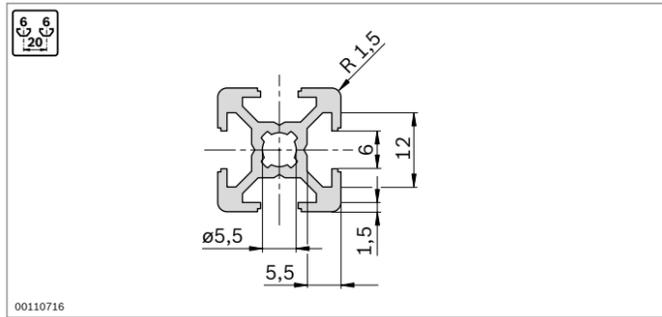
In the tools section you will find useful drilling jigs for the Rexroth standard finishes (p. 14-2).

Strut profiles with 6 mm slot

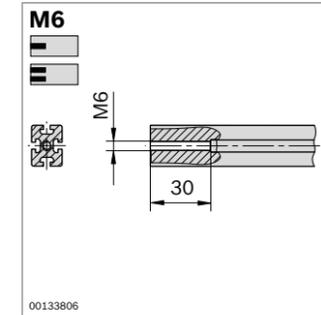
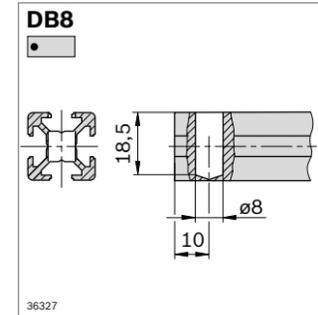
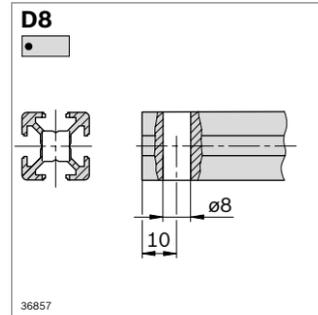
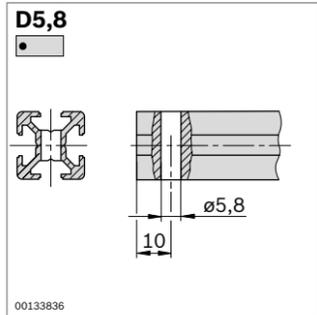
Strut profiles with 6 mm slot for light structures, such as supports and lab fixtures.

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



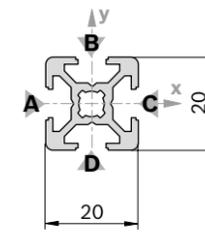
Minimum profile lengths (mm) for Quick & Easy standard profile finishing on one or both sides

	-	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

Reduced maximum profile lengths L_{max i} at customized profile finishing

L _{max} (mm)	L _{max i} (mm)
6070	5400
3000	2300
2000	1300

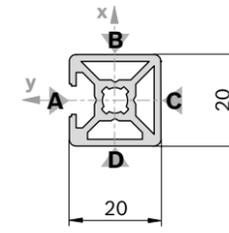
20x20
 A = 1,6 cm²
 I_x = 0,7 cm⁴
 I_y = 0,7 cm⁴
 W_x = 0,7 cm³
 W_y = 0,7 cm³
 m = 0,4 kg/m



Cover cap	Color	ESD	No.
20x20 (1x)	Signal gray	100	3 842 548 742
20x20 (1x)	Black	20	3 842 548 743

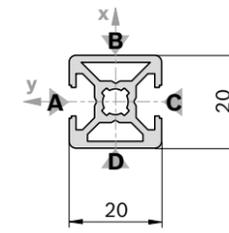
Material: PP

20x20 1N
 A = 1,9 cm²
 I_x = 0,8 cm⁴
 I_y = 0,8 cm⁴
 W_x = 0,8 cm³
 W_y = 0,8 cm³
 m = 0,5 kg/m



Cover cap: see 20x20

20x20 2N
 A = 1,8 cm²
 I_x = 0,7 cm⁴
 I_y = 0,8 cm⁴
 W_x = 0,7 cm³
 W_y = 0,8 cm³
 m = 0,5 kg/m



Cover cap: see 20x20

20x20	L (mm)	No.
1 pc	50 ... 3000	3 842 992 888 / L
1 pc M6	50 ... 3000	3 842 993 230 / L
1 pc M6-M6	70 ... 3000	3 842 993 231 / L
1 pc M6-D8	70 ... 3000	3 842 993 494 / L
1 pc D8	50 ... 3000	3 842 993 493 / L
1 pc D8-D8	50 ... 3000	3 842 993 495 / L
1 pc D8-D8V	50 ... 3000	3 842 993 496 / L
20 pcs	3000	3 842 517 179

Quick & Easy (p. 2-7, see fold-out section)

20x20	3 842 993 694 / ...
Length L (mm)	50 ... 3000
Standard profile finishing (note minimum length, p. 2-10)	M6 / D5.8 / D8 / DB8
Customized profile finishing (L _{max i} = 2300 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

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

20x20 1N	L (mm)	No.
1 pc	50 ... 3000	3 842 993 421 / L
20 pcs	3000	3 842 536 475

Quick & Easy (p. 2-7, see fold-out section)

20x20 1N	3 842 993 690 / ...
Length L (mm)	50 ... 3000
Standard profile finishing (note minimum length, p. 2-10)	M6 / D5.8 / D8 / DB8
Customized profile finishing (L _{max i} = 2300 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

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

20x20 2N	L (mm)	No.
1 pc	50 ... 3000	3 842 993 422 / L
20 pcs	3000	3 842 536 478

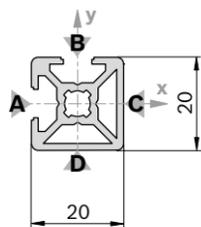
Quick & Easy (p. 2-7, see fold-out section)

20x20 2N	3 842 993 691 / ...
Length L (mm)	50 ... 3000
Standard profile finishing (note minimum length, p. 2-10)	M6 / D5.8 / D8 / DB8
Customized profile finishing (L _{max i} = 2300 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

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

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



Cover cap: see 20x20

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

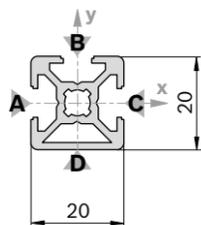
Quick & Easy (p. 2-7, see fold-out section)

20x20 2NVS		3 842 993 692 /	
Length L (mm)	50 ... 3000		
Standard profile finishing	M6 / D5.8 / D8 / DB8		
(note minimum length, p. 2-10)			
Customized profile finishing	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



Cover cap: see 20x20

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

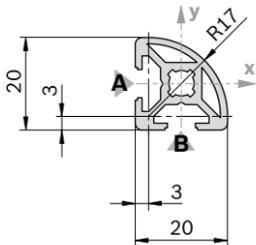
Quick & Easy (p. 2-7, see fold-out section)

20x20 3N		3 842 993 693 / ...	
Length L (mm)	50 ... 3000		
Standard profile finishing	M6 / D5.8 / D8 / DB8		
(note minimum length, p. 2-10)			
Customized profile finishing	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



Cover 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

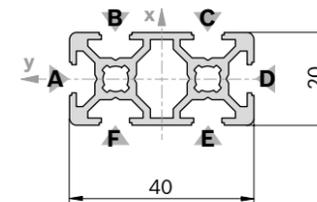
20x20 R		L (mm)	No.
1 pc		50 ... 3000	3 842 992 890 / L
20 pcs		3000	3 842 517 183

Quick & Easy (p. 2-7, see fold-out section)

20x20 R		3 842 993 695 /	
Length L (mm)	50 ... 3000		
Standard profile finishing	M6		
(note minimum length, p. 2-10)			
Customized profile finishing	—		
(L _{max i} = 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

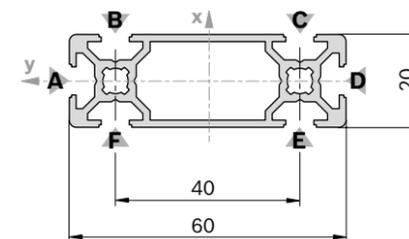


Cover cap	Color	ESD	No.
20x20 (2x)	Signal gray	100	3 842 548 742
20x20 (2x)	Black	20	3 842 548 743

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

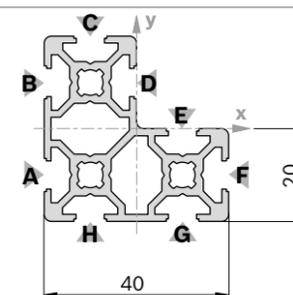


Cover cap	Color	ESD	No.
20x60 (1x)	Signal gray	20	3 842 548 828
20x60 (1x)	Black	20	3 842 548 829

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



Cover 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	50 ... 3000	3 842 993 499 / L
1 pc	D8	50 ... 3000	3 842 993 500 / L
1 pc	D8V	50 ... 3000	3 842 993 498 / L
1 pc	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. 2-7, see fold-out section)

20x40		3 842 993 696 / ...	
Length L (mm)	50 ... 3000		
Standard profile finishing	M6 / D5.8 / D8 / DB8		
(note minimum length, p. 2-10)			
Customized profile finishing	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. 2-7, see fold-out section)

20x60		3 842 993 698 / ...	
Length L (mm)	50 ... 3000		
Standard profile finishing	M6 / D5.8 (B,C,E,F) ¹⁾ / D8 (B,C,E,F) ¹⁾ / DB8		
(note minimum length, p. 2-10)			
Customized profile finishing	DI / DIS / MT / MTS / MI / MIS / DG ²⁾		

¹⁾ For the specified slots

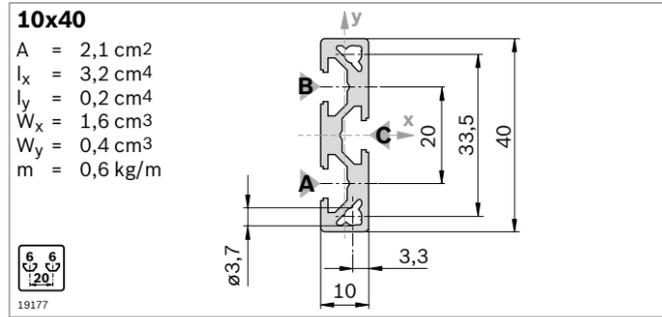
²⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 404 / 508 mm

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

Quick & Easy (p. 2-7, see fold-out section)

20x40x40		3 842 993 697 / ...	
Length L (mm)	50 ... 3000		
Standard profile finishing	M6 / D5.8 / D8 / DB8		
(note minimum length, p. 2-10)			
Customized profile finishing	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾		

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



Cover 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. 2-7, see fold-out section)

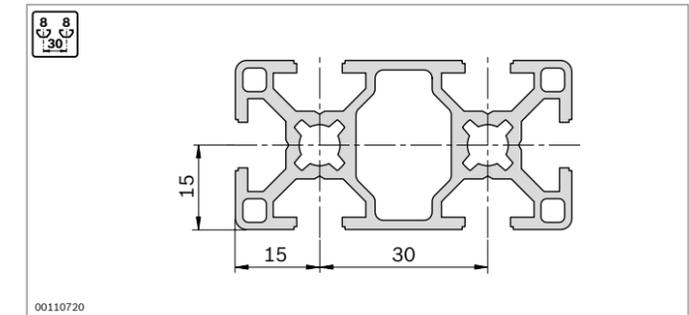
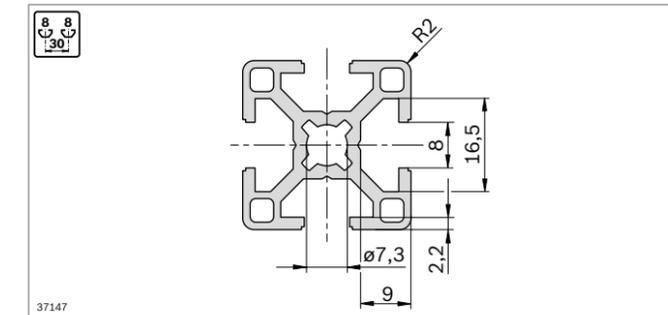
10x40	3 842 993 683 / ...
Length L (mm)	50 ... 3000
Standard profile finishing (note minimum length, p. 2-10)	D5.8 / D8
Customized profile finishing	—

Strut profiles with 8 mm slot

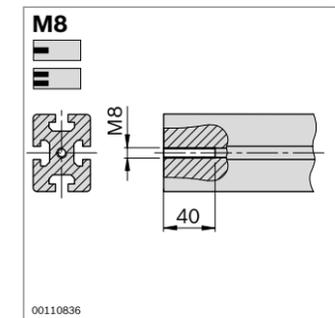
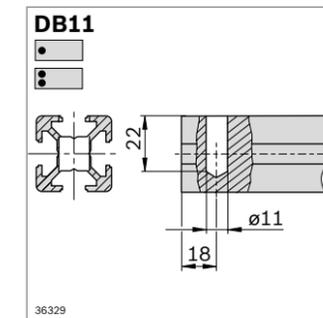
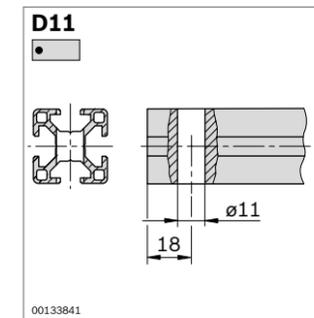
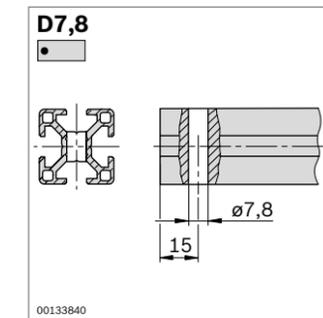
Strut profiles with a 8 mm slot are suitable for medium loads, such as material shuttles, light fixtures, frames and partition walls.

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 finishing 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

Reduced maximum profile lengths L_{max i} at customized profile finishing

L _{max} (mm)	L _{max i} (mm)
6070	5400
3000	2300
2000	1300

30x30

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

Cover cap	Color	ESD	No.
30x30 (1x)	Signal gray	100	3 842 548 744
30x30 (1x)	Black	20	3 842 548 745

Material: PP

Cover 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

Cover cap ZN	ESD No.	FS
30x30-ZN	3 842 518 204	FS1

Material: Cover cap: Diecast zinc
 Fastening material: Steel; galvanized

30x30 1N

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

Cover cap: see 30x30

30x30 2N

A = 3,5 cm²
 I_x = 2,8 cm⁴
 I_y = 3,5 cm⁴
 W_x = 2,1 cm³
 W_y = 2,7 cm³
 m = 1,0 kg/m

Cover cap: see 30x30

30x30	L (mm)	No.
1 pc	50 ... 6070	3 842 990 720 / L
1 pc M8	50 ... 6000	3 842 990 721 / L
1 pc M8-M8	80 ... 6000	3 842 990 723 / L
1 pc M8-D11	70 ... 6000	3 842 990 724 / L
1 pc D7,8-D7,8	60 ... 6000	3 842 992 965 / L
1 pc D11	50 ... 6000	3 842 990 722 / L
1 pc D11-D11	60 ... 6000	3 842 990 725 / L
1 pc D11-D11V	60 ... 6000	3 842 990 726 / L
20 pcs	6070	3 842 557 206

Quick & Easy (p. 2-7, see fold-out section)

30x30	3 842 993 703 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm	M8 / D7.8 / D11 / DB11 (note minimum length, p. 2-15)
Customized profile finishing (L _{max i} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

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



30x30 1N	L (mm)	No.
1 pc	50 ... 6070	3 842 992 397 / L
20 pcs	6070	3 842 557 208

Quick & Easy (p. 2-7, see fold-out section)

30x30 1N	3 842 993 704 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm	M8 / D7.8 / D11 / DB11 (note minimum length, p. 2-15)
Customized profile finishing (L _{max i} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

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

30x30 2N	L (mm)	No.
1 pc	50 ... 6070	3 842 992 399 / L
20 pcs	6070	3 842 557 220

Quick & Easy (p. 2-7, see fold-out section)

30x30 2N	3 842 993 705 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm	M8 / D7.8 / D11 / DB11 (note minimum length, p. 2-15)
Customized profile finishing (L _{max i} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

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

30x30 2NVS

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

Cover cap: see 30x30

30x30 3N

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

Cover cap: see 30x30

30x30°

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

Cover cap	Color	ESD	No.
30x30° (1x)	Signal gray	20	3 842 551 008
30x30° (1x)	Black	20	3 842 551 009

Material: PP

30x30 2NVS	L (mm)	No.
1 pc	50 ... 6070	3 842 992 398 / L
20 pcs	6070	3 842 557 209

Quick & Easy (p. 2-7, see fold-out section)

30x30 2NVS	3 842 993 706 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm	M8 / D7.8 / D11 / DB11 (note minimum length, p. 2-15)
Customized profile finishing (L _{max i} = 5400 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 ... 6070	3 842 992 400 / L
20 pcs	6070	3 842 557 221

Quick & Easy (p. 2-7, see fold-out section)

30x30 3N	3 842 993 707 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm	M8 / D7.8 / D11 / DB11 (note minimum length, p. 2-15)
Customized profile finishing (L _{max i} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

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

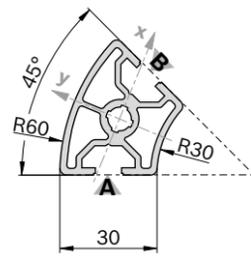
30x30°	L (mm)	No.
1 pc	50 ... 6070	3 842 993 010 / L
20 pcs	6070	3 842 557 951

Quick & Easy (p. 2-7, see fold-out section)

30x30°	3 842 993 708 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm	M8 (note minimum length, p. 2-15)
Customized profile finishing	-

30x45°

A = 4,0 cm²
 $I_x = 3,6 \text{ cm}^4$
 $I_y = 5,1 \text{ cm}^4$
 $W_x = 2,1 \text{ cm}^3$
 $W_y = 2,3 \text{ cm}^3$
 m = 1,1 kg/m

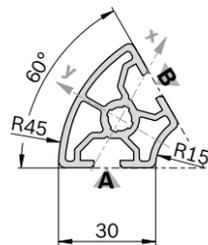


Cover cap	Color	ESD	No.
30x45° (1x)	Signal gray	20	3 842 551 010
30x45° (1x)	Black	20	3 842 551 011

Material: PP

30x60°

A = 3,6 cm²
 $I_x = 3,0 \text{ cm}^4$
 $I_y = 4,1 \text{ cm}^4$
 $W_x = 1,7 \text{ cm}^3$
 $W_y = 1,9 \text{ cm}^3$
 m = 1,0 kg/m

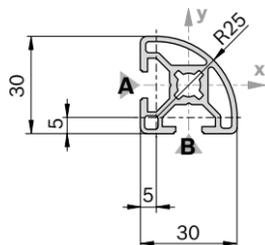


Cover cap	Color	ESD	No.
30x60° (1x)	Signal gray	20	3 842 551 012
30x60° (1x)	Black	20	3 842 551 013

Material: PP

30x30 R

A = 2,9 cm²
 $I_x = 2,3 \text{ cm}^4$
 $I_y = 2,3 \text{ cm}^4$
 $W_x = 1,4 \text{ cm}^3$
 $W_y = 1,4 \text{ cm}^3$
 m = 0,8 kg/m



Cover 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 ... 6070	3 842 993 011 / L
20 pcs	6070	3 842 557 952

Quick & Easy (p. 2-7, see fold-out section)

30x45°	3 842 993 711 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$	M8
(note minimum length, p. 2-15)	
Customized profile finishing	—

30x60°	L (mm)	No.
1 pc	50 ... 6070	3 842 993 012 / L
20 pcs	6070	3 842 557 953

Quick & Easy (p. 2-7, see fold-out section)

30x60°	3 842 993 714 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$	M8
(note minimum length, p. 2-15)	
Customized profile finishing	—

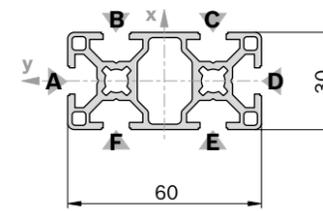
30x30 R	L (mm)	No.
1 pc	50 ... 6070	3 842 992 896 / L
20 pcs	6070	3 842 557 947

Quick & Easy (p. 2-7, see fold-out section)

30x30 R	3 842 993 709 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$	M8 / DB11
(note minimum length, p. 2-15)	
Customized profile finishing	—

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



Cover 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

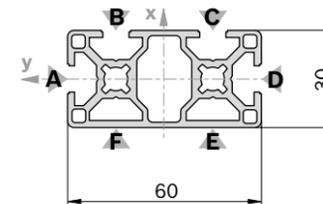
Material: PP

Cover 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

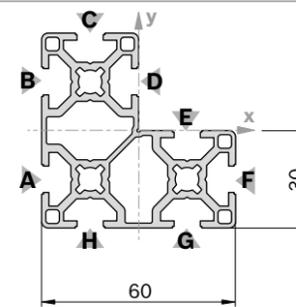
A = 5,8 cm²
 $I_x = 20,2 \text{ cm}^4$
 $I_y = 5,5 \text{ cm}^4$
 $W_x = 6,7 \text{ cm}^3$
 $W_y = 3,8 \text{ cm}^3$
 m = 1,6 kg/m



Cover 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



Cover 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 ... 6070	3 842 992 457 / L
1 pc M8	50 ... 6000	3 842 992 458 / L
1 pc M8	80 ... 6000	3 842 992 926 / L
1 pc D11	50 ... 6000	3 842 992 459 / L
1 pc D11	60 ... 6000	3 842 992 460 / L
1 pc D11	60 ... 6000	3 842 992 463 / L
1 pc D11V	60 ... 6000	3 842 992 462 / L
10 pcs	6070	3 842 557 205

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

Quick & Easy (p. 2-7, see fold-out section)

30x60	3 842 993 712 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$	M8 / D7.8 / D11 / DB11
(note minimum length, p. 2-15)	
Customized profile finishing	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ $DG_{max} = 45^\circ$; $L_{min1} / L_{min2} = 404 / 508 \text{ mm}$

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

Quick & Easy (p. 2-7, see fold-out section)

30x60 4N	3 842 993 713 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$	M8 / D7.8 / D11 / DB11
(note minimum length, p. 2-15)	
Customized profile finishing	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ $DG_{max} = 45^\circ$; $L_{min1} / L_{min2} = 404 / 508 \text{ mm}$

30x60x60	L (mm)	No.
1 pc	50 ... 6070	3 842 993 016 / L
20 pcs	6070	3 842 557 241

Quick & Easy (p. 2-7, see fold-out section)

30x60x60	3 842 993 715 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$	M8 / D7.8 / D11 / DB11
(note minimum length, p. 2-15)	
Customized profile finishing	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ $DG_{max} = 45^\circ$; $L_{min1} / L_{min2} = 404 / 508 \text{ mm}$

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

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

Quick & Easy (p. 2-7, see fold-out section)

30x90	3 842 993 762 / ...
-------	---------------------

Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-15)	M8 / D7.8 (B,C,D,F, G,H) ¹⁾ / D11 (B,C,D, F,G,H) ¹⁾ / DB11

Customized profile finishing ($L_{max i} = 5400 \text{ mm}$)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾
---	---

¹⁾ For the specified slots

²⁾ $DG_{max} = 45^\circ$; $L_{min1} / L_{min2} = 150 / 150 \text{ mm}$

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

Material: PP

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

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

Quick & Easy (p. 2-7, see fold-out section)

30x120	3 842 993 763 / ...
--------	---------------------

Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-15)	M8 / D7.8 (B,C,D,E, G,H,I,J) ¹⁾ / D11 (B,C,D, E,G,H,I,J) ¹⁾ / DB11

Customized profile finishing ($L_{max i} = 5400 \text{ mm}$)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾
---	---

¹⁾ For the specified slots

²⁾ $DG_{max} = 45^\circ$; $L_{min1} / L_{min2} = 150 / 150 \text{ mm}$

Cover 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		3 842 548 745
30x60 (2x)	Black		3 842 548 781

Material: PP

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

Material: PP

30x45
 $A = 4,0 \text{ cm}^2$
 $I_x = 8,1 \text{ cm}^4$
 $I_y = 3,9 \text{ cm}^4$
 $W_x = 3,9 \text{ cm}^3$
 $W_y = 2,9 \text{ cm}^3$
 $m = 1,1 \text{ kg/m}$

19192

30x45	L (mm)	No.
1 pc		50 ... 6070 3 842 992 430 / L
1 pc	M8	50 ... 6000 3 842 992 431 / L
18 pcs		6070 3 842 557 203

Quick & Easy (p. 2-7, see fold-out section)

30x45	3 842 993 710 / ...
-------	---------------------

Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-15)	M8 / D7.8 (A,C) ¹⁾ / D9.8 (B) ¹⁾ / D11 (A,C) ¹⁾ / DB11 / D17 (B) ¹⁾

Customized profile finishing ($L_{max i} = 5400 \text{ mm}$)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾
---	---

¹⁾ For the specified slots

²⁾ $DG_{max} = 45^\circ$; $L_{min1} / L_{min2} = 378 / 456 \text{ mm}$

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

Material: PP

60x60 8N
 $A = 9,8 \text{ cm}^2$
 $I_x = 39,7 \text{ cm}^4$
 $I_y = 39,7 \text{ cm}^4$
 $W_x = 13,2 \text{ cm}^3$
 $W_y = 13,2 \text{ cm}^3$
 $m = 2,6 \text{ kg/m}$

19193

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

Quick & Easy (p. 2-7, see fold-out section)

60x60 8N	3 842 993 669 / ...
----------	---------------------

Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-15)	M8 / D7.8 / D11 / DB11

Customized profile finishing ($L_{max i} = 5400 \text{ mm}$)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾
---	---

²⁾ $DG_{max} = 45^\circ$; $L_{min1} / L_{min2} = 404 / 508 \text{ mm}$

Cover cap	Color	ESD	No.
60x60 8N (1x)	Signal gray	20	3 842 551 046
60x60 8N (1x)	Black		3 842 551 047

Material: PP

11x20
 $A = 1,0 \text{ cm}^2$
 $I_x = 0,5 \text{ cm}^4$
 $I_y = 0,1 \text{ cm}^4$
 $W_x = 0,7 \text{ cm}^3$
 $W_y = 0,3 \text{ cm}^3$
 $m = 0,3 \text{ kg/m}$

19194

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

Quick & Easy (p. 2-7, see fold-out section)

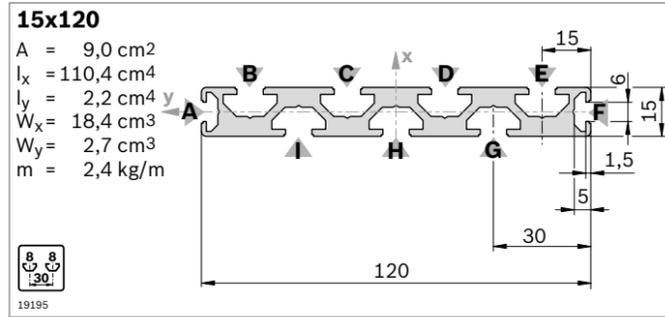
11x20	3 842 993 688 / ...
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Length L (mm)	50 ... 2000
Standard profile finishing (note minimum length, p. 2-15)	D7.8 / D11

Customized profile finishing	—
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Cover cap	Color	ESD	No.
11x20 (1x)	Signal gray	20	3 842 551 044
11x20 (1x)	Black		3 842 551 045

Material: PP



Cover 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. 2-7, see fold-out section)

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

¹⁾ For the specified slots

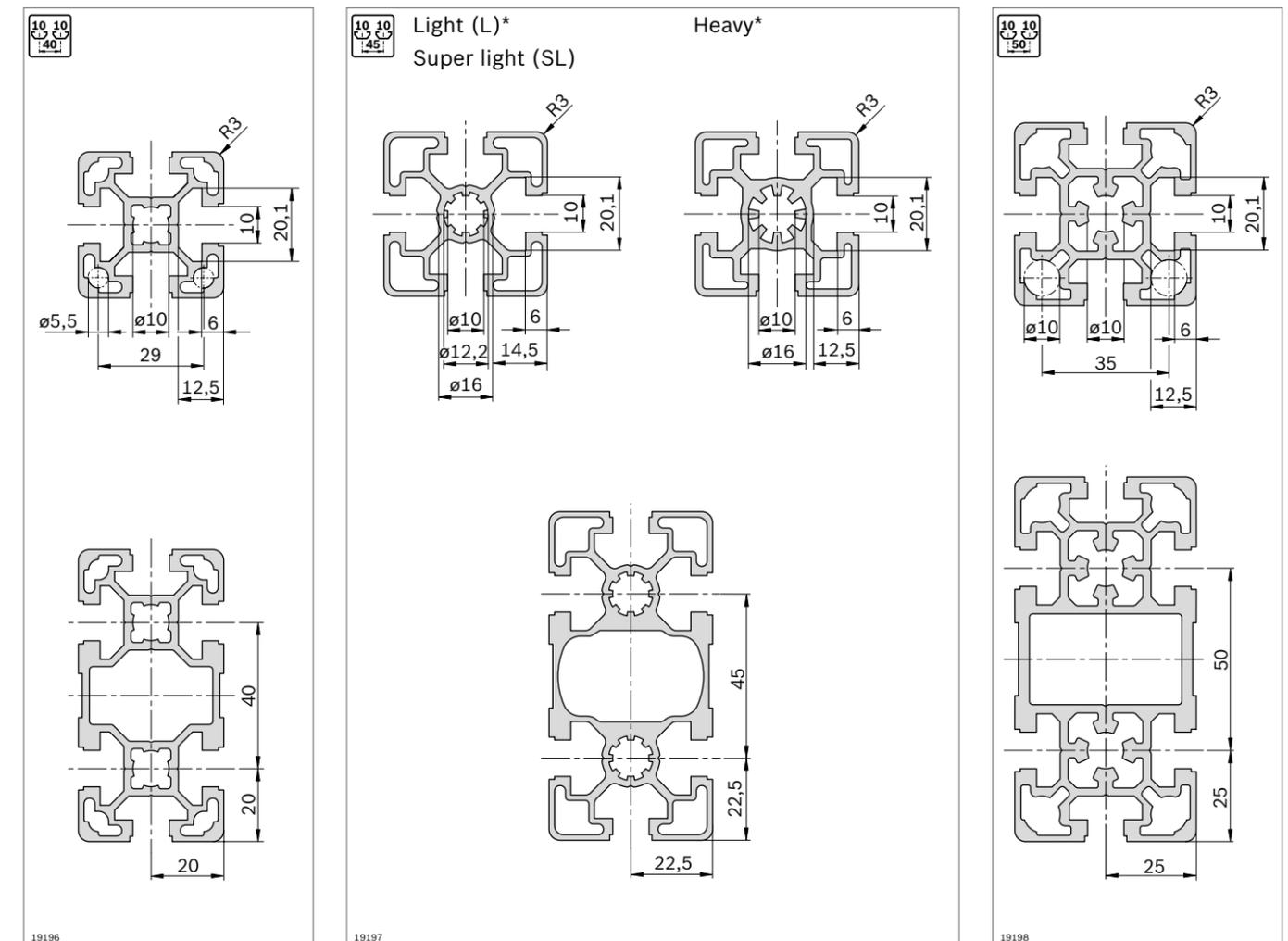
Strut profiles with 10 mm slot

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.

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, protection devices or frames, for instance.

Thanks to their computer-optimized design, the strut

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 finishing 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

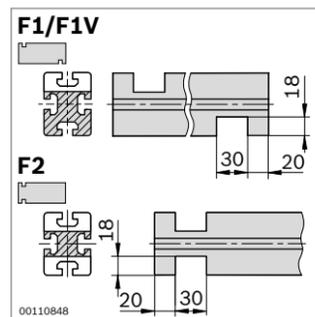
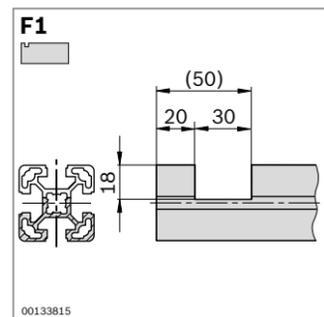
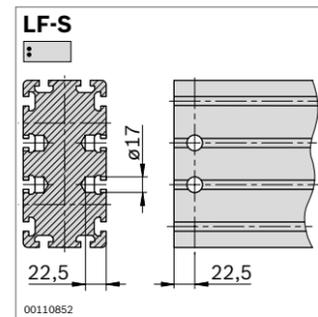
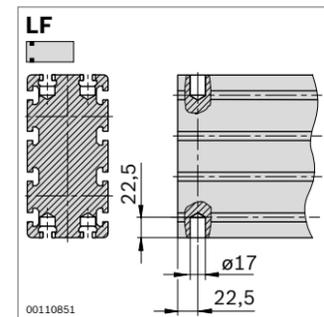
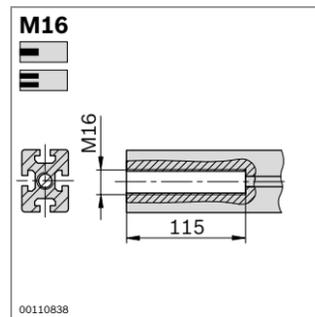
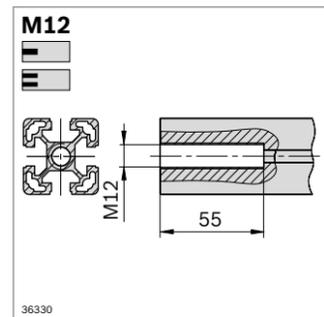
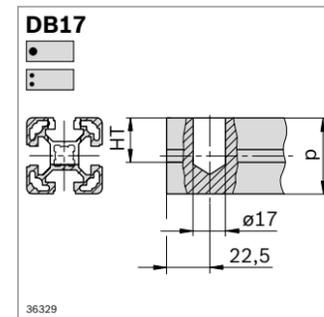
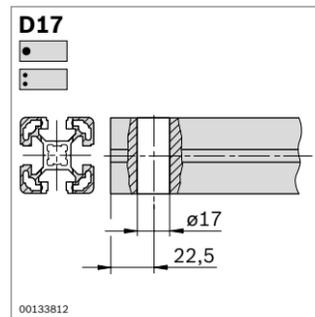
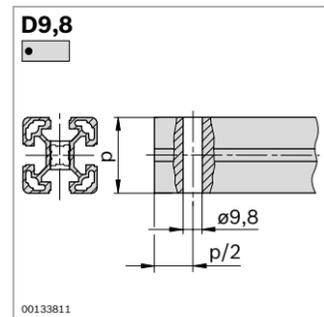
For applications with high loads, we recommend especially stable profiles with 10 mm slots, e.g. for heavy work tables, fixtures, machine frames, transport shuttles, protective enclosures, and handling systems.

Reduced maximum profile lengths $L_{max i}$ at customized profile finishing

L_{max} (mm)	$L_{max i}$ (mm)
6070	5400
3000	2300
2000	1300

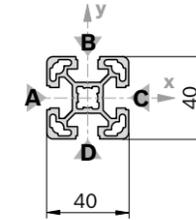
Due to its very sturdy design, this slot allows maximum strength connections.

Profile finishing



40x40L

A = 5,6 cm²
 $I_x = 9,1 \text{ cm}^4$
 $I_y = 9,1 \text{ cm}^4$
 $W_x = 4,5 \text{ cm}^3$
 $W_y = 4,5 \text{ cm}^3$
 m = 1,5 kg/m



Cover cap	Color	ESD	No.
40x40 (1x)	Signal gray	100	3 842 548 746
40x40 (1x)	Black	20	3 842 548 747

Material: PP

Cover cap with hole	Color	ESD	No.
40x40 (1x)	Signal gray	20	3 842 548 782
40x40 (1x)	Black	20	3 842 548 783

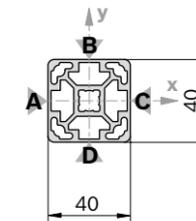
Material: PP

Cover cap ZN	ESD No.	FS
40x40-ZN	3 842 541 807	FS2

Material: Cover cap: Diecast zinc
 Fastening material: Steel; galvanized

40x40L ON

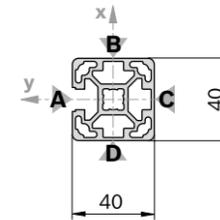
A = 6,3 cm²
 $I_x = 10,4 \text{ cm}^4$
 $I_y = 10,4 \text{ cm}^4$
 $W_x = 5,2 \text{ cm}^3$
 $W_y = 5,2 \text{ cm}^3$
 m = 1,7 kg/m



Cover cap: see 40x40

40x40L 1N

A = 6,1 cm²
 $I_x = 9,8 \text{ cm}^4$
 $I_y = 10,3 \text{ cm}^4$
 $W_x = 4,7 \text{ cm}^3$
 $W_y = 5,1 \text{ cm}^3$
 m = 1,7 kg/m



Cover cap: see 40x40

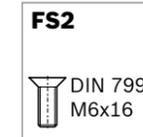
40x40L	L (mm)	No.
1 pc	50 ... 6070	3 842 993 120 / L
1 pc M12	60 ... 6000	3 842 993 121 / L
1 pc M12	110 ... 6000	3 842 993 122 / L
1 pc M12	90 ... 6000	3 842 993 123 / L
1 pc D17	60 ... 6000	3 842 993 124 / L
1 pc D17	80 ... 6000	3 842 993 125 / L
1 pc D17	80 ... 6000	3 842 993 126 / L
1 pc D9.8	80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

Quick & Easy (p. 2-7, see fold-out section)

40x40L	3 842 993 724 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-24)	M12 / D9.8 / D17 / DB17 / F1 (A) ¹⁾
Customized profile finishing ($L_{max i} = 5400 \text{ mm}$)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

¹⁾ For the specified slots

²⁾ $DG_{max} = 45^\circ$; $L_{min1} / L_{min2} = 370 / 440 \text{ mm}$



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

Quick & Easy (p. 2-7, see fold-out section)

40x40L ON	3 842 993 760 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-24)	M12 / D9.8 / D17 / DB17
Customized profile finishing ($L_{max i} = 5400 \text{ mm}$)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ $DG_{max} = 45^\circ$; $L_{min1} / L_{min2} = 370 / 440 \text{ mm}$

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

Quick & Easy (p. 2-7, see fold-out section)

40x40L 1N	3 842 993 719 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-24)	M12 / D9.8 / D17 / DB17
Customized profile finishing ($L_{max i} = 5400 \text{ mm}$)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ $DG_{max} = 45^\circ$; $L_{min1} / L_{min2} = 370 / 440 \text{ mm}$

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

19202

Cover cap: see 40x40

40x40L 2N		L (mm)	No.
1 pc		50 ... 6070	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. 2-7, see fold-out section)

40x40L 2N		3 842 993 720 / ...	
Length L (mm)		50 ... 6070	
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)		M12 / D9.8 / D17 / DB17	
Customized profile finishing (L _{max i} = 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

19203

Cover cap: see 40x40

40x40L 2NVS		L (mm)	No.
1 pc		50 ... 6070	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. 2-7, see fold-out section)

40x40L 2NVS		3 842 993 721 / ...	
Length L (mm)		50 ... 6070	
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)		M12 / D9.8 / D17 / DB17	
Customized profile finishing (L _{max i} = 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

19204

Cover cap: see 40x40

40x40L 3N		L (mm)	No.
1 pc		50 ... 6070	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. 2-7, see fold-out section)

40x40L 3N		3 842 993 722 / ...	
Length L (mm)		50 ... 6070	
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)		M12 / D9.8 / D17 / DB17	
Customized profile finishing (L _{max i} = 5400 mm)		DI / DIS / MT / MTS / MI / MIS / DG ¹⁾	

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

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

Cover cap	Color	ESD	No.
40x30° (1x)	Signal gray	20	3 842 551 014
40x30° (1x)	Black		3 842 551 015
Material:	PP		

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

Cover cap	Color	ESD	No.
40x45° (1x)	Signal gray	20	3 842 551 016
40x45° (1x)	Black		3 842 551 017
Material:	PP		

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

Cover cap	Color	ESD	No.
40x60° (1x)	Signal gray	20	3 842 551 018
40x60° (1x)	Black		3 842 551 019
Material:	PP		

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

Quick & Easy (p. 2-7, see fold-out section)

40x30°		3 842 993 718 / ...	
Length L (mm)		50 ... 6070	
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)		M12	
Customized profile finishing		-	

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

Quick & Easy (p. 2-7, see fold-out section)

40x45°		3 842 993 726 / ...	
Length L (mm)		50 ... 6070	
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)		M12	
Customized profile finishing		-	

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

Quick & Easy (p. 2-7, see fold-out section)

40x60°		3 842 993 727 / ...	
Length L (mm)		50 ... 6070	
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)		M12	
Customized profile finishing		-	

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

19208

Cover 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

19209

Cover 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

Cover 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 ... 6070	3 842 993 184 / L
20 pcs	6070	3 842 529 359

Quick & Easy (p. 2-7, see fold-out section)

40x40L R	3 842 993 725 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm	M12 / DB17 (A,B) ¹⁾ (note minimum length, p. 2-24)
Customized profile finishing	–

¹⁾ For the specified slots

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

Quick & Easy (p. 2-7, see fold-out section)

40x40 HR	3 842 993 723 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm	M12 / DB17 (note minimum length, p. 2-24)
Customized profile finishing (L _{max i} = 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

Cover 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 2N

A = 10,9 cm²
 I_x = 66,6 cm⁴
 I_y = 20,8 cm⁴
 W_x = 16,6 cm³
 W_y = 10,4 cm³
 m = 2,9 kg/m

33094

Cover cap: see 40x80

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

Cover cap: see 40x80

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

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

Quick & Easy (p. 2-7, see fold-out section)

40x80L	3 842 993 728 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm	M12 / D9.8 / D17 / DB17 / F1 (A,D) ¹⁾ (note minimum length, p. 2-24)
Customized profile finishing (L _{max i} = 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 2N	L (mm)	No.
12 pcs	6070	3 842 555 650

Quick & Easy (p. 2-7, see fold-out section)

40x80L 2N	3 842 993 768 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm	M12 / D9.8 / D17 / DB17 / F1 (A,D) ¹⁾ (note minimum length, p. 2-24)
Customized profile finishing (L _{max i} = 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 ... 6070	3 842 993 424 / L
12 pcs	6070	3 842 536 484

Quick & Easy (p. 2-7, see fold-out section)

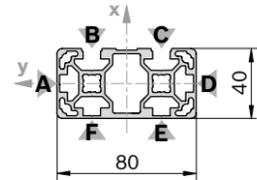
40x80L 4N	3 842 993 729 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm	M12 / D9.8 / D17 / DB17 / F1 (A,D) ¹⁾ (note minimum length, p. 2-24)
Customized profile finishing (L _{max i} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

¹⁾ For the specified slots

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

40x80L 2NVS

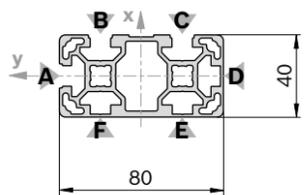
A = 10,7 cm²
 I_x = 67,8 cm⁴
 I_y = 19,0 cm⁴
 W_x = 17,0 cm³
 W_y = 9,5 cm³
 m = 2,9 kg/m



Cover cap: see 40x80

40x80L 3NVS

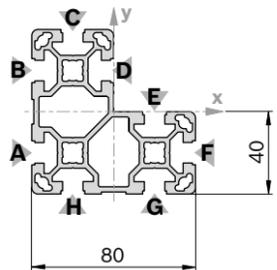
A = 10,6 cm²
 I_x = 67,8 cm⁴
 I_y = 19,0 cm⁴
 W_x = 17,0 cm³
 W_y = 9,5 cm³
 m = 2,9 kg/m



Cover cap: see 40x80

40x80x80L

A = 15,4 cm²
 I_x = 96,6 cm⁴
 I_y = 96,6 cm⁴
 W_x = 24,2 cm³
 W_y = 24,2 cm³
 m = 4,2 kg/m



Cover cap	Color	ESD	No.
40x80x80 (1x)	Signal gray		20 3 842 548 790
40x80x80 (1x)	Black	⚡	20 3 842 548 791

Material: PP

40x80L 2NVS	L (mm)	No.
12 pcs	6070	3 842 555 649

Quick & Easy (p. 2-7, see fold-out section)

40x80 L 2NVS	3 842 993 767 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	M12 / D9.8 / D17 / DB17

Customized profile finishing (L_{max i} = 5400 mm) DI / DIS / MT / MTS / MI / MIS / DG¹⁾

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

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

Quick & Easy (p. 2-7, see fold-out section)

40x80L 3NVS	3 842 993 753 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	M12 / D9.8 / D17 / DB17

Customized profile finishing (L_{max i} = 5400 mm) DI / DIS / MT / MTS / MI / MIS / DG¹⁾

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

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

Quick & Easy (p. 2-7, see fold-out section)

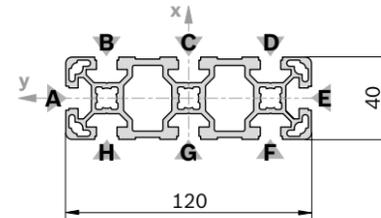
40x80x80L	3 842 993 730 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	M12 / D9.8 / D17 / DB17

Customized profile finishing (L_{max i} = 5400 mm) DI / DIS / MT / MTS / MI / MIS / DG¹⁾

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

40x120L

A = 15,5 cm²
 I_x = 203,2 cm⁴
 I_y = 27,8 cm⁴
 W_x = 33,9 cm³
 W_y = 13,9 cm³
 m = 4,2 kg/m



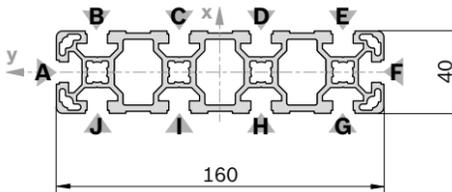
Cover cap	Color	ESD	No.
40x40 (1x)	Signal gray		100 3 842 548 746
40x80 (1x)	Signal gray		20 3 842 548 748
40x40 (1x)	Black	⚡	20 3 842 548 747
40x80 (1x)	Black	⚡	20 3 842 548 749

Material: PP

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

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



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

Material: PP

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

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

Quick & Easy (p. 2-7, see fold-out section)

40x120L	3 842 993 716 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	M12 / D9.8 (B,C,D,F, G,H) ¹⁾ / D17 (B,C,D,F, G,H) ¹⁾ / DB17 / F1 (A,E) ¹⁾

Customized profile finishing (L_{max i} = 5400 mm) DI / DIS / MT / MTS / MI / MIS / DG²⁾

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

40x160L	L (mm)	No.
1 pc	50 ... 6070	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 core holes
 D17: in slots B/J, C/I, D/H, E/G

Quick & Easy (p. 2-7, see fold-out section)

40x160L	3 842 993 717 / ...
Length L (mm)	80 ... 6070
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	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⁾

Customized profile finishing (L_{max i} = 5400 mm) DI / DIS / MT / MTS / MI / MIS / DG²⁾

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

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

19216

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

Material: PP

80x80L	L (mm)	No.
1 pc	50 ... 6070	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 core holes
 D17: in slots A/F, B/E
 D17V: in slots C/H, D/G

Quick & Easy (p. 2-7, see fold-out section)

80x80L	No.
3 842 993 674 / ...	
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	M12 / D9.8 / D17 / DB17 / F1
Customized profile finishing (L _{max i} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾
¹⁾ DG _{max} = 45°; L _{min1} / L _{min2} = 439 / 578 mm	

80x80L 4N

A = 19,1 cm²
 I_x = 142,5 cm⁴
 I_y = 142,5 cm⁴
 W_x = 35,6 cm³
 W_y = 35,6 cm³
 m = 5,2 kg/m

36363

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

Material: PP

80x80L 4N	L (mm)	No.
6 pcs	6070	3 842 555 651

Quick & Easy (p. 2-7, see fold-out section)

80x80L 4N	No.
3 842 993 769 / ...	
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	M12 / D9.8 / D17 / DB17 / F1 (A, B, E, F) ¹⁾
Customized profile finishing (L _{max i} = 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 4NVS

A = 19,3 cm²
 I_x = 142,5 cm⁴
 I_y = 142,5 cm⁴
 W_x = 35,6 cm³
 W_y = 35,6 cm³
 m = 5,2 kg/m

19416

Cover cap: see 80x80

80x80L 6N

A = 18,8 cm²
 I_x = 134,1 cm⁴
 I_y = 140,9 cm⁴
 W_x = 33,5 cm³
 W_y = 36,2 cm³
 m = 5,1 kg/m

19417

Cover cap: see 80x80

40x120x120L

A = 24,6 cm²
 I_x = 318,0 cm⁴
 I_y = 318,0 cm⁴
 W_x = 42,2 cm³
 W_y = 42,2 cm³
 m = 6,7 kg/m

19418

Cover 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 cover caps: 5x 40x40 or 2x 40x80 and 1x 40x40

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

Quick & Easy (p. 2-7, see fold-out section)

80x80L 4NVS	No.
3 842 993 758 / ...	
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	M12 / D9.8 / D17 / DB17
Customized profile finishing (L _{max i} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾
¹⁾ DG _{max} = 45°; L _{min1} / L _{min2} = 439 / 578 mm	

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

Quick & Easy (p. 2-7, see fold-out section)

80x80L 6N	No.
3 842 993 675 / ...	
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	M12 / D9.8 / D17 / DB17 / F1 (A,C,F) ¹⁾
Customized profile finishing (L _{max i} = 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	

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

Quick & Easy (p. 2-7, see fold-out section)

40x120x120L	No.
3 842 993 757 / ...	
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	M12 / D9.8 (B,C,J,K) ¹⁾ / D17 / DB17 (A,B,C,D,I,J,K,L) ¹⁾ / F1 (D,I) ¹⁾
Customized profile finishing (L _{max i} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾
¹⁾ For the specified slots	
²⁾ DG _{max} = 45°; L _{min1} / L _{min2} = 420 / 540 mm	

80x120L

A = 25,6 cm²
 I_x = 389,2 cm⁴
 I_y = 192,8 cm⁴
 W_x = 64,9 cm³
 W_y = 48,2 cm³
 m = 6,9 kg/m

19419

Cover cap	Color	ESD	No.
80x120 (1x)	Signal gray	20	3 842 548 792
80x120 (1x)	Black	20	3 842 548 793

Material: PP

80x120L	L (mm)	No.
1 pc	50 ... 6070	3 842 993 201 / L
1 pc M12	60 ... 6000	3 842 993 202 / L
1 pc M12-M12	110 ... 6000	3 842 993 203 / L
1 pc D17	80 ... 6000	3 842 993 204 / L
1 pc D17V	90 ... 6000	3 842 993 229 / L
4 pcs	6070	3 842 537 828

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

Quick & Easy (p. 2-7, see fold-out section)

80x120L	3 842 993 672 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	M12 / D9.8 (C,D,E,H,I, J) ¹⁾ / D17 (C,D,E,H,I,J) ¹⁾ / DB17 / F1 (A,F) ¹⁾
Customized profile finishing (L _{max i} = 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

80x160L

A = 32,9 cm²
 I_x = 850,7 cm⁴
 I_y = 253,4 cm⁴
 W_x = 106,3 cm³
 W_y = 63,4 cm³
 m = 8,9 kg/m

19420

Cover cap	Color	ESD	No.
80x80 (2x)	Signal gray	20	3 842 548 750
80x80 (2x)	Black	20	3 842 548 751

Material: PP

80x160L	L (mm)	No.
1 pc	50 ... 6070	3 842 993 127 / L
1 pc M12	60 ... 6000	3 842 993 128 / L
1 pc M12-M12	110 ... 6000	3 842 993 152 / L
1 pc M12-D17	90 ... 6000	3 842 993 153 / L
1 pc D17	60 ... 6000	3 842 993 154 / L
1 pc D17-D17	80 ... 6000	3 842 993 155 / L
1 pc D17V	90 ... 6000	3 842 993 226 / L
3 pcs	6070	3 842 529 349

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. 2-7, see fold-out section)

80x160L	3 842 993 673 / ...
Length L (mm)	80 ... 6070
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	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⁾
Customized profile finishing (L _{max i} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

¹⁾ For the specified slots
²⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 460 / 620 mm

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

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

Material: PP

Cover 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

Cover cap ZN	ESD No.	FS
45x45-ZN	3 842 518 205	FS2

Material: Cover cap: Diecast zinc
 Fastening material: Steel; galvanized

45x45L ON

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

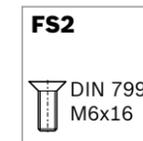
Cover cap: see 45x45

45x45L	L (mm)	No.
1 pc	50 ... 6070	3 842 992 425 / L
1 pc M12	60 ... 6000	3 842 992 426 / L
1 pc M12-M12	110 ... 6000	3 842 992 427 / L
1 pc M12-D17	90 ... 6000	3 842 992 960 / L
1 pc D9.8	80 ... 6000	3 842 992 967 / L
1 pc D17	60 ... 6000	3 842 992 953 / L
1 pc D17-D17	80 ... 6000	3 842 992 954 / L
1 pc D17-D17V	80 ... 6000	3 842 992 956 / L
20 pcs	6070	3 842 553 611

Quick & Easy (p. 2-7, see fold-out section)

45x45L	3 842 993 737 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	M12 / D9.8 / D17 / DB17 / F1 (A) ¹⁾
Customized profile finishing (L _{max i} = 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



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

Quick & Easy (p. 2-7, see fold-out section)

45x45L ON	3 842 993 761 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	M12 / D9.8 / D17 / DB17
Customized profile finishing (L _{max i} = 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

Cover cap: see 45x45

45x45L 1N		L (mm)	No.
1 pc		50 ... 6070	3 842 992 401 / L
	20 pcs	6070	3 842 557 222

Quick & Easy (p. 2-7, see fold-out section)

45x45L 1N		3 842 993 738 / ...	
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Length L (mm)	50 ... 6070		
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	M12 / D9.8 / D17 / DB17		
Customized profile finishing (L _{max i} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾		

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

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

Cover cap: see 45x45

45x45L 2N		L (mm)	No.
1 pc		50 ... 6070	3 842 992 403 / L
	20 pcs	6070	3 842 557 224

Quick & Easy (p. 2-7, see fold-out section)

45x45L 2N		3 842 993 739 / ...	
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Length L (mm)	50 ... 6070		
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	M12 / D9.8 / D17 / DB17		
Customized profile finishing (L _{max i} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾		

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

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

Cover cap: see 45x45

45x45L 2NVS		L (mm)	No.
1 pc		50 ... 6070	3 842 992 402 / L
	20 pcs	6070	3 842 557 223

Quick & Easy (p. 2-7, see fold-out section)

45x45L 2NVS		3 842 993 740 / ...	
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Length L (mm)	50 ... 6070		
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	M12 / D9.8 / D17 / DB17		
Customized profile finishing (L _{max i} = 5400 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

Cover cap: see 45x45

45x45L 3N		L (mm)	No.
1 pc		50 ... 6070	3 842 992 404 / L
	20 pcs	6070	3 842 557 225

Quick & Easy (p. 2-7, see fold-out section)

45x45L 3N		3 842 993 741 / ...	
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Length L (mm)	50 ... 6070		
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	M12 / D9.8 / D17 / DB17		
Customized profile finishing (L _{max i} = 5400 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

Cover cap	Color	ESD	No.
45x30° (1x)	Signal gray	20	3 842 551 020
45x30° (1x)	Black	20	3 842 551 021
Material:	PP		

45x30°		L (mm)	No.
1 pc		50 ... 6070	3 842 993 013 / L
	20 pcs	6070	3 842 557 954

Quick & Easy (p. 2-7, see fold-out section)

45x30°		3 842 993 733 / ...	
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Length L (mm)	50 ... 6070		
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	M12		
Customized profile finishing	-		

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

Cover cap	Color	ESD	No.
45x45° (1x)	Signal gray	20	3 842 551 022
45x45° (1x)	Black	20	3 842 551 023
Material:	PP		

45x45°		L (mm)	No.
1 pc		50 ... 6070	3 842 993 014 / L
	20 pcs	6070	3 842 557 955

Quick & Easy (p. 2-7, see fold-out section)

45x45°		3 842 993 735 / ...	
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Length L (mm)	50 ... 6070		
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	M12		
Customized profile finishing	-		

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

Cover cap	Color	ESD	No.
45x60° (1x)	Signal gray	20	3 842 551 024
45x60° (1x)	Black	20	3 842 551 025

Material: PP

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

Cover 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

Cover 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 ... 6070	3 842 993 015 / L
20 pcs	6070	3 842 557 956

Quick & Easy (p. 2-7, see fold-out section)

45x60°	3 842 993 744 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm	M12
(note minimum length, p. 2-24)	
Customized profile finishing	–

45x45L R	L (mm)	No.
1 pc	50 ... 6070	3 842 992 897 / L
20 pcs	6070	3 842 557 948

Quick & Easy (p. 2-7, see fold-out section)

45x45L R	3 842 993 742 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm	M12 / DB17
(note minimum length, p. 2-24)	
Customized profile finishing	–

45x45 HR	L (mm)	No.
1 pc	50 ... 6070	3 842 992 945 / L
1 pc M12	60 ... 6000	3 842 993 001 / L
1 pc M12-M12	110 ... 6000	3 842 992 999 / L
20 pcs	6070	3 842 557 957

Quick & Easy (p. 2-7, see fold-out section)

45x45 HR	3 842 993 736 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm	M12 / DB17
(note minimum length, p. 2-24)	
Customized profile finishing	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾
(L _{max i} = 5400 mm)	

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

10 10
45
19432

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

Material: PP

Cover 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 ... 6070	3 842 990 520 / L
1 pc M12	60 ... 6000	3 842 990 517 / L
1 pc M12-M12	110 ... 6000	3 842 990 518 / L
1 pc M12-M16	180 ... 6000	3 842 990 519 / L
1 pc M12-D17	90 ... 6000	3 842 990 640 / L
1 pc M16	120 ... 6000	3 842 990 521 / L
1 pc M16-D17	170 ... 6000	3 842 990 642 / L
1 pc D9,8-D9,8	70 ... 6000	3 842 992 969 / L
1 pc D17	60 ... 6000	3 842 990 648 / L
1 pc D17-D17	80 ... 6000	3 842 990 644 / L
1 pc D17-D17V	80 ... 6000	3 842 990 646 / L
20 pcs	6070	3 842 553 614

Quick & Easy (p. 2-7, see fold-out section)

45x45	3 842 993 734 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm	M12 / M16 / D9.8 / D17 / DB17
(note minimum length, p. 2-24)	
Customized profile finishing	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾
(L _{max i} = 5400 mm)	

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

45x60
 $A = 11,0 \text{ cm}^2$
 $I_x = 37,2 \text{ cm}^4$
 $I_y = 22,7 \text{ cm}^4$
 $W_x = 12,4 \text{ cm}^3$
 $W_y = 10,1 \text{ cm}^3$
 $m = 3,0 \text{ kg/m}$

Cover cap	Color	ESD	No.
45x60 (1x)	Signal gray	20	3 842 548 754
45x60 (1x)	Black	20	3 842 548 755

Material: PP

Cover 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 ... 6070	3 842 990 570 / L
1 pc M12	60 ... 6000	3 842 990 571 / L
1 pc M12-M12	110 ... 6000	3 842 990 572 / L
1 pc M12-M16	180 ... 6000	3 842 990 575 / L
1 pc M16	120 ... 6000	3 842 990 573 / L
1 pc D9,8	50 ... 6000	3 842 992 376 / L
1 pc D17	60 ... 6000	3 842 990 688 / L
1 pc D17-D17	80 ... 6000	3 842 990 672 / L
1 pc D17-D17V	80 ... 6000	3 842 990 674 / L
1 pc D9,8V	50 ... 6000	3 842 992 375 / L
1 pc D17V	60 ... 6000	3 842 990 690 / L
1 pc D17V-D17V	80 ... 6000	3 842 990 670 / L
1 pc LF-LF	80 ... 6000	3 842 993 085 / L
1 pc F1-F1	80 ... 6000	3 842 990 584 / L

20 pcs 6070 3 842 557 200

Profile finishing D9.8, D17: in slots B/D
 D9.8V, D17V: in slots A/C
 LF: in slots A/C
 F1: in slot A

Quick & Easy (p. 2-7, see fold-out section)

45x60	3 842 993 743 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-24)	M12 / M16 / D9.8 / D17 / DB17 / F1 (A,C) ¹⁾
Customized profile finishing ($L_{max i} = 5400 \text{ mm}$)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

¹⁾ For the specified slots
²⁾ $DG_{max} = 45^\circ$; $L_{min1} / L_{min2} = 404 / 508 \text{ mm}$

45x90SL
 $A = 9,0 \text{ cm}^2$
 $I_x = 73,4 \text{ cm}^4$
 $I_y = 18,1 \text{ cm}^4$
 $W_x = 16,3 \text{ cm}^3$
 $W_y = 8,0 \text{ cm}^3$
 $m = 2,4 \text{ kg/m}$

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

Material: PP

Cover 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 ... 6070	3 842 993 450 / L
12 pcs	6070	3 842 537 102

Quick & Easy (p. 2-7, see fold-out section)

45x90SL	3 842 993 759 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-24)	M12 / D9.8 / D17 / DB17
Customized profile finishing ($L_{max i} = 5400 \text{ mm}$)	DI / DIS / DG ¹⁾

¹⁾ $DG_{max} = 45^\circ$; $L_{min1} / L_{min2} = 456 / 612 \text{ mm}$

45x90L
 $A = 11,3 \text{ cm}^2$
 $I_x = 82,0 \text{ cm}^4$
 $I_y = 23,6 \text{ cm}^4$
 $W_x = 18,2 \text{ cm}^3$
 $W_y = 10,5 \text{ cm}^3$
 $m = 3,0 \text{ kg/m}$

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

Material: PP

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

Cover cap: see 45x90

45x90L	L (mm)	No.
1 pc	50 ... 6070	3 842 992 432 / L
1 pc M12	60 ... 6000	3 842 992 453 / L
1 pc M12-M12	110 ... 6000	3 842 992 433 / L
1 pc D17-D17	80 ... 6000	3 842 992 437 / L
1 pc D17-D17V	80 ... 6000	3 842 992 436 / L
1 pc D17V	60 ... 6000	3 842 992 452 / L
1 pc D17V-D17V	80 ... 6000	3 842 992 435 / L
1 pc LF-LF	80 ... 6000	3 842 993 084 / L
12 pcs	6070	3 842 553 612

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. 2-7, see fold-out section)

45x90L	3 842 993 662 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-24)	M12 / D9.8 / D17 / DB17 / F1 (A,D) ¹⁾
Customized profile finishing ($L_{max i} = 5400 \text{ mm}$)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

¹⁾ For the specified slots
²⁾ $DG_{max} = 45^\circ$; $L_{min1} / L_{min2} = 456 / 612 \text{ mm}$

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

Quick & Easy (p. 2-7, see fold-out section)

45x90L 2N	3 842 993 751 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-24)	M12 / D9.8 / D17 / DB17 / F1 (A,D) ¹⁾
Customized profile finishing ($L_{max i} = 5400 \text{ mm}$)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

¹⁾ For the specified slots
²⁾ $DG_{max} = 45^\circ$; $L_{min1} / L_{min2} = 456 / 612 \text{ mm}$

45x90L 2NVS

A = 12,0 cm²
 I_x = 25,9 cm⁴
 I_y = 90,6 cm⁴
 W_x = 5,7 cm³
 W_y = 40,3 cm³
 m = 3,3 kg/m

10 10
45
33096

Cover cap: see 45x90

45x90L 3NVS

A = 11,8 cm²
 I_x = 87,2 cm⁴
 I_y = 25,2 cm⁴
 W_x = 38,8 cm³
 W_y = 5,6 cm³
 m = 3,2 kg/m

10 10
45
19437

Cover cap: see 45x90

45x90L 2NVS	L (mm)	No.
12 pcs	6070	3 842 555 652

Quick & Easy (p. 2-7, see fold-out section)

45x90L 2NVS	3 842 993 770 / ...
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Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	M12 / D9.8 / D17 / DB17
Customized profile finishing (L _{max i} = 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 ... 6070	3 842 993 635 / L
12 pcs	6070	3 842 538 298

Quick & Easy (p. 2-7, see fold-out section)

45x90L 3NVS	3 842 993 752 / ...
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Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	M12 / D9.8 / D17 / DB17
Customized profile finishing (L _{max i} = 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

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

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

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

Cover cap	Color	ESD	No.
-----------	-------	-----	-----

45x180 (1x)	Signal gray	20	3 842 548 794
-------------	-------------	----	---------------

45x180 (1x)	Black	20	3 842 548 795
-------------	-------	----	---------------

Material: PP

45x90	L (mm)	No.
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1 pc	50 ... 6070	3 842 990 300 / L
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1 pc M12	60 ... 6000	3 842 990 301 / L
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1 pc M12	110 ... 6000	3 842 990 302 / L
----------	--------------	-------------------

1 pc M12	90 ... 6000	3 842 990 323 / L
----------	-------------	-------------------

1 pc M12	90 ... 6000	3 842 990 305 / L
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1 pc M16	120 ... 6000	3 842 990 303 / L
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1 pc M16	240 ... 6000	3 842 990 304 / L
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1 pc M16	170 ... 6000	3 842 990 325 / L
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1 pc M16	170 ... 6000	3 842 990 307 / L
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1 pc D17	60 ... 6000	3 842 990 329 / L
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1 pc D17	80 ... 6000	3 842 990 313 / L
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1 pc D17	80 ... 6000	3 842 990 311 / L
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1 pc D17V	60 ... 6000	3 842 990 331 / L
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1 pc D17V	80 ... 6000	3 842 990 309 / L
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12 pcs	6070	3 842 553 615
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Profile finishing: M12, M16: in all core holes
 D17: in slots B/F, C/E
 D17V: in slots A/D

Quick & Easy (p. 2-7, see fold-out section)

45x90	3 842 993 661 / ...
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Length L (mm)	50 ... 6070
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Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	M12 / M16 / D9.8 / D17 / DB17 / F1 (A,D) ¹⁾
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Customized profile finishing (L _{max i} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾
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¹⁾ For the specified slots

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

45x180	L (mm)	No.
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1 pc	50 ... 6070	3 842 990 335 / L
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1 pc M12	60 ... 6000	3 842 990 336 / L
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1 pc M12	110 ... 6000	3 842 990 339 / L
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1 pc D17	80 ... 6000	3 842 990 342 / L
----------	-------------	-------------------

1 pc D17V	80 ... 6000	3 842 990 344 / L
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6 pcs	6070	3 842 553 616
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Profile finishing: M12: in all core holes
 D17: in slots B/J, E/G
 D17V: in slots A/F

Quick & Easy (p. 2-7, see fold-out section)

45x180	3 842 993 731 / ...
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Length L (mm)	80 ... 6070
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Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	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⁾
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Customized profile finishing (L _{max i} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾
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¹⁾ For the specified slots

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

45x270
 $A = 61,9 \text{ cm}^2$
 $I_x = 3962,0 \text{ cm}^4$
 $I_y = 118,0 \text{ cm}^4$
 $W_x = 300,2 \text{ cm}^3$
 $W_y = 61,6 \text{ cm}^3$
 $m = 16,7 \text{ kg/m}$

19440

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

Material: PP

45x90x90L
 $A = 21,2 \text{ cm}^2$
 $I_x = 152,1 \text{ cm}^4$
 $I_y = 152,1 \text{ cm}^4$
 $W_x = 19,1 \text{ cm}^3$
 $W_y = 19,1 \text{ cm}^3$
 $m = 5,7 \text{ kg/m}$

36805

Cover cap	Color	ESD	No.
45x90x90 (1x)	Signal gray	20	3 842 548 806
45x90x90 (1x)	Black	20	3 842 548 807

Material: PP

Cover cap with hole ¹⁾	Color	ESD	No.
45x90x90 (1x)	Signal gray	20	3 842 548 806
45x90x90 (1x)	Black	20	3 842 548 807

Material: PP

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

45x270	L (mm)	No.
1 pc	50 ... 6000	3 842 992 927 / L
1 pc M12	110 ... 6000	3 842 992 928 / L
2 pcs	6070	3 842 557 949

Profile finishing: M12: in core holes with C, F slots

Quick & Easy (p. 2-7, see fold-out section)

45x270	3 842 993 732 / ...
Length L (mm)	80 ... 6000
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-24)	M12 / D9.8 (B,C,D,E,F,G, I,J,K,L,M) ¹⁾ / D17 (B,C, D,E,F,G,I,J,K,L,M) ¹⁾ / DB17 / F1 (A,H) ¹⁾
Customized profile finishing ($L_{max i} = 5400 \text{ mm}$)	DI / DIS / MT / MTS / MI / MIS

¹⁾ For the specified slots

45x90x90L	L (mm)	No.
1 pc	50 ... 6070	3 842 992 387 / L
1 pc M12	60 ... 6000	3 842 992 388 / L
8 pcs	6070	3 842 537 823

Profile finishing: M12: in the central bore at the intersection of slots A and H

Quick & Easy (p. 2-7, see fold-out section)

45x90x90L	3 842 993 682 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-24)	M12 / D9.8 / D17 / DB17 (A,B,C,F,G,H) ¹⁾
Customized profile finishing ($L_{max i} = 5400 \text{ mm}$)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

¹⁾ For the specified slots

²⁾ $DG_{max} = 45^\circ$; $L_{min1} / L_{min2} = 456 / 612 \text{ mm}$

45x90x90L 4N
 $A = 22,1 \text{ cm}^2$
 $I_x = 160,8 \text{ cm}^4$
 $I_y = 160,8 \text{ cm}^4$
 $W_x = 30,6 \text{ cm}^3$
 $W_y = 30,6 \text{ cm}^3$
 $m = 6,0 \text{ kg/m}$

29432

Cover cap: see 45x90x90L

90x90SL
 $A = 14,1 \text{ cm}^2$
 $I_x = 130,2 \text{ cm}^4$
 $I_y = 130,2 \text{ cm}^4$
 $W_x = 28,9 \text{ cm}^3$
 $W_y = 28,9 \text{ cm}^3$
 $m = 3,8 \text{ kg/m}$

19442

Cover cap: see 90x90L

90x90L
 $A = 24,1 \text{ cm}^2$
 $I_x = 211,1 \text{ cm}^4$
 $I_y = 211,1 \text{ cm}^4$
 $W_x = 46,9 \text{ cm}^3$
 $W_y = 46,9 \text{ cm}^3$
 $m = 6,5 \text{ kg/m}$

19443

Cover 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 pc	6070	3 842 547 827

Quick & Easy (p. 2-7, see fold-out section)

45x90x90L 4N	3 842 993 764
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-24)	M12 / D9.8 / D17 / DB17 (A,B,C,F,G,H) ¹⁾
Customized profile finishing ($L_{max i} = 5400 \text{ mm}$)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

¹⁾ For the specified slots

²⁾ $DG_{max} = 45^\circ$; $L_{min1} / L_{min2} = 456 / 612 \text{ mm}$

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

Quick & Easy (p. 2-7, see fold-out section)

90x90SL	3 842 993 681 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-24)	M12 / D9.8 / D17 / DB17
Customized profile finishing ($L_{max i} = 5400 \text{ mm}$)	DI / DIS / DG ¹⁾

¹⁾ $DG_{max} = 45^\circ$; $L_{min1} / L_{min2} = 456 / 612 \text{ mm}$

90x90L	L (mm)	No.
1 pc	50 ... 6070	3 842 992 415 / L
1 pc M12	60 ... 6000	3 842 992 416 / L
1 pc M12	110 ... 6000	3 842 992 422 / L
1 pc M12	90 ... 6000	3 842 992 423 / L
1 pc D17	60 ... 6000	3 842 992 417 / L
1 pc D17	80 ... 6000	3 842 992 420 / L
1 pc D17	80 ... 6000	3 842 992 421 / L
1 pc LF	80 ... 6000	3 842 992 418 / L
1 pc LF	90 ... 6000	3 842 992 419 / L
6 pcs	6070	3 842 553 613

Profile finishing: M12: in all core 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. 2-7, see fold-out section)

90x90L	3 842 993 680 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-24)	M12 / D9.8 / D17 / DB17
Customized profile finishing ($L_{max i} = 5400 \text{ mm}$)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ $DG_{max} = 45^\circ$; $L_{min1} / L_{min2} = 456 / 612 \text{ mm}$

90x90L 4N

A = 24,2 cm²
 I_x = 227,4 cm⁴
 I_y = 214,7 cm⁴
 W_x = 50,5 cm³
 W_y = 47,7 cm³
 m = 6,5 kg/m

19444

Cover cap: see 90x90L

90x90L 4NVS

A = 24,2 cm²
 I_x = 220,9 cm⁴
 I_y = 220,9 cm⁴
 W_x = 49,2 cm³
 W_y = 49,2 cm³
 m = 6,5 kg/m

19445

Cover cap: see 90x90L

90x90

A = 38,4 cm²
 I_x = 299,8 cm⁴
 I_y = 299,8 cm⁴
 W_x = 66,7 cm³
 W_y = 66,7 cm³
 m = 10,4 kg/m

19446

Cover cap	Color	ESD	No.
90x90 (1x)	Signal gray	20	3 842 548 760
90x90 (1x)	Black	20	3 842 548 761

Material: PP

Cover 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

Notice: A quick connector cannot be used

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

Quick & Easy (p. 2-7, see fold-out section)

90x90L 4N	3 842 993 755 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	M12 / D9.8 / D17 / DB17
Customized profile finishing (L _{max i} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

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

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

Quick & Easy (p. 2-7, see fold-out section)

90x90L 4NVS	3 842 993 756 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	M12 / D9.8 / D17 / DB17
Customized profile finishing (L _{max i} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

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

90x90	L (mm)	No.
1 pc	50 ... 6070	3 842 990 500 / L
1 pc M16	120 ... 6000	3 842 990 501 / L
1 pc M16	240 ... 6000	3 842 990 502 / L
1 pc M16	170 ... 6000	3 842 992 961 / L
1 pc D17	60 ... 6000	3 842 990 092 / L
1 pc D17	80 ... 6000	3 842 990 093 / L
1 pc D17	80 ... 6000	3 842 990 094 / L
1 pc LF	80 ... 6000	3 842 993 082 / L
1 pc F2	60 ... 6000	3 842 990 505 / L
1 pc F2	110 ... 6000	3 842 990 507 / L
6 pcs	6070	3 842 557 201

Quick & Easy (p. 2-7, see fold-out section)

90x90	3 842 993 679 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	M16 / D9.8 / D17 / DB17 / F1
Customized profile finishing (L _{max i} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

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

90x180L

A = 42,8 cm²
 I_x = 1380,0 cm⁴
 I_y = 401,0 cm⁴
 W_x = 153,3 cm³
 W_y = 89,1 cm³
 m = 11,6 kg/m

19447

Cover cap	Color	ESD	No.
90x90L (2x)	Signal gray	20	3 842 548 758
90x90L (2x)	Black	20	3 842 548 759

Material: PP

90x180

A = 63,6 cm²
 I_x = 2138,3 cm⁴
 I_y = 544,3 cm⁴
 W_x = 237,6 cm³
 W_y = 121,0 cm³
 m = 17,2 kg/m

19448

Cover cap	Color	ESD	No.
90x90 (2x)	Signal gray	20	3 842 548 760
90x90 (2x)	Black	20	3 842 548 761

Material: PP

Cover 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

90x180L	L (mm)	No.
1 pc	50 ... 6070	3 842 992 857 / L
1 pc M12	60 ... 6000	3 842 992 858 / L
1 pc M12	110 ... 6000	3 842 992 859 / L
1 pc M12	90 ... 6000	3 842 992 860 / L
1 pc D17V	90 ... 6000	3 842 992 864 / L
1 pc LF	80 ... 6000	3 842 992 861 / L
3 pcs	6070	3 842 557 226

Profile finishing: M12: in all core holes
 D17V: in slots A/H, B/G
 LF: in slots A/H, B/G

Quick & Easy (p. 2-7, see fold-out section)

90x180L	3 842 993 677 / ...
Length L (mm)	80 ... 6070
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	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⁾
Customized profile finishing (L _{max i} = 5400 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

90x180	L (mm)	No.
1 pc	50 ... 6070	3 842 990 416 / L
1 pc M16	120 ... 6000	3 842 990 417 / L
1 pc M16	240 ... 6000	3 842 990 418 / L
1 pc M16	170 ... 6000	3 842 990 419 / L
1 pc D17V	80 ... 6000	3 842 992 378 / L
1 pc LF	80 ... 6000	3 842 992 898 / L
1 pc LF-S	80 ... 6000	3 842 993 081 / L
1 pc F2	110 ... 6000	3 842 990 421 / L
3 pcs	6070	3 842 553 617

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

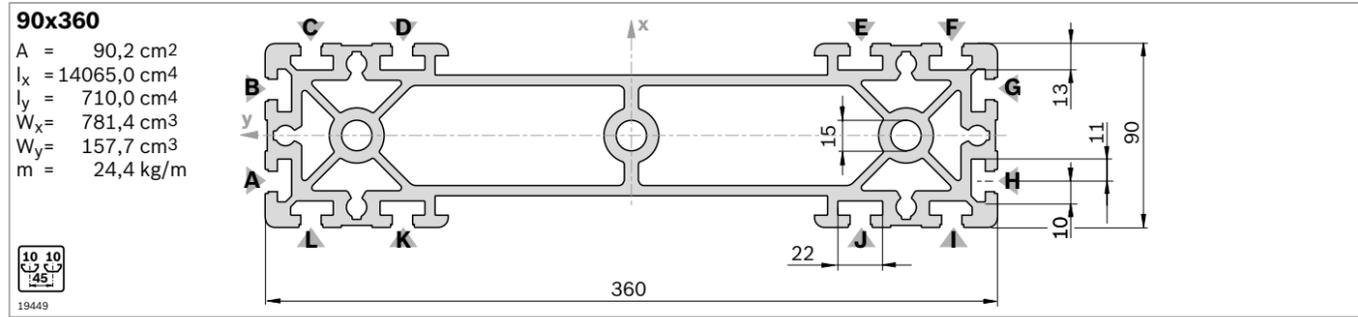
Quick & Easy (p. 2-7, see fold-out section)

90x180	3 842 993 676 / ...
Length L (mm)	80 ... 6070
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	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⁾
Customized profile finishing (L _{max i} = 5400 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



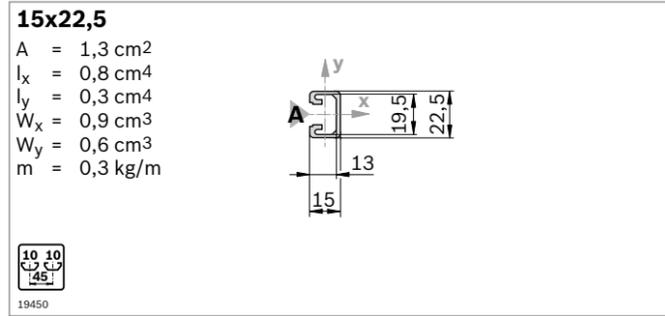
Cover cap	Color	ESD	No.
90x90 (2x)	Signal gray	20	3 842 548 760
90x90 (2x)	Black	20	3 842 548 761

Material: PP

Cover 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

Notice: A quick connector cannot be used



Cover 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

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

Profile finishing: M16: in all core holes

Quick & Easy (p. 2-7, see fold-out section)

90x360	L (mm)	No.
	80 ... 6000	3 842 993 678 / ...

Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-24)
 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⁾

Customized profile finishing ($L_{max i} = 5400 \text{ mm}$)
 DI / DIS / MT / MTS / MI / MIS

¹⁾ For the specified slots

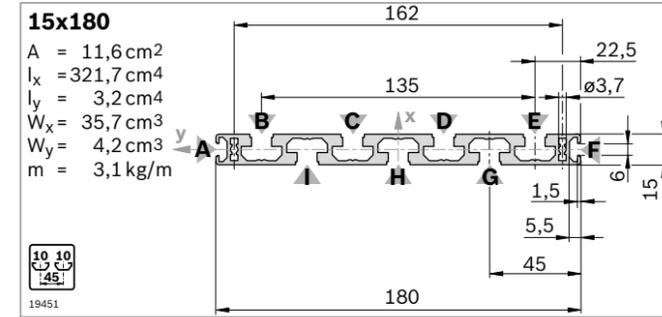
15x22.5	L (mm)	No.
1 pc	50 ... 3000	3 842 992 473 / L
1 pc D17	60 ... 3000	3 842 992 474 / L
1 pc D17	80 ... 3000	3 842 992 475 / L
10 pcs	2000	3 842 513 576

Quick & Easy (p. 2-7, see fold-out section)

15x22.5	L (mm)	No.
	50 ... 2000	3 842 993 689 / ...

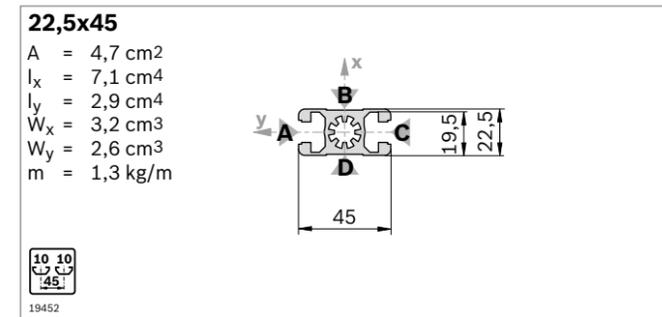
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-24)
 D9.8 / D17

Customized profile finishing
 —



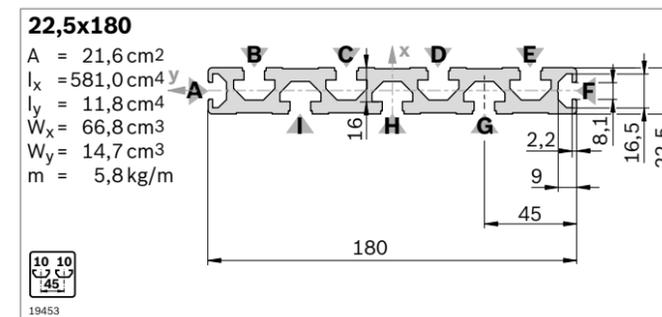
Cover cap	Color	ESD	No.
15x180 (1x)	Signal gray	20	3 842 548 772
15x180 (1x)	Black	20	3 842 548 773

Material: PP



Cover 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



Cover 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 ... 6070	3 842 993 079 / L
6 pcs	6070	3 842 557 242

Quick & Easy (p. 2-7, see fold-out section)

15x180	L (mm)	No.
	80 ... 6070	3 842 993 686 / ...

Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-24)
 D9.8 (B,C,D,E,G,H,I)¹⁾ / D17 (B,C,D,E,G,H,I)¹⁾

Customized profile finishing ($L_{max i} = 5400 \text{ mm}$)
 DI / DIS / MT / MTS / MI / MIS

¹⁾ For the specified slots

22.5x45	L (mm)	No.
1 pc	50 ... 6070	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. 2-7, see fold-out section)

22.5x45	L (mm)	No.
	50 ... 6070	3 842 993 700 / ...

Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-24)
 M12 / D9.8 (A,C)¹⁾ / D17 / DB17 (A,C)¹⁾

Customized profile finishing ($L_{max i} = 5400 \text{ mm}$)
 DI / DIS / MT / MTS / MI / MIS / DG²⁾

¹⁾ For the specified slots

²⁾ $DG_{max} = 45^\circ$; $L_{min1} / L_{min2} = 378 / 456 \text{ mm}$

22.5x180	L (mm)	No.
1 pc	50 ... 6070	3 842 990 345 / L
6 pcs	6070	3 842 557 944

Profile finishing: D28: in slots G, I

Quick & Easy (p. 2-7, see fold-out section)

22.5x180	L (mm)	No.
	80 ... 6070	3 842 993 699 / ...

Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-24)
 D9.8 (B,C,D,E,G,H,I)¹⁾ / D17 (B,C,D,E,G,H,I)¹⁾

Customized profile finishing ($L_{max i} = 5400 \text{ mm}$)
 DI / DIS / MT / MTS / MI / MIS

¹⁾ For the specified slots

50x50L

A = 9,3 cm²
 I_x = 21,2 cm⁴
 I_y = 21,2 cm⁴
 W_x = 8,5 cm³
 W_y = 8,5 cm³
 m = 2,5 kg/m

19454

Cover cap	Color	ESD	No.
50x50 (1x)	Signal gray	20	3 842 548 820
50x50 (1x)	Black	20	3 842 548 821

Material: PP

Cover 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 cm²
 I_x = 162,8 cm⁴
 I_y = 42,6 cm⁴
 W_x = 32,6 cm³
 W_y = 17,0 cm³
 m = 4,6 kg/m

19455

Cover cap	Color	ESD	No.
50x50 (2x)	Signal gray	20	3 842 548 820
50x50 (2x)	Black	20	3 842 548 821

Material: PP

Cover 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 ... 6070	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. 2-7, see fold-out section)

50x50L	3 842 993 665 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	M12 / M16 / D9.8 / D17 / DB17
Customized profile finishing (L _{max i} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

¹⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 387 / 474 mm

50x100L	L (mm)	No.
1 pc	50 ... 6070	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-D17	80 ... 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. 2-7, see fold-out section)

50x100L	3 842 993 663 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	M12 / M16 / D9.8 / D17 / DB17 / F1 (A, D) ¹⁾
Customized profile finishing (L _{max i} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

¹⁾ For the specified slots

²⁾ DG_{max} = 45°; L_{min1} / L_{min2} = 474 / 648 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

19456

Cover cap	Color	ESD	No.
50x150 (1x)	Signal gray	20	3 842 548 818
50x150 (1x)	Black	20	3 842 548 819

Material: PP

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

19457

Cover cap	Color	ESD	No.
100x100 (1x)	Signal gray	20	3 842 548 824
100x100 (1x)	Black	20	3 842 548 825

Material: PP

50x150L	L (mm)	No.
1 pc	50 ... 6070	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
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. 2-7, see fold-out section)

50x150L	3 842 993 664 / ...
Length L (mm)	80 ... 6070
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	M12 / M16 / D9.8 (B,C,D,F,G,H) ¹⁾ / D17 (B,C,D,F,G,H) ¹⁾ / DB17 / F1 (A,E) ¹⁾
Customized profile finishing (L _{max i} = 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

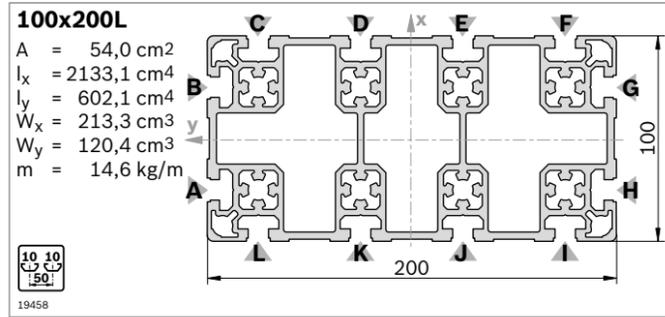
100x100L	L (mm)	No.
1 pc	50 ... 6070	3 842 993 171 / L
1 pc M12	60 ... 6000	3 842 993 172 / L
1 pc M12-M12	110 ... 6000	3 842 993 173 / L
1 pc M12-D17	90 ... 6000	3 842 993 174 / L
1 pc D17	60 ... 6000	3 842 993 175 / L
1 pc D17-D17	80 ... 6000	3 842 993 176 / L
1 pc D17-D17V	80 ... 6000	3 842 993 177 / 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. 2-7, see fold-out section)

100x100L	3 842 993 685 / ...
Length L (mm)	50 ... 6070
Standard profile finishing L _{max} = 6000 mm (note minimum length, p. 2-24)	M12 / M16 / D9.8 / D17 / DB17 / F1
Customized profile finishing (L _{max i} = 5400 mm)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

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



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

Material: PP

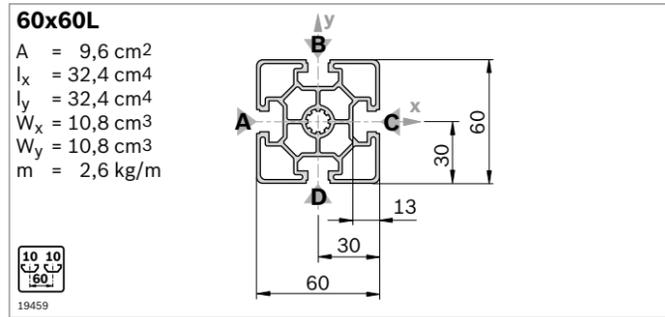
100x200L	L (mm)	No.
1 pc	50 ... 6070	3 842 993 178 / L
1 pc M12	60 ... 6000	3 842 993 179 / L
1 pc M12-M12	110 ... 6000	3 842 993 180 / L
1 pc M12-D17	90 ... 6000	3 842 993 181 / L
1 pc D17	60 ... 6000	3 842 993 182 / L
1 pc D17-D17	80 ... 6000	3 842 993 183 / L
3 pcs	6070	3 842 529 357

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. 2-7, see fold-out section)

100x200L	3 842 993 687 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-24)	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⁾
Customized profile finishing ($L_{max i} = 5400 \text{ mm}$)	DI / DIS / MT / MTS / MI / MIS / DG ²⁾

¹⁾ For the specified slots
²⁾ $DG_{max} = 30^\circ$; $L_{min} = 416 / 532 \text{ mm}$



Cover cap	Color	ESD	No.
60x60 (1x)	Signal gray	100	3 842 548 808
60x60 (1x)	Black	20	3 842 548 809

Material: PP

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

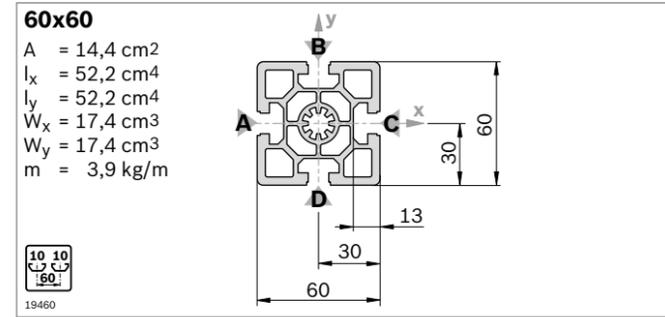
Material: PP

60x60L	L (mm)	No.
1 pc	50 ... 6070	3 842 992 443 / L
1 pc M12	60 ... 6000	3 842 992 444 / L
1 pc M12-M12	110 ... 6000	3 842 992 445 / L
1 pc M12-D17	90 ... 6000	3 842 992 446 / L
1 pc D17	60 ... 6000	3 842 992 449 / L
1 pc D17-D17	80 ... 6000	3 842 992 447 / L
1 pc D17-D17V	80 ... 6000	3 842 992 448 / L
20 pcs	6070	3 842 557 204

Quick & Easy (p. 2-7, see fold-out section)

60x60L	3 842 993 670 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-24)	M12 / D9.8 / D17 / DB17
Customized profile finishing ($L_{max i} = 5400 \text{ mm}$)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

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

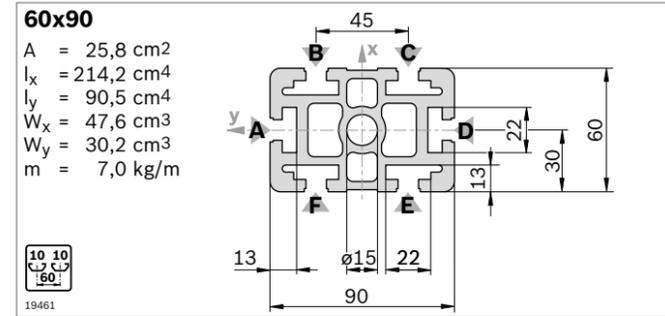


Cover cap	Color	ESD	No.
60x60 (1x)	Signal gray	100	3 842 548 808
60x60 (1x)	Black	20	3 842 548 809

Material: PP

Cover 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



Cover cap	Color	ESD	No.
60x90 (1x)	Signal gray	20	3 842 548 812
60x90 (1x)	Black	20	3 842 548 813

Material: PP

Cover cap with hole	Color	ESD	No.
60x90 (1x)	Signal gray	20	3 842 551 050
60x90 (1x)	Black	20	3 842 551 051

Material: PP

Notice: A quick connector cannot be used

60x60	L (mm)	No.
1 pc	50 ... 6070	3 842 990 350 / L
1 pc M12	60 ... 6000	3 842 990 351 / L
1 pc M12-M12	110 ... 6000	3 842 990 353 / L
1 pc M12-M16	180 ... 6000	3 842 990 354 / L
1 pc M12-D17	90 ... 6000	3 842 990 355 / L
1 pc M16	120 ... 6000	3 842 990 352 / L
1 pc M16-D17	170 ... 6000	3 842 990 373 / L
1 pc D17	50 ... 6000	3 842 990 370 / L
1 pc D17-D17	80 ... 6000	3 842 990 357 / L
1 pc D17-D17V	80 ... 6000	3 842 990 359 / L
20 pcs	6070	3 842 557 202

Quick & Easy (p. 2-7, see fold-out section)

60x60	3 842 993 668 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-24)	M12 / M16 / D9.8 / D17 / DB17
Customized profile finishing ($L_{max i} = 5400 \text{ mm}$)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

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

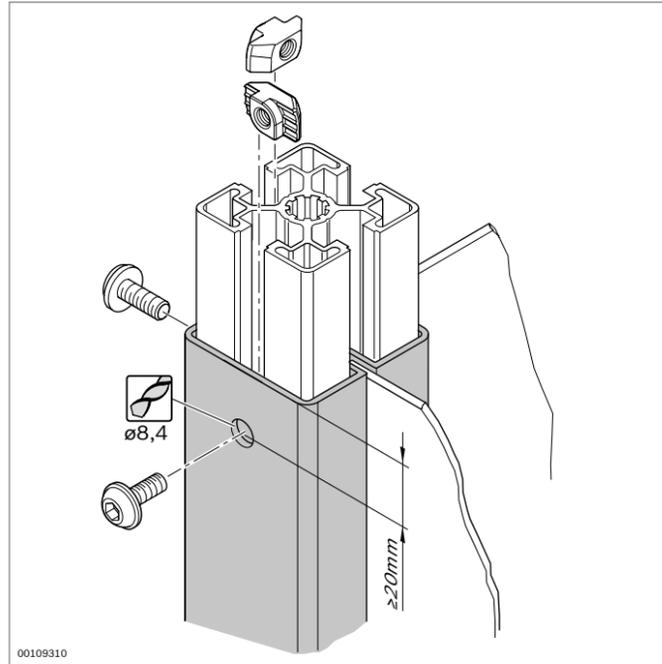
60x90	L (mm)	No.
1 pc	50 ... 6070	3 842 990 450 / ...
1 pc M16	120 ... 6000	3 842 990 453 / ...
1 pc M16-M16	240 ... 6000	3 842 990 454 / ...
1 pc M16-D17	170 ... 6000	3 842 992 962 / ...
1 pc M16-D17V	170 ... 6000	3 842 992 963 / ...
1 pc M16-F2	170 ... 6000	3 842 990 472 / ...
1 pc D17	80 ... 6000	3 842 990 097 / ...
1 pc D17-D17	80 ... 6000	3 842 990 099 / ...
1 pc D17-D17V	80 ... 6000	3 842 990 098 / ...
1 pc D17V-D17V	90 ... 6000	3 842 990 098 / ...
1 pc F1	110 ... 6000	3 842 990 464 / ...
1 pc F1-F1V	110 ... 6000	3 842 990 481 / ...
1 pc F2	110 ... 6000	3 842 990 478 / ...
10 pcs	6070	3 842 557 207

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

Quick & Easy (p. 2-7, see fold-out section)

60x90	3 842 993 671 / ...
Length L (mm)	50 ... 6070
Standard profile finishing $L_{max} = 6000 \text{ mm}$ (note minimum length, p. 2-24)	M16 / D9.8 / D17 / DB17 / F1 (A, D) ¹⁾
Customized profile finishing ($L_{max i} = 5400 \text{ mm}$)	DI / DIS / MT / MTS / MI / MIS / DG ¹⁾

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

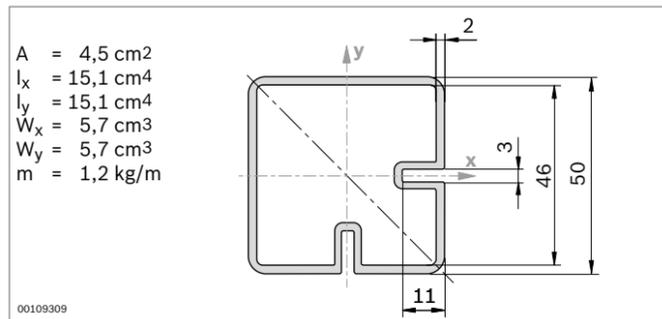


Rectangular tube



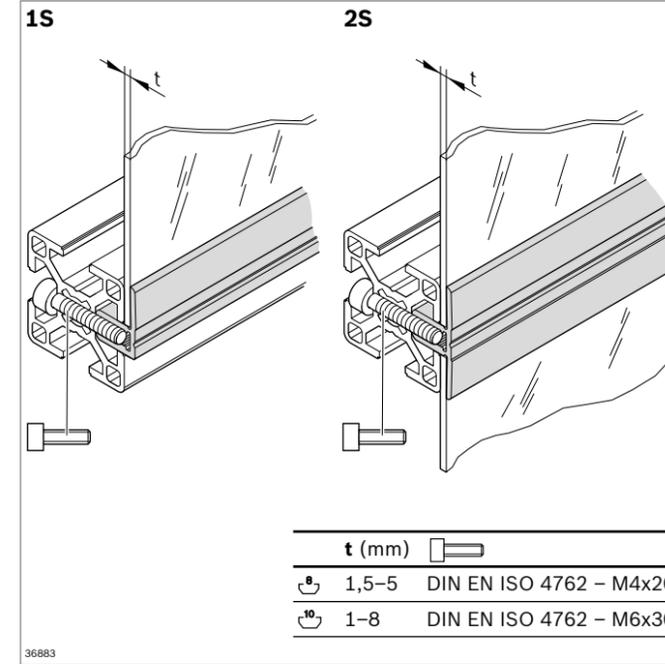
- ▶ For constructing manually height-adjustable frames
- ▶ Cut-outs for mounting of panel elements
- ▶ Profile finishing: Hole for screw

Required accessories:
Fastening material



Rectangular tube		L (mm)	No.
1 pc		50 ...	6070 3 842 992 913 / L
6 pcs			6070 3 842 557 960

Material: Aluminum; anodized

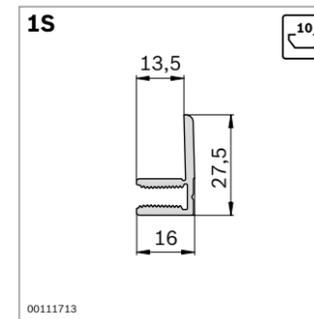
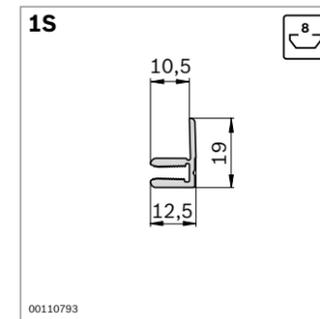


Clamping profile



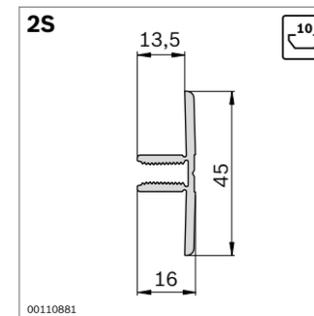
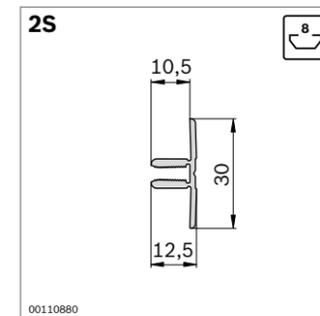
- ▶ For simple fastening of panes, panel elements, or grilles on strut profiles
- ▶ For subsequent installation in closed frame constructions
- ▶ For panel elements with varying thicknesses
- ▶ Profile finishing: Through-hole for mounting screw

Required accessories:
 ▶ Cylinder head bolt DIN EN ISO 4762 – M4x20 (8 mm slot)
 ▶ Cylinder head bolt DIN EN ISO 4762 – M6x30 (10 mm slot)



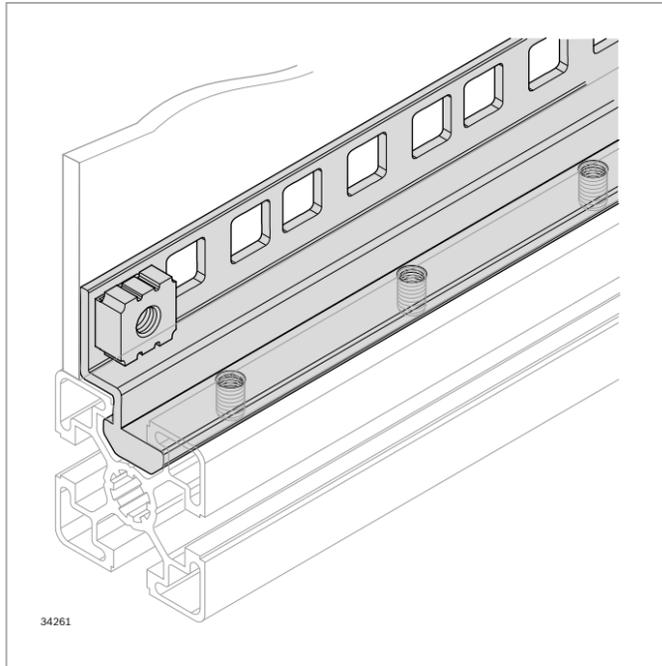
Clamping profile 1S		Slot	L (mm)	No.
1 pc		8	50 ... 3000	3 842 993 017 / L
10 pcs		8	3000	3 842 524 058
1 pc		10	50 ... 3000	3 842 993 019 / L
10 pcs		10	3000	3 842 524 064

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

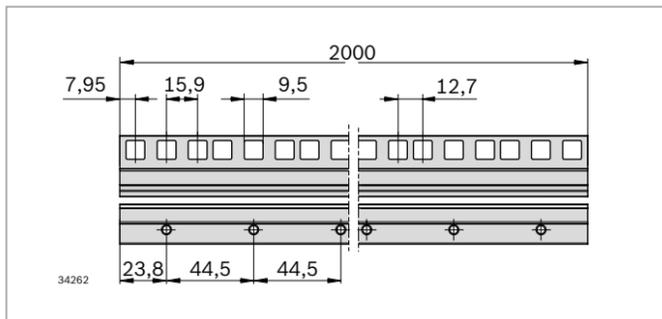


Al angle profile 19"



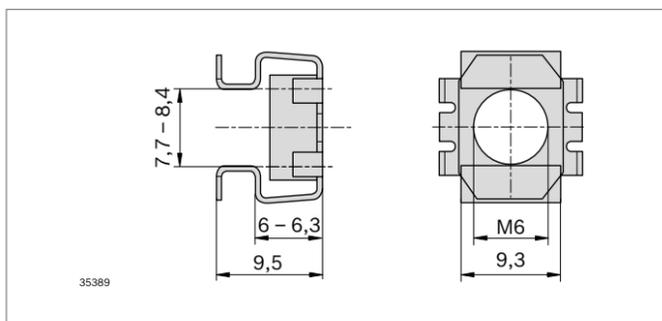
- ▶ Rail for mounting 19" devices in electronic and electrical production
- ▶ Suitable for fastening panel elements
- ▶ Fully finished angle profile
 - with square cutouts for fastening the 19" devices with a cage nut (hole according to DIN 60297-3-100)
 - with threads for fastening the Al angle profile with headless setscrews in the slot
- ▶ Angle profile, can be swiveled into slot

Required accessories: Headless setscrew M6x12



Al angle profile 19"		L (mm)	No.
	10 pcs	2000	3 842 557 254

Material: Aluminum; anodized

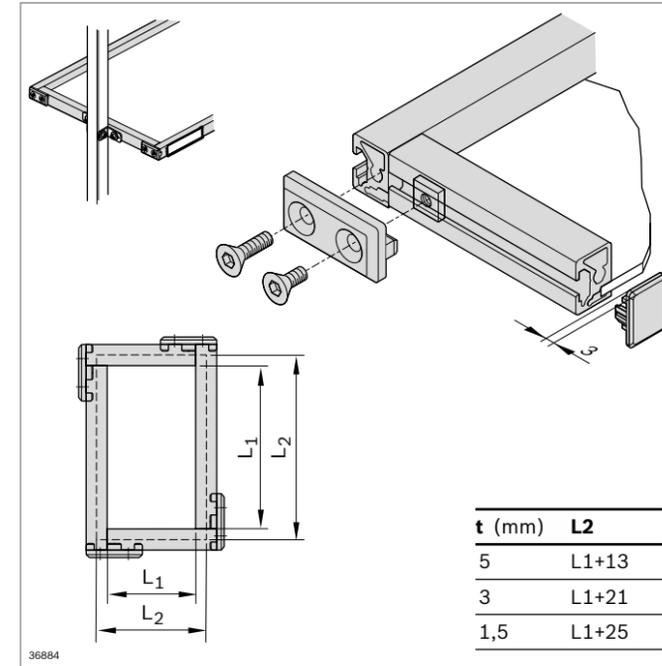


Cage nut

- ▶ For fastening panel elements or 19" devices on profile
- ▶ Easy assembly as tension springs snap into the recess

Cage nut M6		No.
	20	3 842 557 255

Material: Steel; galvanized



Frame profile 22.5x30

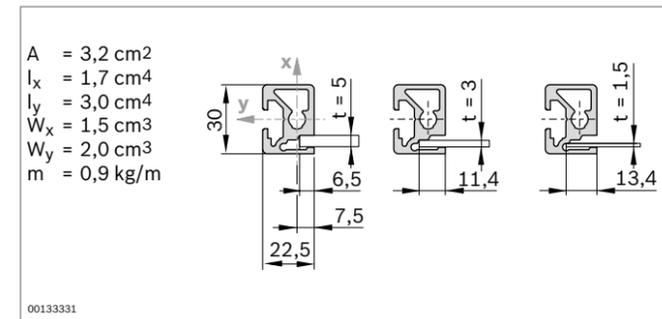


- ▶ For inexpensive construction of trays and material shelves
- ▶ Panel elements are mounted under tension so that they do not rattle

Optional accessories:

- ▶ Bracket set M6 (p. 3-30)
- ▶ Swivel mounting (p. 4-12)
- ▶ Labeling clip for 8 mm slot (p. 2-86)
- ▶ Plate (p. 2-62)

t (mm)	L2
5	L1+13
3	L1+21
1,5	L1+25

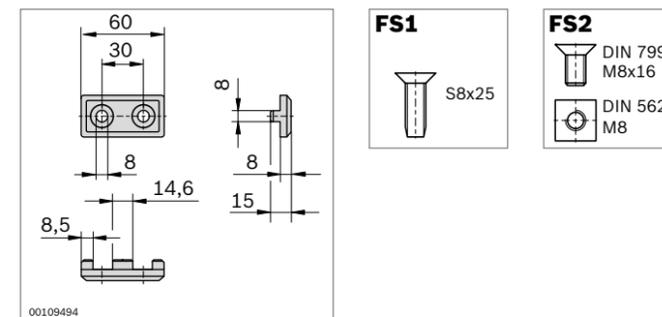


Frame profile 22.5x30		Slot	L (mm)	No.
	1 pc	8	50 ... 6070	3 842 992 493 / L
	20 pcs	8	6070	3 842 557 946

Material: Aluminum; anodized

Cover cap	Color	ESD	No.
22.5x30	Signal gray	20	3 842 551 564
22.5x30	Black	20	3 842 551 565

Material: PP



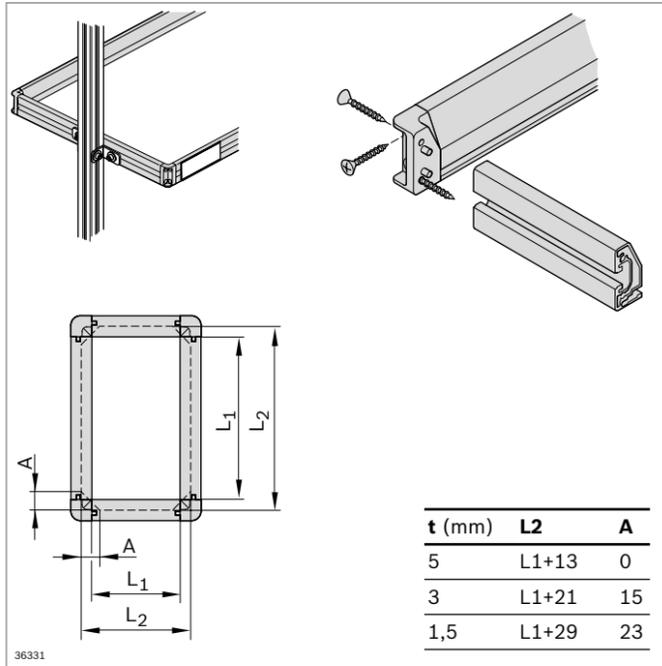
Corner piece for frame profile 22.5x30

- ▶ For the right-angled connection of two 22.5x30 frame profiles
- ▶ Profile finishing not required

Corner piece	Color	ESD	No.	FS
22.5x30	Signal gray	20	3 842 554 708	FS1, FS2
22.5x30	Black	20	3 842 554 709	FS1, FS2

Material: PA

Scope of delivery: Incl. fastening material (FS)



Frame profile 22.5x45



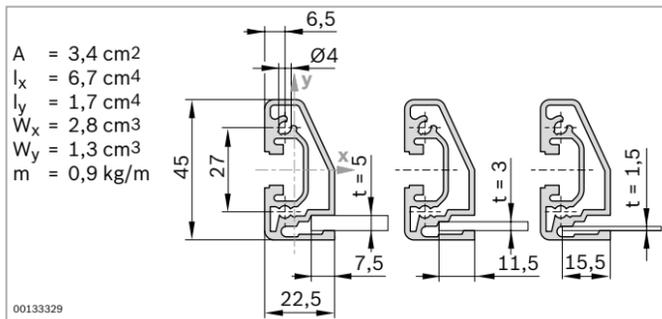
- ▶ For inexpensive construction of trays and material shelves
- ▶ Panel elements are mounted under tension so that they do not rattle

Optional accessories:

- ▶ Bracket set (p. 3-32)
- ▶ Swivel mounting (p. 4-12)
- ▶ Labeling clip for 10 mm slot (p. 2-86)
- ▶ Plate (p. 2-62)

Frame profile 22.5x45	Slot	L (mm)	No.
1 pc	10	50 ... 6070	3 842 992 411 / L
20 pcs	10	6070	3 842 557 941

Material: Aluminum; anodized

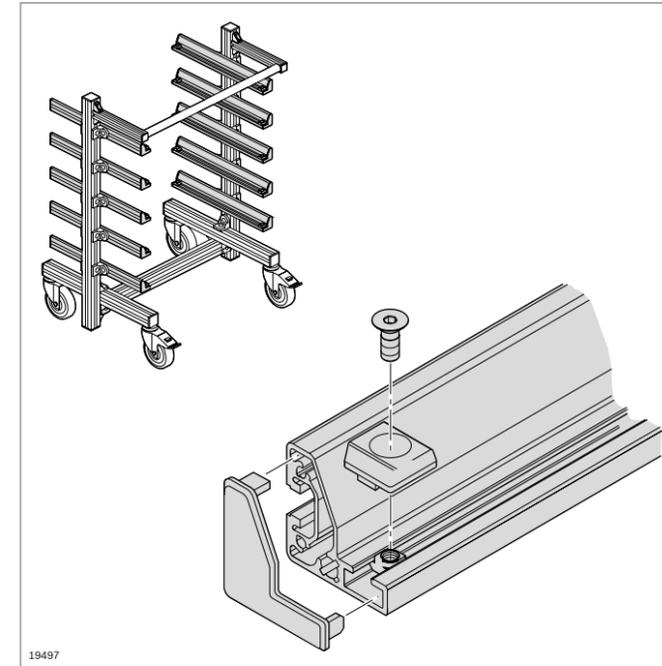
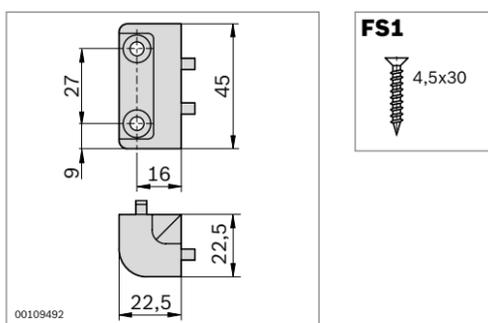


Corner bracket for frame profile 22.5x45

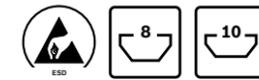
- ▶ For the right-angled connection of two 22.5x45 frame profiles
- ▶ Profile finishing not required

Corner bracket	ESD	No.	FS
22.5x45		20 3 842 535 637	4xFS1

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

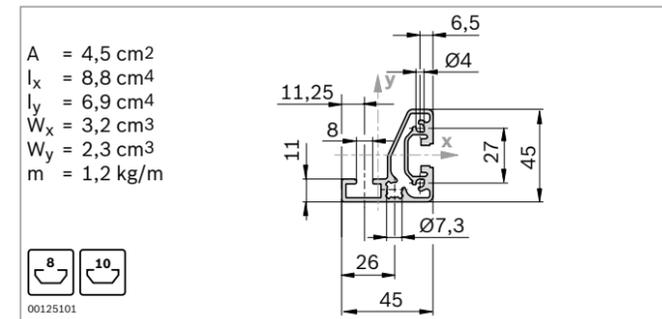


Angle profile



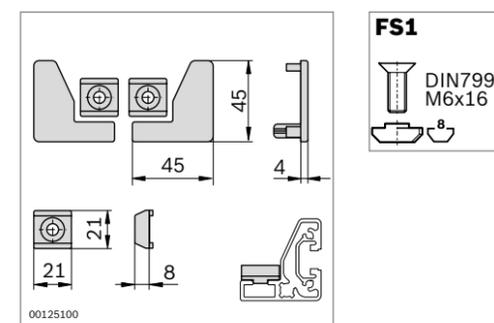
- ▶ For supporting containers, plates, or workpiece pallets in flow racks, material shuttles, or hopper stackers

Accessories:
Bracket R40x43 (p. 3-31)



Angle profile	L (mm)	No.
1 pc	50 ... 6070	3 842 992 412 / L
20 pcs	6070	3 842 557 942

Material: Aluminum; anodized

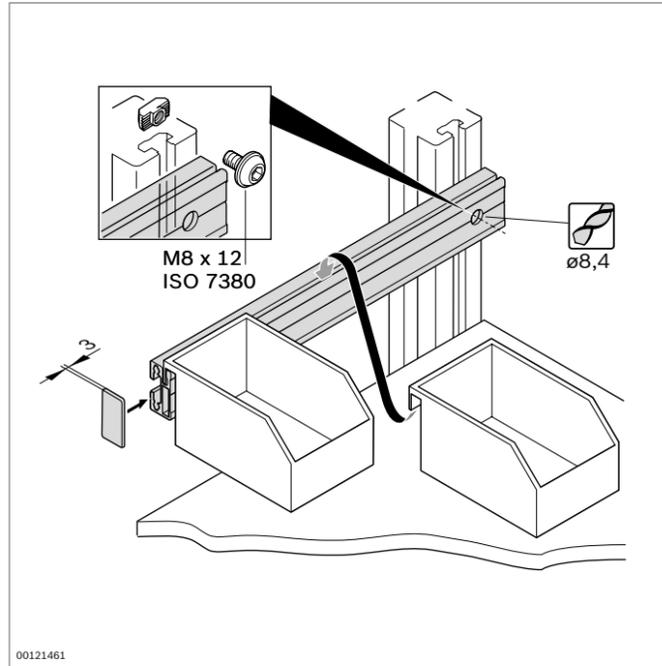


Stopper and cover cap

- ▶ The stopper prevents containers from shifting on the angle profile
- ▶ Cover cap to prevent injuries at open profile ends
- ▶ Attractive design

Stopper, cover cap	Color	ESD	No.	FS
Set	Signal gray		20 3 842 554 490	2xFS1
Set	Black		20 3 842 554 491	2xFS1

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



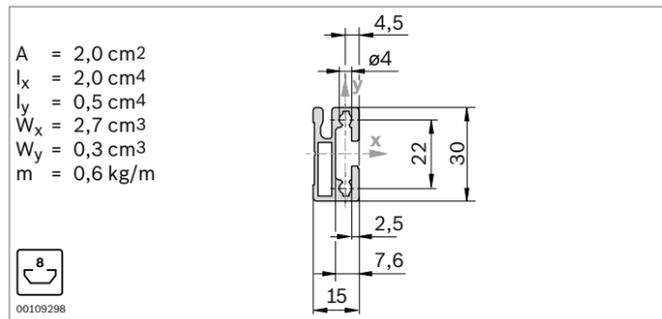
Suspension profile



- ▶ 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)

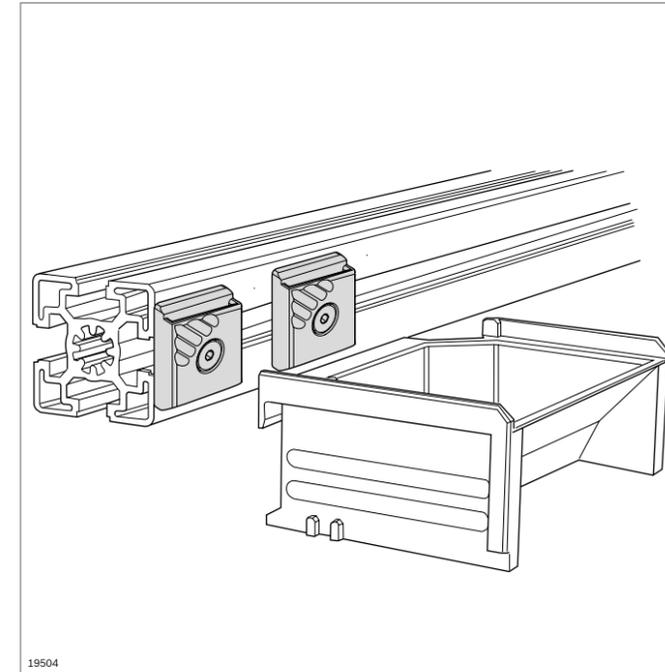


Suspension profile	L (mm)	ESD No.
1 pc	50 ... 3000	3 842 993 411 / L
10 pcs	3000	3 842 537 679
1 pc	50 ... 3000	3 842 993 063 / L
10 pcs	3000	3 842 554 157

Material: Suspension profile: Aluminum; anodized
Suspension profile ESD: Aluminum; natural

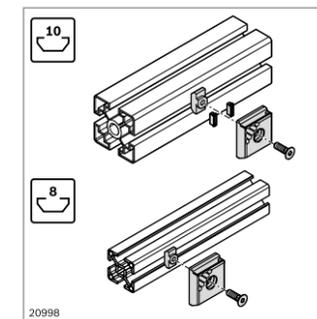
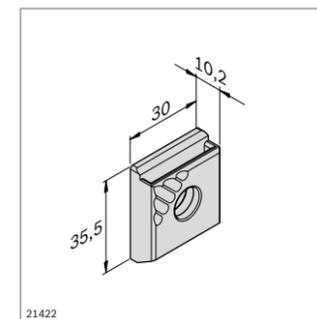
Cover cap	Color	ESD	No.
15x30	Signal gray	20	3 842 551 582
15x30	Black	20	3 842 551 583

Material: PP



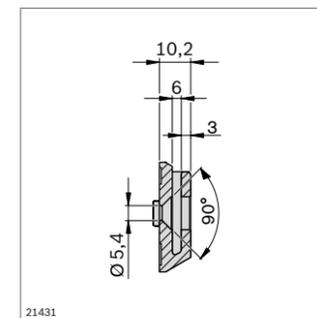
Container mount

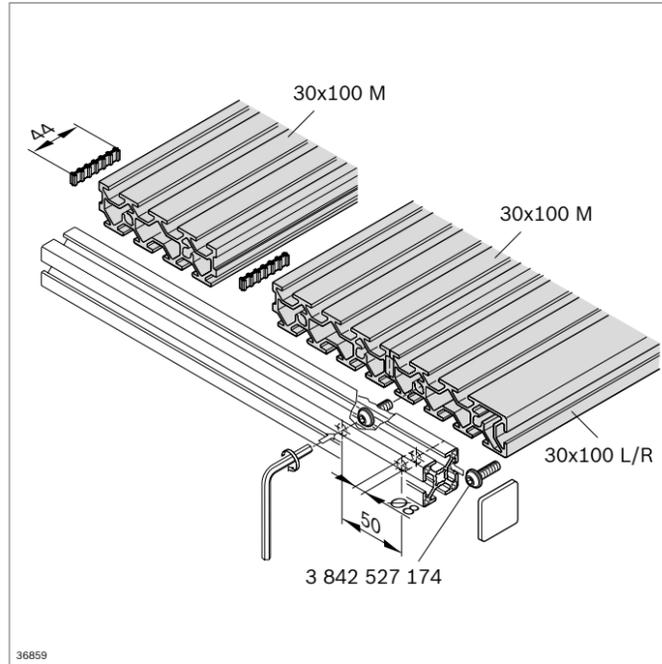
- ▶ Container mount for mounting tool holders, grab containers, grab trays and grab ledges
- ▶ Suitable for 8 mm and 10 mm slots



Container mount	ESD No.
10	3 842 544 797

Material: PA 66; black
Fastening material: Steel; galvanized
Scope of delivery: Incl. fastening material (FS)



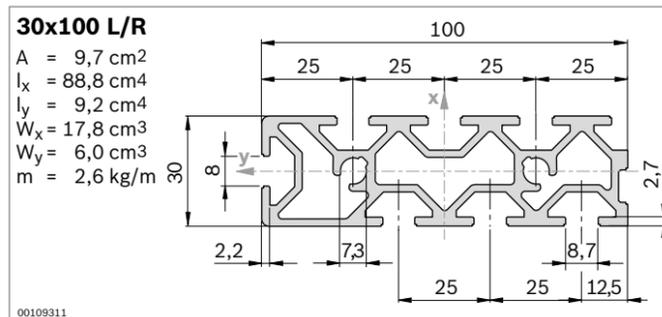


Grooved plate 30x100

- ▶ 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

Optional accessories:

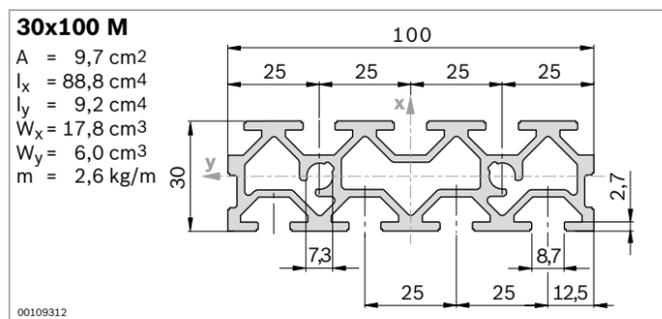
- ▶ Profile 30x30 (p. 2-16)
- ▶ Sliding block



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

Grooved 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

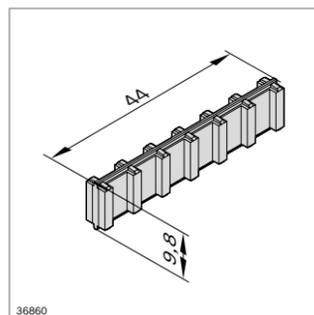
Material: Aluminum; anodized



- ▶ Grooved plate **30x100 M** for constructing grooved plates of any width

Grooved 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

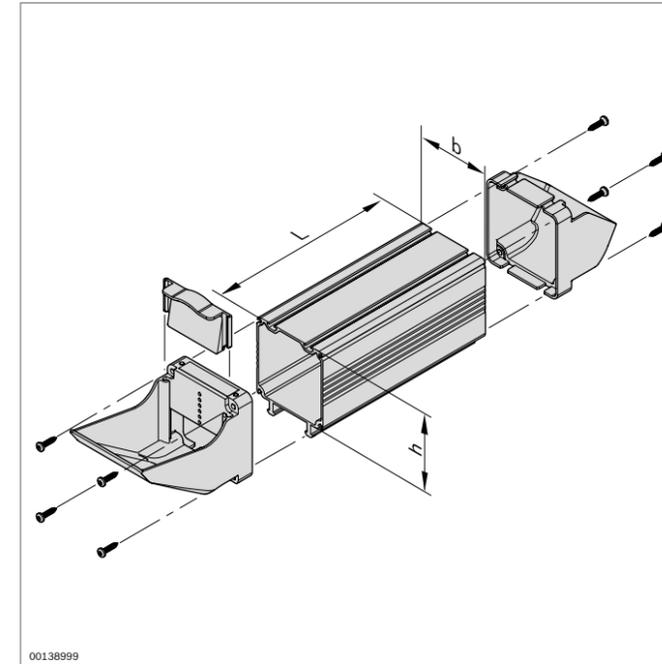


Sliding block

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

Sliding block	No.
	100 3 842 520 922

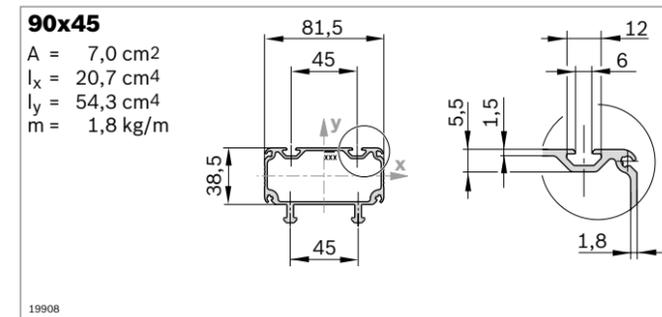
Material: PA



Material chute Grab ledge and refill end-piece Grab container base

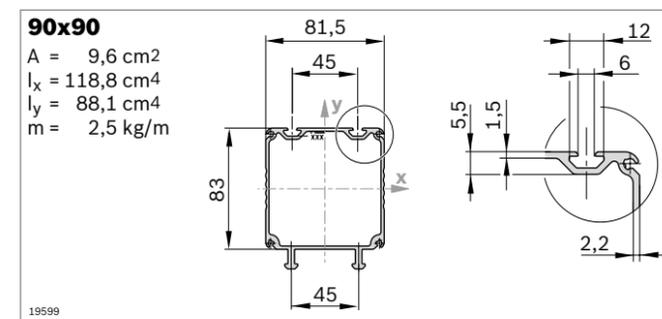


- ▶ Small parts within easy reach on the workstation
- ▶ Components for the individual construction of stable Vario grab containers
- ▶ Customizable holding capacity



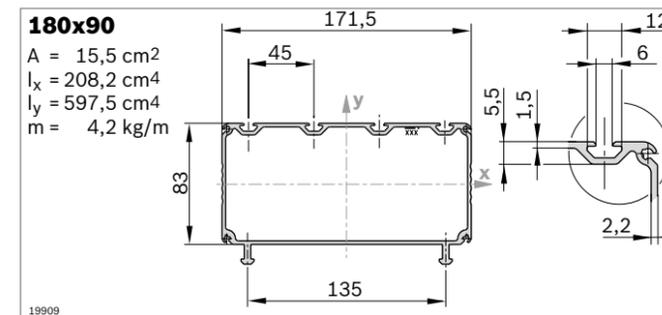
Material chute 90x45	L (mm)	ESD No.
1 pc	50 ... 3000	3 842 993 071 / L
3 pcs	3000	3 842 526 671
1 pc	50 ... 1500	3 842 993 446 / L
6 pcs	1500	3 842 558 332

Material: Material chute: Aluminum; anodized
 Material chute ESD: Aluminum; coated with Alutin



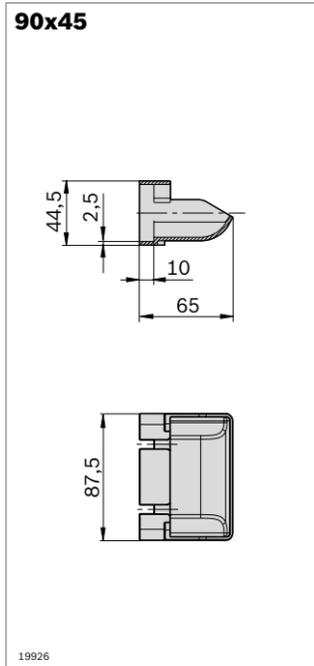
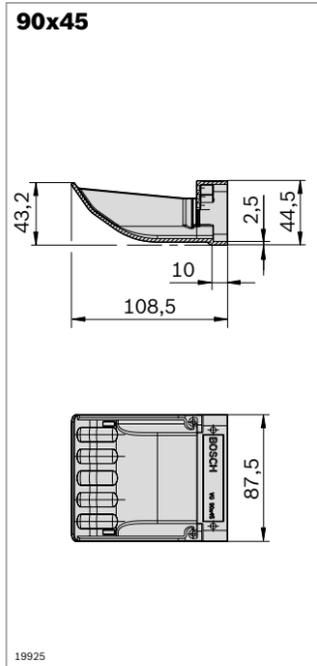
Material chute 90x90	L (mm)	ESD No.
1 pc	50 ... 3000	3 842 993 072 / L
3 pcs	3000	3 842 526 672
1 pc	50 ... 1500	3 842 993 517 / L
6 pcs	1500	3 842 558 333

Material: Material chute: Aluminum; anodized
 Material chute ESD: Aluminum; coated with Alutin



Material chute 180x90	L (mm)	ESD No.
1 pc	50 ... 3000	3 842 993 073 / L
3 pcs	3000	3 842 526 673
1 pc	50 ... 1500	3 842 993 527 / L
6 pcs	1500	3 842 558 334

Material: Material chute: Aluminum; anodized
 Material chute ESD: Aluminum; coated with Alutin

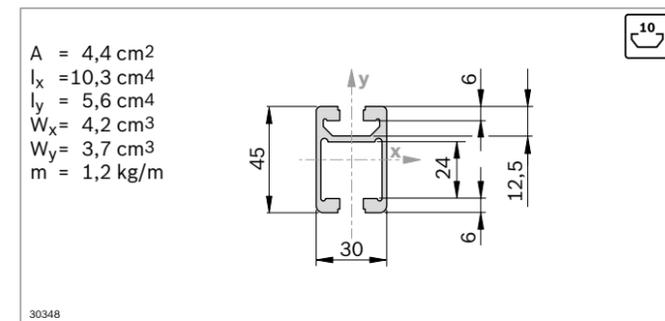
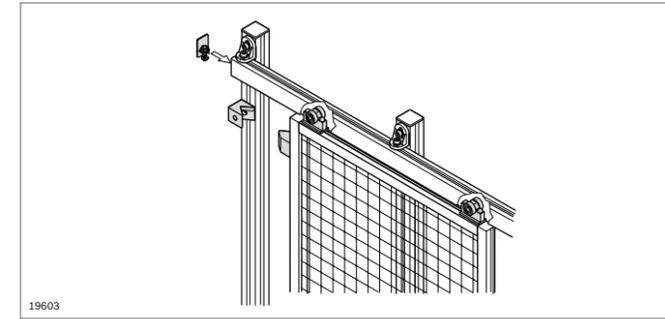
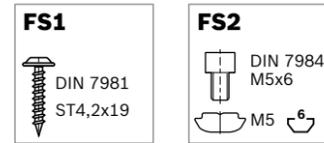


- ▶ Refill end-piece with large opening for easy filling
- ▶ Ergonomically designed grab ledge for easy, safe grabbing
- ▶ Grab container pusher for closing

Grab ledge and refill end-piece	ESD No.	FS
90 x 45	3 842 526 626	8xFS1, FS2
	3 842 558 328	8xFS1, FS2

Material: Grab ledge and refill end-piece
Plastic ABS, light gray RAL 7035
Grab ledge and refill end-piece ESD:
ABS plastic, black, similar to RAL 9005
Fastening material: Steel; galvanized

Scope of delivery: Incl. fastening material (FS)



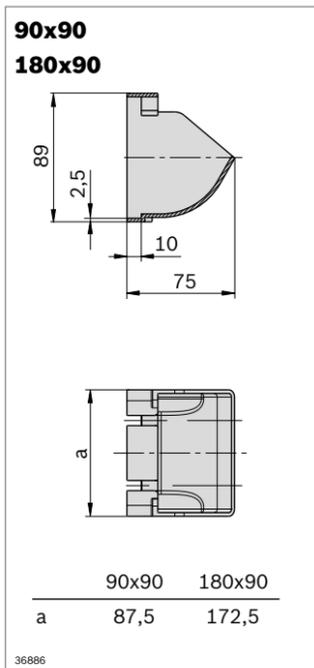
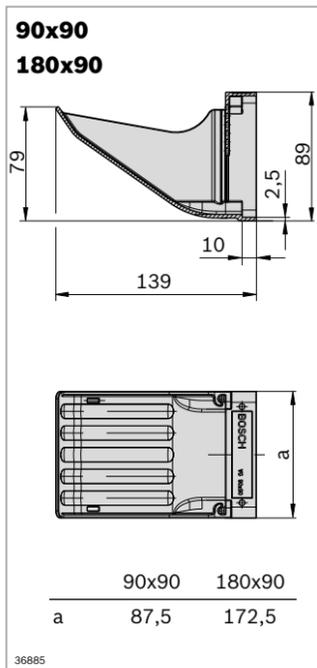
Profile rail, trolley

- ▶ 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 ... 6070	3 842 992 946 / L
20 pcs	6070	3 842 557 950

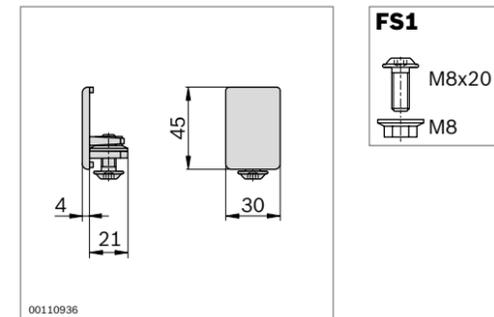
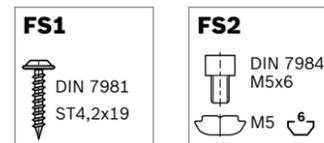
Material: Aluminum; anodized



Grab ledge and refill end-piece	ESD No.	FS
90 x 90	3 842 526 627	8xFS1, FS2
	3 842 558 329	8xFS1, FS2
180 x 90	3 842 526 628	8xFS1, FS2
	3 842 558 330	8xFS1, FS2

Material: Grab ledge and refill end-piece
Plastic ABS, light gray RAL 7035
Grab ledge and refill end-piece ESD:
ABS plastic, black, similar to RAL 9005
Fastening material: Steel; galvanized

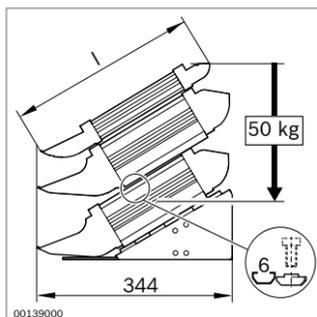
Scope of delivery: Incl. fastening material (FS)



- ▶ Profile rail end piece for use for trolley as a cover cap with stop
- ▶ With screw protection

End piece 30x45C	Color	ESD	No.	FS
	Signal gray	20	3 842 554 710	FS1
	Black	20	3 842 554 711	FS1

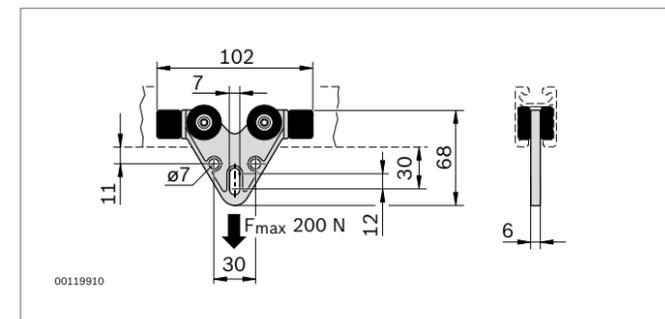
Material: End piece: PA
Fastening material: Steel; galvanized
Scope of delivery: Incl. fastening material (FS)



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

Grab container base	w x h x l (mm)	ESD No.
SG 90	90 x 149 x 315	3 842 526 660
		3 842 558 331
SG 180	180 x 149 x 315	3 842 526 665
		3 842 559 310

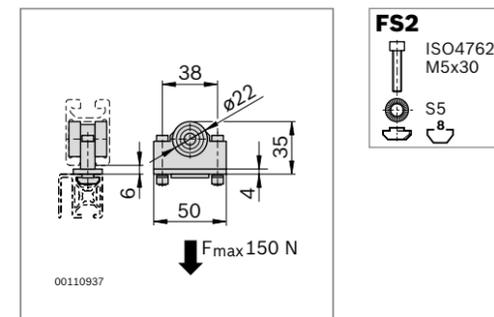
Material: Grab container base: Sheet steel, light gray powder coating (RAL 7035)
Grab container base ESD: Sheet steel; dusty gray (RAL 7037)



- ▶ Trolley with eye, e.g. for suspending a snap hook

Trolley for profile rail 30x45C	No.
	3 842 521 510

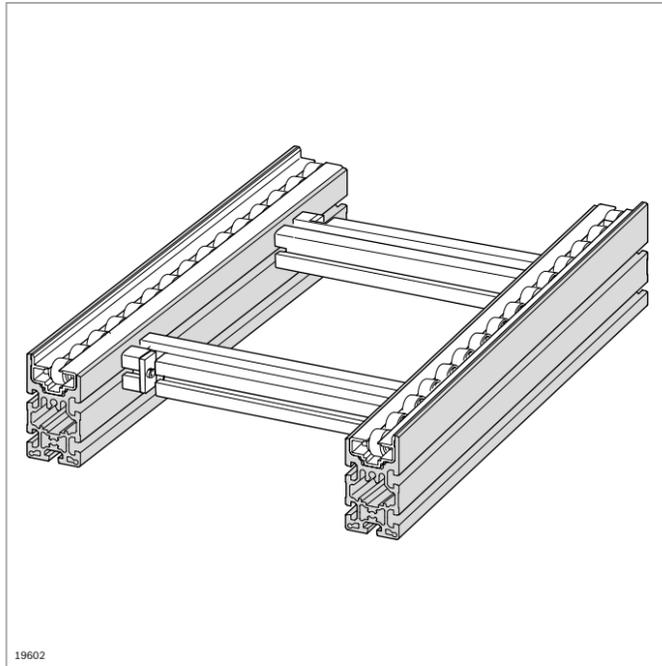
Material: Trolley: PA 6; black
Cam roller: POM; natural
Rubber buffer: NK/SBR; black



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

Trolley	No.	FS
	3 842 524 153	2xFS2

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



Profiles for installing conveyor media



► Profiles that are normally used to construct the transfer systems TS 2plus and TS 4, as well as Lean conveyor sections, 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 cm²
 I_x = 10,4 cm⁴
 I_y = 8,3 cm⁴
 W_x = 4,6 cm³
 W_y = 4,1 cm³
 m = 1,2 kg/m

36861

U-profile	Slot	L (mm)	ESD No.
1 pc	10	50 ... 6070	3 842 993 316 / L
20 pcs	10	6070	3 842 535 115
1 pc	10	50 ... 6070	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 cm²
 I_x = 4,3 cm⁴
 I_y = 11,7 cm⁴
 W_x = 2,4 cm³
 W_y = 5,2 cm³
 m = 1,4 kg/m

19893

Section profile SP 2/R	L (mm)	No.
	50 ... 6070	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

19903

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

Material: Aluminum, natural-colored, anodized

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

19904

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

Material: Aluminum, natural-colored, anodized

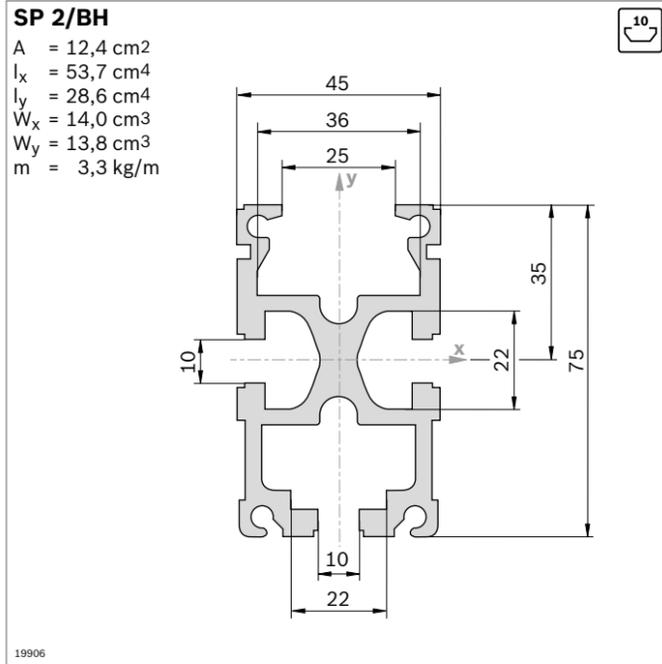
SP 2/B-100

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

19905

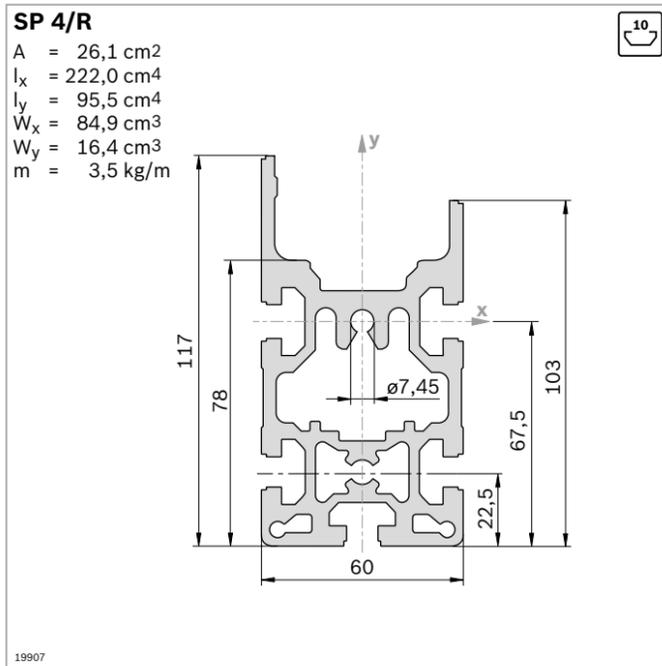
Section profile SP 2/B-100	Slot	L (mm)	No.
1 pc	10	200...6070	3 842 993 259 / L
16 pcs	10	6070	3 842 532 608

Material: Aluminum, natural-colored, anodized



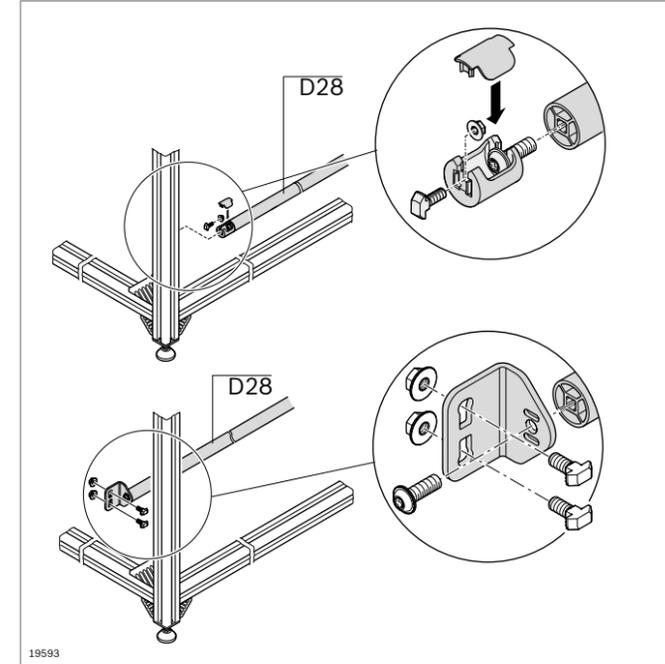
Section profile SP 2/BH	Slot	L (mm)	No.
1 pc		10	200 ... 6070 3 842 990 409 / L
16 pcs		10	6070 3 842 532 696

Material: Aluminum, natural-colored, anodized



Section profile SP 4/R	Slot	L (mm)	No.
10 pcs		10	6070 3 842 532 505

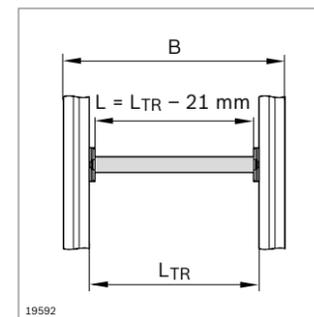
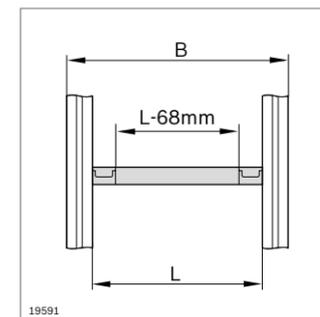
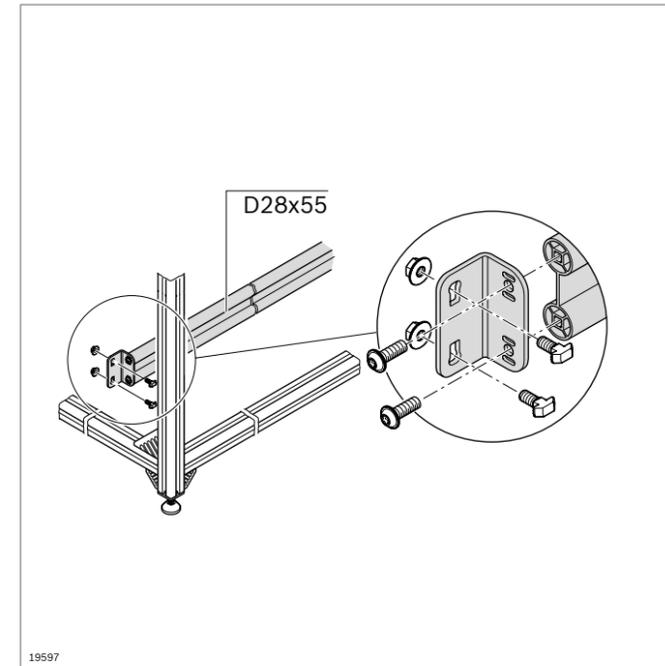
Material: Aluminum, natural-colored, anodized



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



- ▶ For constructing cross ties in flow racks or workstations
- ▶ Suitable 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. 3-41)
- ▶ For matching components to construct conveyor tracks, see chapter 12 "Elements for manual movement"



D28
 $A = 2,4 \text{ cm}^2$
 $I_x = 1,5 \text{ cm}^4$
 $I_y = 1,5 \text{ cm}^4$
 $W_x = 1,1 \text{ cm}^3$
 $W_y = 1,1 \text{ cm}^3$
 $m = 0,7 \text{ kg/m}$

19505

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

Material: Aluminum; anodized
 Optional accessories: Labeling clip (p. 2-86)

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

D28x55
 $A = 5,9 \text{ cm}^2$
 $I_x = 3,2 \text{ cm}^4$
 $I_y = 88,3 \text{ cm}^4$
 $W_x = 2,3 \text{ cm}^3$
 $W_y = 23,1 \text{ cm}^3$
 $m = 1,6 \text{ kg/m}$

19468

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

Material: Aluminum; anodized
 Optional accessories: Labeling clip (p. 2-86)

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

19596

FS1

FS2

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)

19594

FS2

FS3

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. cover cap, fastening material (FS)

19595

Cover cap D28	No.
20	3 842 532 878

Material: ABS; black

19598

FS1

FS2

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 D28L round tubes and D28L, N10, and the D28 round tube
- ▶ Integrated poka-yoke system for easy and secure connector installation
 - Anti-torsion element for secure joints
 - Form-fit connection

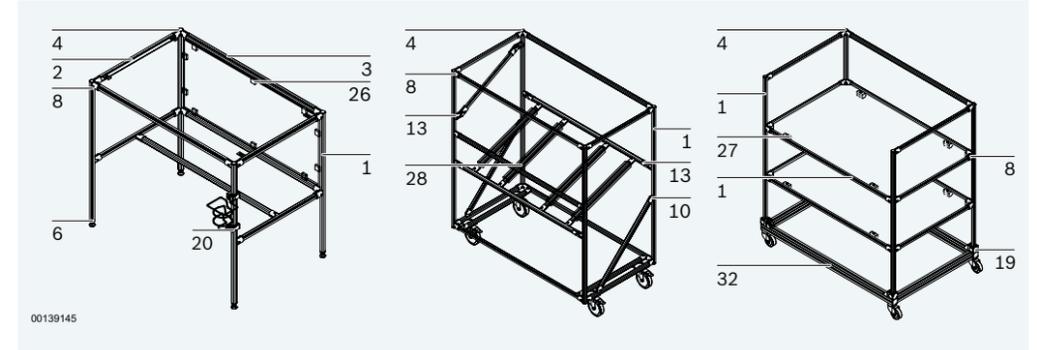
- ▶ All connectors are suitable for setting up ESD-conductive systems.

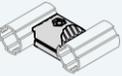
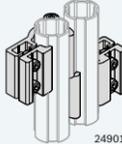
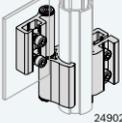
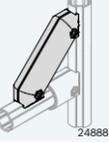
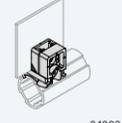
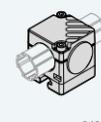
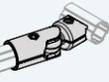
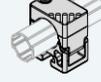
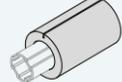
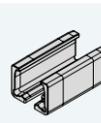
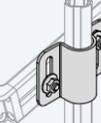
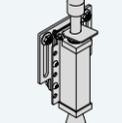
Material: Diecast zinc
Scope of delivery: Incl. Fastening material



32 components – countless 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 Round tube D28L  24878	9 Parallel connector  24886	17 Bushing  34277	25 Hinge D28L/D28L  24901
2 Round tube D28L, N10  24879	10 45° Connector  24887	18 Retaining ring D28L  24893	26 Hinge D28L/-  24902
3 Slide rail  24880	11 Strut D28L, 45°  24888	19 Adapter N8, N10  24895	27 PA Variofix block  24903
4 Cover cap D28L  24881	12 Cross connector  24889	20 Adapter N10/45  24896	28 Variofix block Zn  24904
5 Cover cap D28L, N10  24882	13 0°-90° Connector  24890	21 Adapter N10/30  24897	29 Impact protection  24905
6 Threaded sleeve D28L, PA  24883	14 0°-90° D28 connector  24891	22 Adapter mount D28L  24898	30 Ring D50  24906
7 Threaded sleeve D28L, Zn  24884	15 Corner bracket D28  24892	23 Adapter XLean  24899	31 Rubber foot D28  24907
8 90° Connector  24885	16 Swivel bearing D28L  24894	24 Tube clamp D28L, N10  24900	32 Stopper D28L, N10  24908

1
 $A = 1,8 \text{ cm}^2$
 $I_x = 1,3 \text{ cm}^4$
 $I_y = 1,3 \text{ cm}^4$
 $W_x = 1,0 \text{ cm}^3$
 $W_y = 1,0 \text{ cm}^3$
 $m = 0,5 \text{ kg/m}$

36806

► D28L round tube with 4 interfaces for attaching EcoShape connectors

Round tube D28L		L (mm)	No.
1 pc		50 ... 6070	3 842 996 191/L
50 pcs		6070	3 842 557 243

Material: Aluminum; anodized

2
 $A = 2,6 \text{ cm}^2$
 $I_x = 1,2 \text{ cm}^4$
 $I_y = 2,0 \text{ cm}^4$
 $W_x = 0,8 \text{ cm}^3$
 $W_y = 1,4 \text{ cm}^3$
 $m = 0,7 \text{ kg/m}$

36807

► D28L round tube, N10 with 10 mm slot for mounting accessories from the MGE modular system
 ► Three interfaces for attaching EcoShape connectors

Round tube D28L, N10		L (mm)	No.
1 pc		50 ... 6070	3 842 996 192/L
20 pcs		6070	3 842 557 244

Material: Aluminum; anodized

3

00134987

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

Slide rail	Color	L (mm)	ESD	No.
	Signal gray	2000	10	3 842 554 750
	Black	2000	10	3 842 548 117

Material: PVC

4
D28L

24132

5
D28L, N10

24133

► Cover cap for D28L round tube and D28L, N10 round tube

Cover cap	Color	ESD	No.
D28L	Signal gray	20	3 842 554 752
	Black	20	3 842 548 129
D28L, N10	Signal gray	20	3 842 554 754
	Black	20	3 842 548 130

Material: PA6

6

25597

7

00134990

► Threaded sleeve for incorporating a leveling foot or castor wheel. For further information (see page 6-7)

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

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

7

25598

8

24134

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

Material: Diecast zinc
Hexagon nut: Aluminum

8

00134978

9

00134968

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
 DIN EN ISO 10511 M6

9

00134979

10

00134969

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
 DIN EN ISO 10511 M6

10

00134980

11

00134970

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
 DIN EN ISO 10511 M6

11

24135

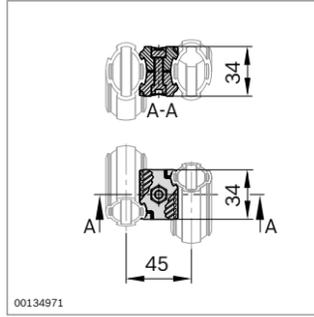
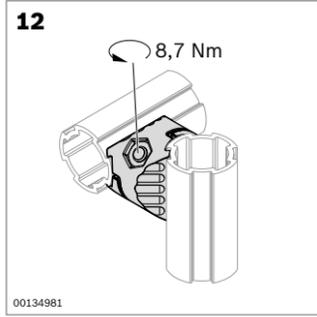
11

24002

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
 DIN EN ISO 10511 M6

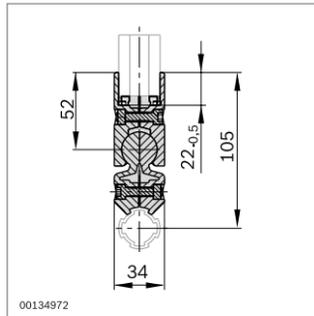
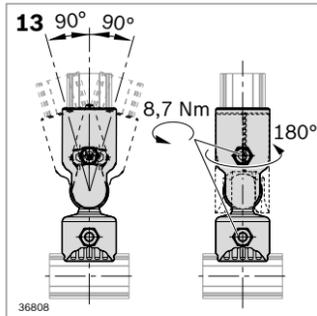


Cross connector	ESD	No.	FS
	20	3 842 541 181	FS1

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

FS1

ISO 4762	M6x25
DIN EN	ISO 10511
M6	

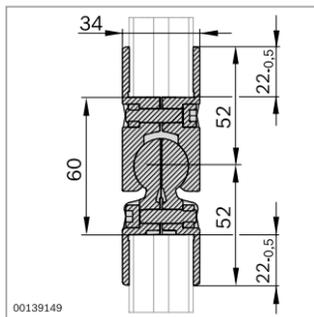
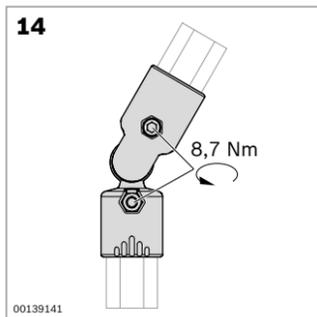


0°-90° connector	ESD	No.	FS
	20	3 842 541 178	2xFS1

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

FS1

ISO 4762	M6x25
DIN EN	ISO 10511
M6	



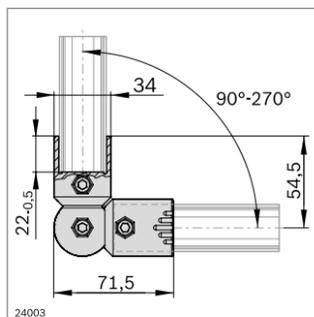
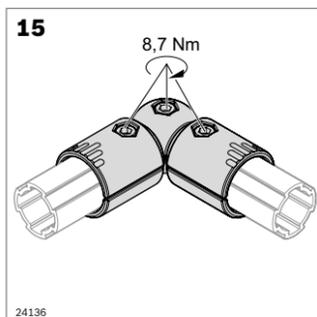
0°-90° D28 connector	ESD	No.	FS
	20	3 842 543 480	2xFS1

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

FS1

ISO 4762	M6x25
DIN EN	ISO 10511
M6	

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

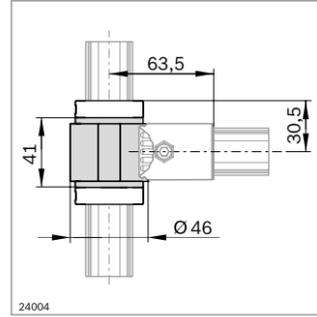
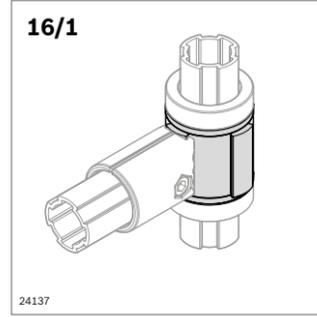


Corner bracket D28	ESD	No.	FS
	20	3 842 548 123	3xFS1

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

FS1

ISO 4762	M6x25
DIN EN	ISO 10511
M6	



- ▶ For axial shifting along the D28L round tube or D28L, N10 round tube. The retaining ring determines the end position
- ▶ Construction of swiveling applications
- ▶ Additional thread for flexible bracket adjustment

Required accessories:
 Retaining ring D28L

Swivel bearing D28L	L (mm)	ESD	No.
	34	20	3 842 548 121

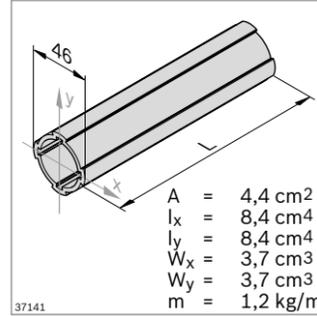
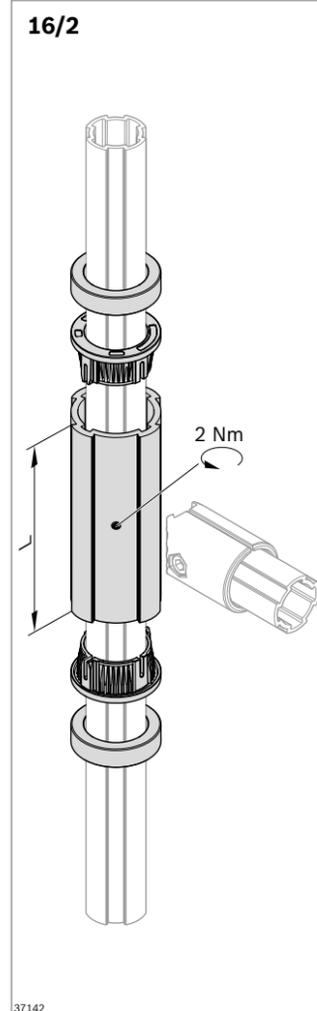
Material: Swivel bearing: Aluminum
 Scope of delivery: D28L swivel bearing, L = 34 mm D28 bushing (17), headless setscrew ISO 4026 M4x10

For self-assembly:

- ▶ D28L swivel bearing with L = 1000 mm that can be cut to length

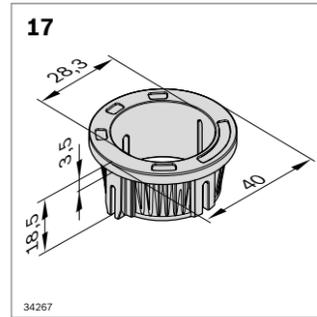
Swivel bearing D28L	L (mm)	No.
	1000	2 3 842 557 298

Material: Swivel bearing: Aluminum



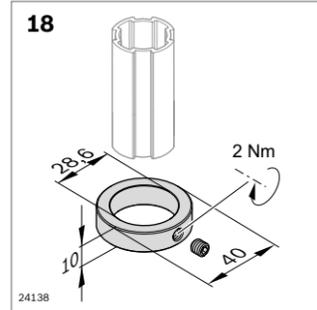
Bushing D28	L (mm)	No.
	4	3 842 557 299

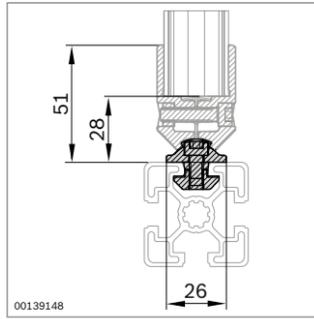
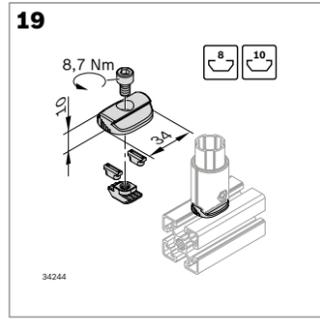
Material: Bushing: POM; black



Retaining ring D28L	L (mm)	ESD	No.
	20	20	3 842 548 122

Material: Retaining ring: Aluminum
 Scope of delivery: Retaining ring: incl. headless setscrew DIN 913 M6x6

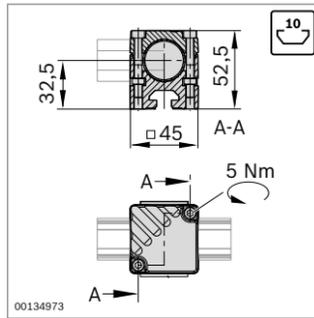
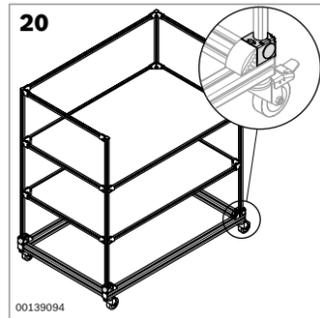
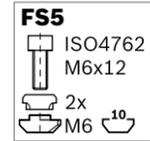
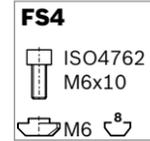




► N8, N10 adapter for connecting an MGE strut profile (8 mm, 10 mm slots)

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

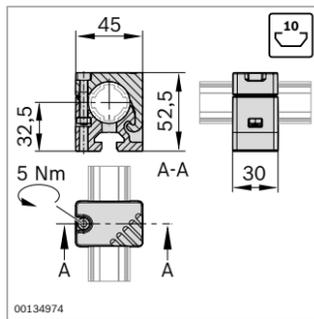
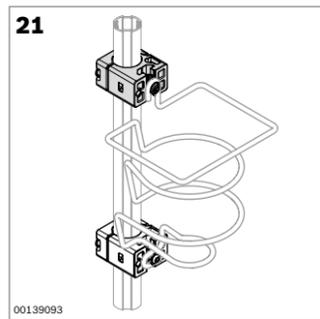
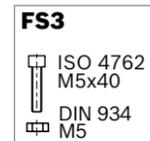
Material: Diecast zinc
Scope of delivery: Incl. fastening material (FS)



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

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

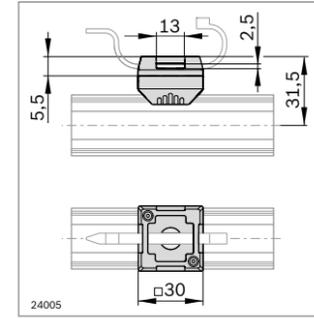
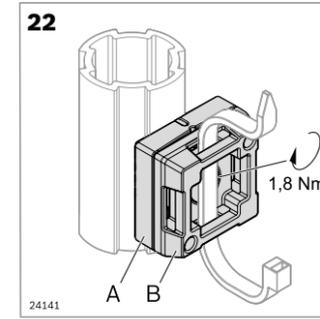
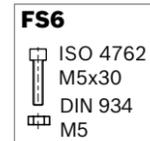
Material: Adapter: Diecast zinc
Cover cap: PE
Scope of delivery: Incl. cover cap, fastening material (FS)



► N10/30 adapter for fastening light accessories such as a bottle holder to the D28L round tube

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

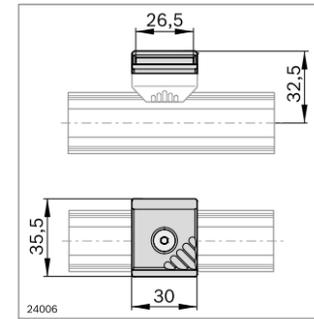
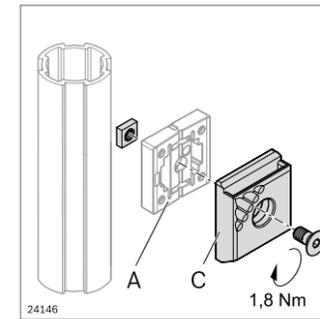
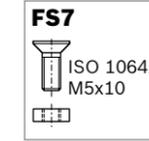
Material: Diecast zinc
Scope of delivery: Incl. fastening material (FS)



► For attaching cable ties

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

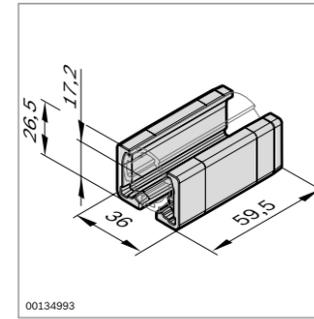
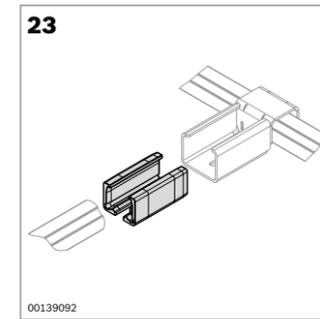
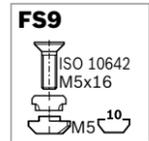
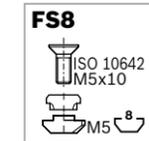
Material: PA66 (conductive); black
Scope of delivery: Incl. fastening material (FS)



► For attaching containers using the container mount

Container mount	ESD	No.	FS
C	10	3 842 544 797	FS8, FS9

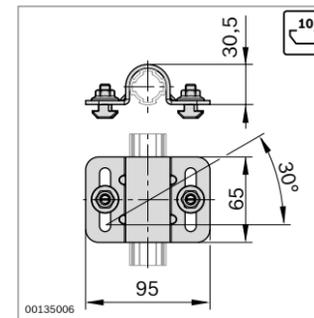
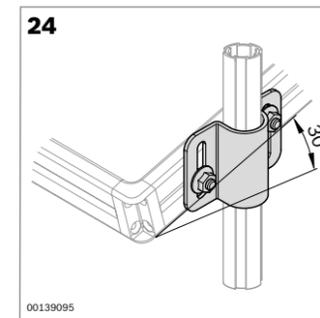
Material: PA66 (conductive); black
Scope of delivery: Incl. fastening material (FS)



► XLean adapter for combination with XLean. The XLean adapter connects the D28L round tube with the XLean rail holder (p. 12-25)

XLean adapter	ESD	No.
	20	3 842 541 296

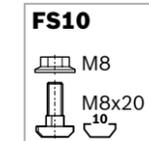
Material: PA66 (conductive); black

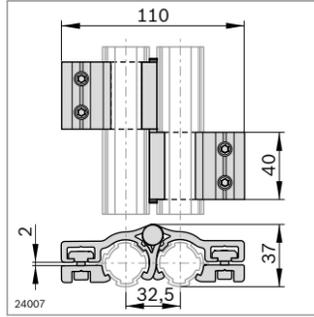
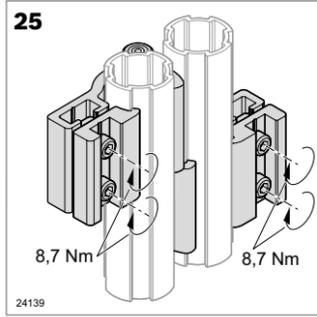


► Tube clamp D28L, N10 for fastening material shelves with a 10 mm slot to the D28L round tube; oblique positioning up to 30 degrees is possible

Tube clamp D28L, N10	ESD	No.	FS
	20	3 842 541 193	2xFS10

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



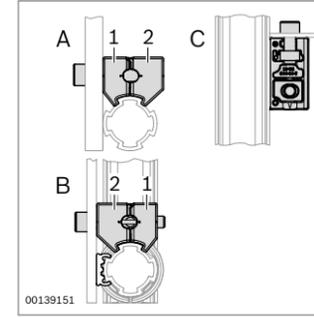
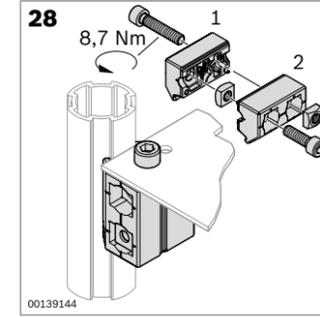


- ▶ Opening angle: 180°
- ▶ For mounting D28L round tube

Hinge D28L/D28L	ESD	No.	FS
	2	3 842 548 126	4x FS11, FS12

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

FS11	FS12
ISO4762 M6x10	ISO8741 6x60
M6	DIN125 A6,4

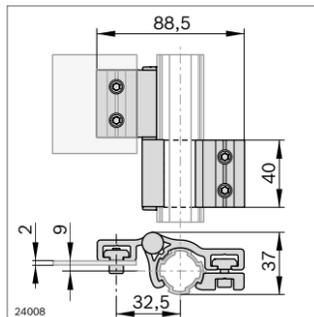
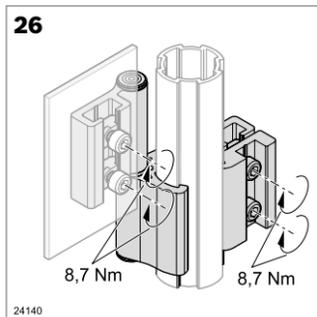


- ▶ Diecast zinc Variofix block for fastening panel elements
- ▶ Three arrangements possible ("A", "B", "C")

Variofix block Zn	ESD	No.	FS
	20	3 842 543 494	FS15

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

FS15
ISO 4762 M6x22
ISO 4762 M6x30
DIN 557 M6

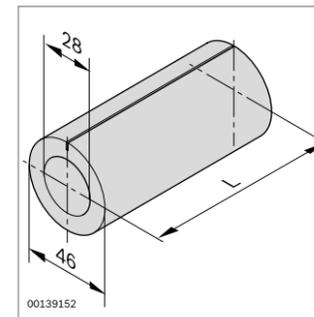
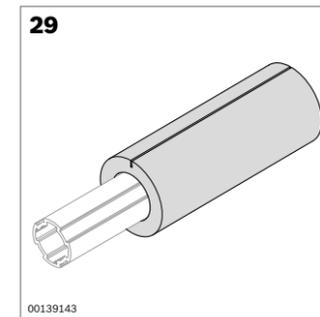


- ▶ Opening angle: 180°
- ▶ For mounting panel elements

Hinge D28L/-	ESD	No.	FS
	2	3 842 548 127	2x FS11, FS12

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

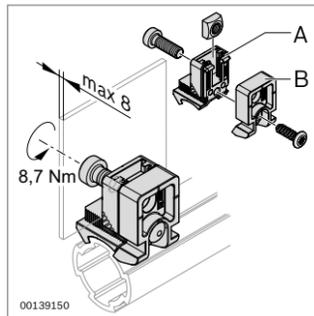
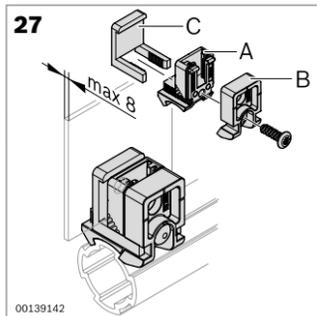
FS11	FS12
ISO4762 M6x10	ISO8741 6x60
M6	DIN125 A6,4



- ▶ Impact protection for D28 and D28L round tubes

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

Material: PE-LD; gray



- ▶ Plastic Variofix block for fastening panel elements with snap-in clips or a screw
- ▶ Variofix remover for releasing the snap-in clip (p. 14-6)

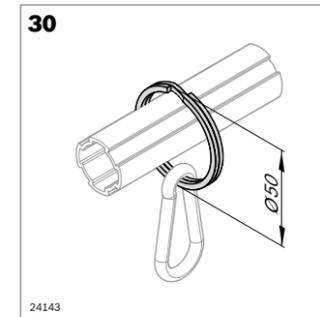
Variofix block (PA)	No.	FS
A + B	20 3 842 543 311	FS13, FS14

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

FS13	FS14
ISO 4762 M6x16	
DIN 557 M6	

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

Material: PA6; transparent



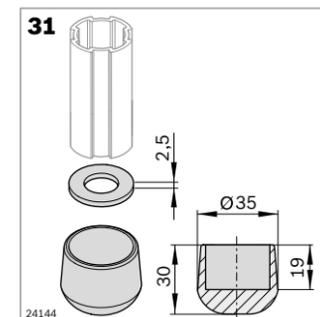
- ▶ For designing simple tool holders

Ring D50	No.
	20 3 842 548 131

Material: Nickel-plated steel

Spring hook	No.
	1 0 842 901 309

Material: Steel; galvanized

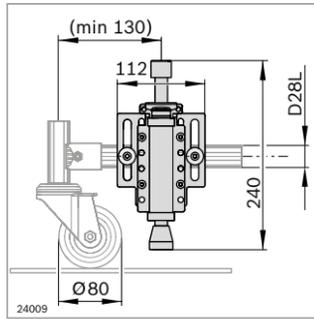
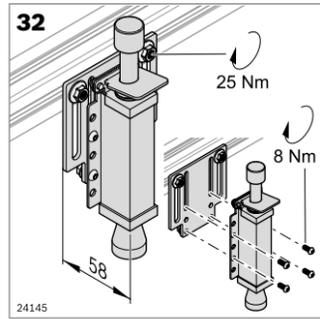


- ▶ Non-slip design of flow racks and stands

Rubber foot D28	ESD	No.	FS
	20	3 842 548 128	FS16

Material: NR/SBR (conductive); black

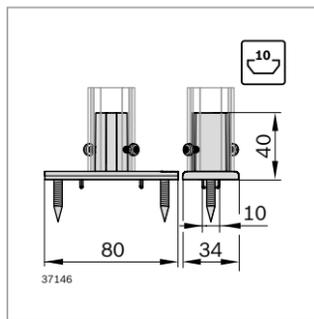
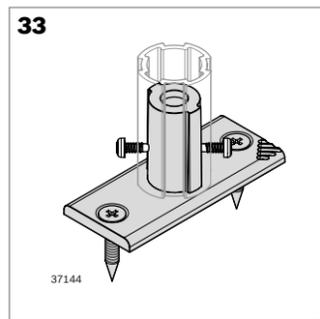
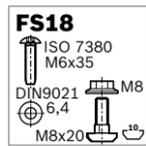
FS16
ISO 7089-14-200HV-CM



- ▶ To stop material shuttles ergonomically at just one point
- ▶ All-purpose option for attachment to different round tubes and profile cross-sections
- ▶ Stopper tension path: 34 mm

Stopper D28L, N10	No.	FS
	3 842 548 132	4x FS17, 2xFS18

Material: Stopper: Stainless steel, EPDM
Attachment plate: Aluminum
Scope of delivery: Incl. fastening material (FS)

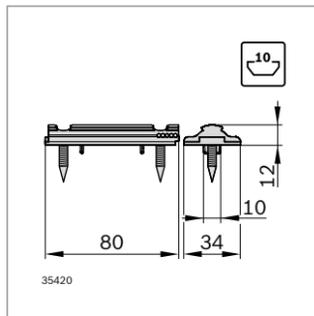
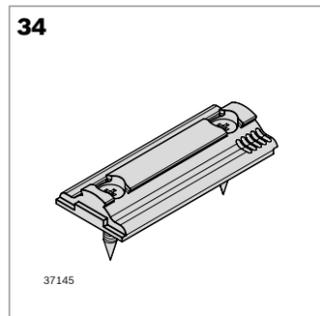


- ▶ Base plate for fastening frames directly onto walls, floors, table tops and strut profiles with 10 mm slot via EcoShape round tubes
- ▶ No additional connector required
- ▶ Anti-torsion element by centering lug (can be broken off)
- ▶ Reference load during profile installation: 15 Nm admissible in lengthwise and crosswise direction. Load values at installation on other surfaces depend on the respective material

Recommended accessories for profile installation:
Countersunk screw ISO 10642 M5x16-8.8;
T-nut (3 842 530 283) (p. 3-4)
Optional accessories: Self-tapping screw (3 842 552 267)

Base plate D28L	ESD	No.	FS
	10	3 842 559 346	2xFS19

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

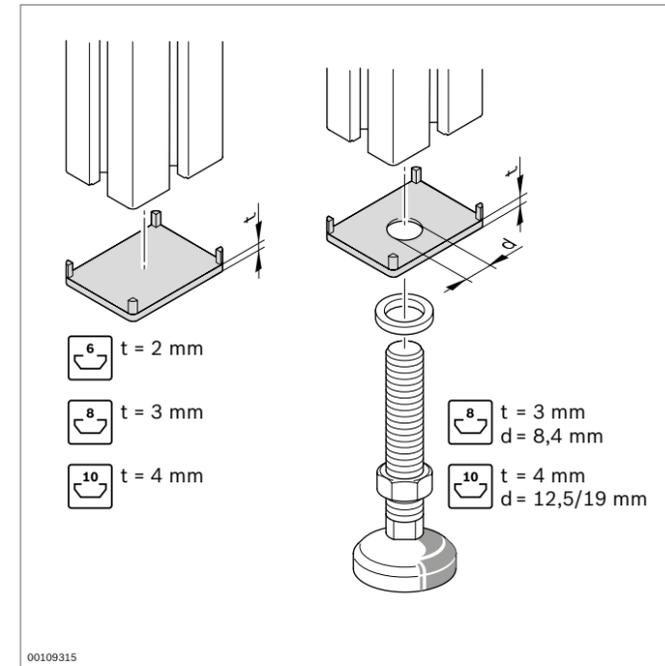


- ▶ Base plate for fastening frames onto walls, floors, table tops and strut profiles with 10 mm slot with the help of EcoShape connectors
- ▶ Anti-torsion element by centering lug (can be broken off)
- ▶ Reference load during profile installation: 15 Nm admissible in lengthwise and crosswise direction. Load values at installation on other surfaces depend on the respective material

Recommended accessories for profile installation:
Countersunk screw ISO 10642 M5x16-8.8;
T-nut (3 842 530 283) (p. 3-4)

EcoShape base plate	ESD	No.	FS
	10	3 842 559 345	2xFS19

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

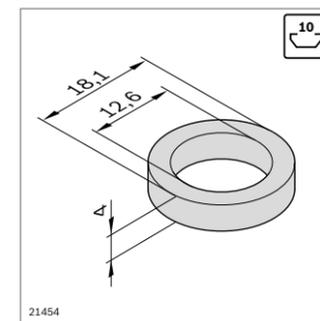


Cover cap Cover cap with hole



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

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

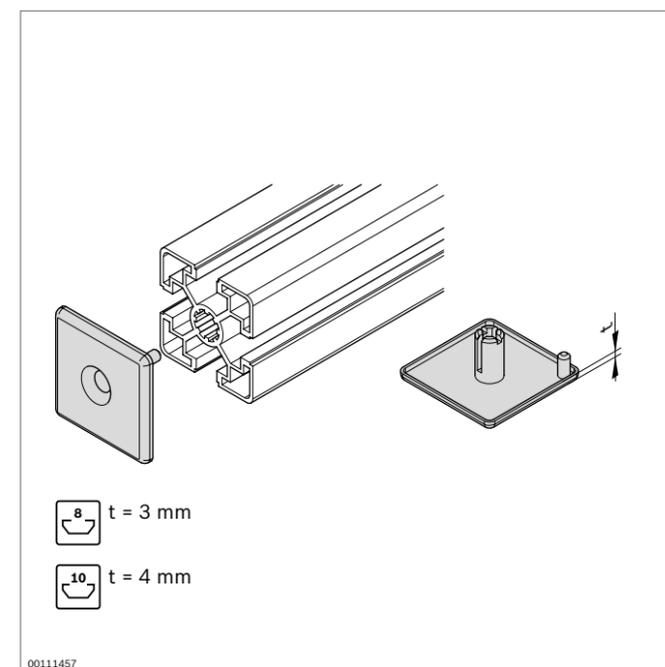


Bearing ring

- ▶ For cover caps with hole in the sizes 40x40, 45x45, 50x50 and 60x60
- ▶ For M12 threads
- ▶ To protect the cover caps when tightening accessories

Bearing ring	No.
	100 3 842 555 653

Material: Diecast zinc

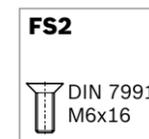


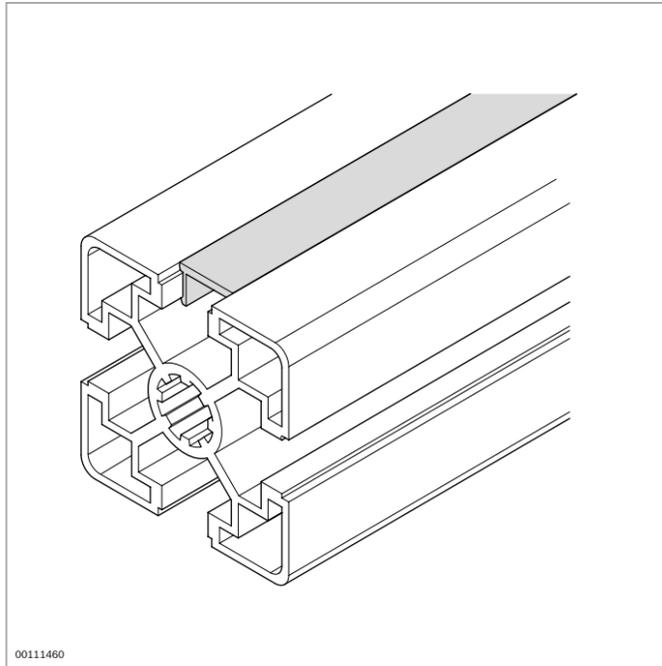
Diecast zinc cover cap

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

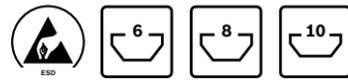
Cover cap ZN	ESD	No.	FS
30x30-ZN		3 842 518 204	FS1
40x40-ZN		3 842 541 807	FS2
45x45-ZN		3 842 518 205	FS2

Material: Cover cap: Diecast zinc
Fastening material: Steel; galvanized

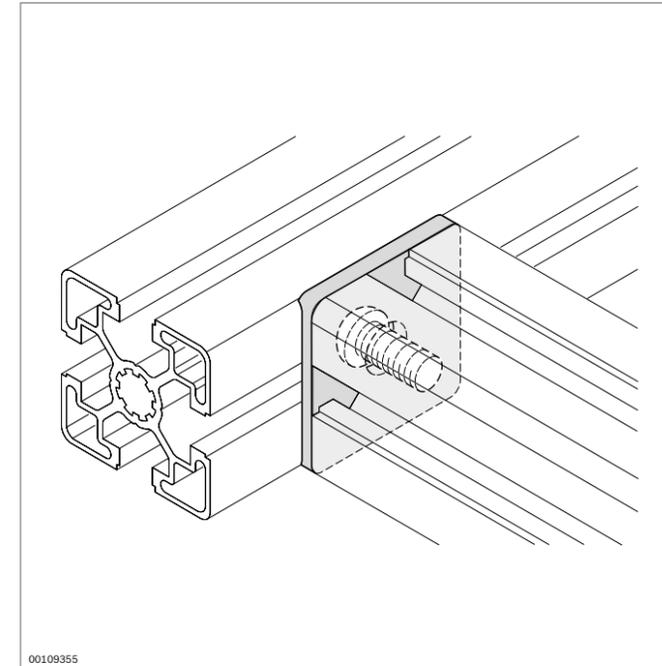




Cover profiles



- ▶ For fixing cables in position
- ▶ 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 by a suitable design solution, e.g. screw

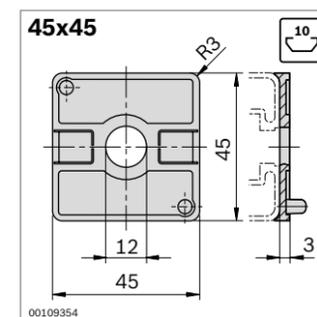
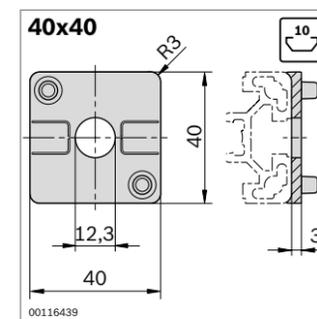
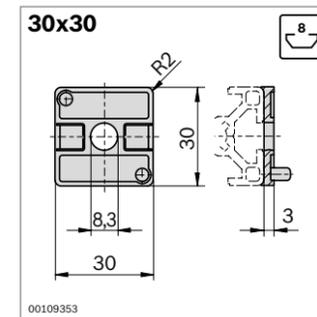


Radial compensation



- ▶ 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 panel elements in the slot
- ▶ Important note: The load carrying capacity of the profile connection is reduced when using radial compensation (see “Technical data”, page 18-20)!

Cover profile, 6 mm slot	Color	Material	ESD	L (mm)	No.	No.
	Colorless, natural	Aluminum; anodized		2000	10	3 842 523 254
	Signal gray (RAL 7035)	Soft PVC		10000	1	3 842 555 268
Cover profile, 8 mm slot	Color	Material	ESD	L (mm)	No.	No.
	Colorless, natural	Aluminum; anodized		2000	10	3 842 523 256
	Signal gray (RAL 7004)	PP		2000	10	3 842 548 878
	Black (RAL 9005)	PP		2000	10	3 842 548 879
	Light gray (RAL 7035)	PP		2000	10	3 842 548 898
	Red (RAL 3020)	PP		2000	10	3 842 549 878
	Yellow (RAL 1023)	PP		2000	10	3 842 549 879
	Green (RAL 6032)	PP		2000	10	3 842 554 771
	Blue (RAL 5010)	PP		2000	10	3 842 549 880
	Orange (RAL 2004)	PP		2000	10	3 842 549 881
	Colorless, transparent	PET		2000	10	3 842 549 877
Cover profile, 10 mm slot	Color	Material	ESD	L (mm)	No.	No.
	Colorless, natural	Aluminum; anodized		2000	10	3 842 523 258
	Signal gray (RAL 7004)	Hard PVC		2000	10	3 842 548 876
	Black (RAL 9005)	Hard PVC		2000	10	3 842 548 877
	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



Radial compensation	Slot	No.	No.
30x30	8	10	3 842 551 026

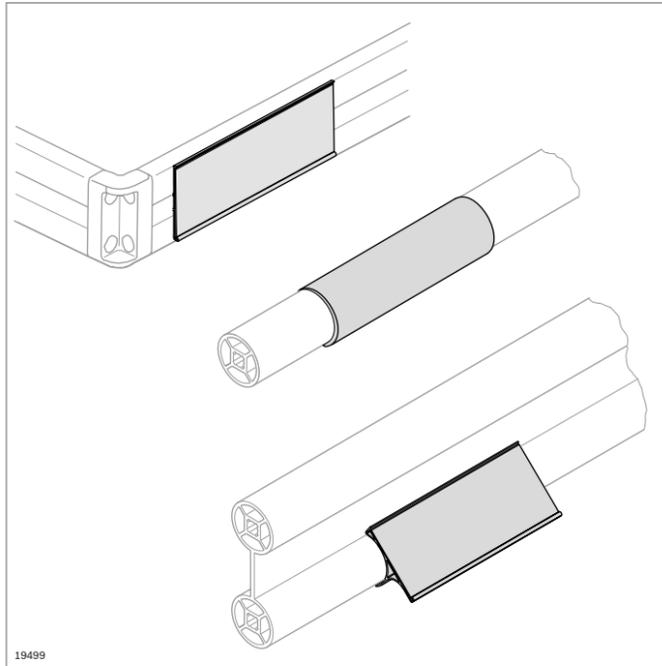
Material: PA; signal gray RAL 7004

Radial compensation	Slot	No.	No.
40x40	10	10	3 842 551 028

Material: PA; signal gray RAL 7004

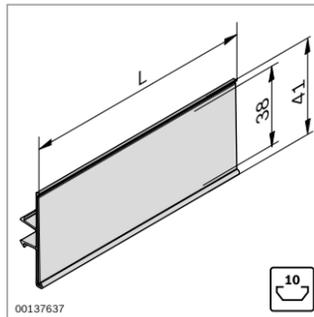
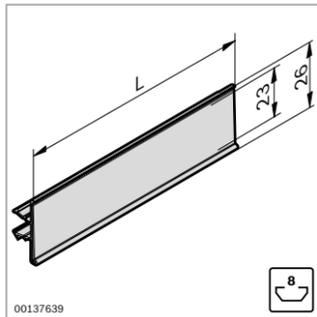
Radial compensation	Slot	No.	No.
45x45	10	10	3 842 551 030

Material: PA; signal gray RAL 7004



Labeling clips

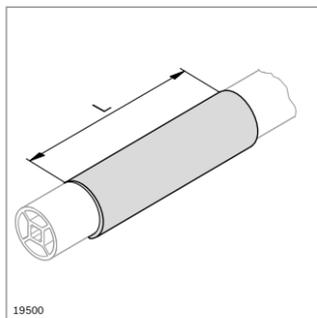
- For labeling profiles and tubular cross ties



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

Labeling 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

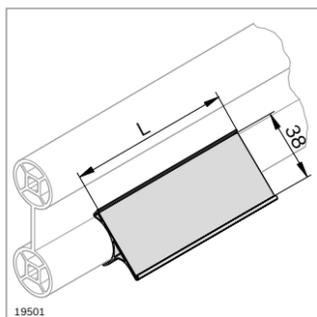
Material: Hard PVC, light gray (RAL 7035), transparent



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

Labeling clip	L (mm)	No.
For tubular cross ties	2000	20 3 842 535 136
	102	20 3 842 538 093

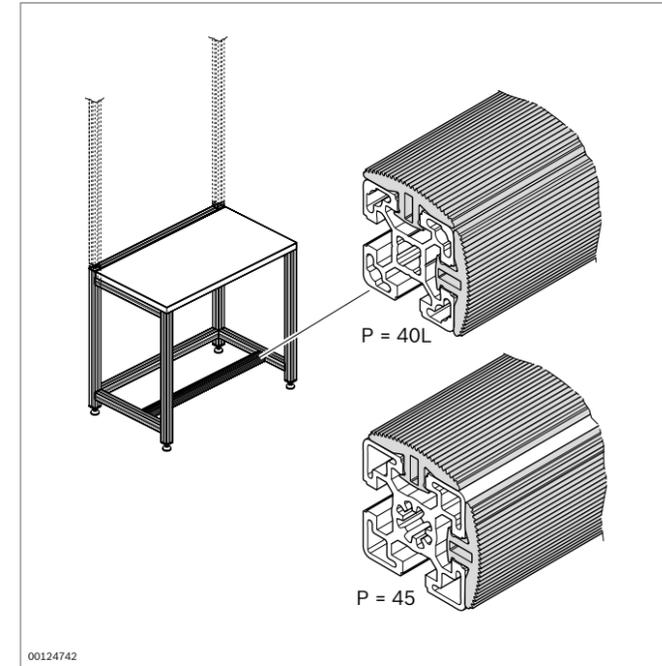
Material: Hard PVC, colorless, transparent



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

Labeling clip	L (mm)	No.
For tubular cross ties	2000	20 3 842 537 119
	102	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
- Really 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; bleeder resistance R = 10⁴ ... 10⁹ Ω

Screwed-on cloth holder

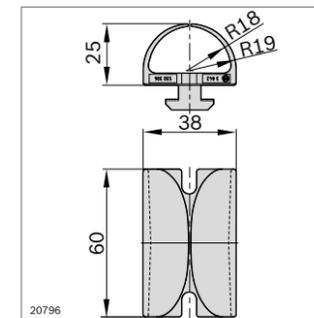
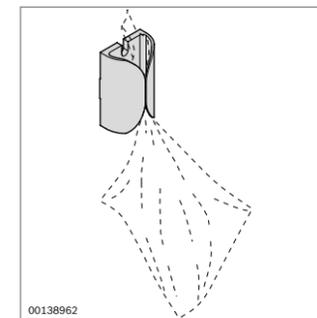
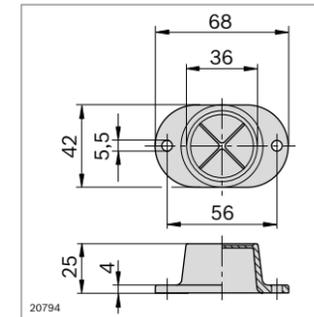
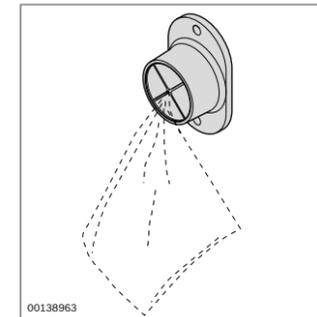
- For hanging cleaning cloths

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



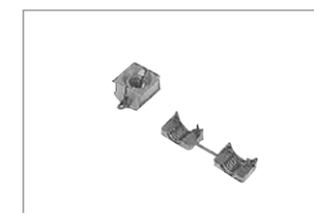
T-nut (p. 3-4)
Collar screw (p. 3-5)



Flange nut, T-bolt (p. 3-6)



Sliding block (p. 3-7)



Expanding nut (p. 3-10)



Parallel connector (p. 3-11)



Tensioning connector
(p. 3-12)



Slot connector (p. 3-13)



Inner bracket (p. 3-14)
Inner bracket R (p. 3-15)



Miter bracket (p. 3-17)



Bracket (p. 3-18)



Bracket R (p. 3-30)



Steel bracket (p. 3-32)



Metal bracket, supporting
bracket (p. 3-33)



Foundation bracket
(p. 3-34)



Holder (p. 3-35)



Supporting bracket
(p. 3-37)



Profile connector (p. 3-39)



Central bolt (p. 3-41)



Anti-torsion element (p. 3-42)



Cubic connector (p. 3-43)



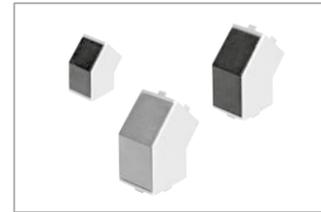
Corner bracket (p. 3-47)



End connector (p. 3-49)



T-connector (p. 3-51)



Connector 45° (p. 3-53)



Quick connector (p. 3-54)



Quick connector, bendable (p. 3-57)



Longitudinal end connector (p. 3-59)



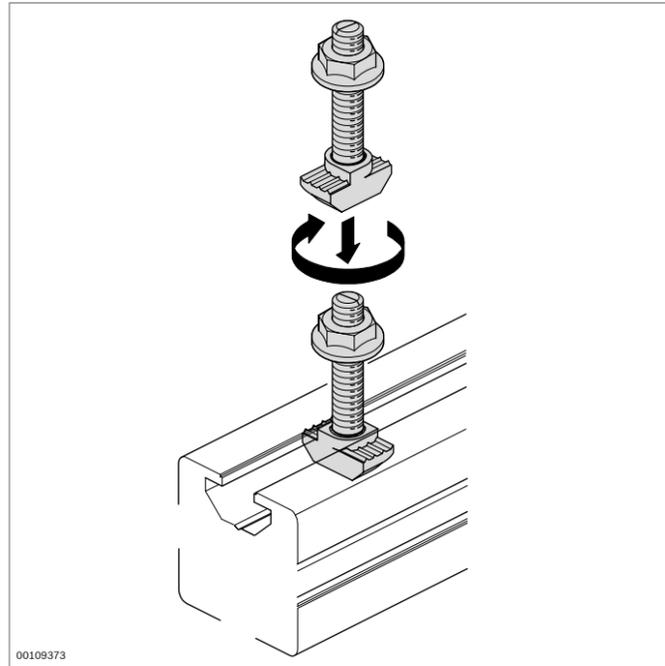
Bolt connector (p. 3-60)



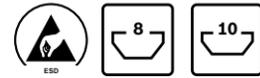
QV mounting kit (p. 3-62)

Connection elements, selection criteria

	recommended	suitable	unsuitable	Tensioning connector	Slot connector	Inner bracket	Bracket	Central bolt	T-connector	Quick connector	Bolt connector
High feed force	●	●	○	●	●	○	●	●	●	●	●
High moment	◐	◐	○	●	●	○	●	◐	◐	○	●
High torsional moment	●	●	○	◐	◐	○	◐	○	●	○	●
Minimal finishing	●	●	○	■	■	■	■	◐	●	◐	◐
Minimal assembly	●	●	○	●	●	●	●	●	○	●	○
Low parts costs	◐	◐	○	◐	◐	◐	◐	●	○	◐	○
Subsequent mounting in closed frame	◐	◐	○	●	●	○	●	○	◐	○	●
Adjustment possible	●	●	○	●	●	◐	●	○	●	●	●
Mounting of panel elements	◐	◐	○	◐	◐	◐	◐	●	○	●	○
Internal connection (concealable)	●	●	○	●	●	●	○	●	◐	◐	●

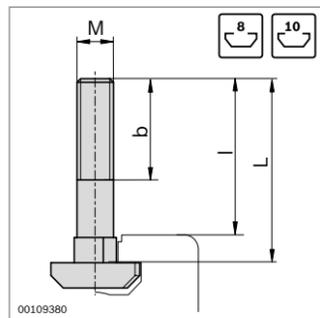
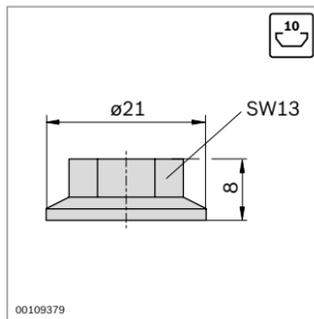
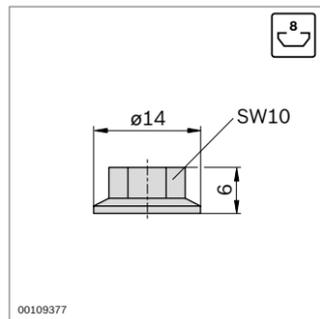


**Flange nut
T-bolt**



- ▶ Secure and conductive connection
- ▶ Notch at bolt end as marker for correct position recognition
- ▶ Profile finishing: Not required

Technical data (p. 18-15)



Slot	F_{max}
8	4000 N
10	6000 ... 18000 N ¹⁾

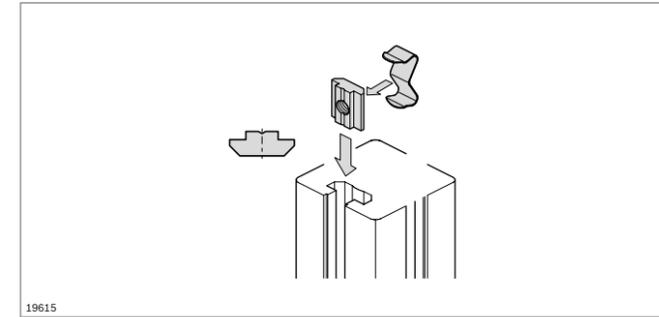
¹⁾ Depending on profile (p. 18-15)

Flange nut	Slot	M	ESD	No.
	8	M6	100	3 842 523 925
	10	M8	100	3 842 345 081

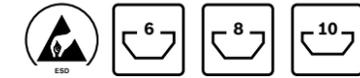
Material: Steel; galvanized

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
		M8x60	22	54	100	3 842 528 730

Material: Steel; galvanized

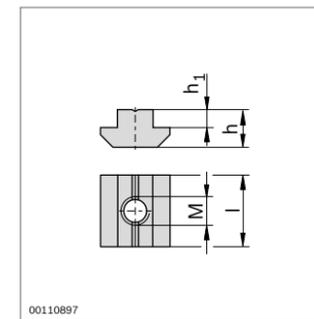


Sliding block, sliding block profile



- ▶ Sliding block for reliable absorption of high forces
- ▶ Sliding block profile for self-assembly of individual fastening elements
- ▶ Profile finishing: 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. 18-15)

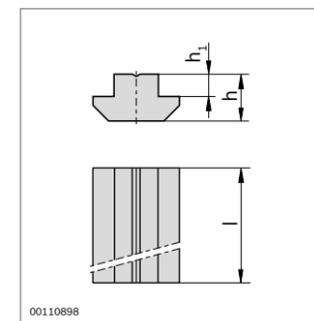


Slot	F_{max}
6 (M5)	3000 N
8 (M8)	6000 N
10 (M8)	8000 ... 24000 N ¹⁾

¹⁾ Depending on profile (p. 18-15)

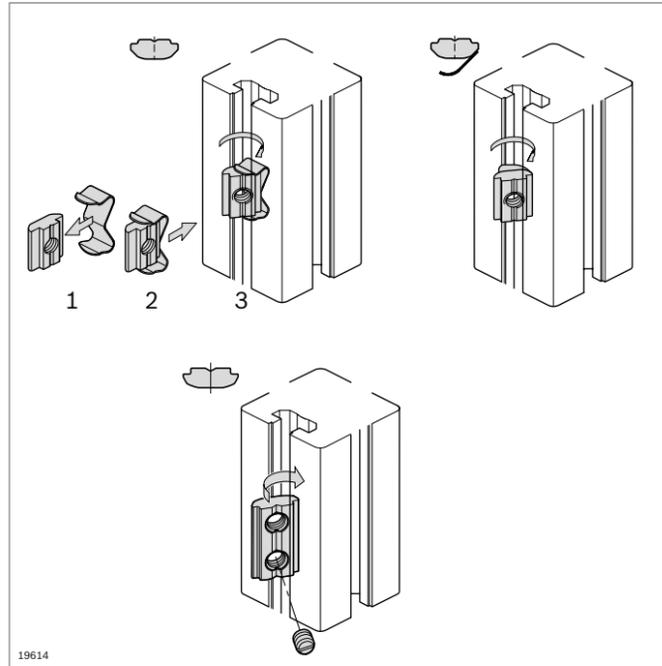
Sliding block	Slot	M	h (mm)	h ₁ (mm)	l (mm)	ESD	No.
Steel; galvanized	6	M4	4.0	1.0	12	100	3 842 542 692
		M5	4.0	1.0	12	100	3 842 542 693
	8	M4	6.0	2.0	16	100	3 842 514 928
		M5	6.0	2.0	16	100	3 842 514 929
		M6	6.0	2.0	16	100	3 842 514 930
		M8	6.0	2.0	16	100	3 842 514 931
Steel; stainless	10	M5	10.5	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
	6	M4	4.0	1.0	12	100	3 842 523 140
		M5	4.0	1.0	12	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)

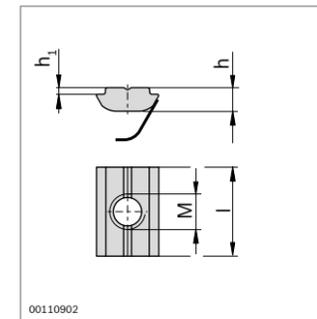
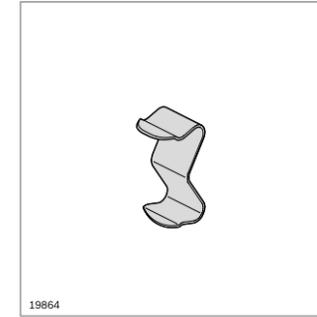


Swivel-in sliding block
Swivel-in sliding block profile
Spring



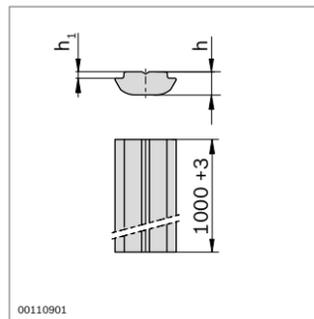
- ▶ Swivel-in sliding block profile for self-assembly of individual fastening elements
- ▶ The swivel-in sliding block can be inserted directly at the assembly point for easy assembly
- ▶ The swivel-in sliding block with spring can be inserted directly at the assembly point and fixed in position thanks to attached springs
- ▶ Swivel-in sliding block with headless setscrews for shake-proof fixing in all positions
- ▶ Profile finishing: Not required

Technical data (p. 18-15)



Slot	
8 (M8)	2200 N
10 (M8)	8000 ... 18000 N ¹⁾

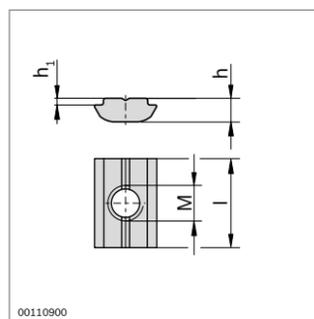
¹⁾ Depending on profile (p. 18-15)



Slot	
8 (M8)	2200 N
10 (M8)	8000 ... 18000 N ¹⁾

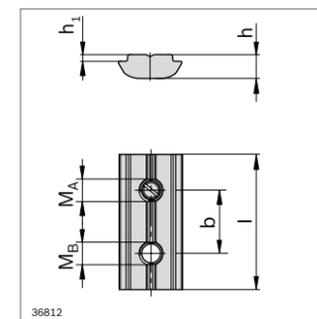
¹⁾ Depending on profile (p. 18-15)

Swivel-in sliding block profile	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



Swivel-in sliding block	Slot	M	h (mm)	h ₁ (mm)	l (mm)	ESD	No.
Steel; galvanized	8	M5	4.8	1.0	16	100	3 842 529 319
		M6	4.8	1.0	16	100	3 842 529 320
		M8	4.8	1.0	16	100	3 842 529 321
	10	M6	5.3	1.5	20	100	3 842 529 323
		M8	5.3	1.5	20	100	3 842 529 324
Steel; stainless	6	M3	3.0	0.9	12	100	3 842 547 826
		M4	3.0	0.9	12	100	3 842 536 669
		M5	3.0	0.9	12	100	3 842 547 825
	8	M6	4.8	1.0	16	100	3 842 530 321
	10	M8	5.3	1.5	20	100	3 842 530 316

Accessories: spring (p. 3-9)



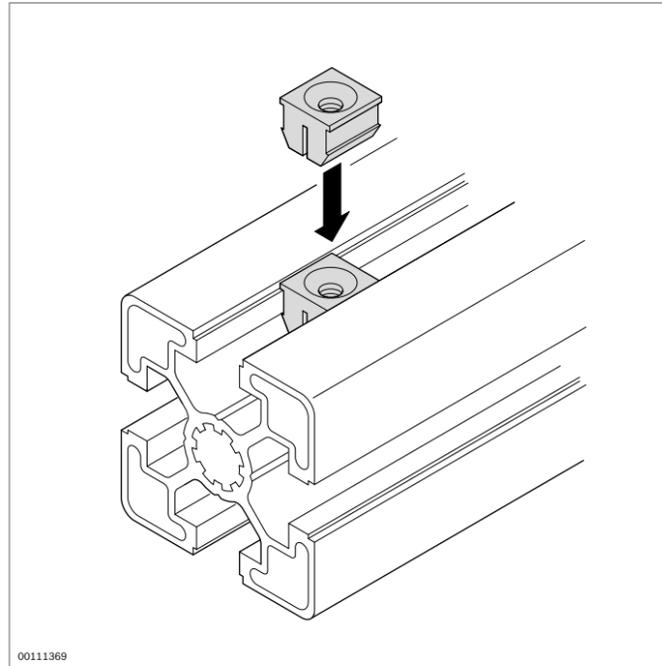
- ▶ The spring assists with the assembly and positioning of the sliding block and swivel-in sliding block

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

Swivel-in sliding block, with Headless setscrew (M _A)	Slot	M _A ; M _B	b (mm)	h (mm)	h ₁ (mm)	l (mm)	No.
Steel; stainless	6	M4; M4	8	3.0	0.9	15	100 3 842 536 673
Steel; galvanized	8	M5; M4	12	4.8	1.0	24	100 3 842 557 259
		M5; M5	12	4.8	1.0	24	100 3 842 536 675
		M5; M6	12	4.8	1.0	24	100 3 842 557 260
	10	M5; M5	14	5.3	1.5	30	100 3 842 536 676
		M5; M6	14	5.3	1.5	30	100 3 842 557 261
		M5; M8	14	5.3	1.5	30	100 3 842 557 262

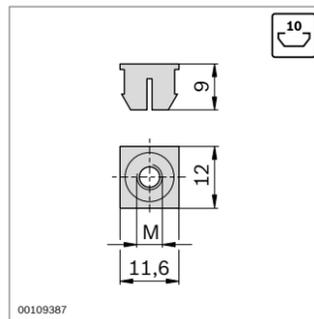


Expanding nut



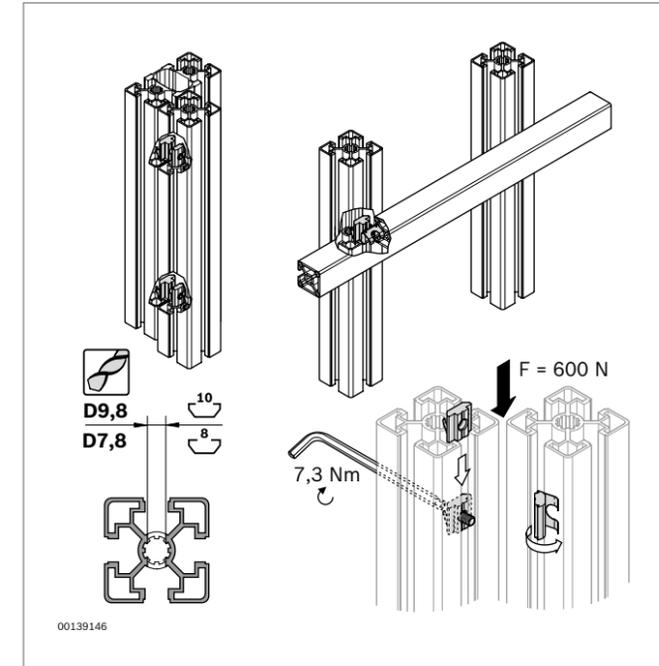
- ▶ For attaching light accessories such as cable ties or rings
- ▶ Easy assembly by clipping into the profile slot
- ▶ Profile finishing: Not required

Required accessories:
Countersunk screw



Expanding nut	Slot	M	No.
	10	M4	100 3 842 554 774
		M5	100 3 842 554 776
		M6	100 3 842 554 778

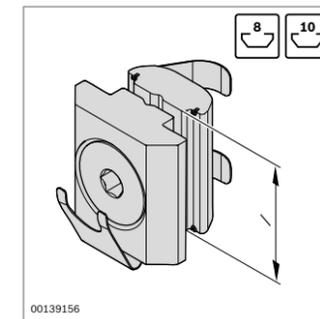
Material: PA; signal gray similar to RAL 7004



Parallel connector



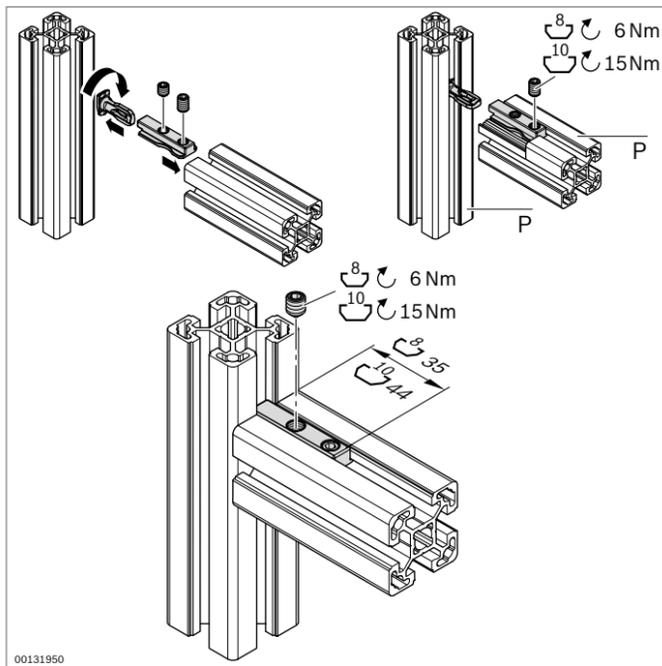
- ▶ For a gap-free connection between two strut profiles, parallel to the axis or at any angle
- ▶ Parallel connector consisting of two sliding blocks with welded springs for simple assembly
- ▶ Attractive-looking interior connection, e.g. for material shelves
- ▶ Connection possible in any position
- ▶ Transferable displacement force per parallel connector: 600 N
- ▶ Profile finishing: Through-hole



Slot	F_{max}
8	600 N
10	600 N

Parallel connector	Slot	l (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



Tensioning connector



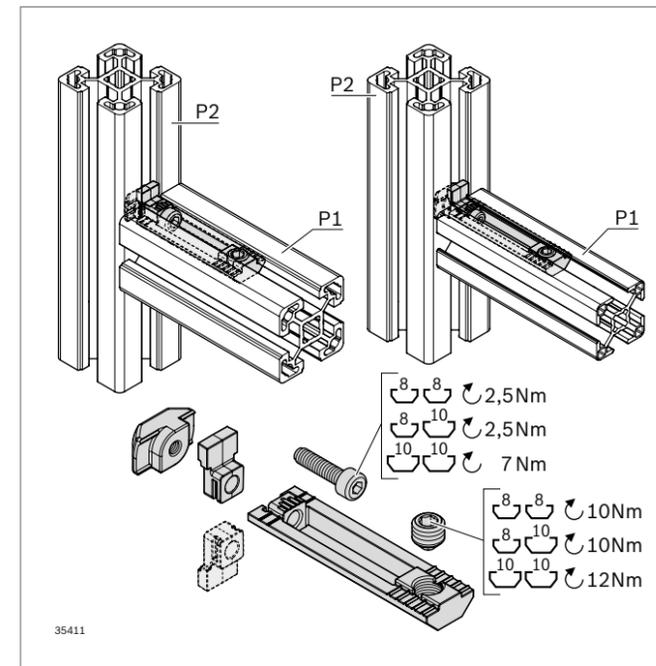
- ▶ Tensioning connector for fast assembly
- ▶ The connector can be moved within the slot
- ▶ Easily accessible screws
- ▶ Three slots are left free for mounting of panel elements
- ▶ Profile finishing: Not required

Technical data (p. 18-18)

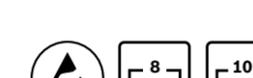
P			
30x...	1000 N	35 Nm	15 Nm
45x...L	3500 N	110 Nm	30 Nm
40x..., 45x..., 50x..., 90x...	3500 N	110 Nm	30 Nm
60x...	3500 N	195 Nm	60 Nm

Tensioning connector	Slot	P	ESD	No.
8	8	30x...		10 3 842 538 489
10L	10	45x...L 45x90SL 90x90SL		10 3 842 538 491
10	10	40x...L, 45x..., 50x...L, 60x..., 60x...L 80x...L 90x..., 90x...L, 45x90x90L		10 3 842 538 490

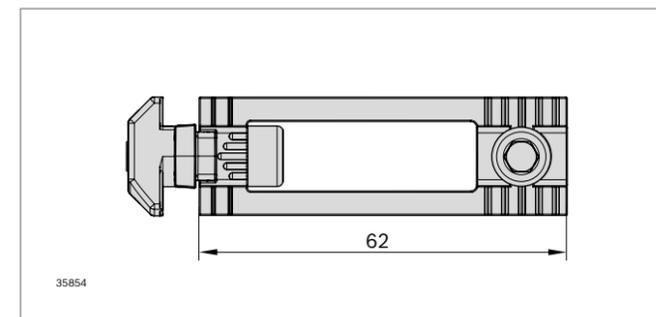
Material: Steel; galvanized



Slot connector



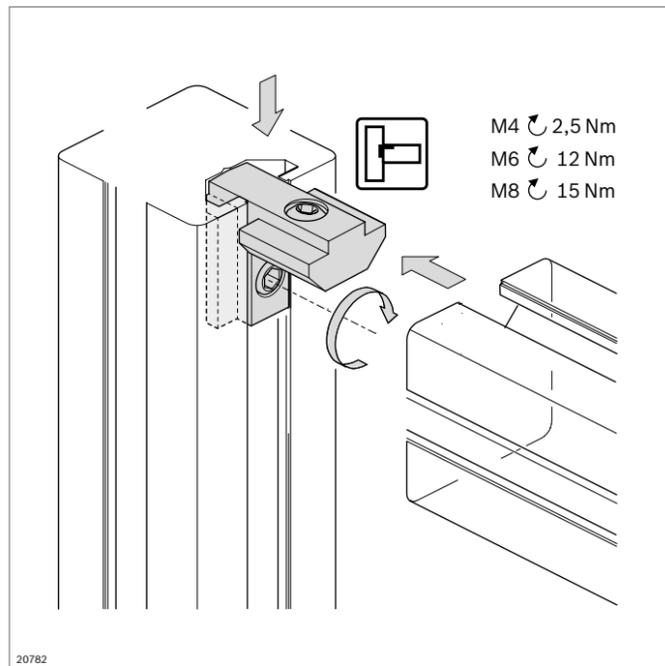
- ▶ Slot connector for fast assembly
- ▶ The connector can be moved within the slot
- ▶ Easily accessible screws
- ▶ Anti-torsion element can be removed if necessary, variable alignment (slot 10/10; 8/10)
- ▶ Headless setscrew, preassembled
- ▶ Profile finishing: Not required



Slot connector	P1	P2	ESD	No.
8/8	8	8		10 3 842 558 566
8/10	8	10		10 3 842 558 567
10/10	10	10		10 3 842 558 568

Material: Slot connector: Steel; galvanized
Anti-torsion element: PA6

Slot			
8 / 8	1000 N	35 Nm	15 Nm
8 / 10	1000 N	35 Nm	15 Nm
10 / 10	3000 N	110 Nm	30 Nm

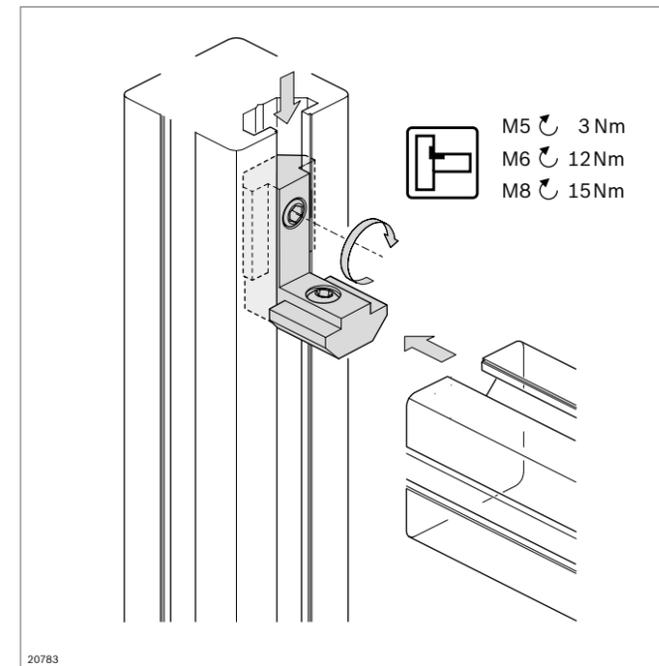


Inner bracket



- ▶ 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 finishing: Not required

Technical data (p. 18-18)

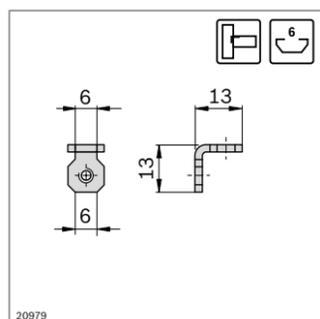


Inner bracket R



- ▶ For elegant, easy-to-assemble profile connections
- ▶ Especially suitable for constructing door frames, protective grilles, or partition walls
- ▶ Profile finishing: Not required

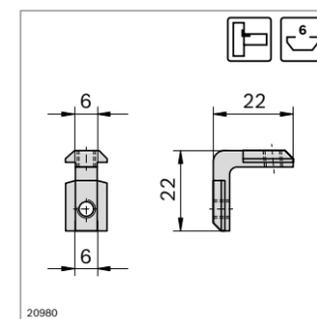
Technical data (p. 18-18)



FS1
DIN 915
M4x6

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)

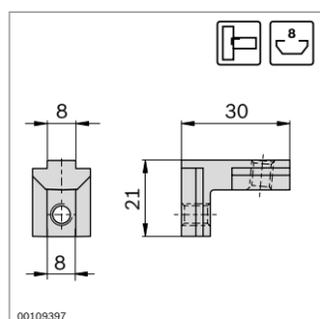


Slot	F _{max}	M _{max}
6 / 6	600 N	10 Nm

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)

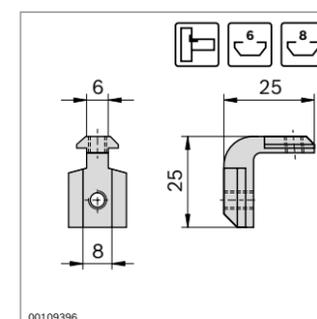


Slot	F _{max}	M _{max}
8 / 8	2200 N	50 Nm

FS2
DIN 913
M6x8

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)

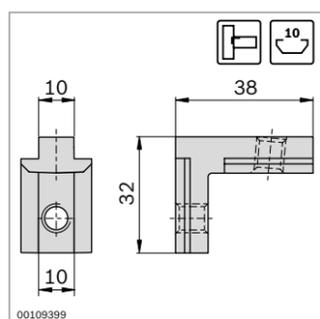


Slot	F _{max}	M _{max}
6 / 8	600 N	10 Nm

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)

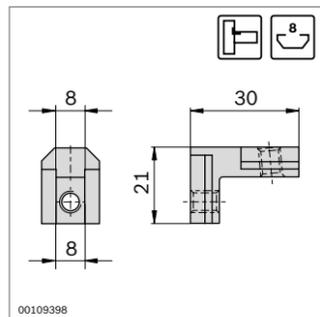


Slot	F _{max}	M _{max}
10 / 10	2800 N	100 Nm

FS3
DIN 913
M8x12

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)

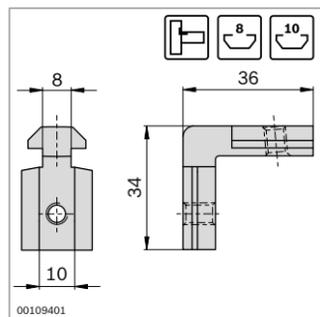


Slot	F_{max}	M_{max}
8 / 8	2500 N	50 Nm



Inner bracket R	Slot	ESD	No.	FS
	8 / 8		3 842 535 577	2xFS2

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

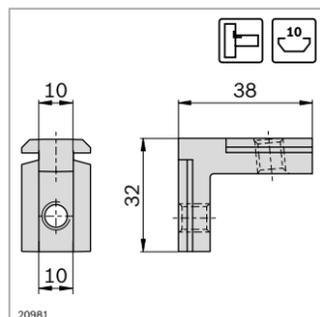


Slot	F_{max}	M_{max}
8 / 10	2500 N	50 Nm



Inner bracket R	Slot	ESD	No.	FS
	8 / 10		3 842 535 576	FS2, FS3

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

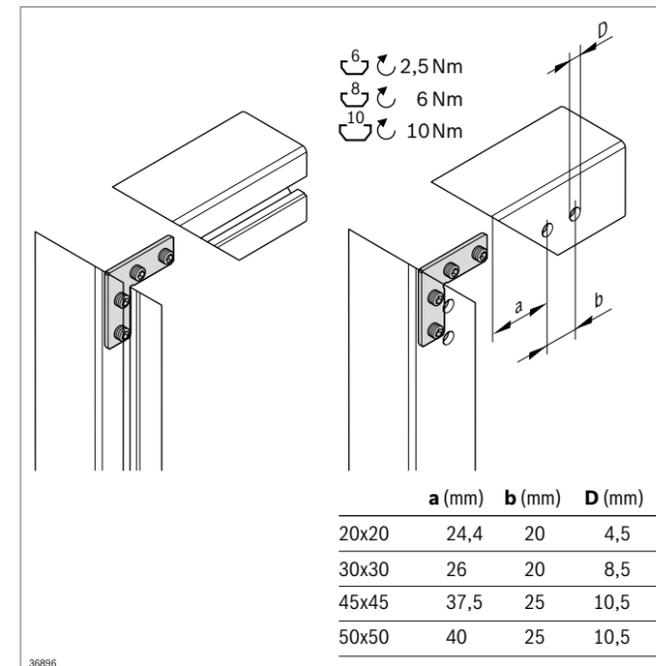


Slot	F_{max}	M_{max}
10 / 10	3000 N	100 Nm



Inner bracket R	Slot	ESD	No.	FS
	10 / 10		3 842 535 571	2xFS4

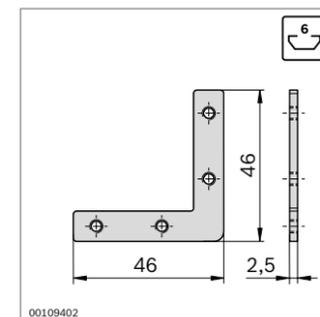
Material: Cast steel; galvanized
Fastening material: Steel; galvanized
Scope of delivery: Incl. fastening material (FS)



Miter bracket

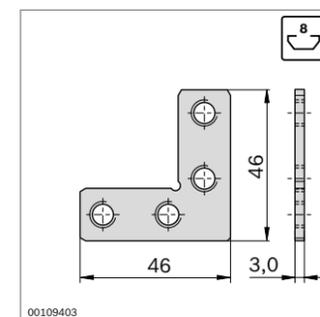


- ▶ For right-angled connections of miter-cut profiles
- ▶ Profile finishing with open profile slots: Not required
- ▶ Profile finishing with closed profile slots: Through-holes for screwdriver



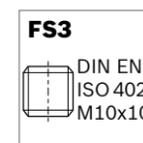
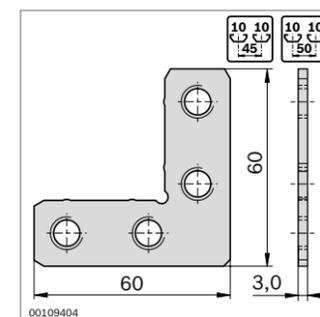
Miter bracket	Slot	ESD	No.	FS
	6		3 842 535 626	4xFS1

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



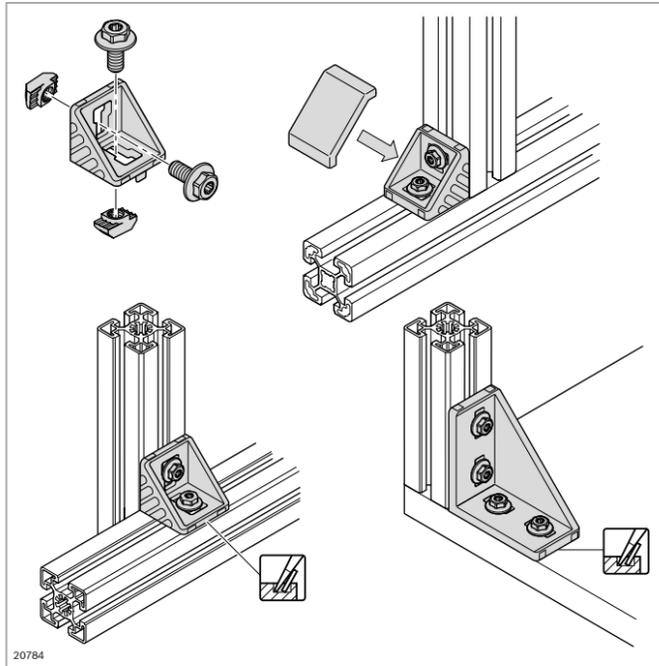
Miter bracket	Slot	ESD	No.	FS
	8		3 842 535 627	4xFS2

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

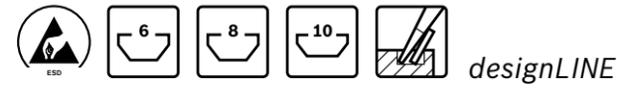


Miter bracket	Slot	ESD	No.	FS
	10		3 842 535 625	4xFS3

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



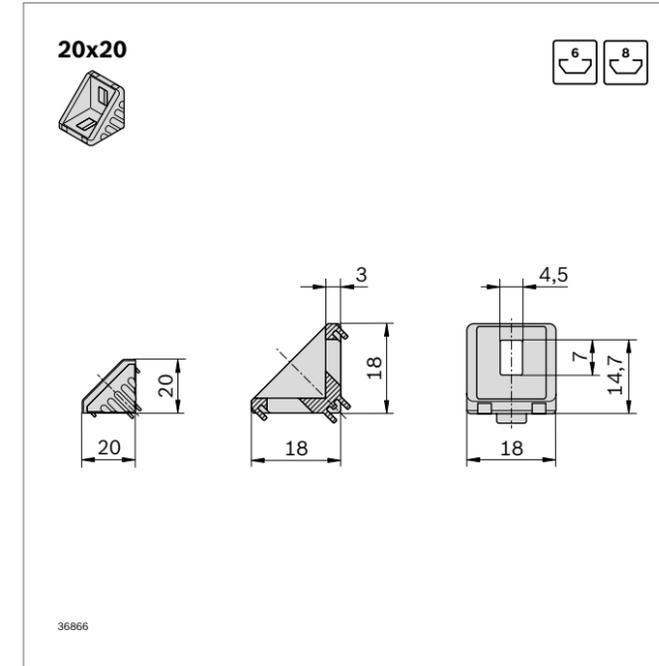
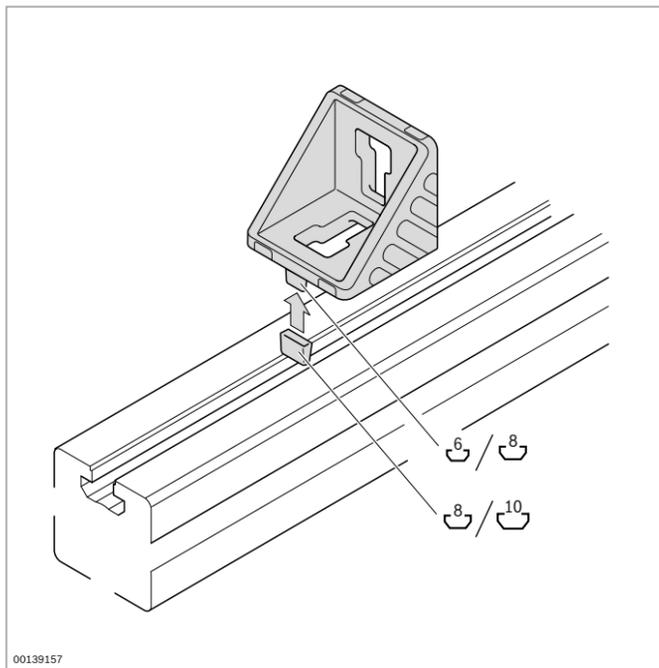
Bracket



- ▶ 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
- ▶ Intermediate element for positioning brackets in the next largest slot
- ▶ Sliding block offset for off-center positioning of the 45/45 bracket
- ▶ For preventing dry running, available in signal gray (RAL 7004) and black ESD (RAL 9005)
- ▶ Profile finishing: Not required

Technical data (p. 18-19)

Notice: The collar screws enable the brackets to be assembled really quickly and easily (p. 3-5)

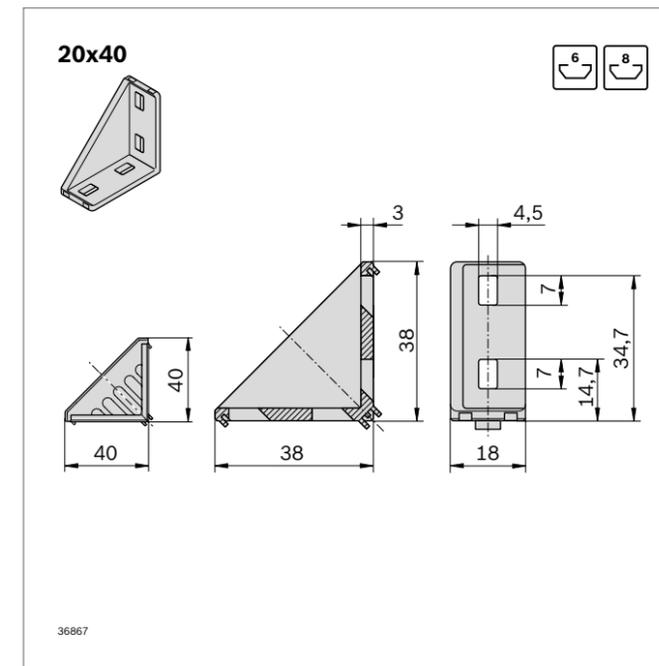


Type	F_{max}	M_{max}	M_{max}	M_{max}
20x20	700 N	6 Nm	25 Nm	—

20x20	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	
Cover cap, signal gray			100 3 842 548 842	
Cover cap, black			20 3 842 548 843	
Intermediate element for 6 / 8 8 mm slot			100 3 842 523 516	

Material: Bracket: Diecast aluminum, vibratory ground
designLINE bracket: painted (RAL 9006)
 Intermediate element: PA; black
 Cover cap: PP
 Fastening material: Steel; galvanized
 Scope of delivery: Set incl. fastening material (FS)

FS1



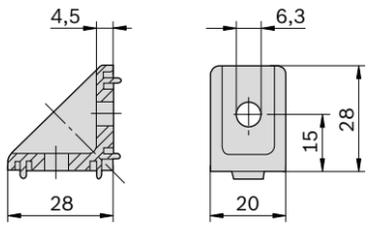
Type	F_{max}	M_{max}	M_{max}	M_{max}
20x40	1400 N	15 Nm	50 Nm	8 Nm

20x40	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	
Cover cap, signal gray			20 3 842 548 844	
Cover cap, black			20 3 842 548 845	
Intermediate element for 6 / 8 8 mm slot			100 3 842 523 516	

Material: Bracket: Diecast aluminum, vibratory ground
designLINE bracket: painted (RAL 9006)
 Intermediate element: PA; black
 Cover cap: PP
 Fastening material: Steel; galvanized
 Scope of delivery: Set incl. fastening material (FS)

FS1

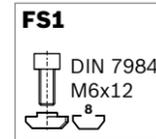
20x28

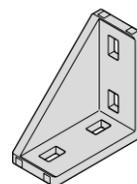
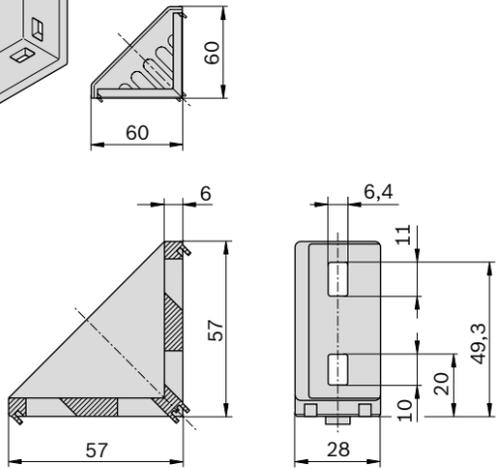
00125983

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)



30x60

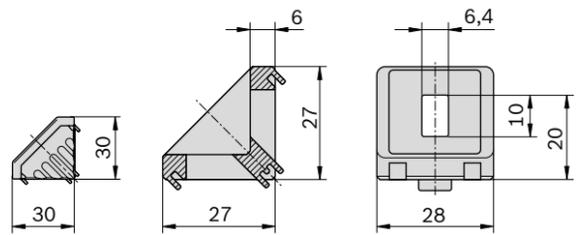



36869

30x60	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	
Cover cap, signal gray		20	3 842 548 848	
Cover cap, black		20	3 842 548 849	
Intermediate element for 10 mm slot	8 / 10	100	3 842 523 537	

Material: Bracket: Diecast aluminum, vibratory ground
designLINE bracket: painted (RAL 9006)
Intermediate element: PA; black
Cover cap: PP
Fastening material: Steel; galvanized
Scope of delivery: Set incl. fastening material (FS)

30x30

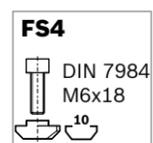
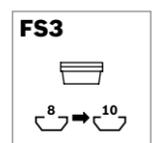
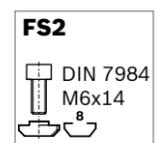



36868

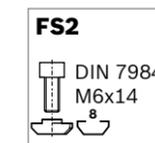
30x30	Slot	ESD	No.	FS
Set (standard)	8 / 8	1	3 842 523 528	2xFS2
	8 / 10	1	3 842 523 530	1xFS2, 2xFS3, 1xFS4
	10 / 10	1	3 842 523 532	4xFS3, 2xFS4
<i>designLINE</i> set	8 / 8	1	3 842 551 598	2xFS2
	8 / 10	1	3 842 551 600	1xFS2, 2xFS3, 1xFS4
	10 / 10	1	3 842 551 599	4xFS3, 2xFS4
Bracket (standard)	8	100	3 842 523 525	
Cover cap, signal gray		100	3 842 548 846	
Cover cap, black		20	3 842 548 847	
Intermediate element for 10 mm slot	8 / 10	100	3 842 523 537	

Material: Bracket: Diecast aluminum, vibratory ground
designLINE bracket: painted (RAL 9006)
Intermediate element: PA; black
Cover cap: PP
Fastening material: Steel; galvanized
Scope of delivery: Set incl. fastening material (FS)

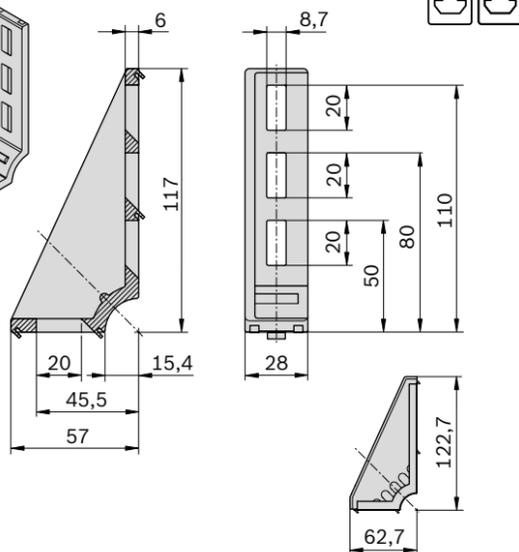
Type	F_{max}	M_{max}	M_{max}	M_{max}
30x30	1250 N	25 Nm	75 Nm	-



Type	F_{max}	M_{max}	M_{max}	M_{max}
30x60	2500 N	100 Nm	170 Nm	25 Nm



30x120

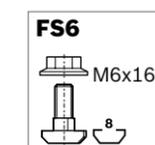



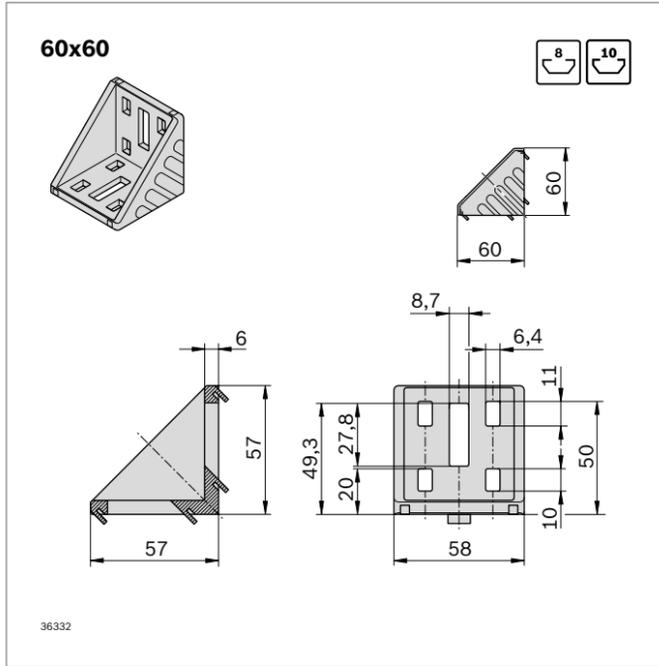
36870

30x120	Slot	ESD	No.	FS
<i>designLINE</i> set	8 / 8	1	3 842 551 602	2xFS6
Bracket (standard)	8	20	3 842 523 587	
Cover cap, signal gray		20	3 842 548 850	
Cover cap, black		20	3 842 548 851	
Intermediate element for 10 mm slot	8 / 10	100	3 842 523 537	

Material: Bracket: Diecast aluminum, vibratory ground
designLINE bracket: painted (RAL 9006)
Intermediate element: PA; black
Cover cap: PP
Fastening material: Steel; galvanized
Scope of delivery: Set incl. fastening material (FS)

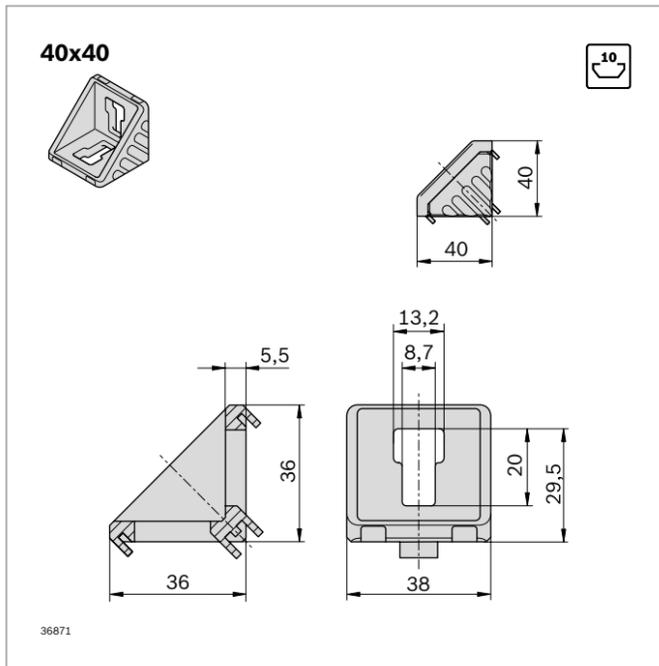
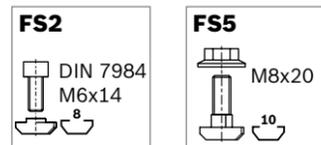
Type	F_{max}	M_{max}	M_{max}
30x120	3750 N	100 Nm	47 Nm





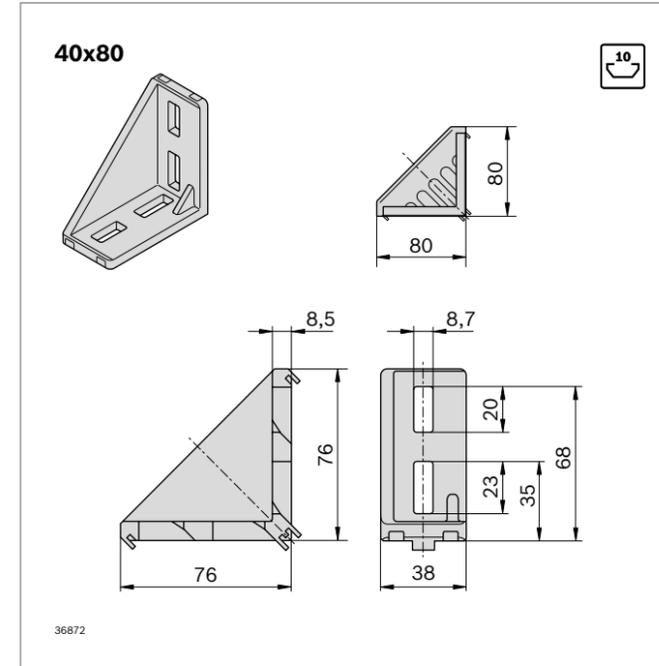
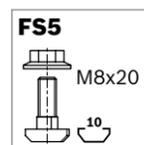
60x60	Slot	ESD	No.	FS
Set (standard)	8 / 8	⚡	1 3 842 523 549	8xFS2
	8 / 10	⚡	1 3 842 523 551	4xFS2, 1xFS5
	10 / 10	⚡	1 3 842 523 553	2xFS5
designLINE set	8 / 8	⚡	1 3 842 551 609	8xFS2
	8 / 10	⚡	1 3 842 551 610	4xFS2, 1xFS5
	10 / 10	⚡	1 3 842 551 611	2xFS5
Bracket (standard)	8	⚡	20 3 842 523 546	
Cover cap, signal gray			20 3 842 548 852	
Cover cap, black		⚡	20 3 842 548 853	
Intermediate element for 10 mm slot	10		100 3 842 523 537	
Material:	Bracket: Diecast aluminum, vibratory ground designLINE bracket: painted (RAL 9006) Intermediate element: PA; black Cover cap: PP Fastening material: Steel; galvanized			
Scope of delivery:	Set incl. fastening material (FS)			

Type	Slot	F _{max}	M _{max}	M _{max}	M _{max}
60x60	8	5000 N	320 Nm	370 Nm	110 Nm
	10	3000 N	125 Nm	150 Nm	-



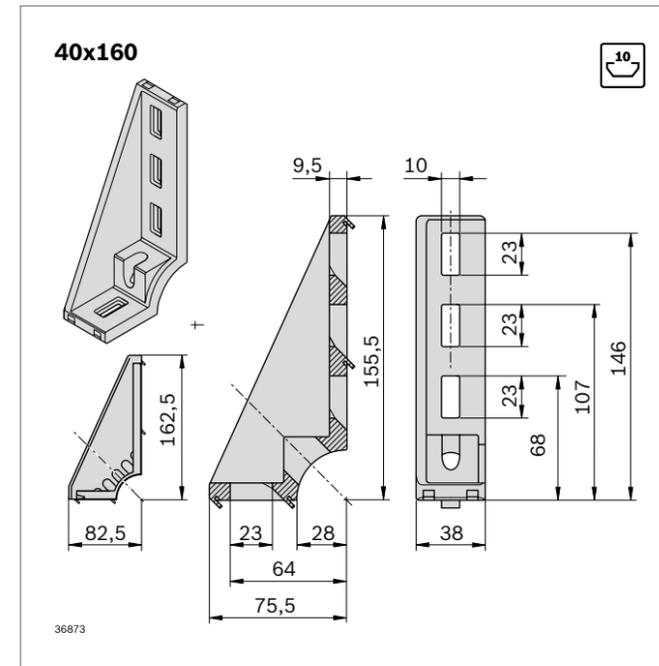
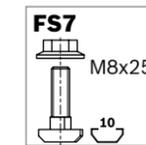
40x40	Slot	ESD	No.	FS
Set (standard)	10 / 10	⚡	1 3 842 529 383	2xFS5
	10 / 10	⚡	1 3 842 551 603	2xFS5
Bracket (standard)	10	⚡	100 3 842 528 967	
Cover cap, signal gray			100 3 842 548 854	
Cover cap, black		⚡	20 3 842 548 855	
Material:	Bracket: Diecast aluminum, vibratory ground designLINE bracket: painted (RAL 9006) Cover cap: PP Fastening material: Steel; galvanized			
Scope of delivery:	Set incl. fastening material (FS)			

Type	F _{max}	M _{max}	M _{max}	M _{max}
40x40	3000 N	55 Nm	145 Nm	35 Nm



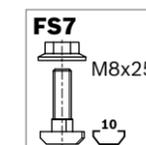
40x80	Slot	ESD	No.	FS
Set (standard)	10 / 10	⚡	1 3 842 529 386	4xFS7
	10 / 10	⚡	1 3 842 551 604	4xFS7
Bracket (standard)	10	⚡	20 3 842 529 005	
Cover cap, signal gray			20 3 842 548 856	
Cover cap, black		⚡	20 3 842 548 857	
Material:	Bracket: Diecast aluminum, vibratory ground designLINE bracket: painted (RAL 9006) Cover cap: PP Fastening material: Steel; galvanized			
Scope of delivery:	Set incl. fastening material (FS)			

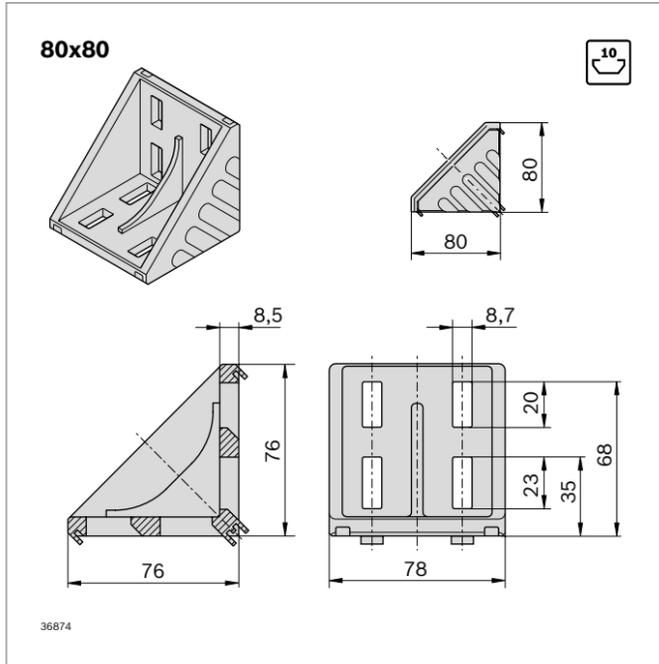
Type	F _{max}	M _{max}	M _{max}	M _{max}
40x80	6000 N	180 Nm	400 Nm	60 Nm



40x160	Slot	ESD	No.	FS
designLINE set	10 / 10	⚡	1 3 842 551 605	2xFS7
Bracket (standard)	10	⚡	20 3 842 529 006	
Cover cap, signal gray			20 3 842 548 858	
Cover cap, black		⚡	20 3 842 548 859	
Material:	Bracket: Diecast aluminum, vibratory ground designLINE bracket: painted (RAL 9006) Cover cap: PP Fastening material: Steel; galvanized			
Scope of delivery:	Set incl. fastening material (FS)			

Type	F _{max}	M _{max}	M _{max}
40x160	9000 N	250 Nm	60 Nm

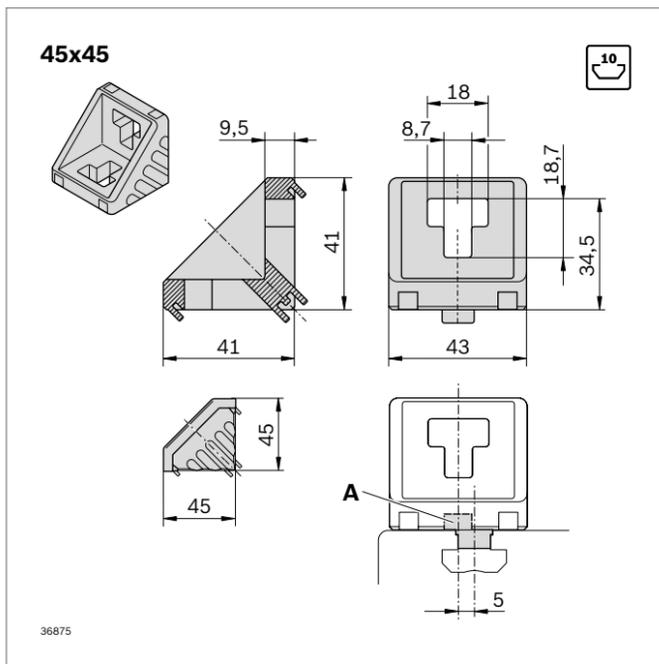
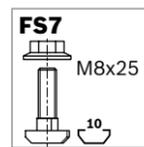




80x80	Slot	ESD	No.	FS
Set (standard)	10 / 10	⚡	1 3 842 530 360	8xFS7
<i>designLINE</i> set	10 / 10	⚡	1 3 842 551 612	8xFS7
Bracket (standard)	10	⚡	20 3 842 530 231	
Cover cap, signal gray			20 3 842 548 860	
Cover cap, black		⚡	20 3 842 548 861	

Material: Bracket: Diecast aluminum, vibratory ground
designLINE bracket: painted (RAL 9006)
 Cover cap: PP
 Fastening material: Steel; galvanized
 Scope of delivery: Set incl. fastening material (FS)

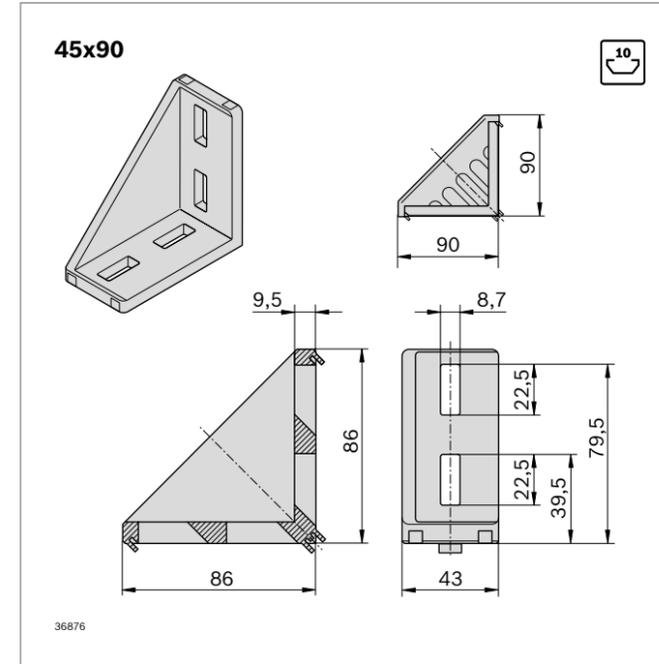
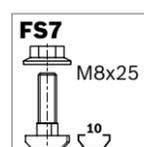
Type	F_{max}	M_{max}	M_{max}	M_{max}
80x80	14000 N	500 Nm	1000 Nm	400 Nm



45x45	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	
Cover cap, signal gray			100 3 842 548 862	
Cover cap, black		⚡	20 3 842 548 863	
Sliding block, offset (A)	10		100 3 842 523 593	

Material: Bracket: Diecast aluminum, vibratory ground
designLINE bracket: painted (RAL 9006)
 Sliding block, offset: PA; black
 Cover cap: PP
 Fastening material: Steel; galvanized
 Scope of delivery: Set incl. fastening material (FS)

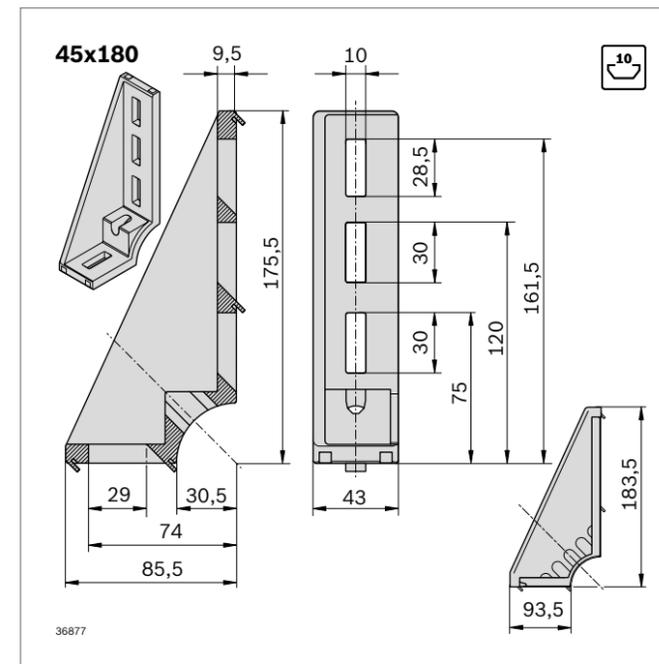
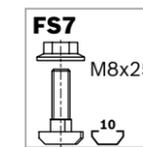
Type	F_{max}	M_{max}	M_{max}	M_{max}
45x45	3000 N	60 Nm	160 Nm	-



45x90	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	
Cover cap, signal gray			20 3 842 548 864	
Cover cap, black		⚡	20 3 842 548 865	

Material: Bracket: Diecast aluminum, vibratory ground
designLINE bracket: painted (RAL 9006)
 Cover cap: PP
 Fastening material: Steel; galvanized
 Scope of delivery: Set incl. fastening material (FS)

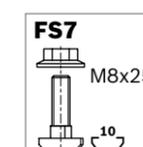
Type	F_{max}	M_{max}	M_{max}	M_{max}
45x90	6000 N	180 Nm	400 Nm	60 Nm

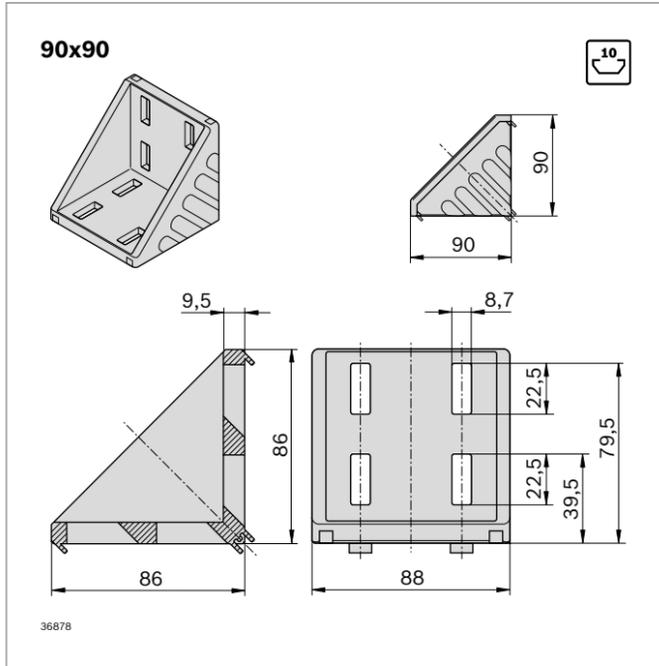


45x180	Slot	ESD	No.	FS
<i>designLINE</i> set	10 / 10	⚡	1 3 842 551 608	2xFS7
Bracket (standard)	10	⚡	20 3 842 523 583	
Cover cap, signal gray			20 3 842 548 866	
Cover cap, black		⚡	20 3 842 548 867	

Material: Bracket: Diecast aluminum, vibratory ground
designLINE bracket: painted (RAL 9006)
 Cover cap: PP
 Fastening material: Steel; galvanized
 Scope of delivery: Set incl. fastening material (FS)

Type	F_{max}	M_{max}	M_{max}	M_{max}
45x180	9000 N	250 Nm	65 Nm	

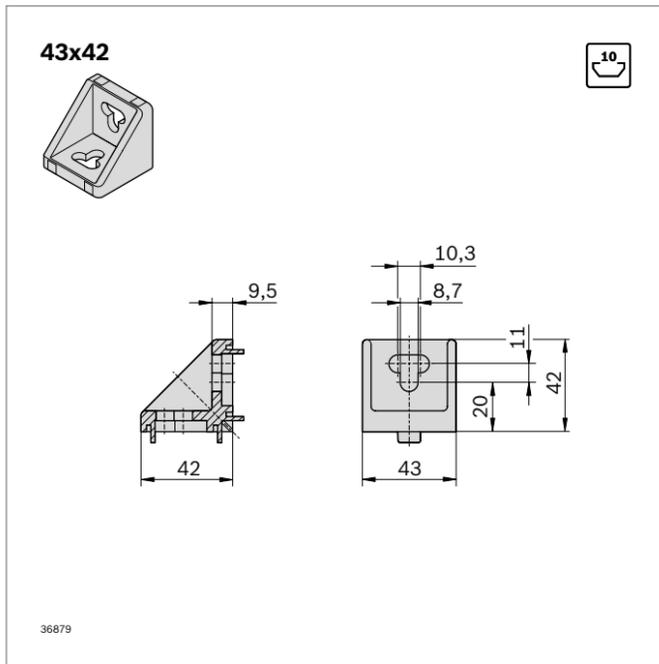
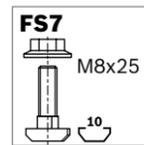




90x90	Slot	ESD	No.	FS
Set (standard)	10 / 10	⚡	1 3 842 523 578	8xFS7
<i>designLINE</i> set	10 / 10	⚡	1 3 842 551 613	8xFS7
Bracket (standard)	10	⚡	20 3 842 523 575	
Cover cap, signal gray			20 3 842 548 868	
Cover cap, black		⚡	20 3 842 548 869	

Material: Bracket: Diecast aluminum, vibratory ground
designLINE bracket: painted (RAL 9006)
 Cover cap: PP
 Fastening material: Steel; galvanized
 Scope of delivery: Set incl. fastening material (FS)

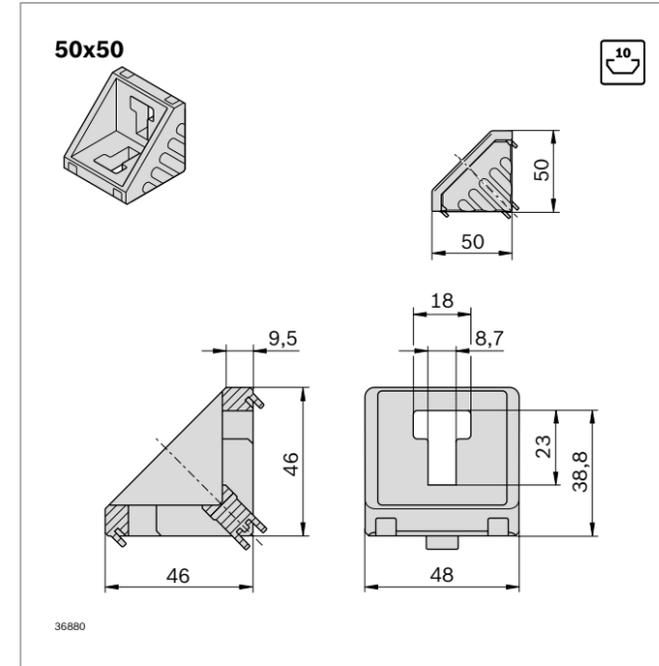
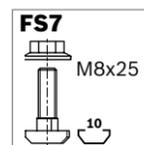
Type	F_{max}	M_{max}	M_{max}	M_{max}
90x90	12000 N	370 Nm	800 Nm	200 Nm



43x42	Slot	ESD	No.	FS
Set (standard)	10 / 10	⚡	1 3 842 352 009	2xFS7
Bracket (standard)	10	⚡	100 3 842 348 526	

Material: Bracket: Diecast aluminum
 Fastening material: Steel; galvanized
 Scope of delivery: Set incl. fastening material (FS)

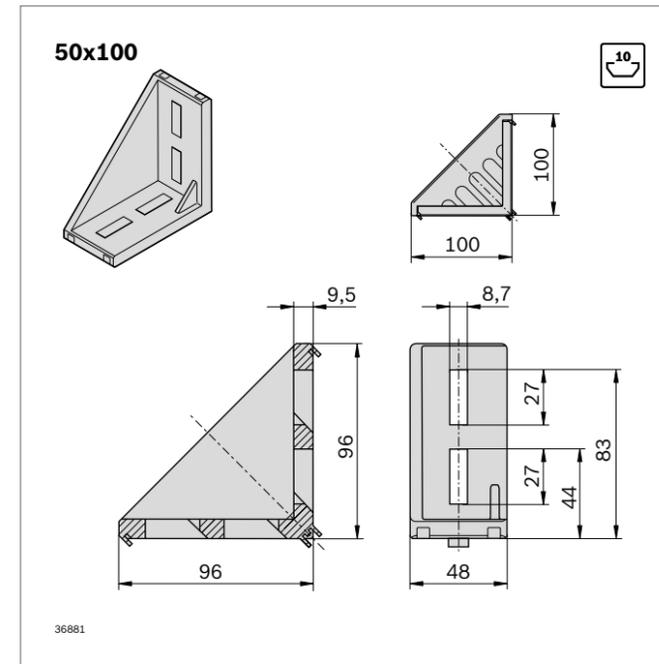
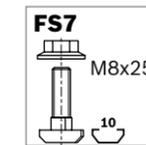
Type	F_{max}	M_{max}	M_{max}	M_{max}
43x42	2000 N	-	160 Nm	-



50x50	Slot	ESD	No.	FS
Set (standard)	10 / 10	⚡	1 3 842 530 259	2xFS7
Bracket (standard)	10	⚡	20 3 842 530 381	
Cover cap, signal gray			20 3 842 548 870	
Cover 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)

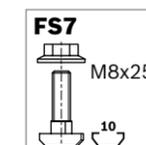
Type	F_{max}	M_{max}	M_{max}	M_{max}
50x50	4000 N	125 Nm	250 Nm	38 Nm

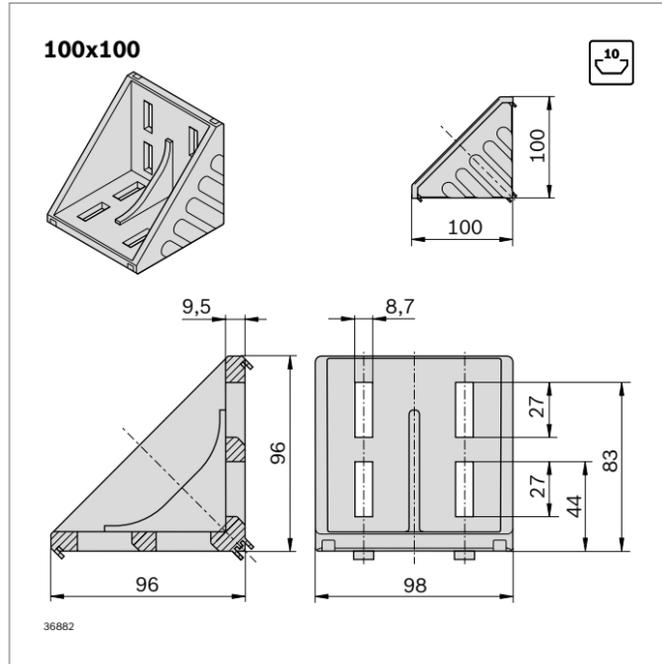


50x100	Slot	ESD	No.	FS
Set (standard)	10 / 10	⚡	1 3 842 530 260	4xFS7
Bracket (standard)	10	⚡	20 3 842 530 382	
Cover cap, signal gray			20 3 842 548 872	
Cover cap, black		⚡	20 3 842 548 873	

Material: Bracket: Diecast aluminum, vibratory ground
 Cover cap: PP
 Fastening material: Steel; galvanized
 Scope of delivery: Set incl. fastening material (FS)

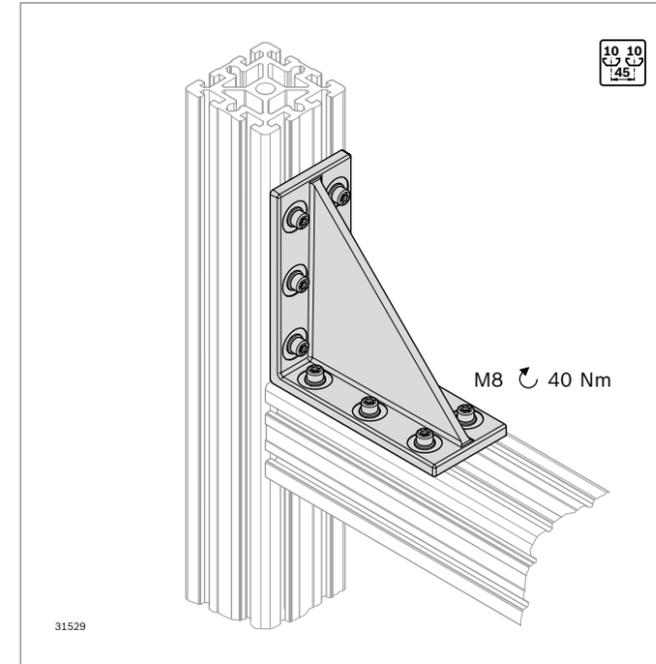
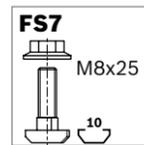
Type	F_{max}	M_{max}	M_{max}	M_{max}
50x100	7500 N	300 Nm	600 Nm	73 Nm





100x100	Slot	ESD	No.	FS
Set (standard)	10 / 10		1 3 842 530 361	8xFS7
Bracket (standard)	10		20 3 842 530 460	
Cover cap, signal gray			20 3 842 548 874	
Cover cap, black			20 3 842 548 875	
Material:	Bracket: Diecast aluminum, vibratory ground Cover cap: PP			
	Fastening material: Steel; galvanized			
Scope of delivery:	Set incl. fastening material (FS)			

Type				
100x100	15000 N	550 Nm	1100 Nm	480 Nm

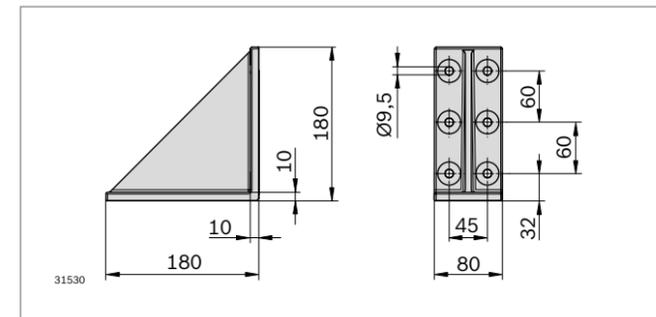


Heavy-duty connector 180x180 dynamic load



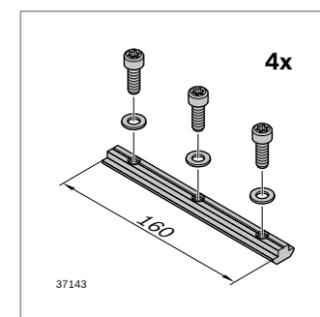
- ▶ Heavy-duty connector for reliable absorption of high forces
- ▶ Can be used for both static and dynamic forces
- ▶ Connection possible in any position
- ▶ Profile finishing: Not required
- ▶ Calculation program for static and dynamic forces included in MTpro planning software
- ▶ Focus profile: 90x90, 90x180, 90x360

Required accessories:
Mounting kit



180x180	Slot	ESD	No.
	10		3 842 555 616
Material:	Cast iron; galvanized		
Scope of delivery:	Bracket		

Type				
180x180	30000 N	5600 Nm	5600 Nm	1400 Nm

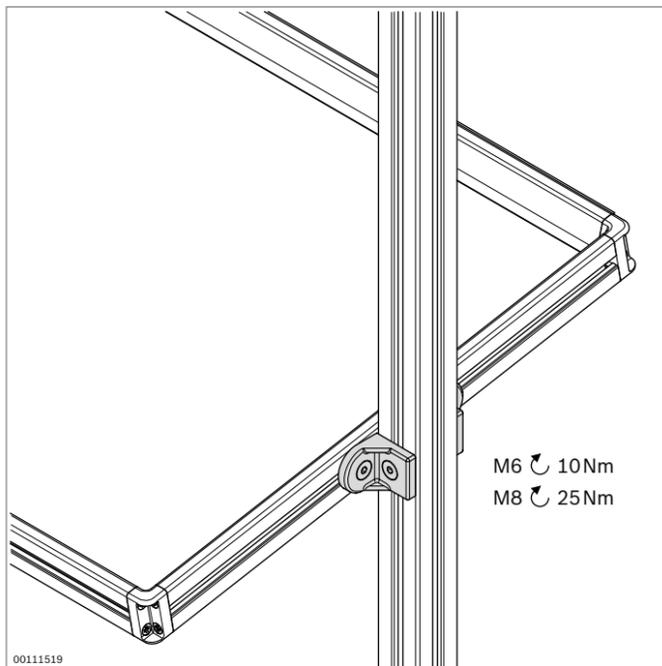


Slot	
10 (M8)	6000 ... 18000 N

Mounting kit

- ▶ For connecting a heavy-duty angle to a profile
- ▶ Set consists of 4 sliding blocks and 12 screws with washers

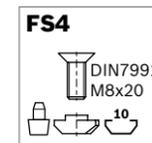
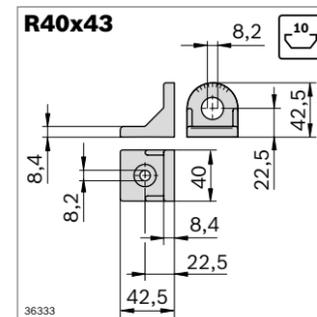
Mounting kit	Slot	M	ESD	No.
	10	8		Set 3 842 548 955
Material:	Screws: Steel; galvanized Sliding block: Steel; galvanized			
Scope of delivery:	4 x sliding blocks, 12 x washers, 12 x screws M8 10.9 microencapsulated			



Bracket R

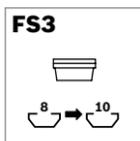
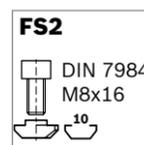
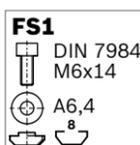
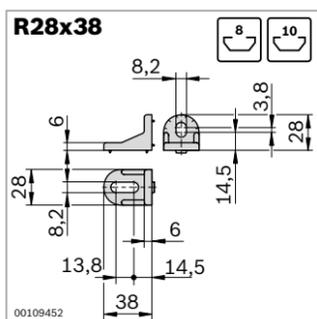


- ▶ For connecting profiles at any angle
- ▶ No interfering edges thanks to rounded bracket
- ▶ Brackets with centering lugs for rapid, precise assembly with protection against turning
- ▶ Centering lugs can be easily broken off for assembly on plates or at right angles to the slot
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- ▶ Profile finishing: Not required



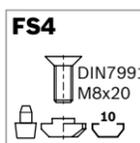
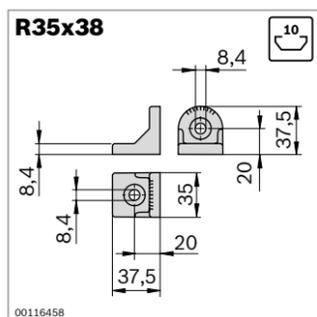
R40x43	Slot	ESD	No.	FS
Set (standard)	10 / 10	⚡	1	3 842 518 424 2xFS4
<i>designLINE</i> set	10 / 10	⚡	1	3 842 538 706 2xFS4
Bracket (standard)	10	⚡	100	3 842 504 760

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)



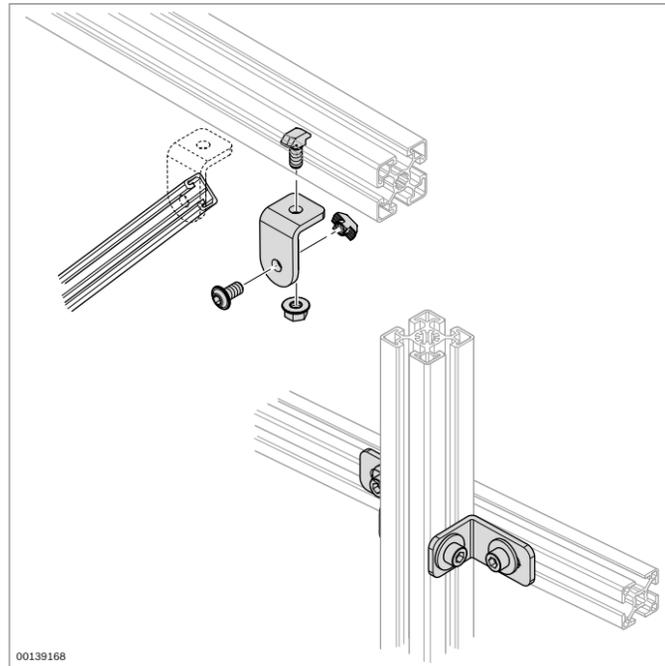
R28x38	Slot	ESD	No.	FS
Set (standard)	8 / 10	⚡	1	3 842 515 547 FS1, FS2, 2xFS3
	10 / 10	⚡	1	3 842 521 580 2xFS2, 4xFS3
<i>designLINE</i> set	8 / 10	⚡	1	3 842 538 703 FS1, FS2, 2xFS3
	10 / 10	⚡	1	3 842 538 704 2xFS2, 4xFS3
Bracket (standard)	8 / 10	⚡	100	3 842 515 473

Material: Bracket: Diecast zinc
designLINE bracket: painted (RAL 9006)
 Intermediate element: PA; black
 Fastening material: Steel; galvanized
 Scope of delivery: Set incl. fastening material (FS)

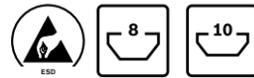


R35x38	Slot	ESD	No.	FS
Set (standard)	10 / 10	⚡	1	3 842 532 274 2xFS4
<i>designLINE</i> set	10 / 10	⚡	1	3 842 538 705 2xFS4
Bracket (standard)	10	⚡	100	3 842 529 020

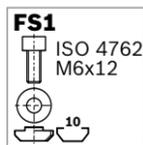
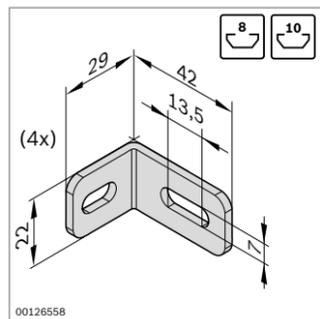
Material: Bracket: Diecast aluminum
designLINE bracket: painted (RAL 9006)
 Centering bolts: PA6, black
 Fastening material: Steel; galvanized
 Scope of delivery: Set incl. fastening material (FS)



Steel bracket

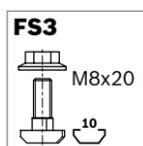
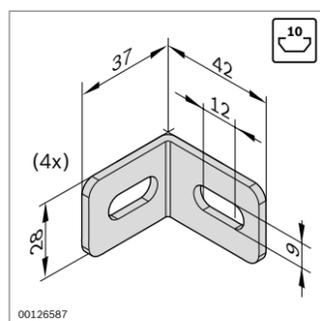


- ▶ Steel bracket without centering lugs for fastening at any angle
- ▶ Profile finishing: Not required



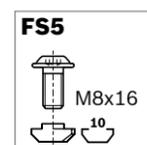
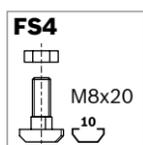
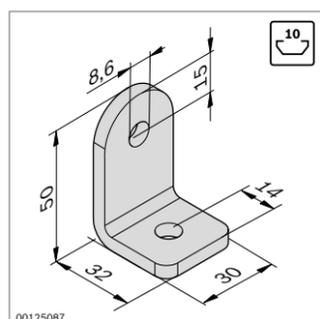
Bracket set	Slot	ESD	No.	FS
	8 / 10	4	3 842 537 862	4xFS1, 4xFS2

Material: Steel; galvanized
Fastening material: Steel; galvanized
Scope of delivery: Set incl. fastening material (FS)



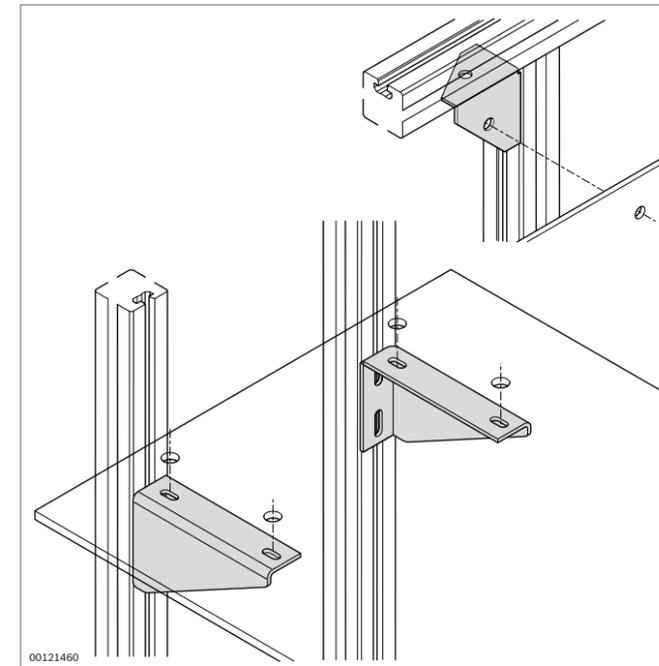
Bracket set	Slot	ESD	No.	FS
	10 / 10	4	3 842 537 861	8xFS3

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	FS4, FS5

Material: Steel; galvanized
Fastening material: Steel; galvanized
Scope of delivery: Set incl. fastening material (FS)



Metal bracket Supporting bracket

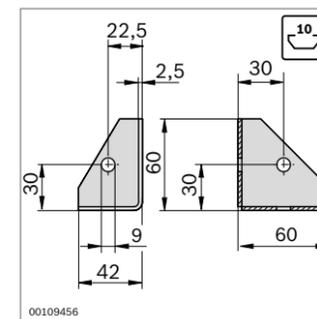


Metal bracket

- ▶ Metal bracket for right-angled profile connections
- ▶ Screw fitting of panel elements in the stiffening fin bore
- ▶ Profile finishing: Not required

Supporting bracket

- ▶ Supporting bracket for fastening panel elements to profiles, e.g. for shelves
- ▶ Profile finishing: Not required

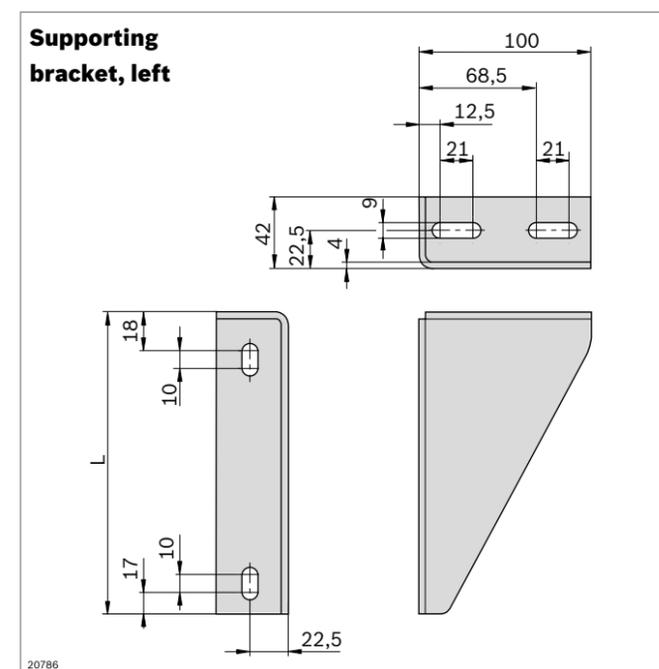


Metal bracket	ESD	No.
	20	3 842 146 813

Material: Sheet steel; galvanized

Required accessories:

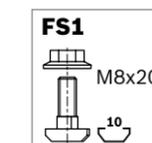
- ▶ T-bolt M8x20, 10 mm slot, 3 842 528 715 (p. 3-6)
- ▶ Flange nut M8, 3 842 345 081 (p. 3-6)

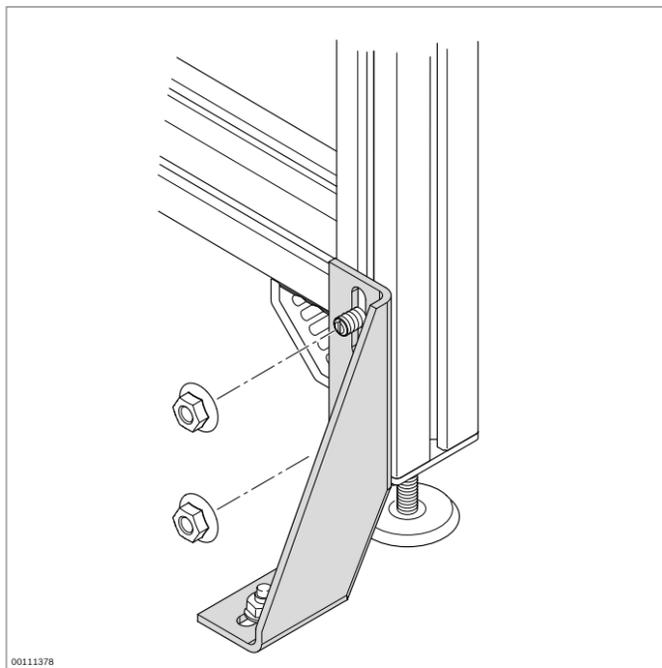


Supporting bracket	L (mm)	ESD	No.	FS
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left	255	4	3 842 536 119	2xFS1
	335	4	3 842 536 121	2xFS1
	415	4	3 842 536 123	2xFS1
	495	4	3 842 536 125	2xFS1
right	255	4	3 842 536 120	2xFS1
	335	4	3 842 536 122	2xFS1
	415	4	3 842 536 124	2xFS1
	495	4	3 842 536 126	2xFS1

Material: Sheet steel; powder-coated, RAL 7037
Fastening material: Steel; galvanized
Scope of delivery: Incl. fastening material (FS)





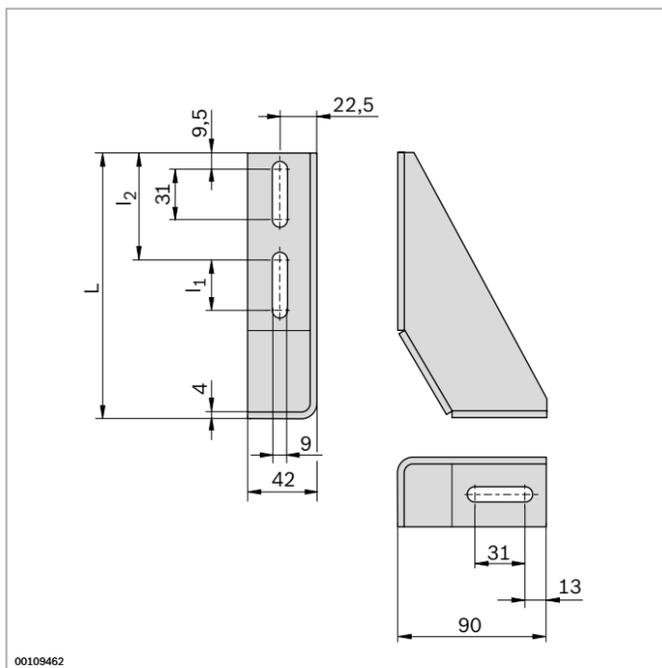
Foundation bracket



- ▶ Foundation bracket for securing frames to the floor
- ▶ The drilled hole for the floor dowel can be created without removing the foundation bracket
- ▶ Profile finishing: Not required

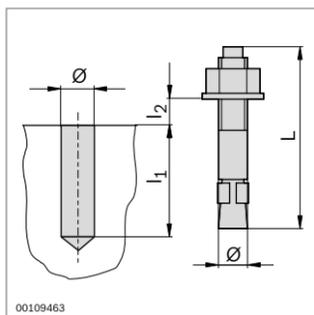
Required accessories:

- ▶ 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



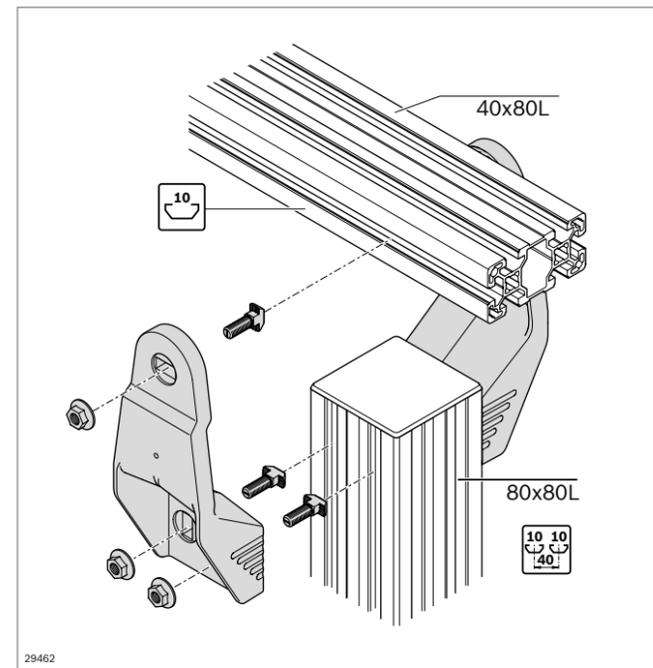
Foundation bracket	L (mm)	l ₁ (mm)	l ₂ (mm)	No.
	160	31	64.5	20 3 842 146 815
	210	91	54.5	20 3 842 146 848

Material: Sheet steel; galvanized



Floor dowel	ø	L (mm)	l ₁ (mm)	l _{2 max} (mm)	No.
	8	80	65	15	100 3 842 526 560

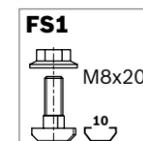
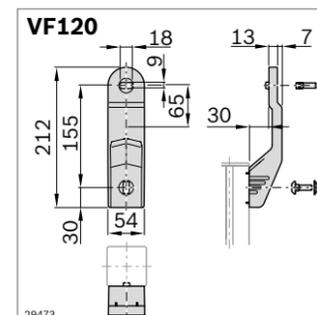
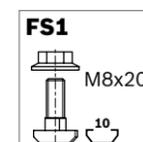
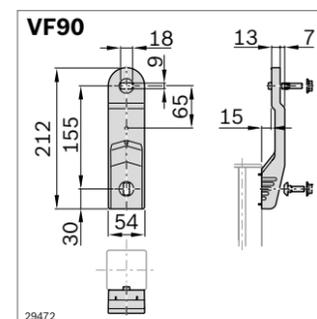
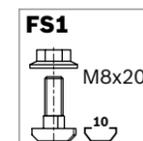
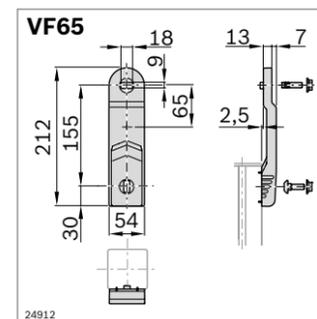
Material: Steel; galvanized



Holder AL



- ▶ 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 finishing: Not required



Holder	No.	FS
VFplus 65	Set 3 842 546 625	8xFS1

Material: Holder: Diecast aluminum; powder-coated (RAL 9006)
Fastening material: Steel; galvanized

Scope of delivery: 2 x holder, fastening material (FS)

Holder	No.	FS
VFplus 90	Set 3 842 546 626	8xFS1

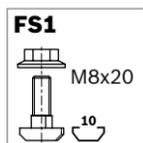
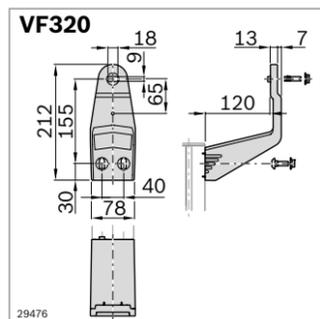
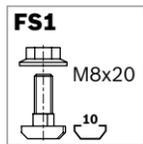
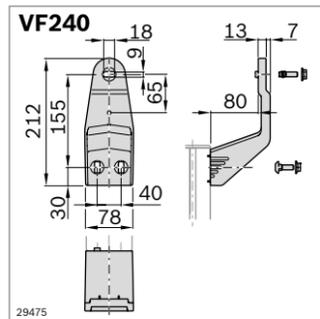
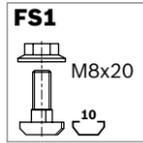
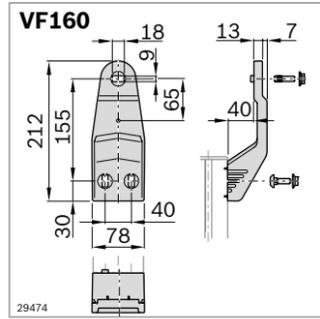
Material: Holder: Diecast aluminum; powder-coated (RAL 9006)
Fastening material: Steel; galvanized

Scope of delivery: 2 x holder, fastening material (FS)

Holder	No.	FS
VFplus 120	Set 3 842 546 627	8xFS1

Material: Holder: Diecast aluminum; powder-coated (RAL 9006)
Fastening material: Steel; galvanized

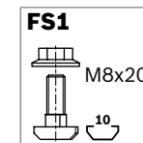
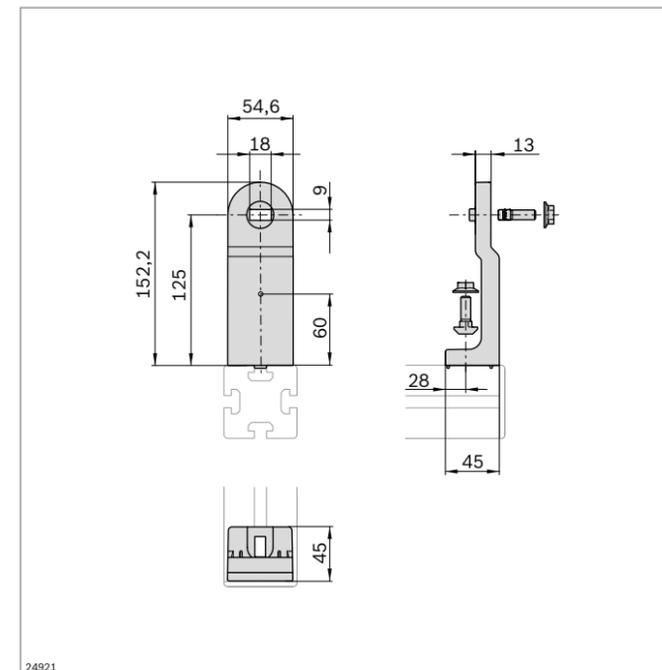
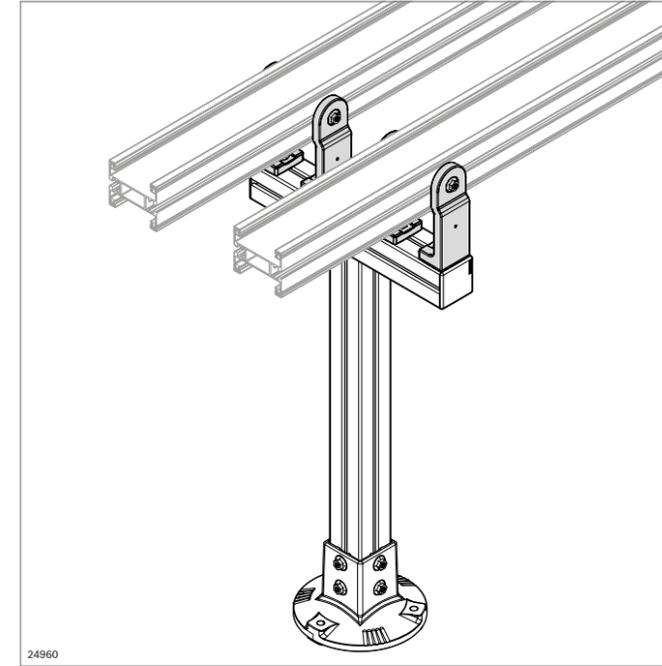
Scope of delivery: 2 x holder, fastening material (FS)



Holder	No.	FS
VFplus 160	Set 3 842 546 628	8xFS1
Material:	Holder: Diecast aluminum; powder-coated (RAL 9006) Fastening material: Steel; galvanized	
Scope of delivery:	2 x holder, fastening material (FS)	

Holder	No.	FS
VFplus 240	Set 3 842 546 629	8xFS1
Material:	Holder: Diecast aluminum; powder-coated (RAL 9006) Fastening material: Steel; galvanized	
Scope of delivery:	2 x holder, fastening material (FS)	

Holder	No.	FS
VFplus 320	Set 3 842 546 630	8xFS1
Material:	Holder: Diecast aluminum; powder-coated (RAL 9006) Fastening material: Steel; galvanized	
Scope of delivery:	2 x holder, fastening material (FS)	

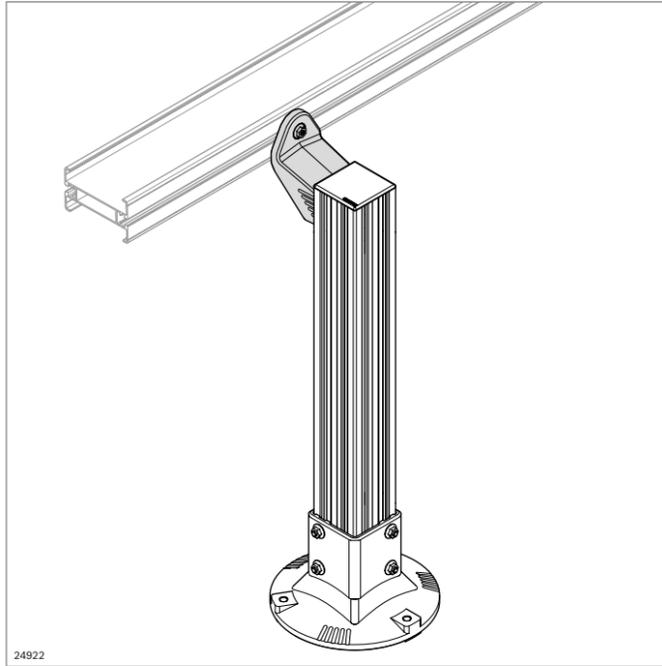


Supporting bracket AL



- ▶ Supporting bracket for connecting two profiles with defined spacing (approx. 2–3 m)
- ▶ Profile finishing: 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 simple assembly thanks to pluggable screwed connection
- ▶ Easy-to-clean design with draining surfaces

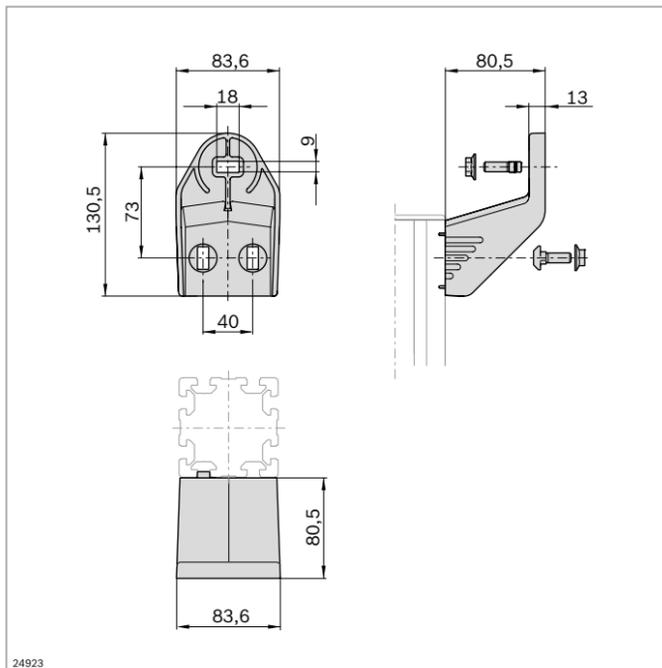
Supporting bracket VFplus AL	No.	FS
	Set 3 842 546 632	6xFS1
Material:	Holder: Diecast aluminum, silver Fastening material: Steel; galvanized	
Scope of delivery:	Incl. fastening material (FS)	



Supporting bracket AL, lateral



- ▶ Supporting bracket for connecting two profiles with defined spacing (approx. 2–3 m)
- ▶ Profile finishing: 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

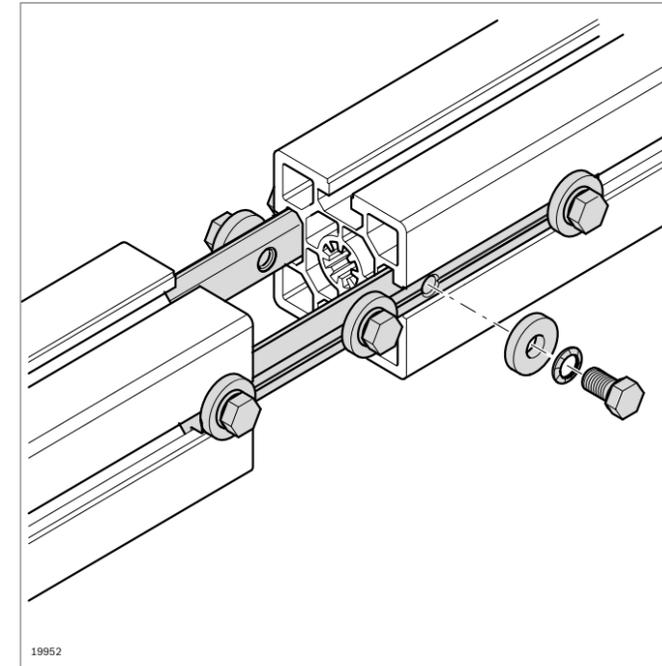
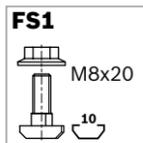


Supporting bracket VFplus lateral AL

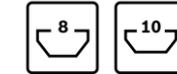
Material: Holder: Diecast aluminum; powder-coated (RAL 9006)
Fastening material: Steel; galvanized

Scope of delivery: Incl. fastening material (FS)

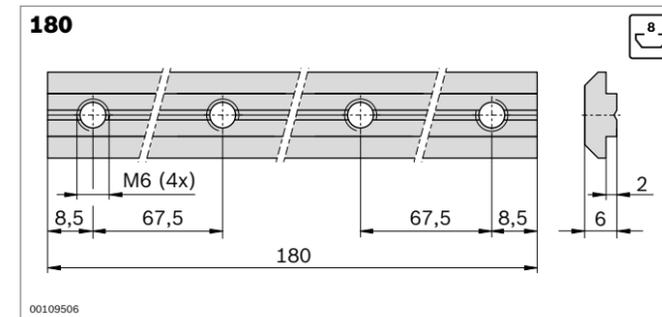
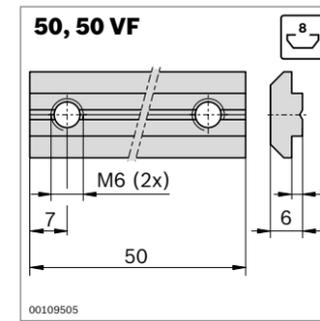
Set **3 842 547 461** 6xFS1



Profile connector



- ▶ Profile connector for the end-face connection of any profiles
- ▶ For an especially strong connection: One profile connector per slot
- ▶ Profile finishing: Not required



Profile connector

Profile connector	(Nm)	Slot	No.	FS
50 VF	10	8	10	3 842 536 787 2xFS2
50	8.5	8	1	3 842 518 427 2xFS1

Material: Steel; galvanized; fastening material: Steel; galvanized

Scope of delivery: Incl. fastening material (FS)



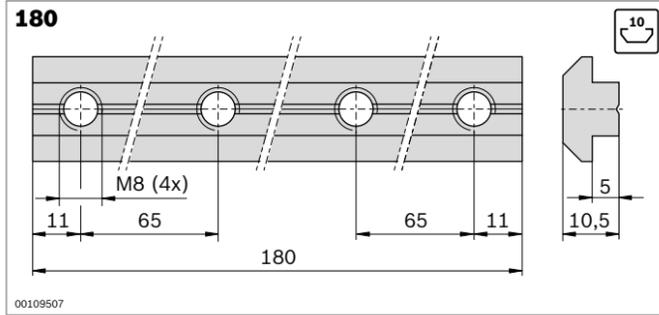
Profile connector

Profile connector	(Nm)	Slot	No.	FS
180	10	8	1	3 842 521 216 4xFS3

Material: Steel; galvanized; fastening material: Steel; galvanized

Scope of delivery: Incl. fastening material (FS)





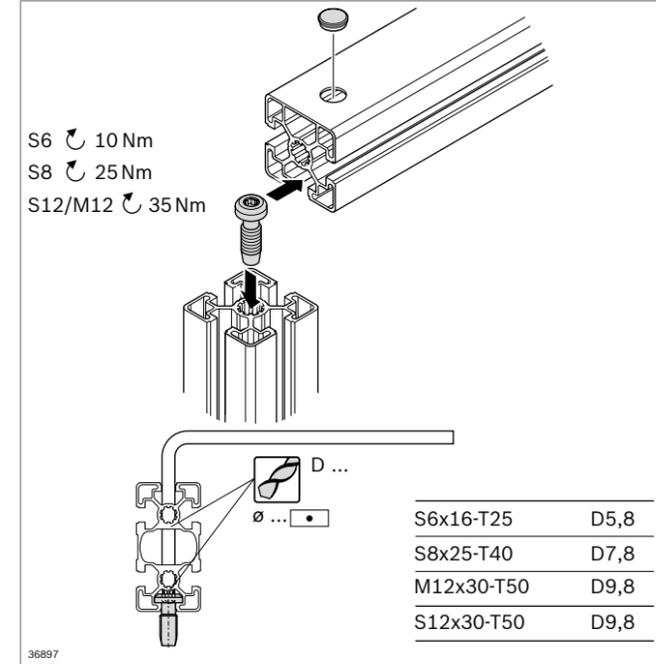
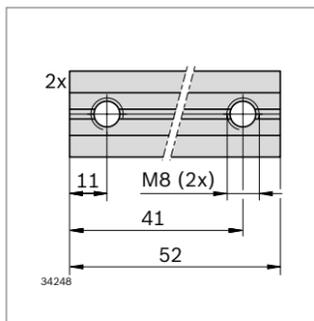
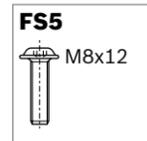
Profile connector	(Nm)	Slot	No.	FS
180	25	10	3 842 528 746	4xFS4

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



Connection kit	(Nm)	Slot	No.	FS
	18	10	Set 3 842 529 881	4xFS5

Material: Steel; galvanized; fastening material: Steel; galvanized
 Scope of delivery: Set (2 pieces); incl. fastening material



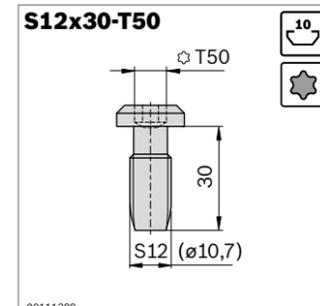
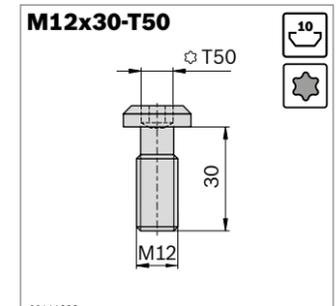
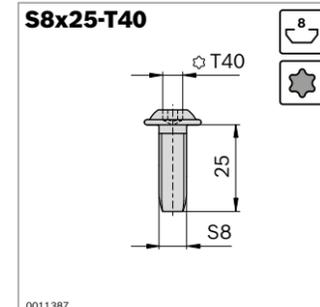
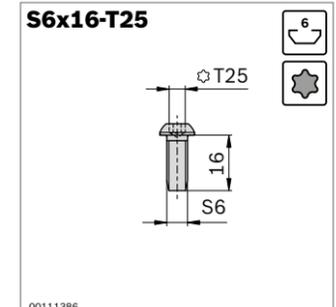
Central bolt, Anti-torsion element, cover cap



Central bolt

- ▶ Best-value connection element
- ▶ Self-tapping screw, can be mounted without profile finishing
- ▶ Profile finishing:
 - Thread cutting for M12x30 screw
 - Through-hole for screwdriver/offset screwdriver

Tools:
 Offset screwdriver (p. 14-5)



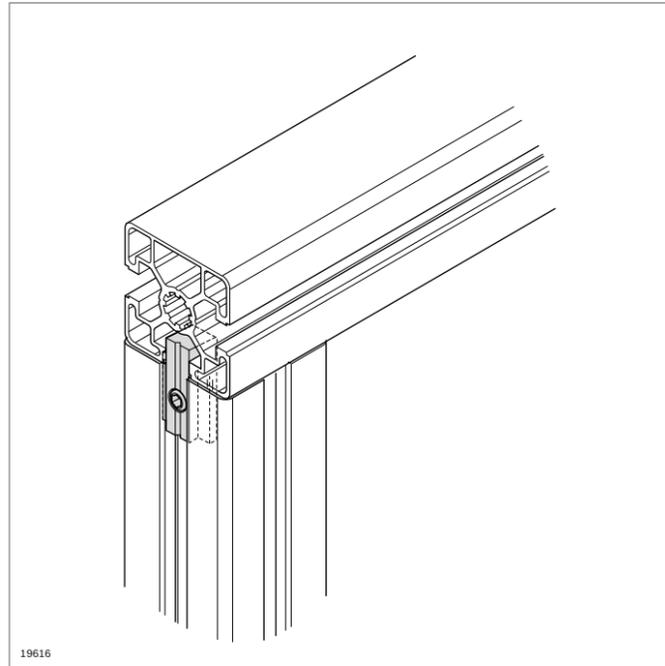
Central bolt	Slot	ESD	No.
S6x16-T25 (self-tapping)	6	ESD	100 3 842 528 593
S8x25-T40 (self-tapping)	8	ESD	100 3 842 527 174

Material: Steel; galvanized

Central bolt	Slot	ESD	No.
M12x30-T50	10	ESD	100 3 842 530 235
S12x30-T50 (self-tapping)	10	ESD	100 3 842 530 236

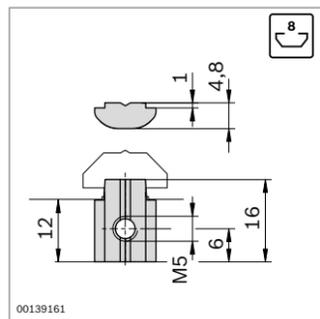
Material: Steel; galvanized

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

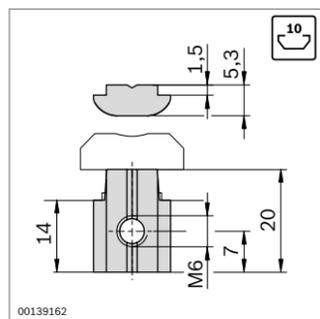


FS1

DIN 916
M5x8

Anti-torsion element	Slot	No.	FS
	8	10	3 842 530 325 FS1

Material: Steel; galvanized
Fastening material: Steel; galvanized

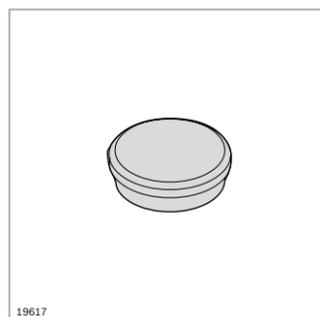


FS2

DIN 916
M6x12

Anti-torsion element	Slot	No.	FS
	10	10	3 842 530 326 FS2

Material: Steel; galvanized
Fastening material: Steel; galvanized

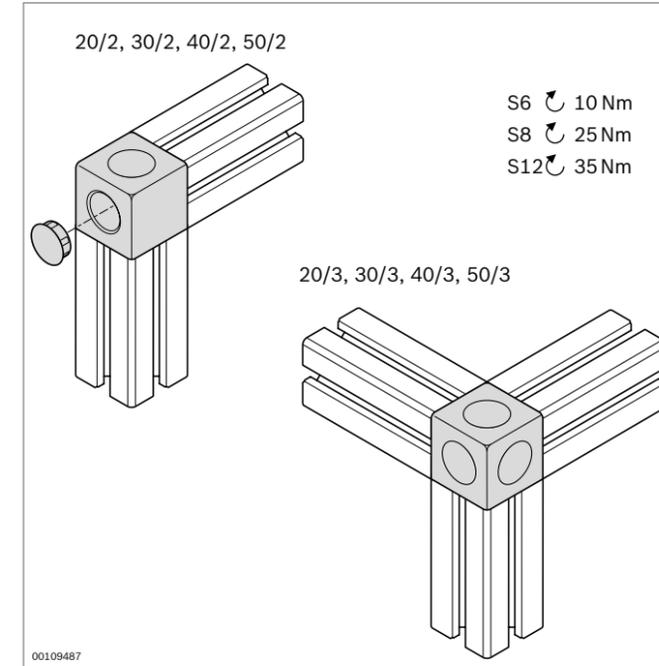


Cover cap

- For sealing through-holes in closed profiles

Cover cap	D (mm)	No.
	5.8	100 3 842 551 032
	7.8	100 3 842 551 034
	9.8	100 3 842 551 036

Material: PA; signal gray RAL 7004

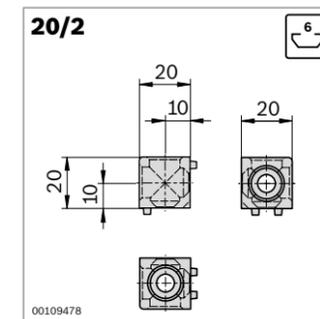


Cubic connector



- 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
- Cover caps to cover the openings
- Screw fitting on profile with self-tapping screws
- Profile finishing: Not required

Technical data (p. 18-18)



Type	M _{max}
20/2	18 Nm

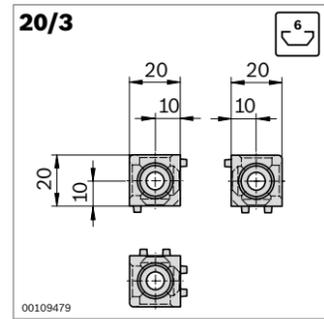
FS1

S6x16

Cubic connector 20/2	Slot	ESD	No.	FS
Set (standard), signal gray	6	⚡*	1	3 842 549 858 2xFS1
<i>designLINE</i> set, signal gray	6	⚡*	1	3 842 549 859 2xFS1
Cubic connector	6	⚡	20	3 842 523 875
Cover cap signal gray (PP)			100	3 842 548 700
D12 black (PP)		⚡	100	3 842 548 704
Countersunk screw S6x16	6	⚡	100	3 842 517 132

Material: Cubic connector: Diecast 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 cover caps included in the set are not ESD-compatible.



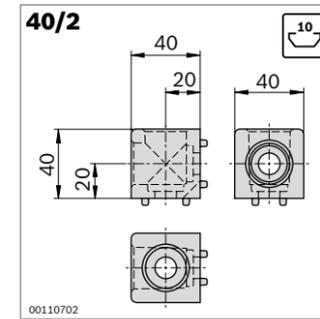
Type

20/3 23 Nm

FS1

S6x16

Cubic connector 20/3	Slot	ESD	No.	FS
Set (standard), signal gray	6	⚡*	1	3 842 549 860 3xFS1
<i>designLINE</i> set, signal gray	6	⚡*	1	3 842 549 861 3xFS1
Cubic connector	6	⚡	20	3 842 523 872
Cover cap	signal gray (PP)		100	3 842 548 700
D12	black (PP)	⚡	100	3 842 548 704
Countersunk screw S6x16	6	⚡	100	3 842 517 132
Material:	Cubic connector: Diecast aluminum <i>designLINE</i> 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 cover caps included in the set are not ESD-compatible.			



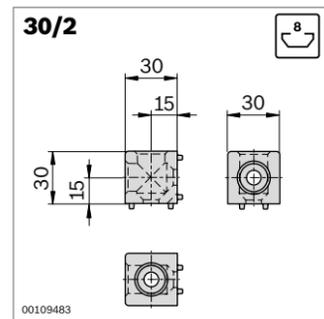
Type

40/2 60 Nm

FS3

S12x30

Cubic connector 40/2	Slot	ESD	No.	FS
Set (standard), signal gray	10	⚡*	1	3 842 549 866 2xFS3
<i>designLINE</i> set, signal gray	10	⚡*	1	3 842 549 867 2xFS3
Cubic connector	10	⚡	20	3 842 529 010
Cover cap	signal gray (PP)		100	3 842 548 702
D24	black (PP)	⚡	100	3 842 548 706
Screw S12x30	10	⚡	100	3 842 530 236
Material:	Cubic connector: Diecast aluminum <i>designLINE</i> 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 cover caps included in the set are not ESD-compatible.			



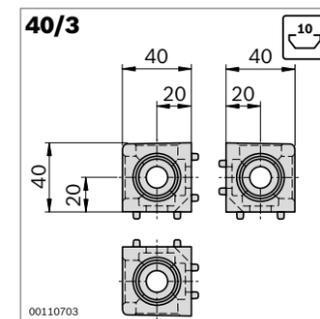
Type

30/2 80 Nm

FS2

S8x25

Cubic connector 30/2	Slot	ESD	No.	FS
Set (standard), signal gray	8	⚡*	1	3 842 549 862 2xFS2
<i>designLINE</i> set, signal gray	8	⚡*	1	3 842 549 863 2xFS2
Cubic connector	8	⚡	20	3 842 523 876
Cover cap	signal gray (PP)		100	3 842 548 701
D18	black (PP)	⚡	100	3 842 548 705
Countersunk screw S8x25	8	⚡	100	3 842 517 543
Material:	Cubic connector: Diecast aluminum <i>designLINE</i> 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 cover caps included in the set are not ESD-compatible.			



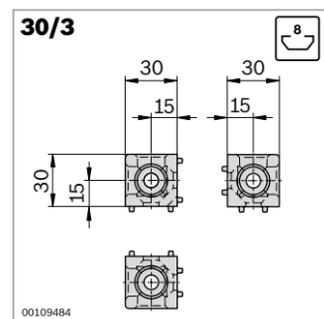
Type

40/3 70 Nm

FS3

S12x30

Cubic connector 40/3	Slot	ESD	No.	FS
Set (standard), signal gray	10	⚡*	1	3 842 549 868 3xFS3
<i>designLINE</i> set, signal gray	10	⚡*	1	3 842 549 869 3xFS3
Cubic connector	10	⚡	20	3 842 529 011
Cover cap	signal gray (PP)		100	3 842 548 702
D24	black (PP)	⚡	100	3 842 548 706
Screw S12x30	10	⚡	100	3 842 530 236
Material:	Cubic connector: Diecast aluminum <i>designLINE</i> 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 cover caps included in the set are not ESD-compatible.			



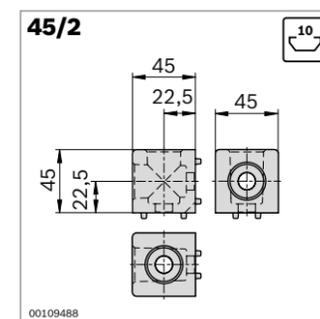
Type

30/3 85 Nm

FS2

S8x25

Cubic connector 30/3	Slot	ESD	No.	FS
Set (standard), signal gray	8	⚡*	1	3 842 549 864 3xFS2
<i>designLINE</i> set, signal gray	8	⚡*	1	3 842 549 865 3xFS2
Cubic connector	8	⚡	20	3 842 523 873
Cover cap	signal gray (PP)		100	3 842 548 701
D18	black (PP)	⚡	100	3 842 548 705
Countersunk screw S8x25	8	⚡	100	3 842 517 543
Material:	Cubic connector: Diecast aluminum <i>designLINE</i> 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 cover caps included in the set are not ESD-compatible.			



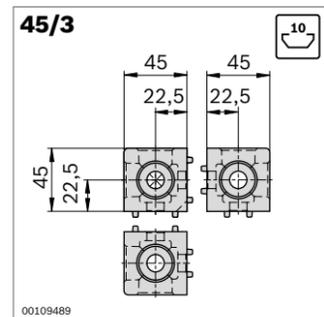
Type

45/2 45x45L 150 Nm
45x45 200 Nm

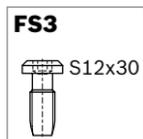
FS3

S12x30

Cubic connector 45/2	Slot	ESD	No.	FS
Set (standard), signal gray	10	⚡*	1	3 842 549 870 2xFS3
<i>designLINE</i> set, signal gray	10	⚡*	1	3 842 549 871 2xFS3
Cubic connector	10	⚡	20	3 842 523 877
Cover cap	signal gray (PP)		100	3 842 548 702
D24	black (PP)	⚡	100	3 842 548 706
Screw S12x30	10	⚡	100	3 842 530 236
Material:	Cubic connector: Diecast aluminum <i>designLINE</i> 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 cover caps included in the set are not ESD-compatible.			



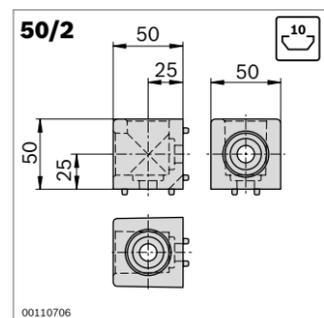
Type	M _{max}
45/3 45x45L	170 Nm
45x45	240 Nm



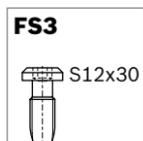
Cubic connector 45/3	Slot	ESD	No.	FS
Set (standard), signal gray	10	⚡*	1	3 842 549 872 3xFS3
designLINE set, signal gray	10	⚡*	1	3 842 549 873 3xFS3
Cubic connector	10	⚡	20	3 842 523 874
Cover cap signal gray (PP)			100	3 842 548 702
D24 black (PP)		⚡	100	3 842 548 706
Screw S12x30	10	⚡	100	3 842 530 236

Material: Cubic connector: Diecast aluminum
 designLINE cubic connector: painted (RAL 9006)
 Fastening material: Steel; galvanized

Scope of delivery: Set incl. fastening material (FS), cover caps
 * Cubic connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.



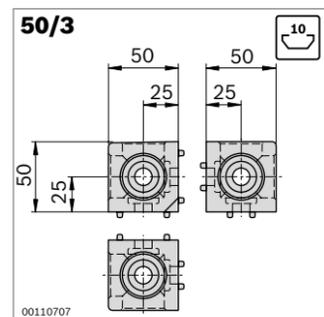
Type	M _{max}
50/2	120 Nm



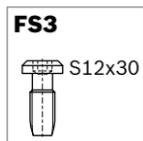
Cubic connector 50/2	Slot	ESD	No.	FS
Set (standard), signal gray	10	⚡*	1	3 842 549 874 2xFS3
Cubic connector	10	⚡	20	3 842 529 012
Cover cap signal gray (PP)			100	3 842 548 703
D30 black (PP)		⚡	100	3 842 548 707
Screw S12x30	10	⚡	100	3 842 530 236

Material: Cubic connector: Diecast aluminum
 Fastening material: Steel; galvanized

Scope of delivery: Set incl. fastening material (FS), cover caps
 * Cubic connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.



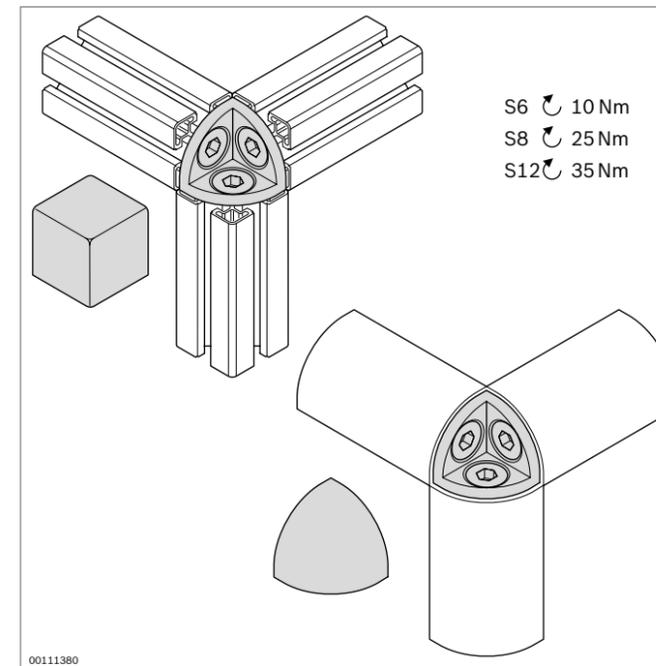
Type	M _{max}
50/3	140 Nm



Cubic connector 50/3	Slot	ESD	No.	FS
Set (standard), signal gray	10	⚡*	1	3 842 549 876 3xFS3
Cubic connector	10	⚡	20	3 842 529 013
Cover cap signal gray (PP)			100	3 842 548 703
D30 black (PP)		⚡	100	3 842 548 707
Screw S12x30	10	⚡	100	3 842 530 236

Material: Cubic connector: Diecast aluminum
 Fastening material: Steel; galvanized

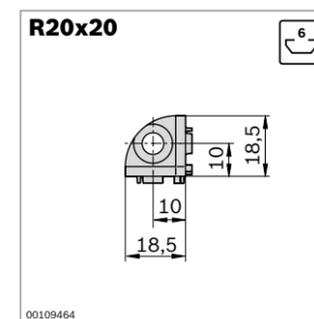
Scope of delivery: Set incl. fastening material (FS), cover caps
 * Cubic connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.



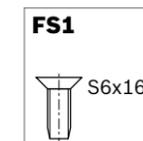
Corner bracket



- ▶ 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-shaped cover caps to prevent injuries and avoid dirt
- ▶ Profile finishing: Not required



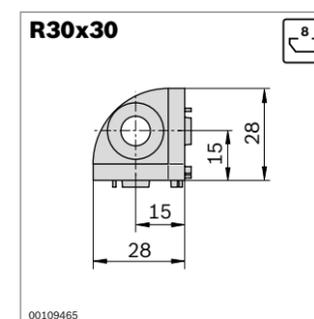
Type	M _{max}
20/3	23 Nm



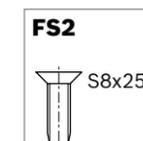
R20x20	Slot	ESD	No.	FS
Corner bracket	6	⚡	1	3 842 519 318 3xFS1
Cover cap K (ball)			10	3 842 548 708
W (cube)		⚡	10	3 842 548 712
Cover cap signal gray (PP)			100	3 842 548 716
W (cube) black (PP)		⚡	10	3 842 548 720

Material: Corner bracket: Diecast zinc
 Fastening material: Steel; galvanized

Scope of delivery: Incl. fastening material (FS)



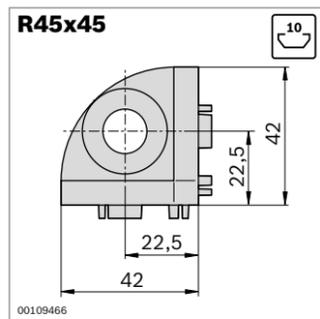
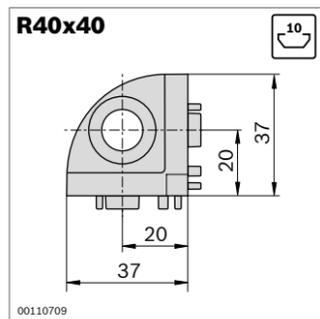
Type	M _{max}
30/3	85 Nm



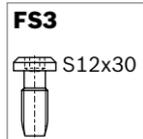
R30x30	Slot	ESD	No.	FS
Corner bracket	8	⚡	1	3 842 519 319 3xFS2
Cover cap K (ball)			10	3 842 548 709
W (cube)		⚡	10	3 842 548 713
Cover cap signal gray (PP)			100	3 842 548 717
W (cube) black (PP)		⚡	10	3 842 548 721

Material: Corner bracket: Diecast zinc
 Fastening material: Steel; galvanized

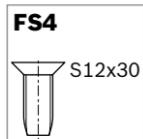
Scope of delivery: Incl. fastening material (FS)



Type	M_{max}
40/3	70 Nm



Type	M_{max}
45/3 45x45L	170 Nm
45x45	240 Nm

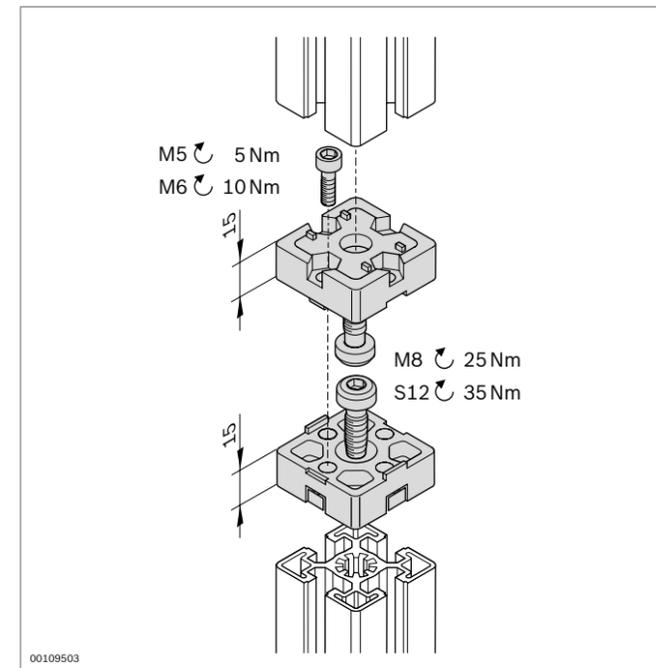


R40x40	Slot	ESD	No.	FS
Corner bracket	10	1	3 842 529 404	3xFS3
Cover cap K (ball)	signal gray (PP)	10	3 842 548 710	
	black (PP)	10	3 842 548 714	
Cover cap W (cube)	signal gray (PP)	10	3 842 548 718	
	black (PP)	10	3 842 548 722	

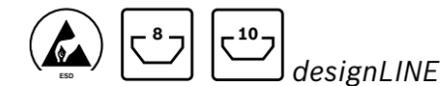
Material: Corner bracket: Diecast zinc
Fastening material: Steel; galvanized
Scope of delivery: Incl. fastening material (FS)

R45x45	Slot	ESD	No.	FS
Corner bracket	10	1	3 842 519 321	3xFS4
Cover cap K (ball)	signal gray (PP)	10	3 842 548 711	
	black (PP)	10	3 842 548 715	
Cover cap W (cube)	signal gray (PP)	10	3 842 548 719	
	black (PP)	10	3 842 548 723	

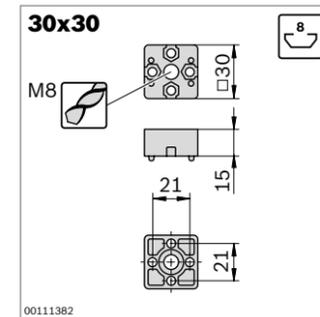
Material: Corner bracket: Diecast zinc
Fastening material: Steel; galvanized
Scope of delivery: Incl. fastening material (FS)



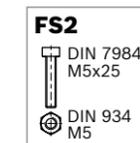
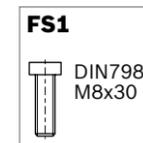
End connector



- For end-to-end profile connections
- *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- Profile finishing:
 - 30x30: M8 thread cutting in central bores
 - 40x40, 45x45, 50x50: Not required

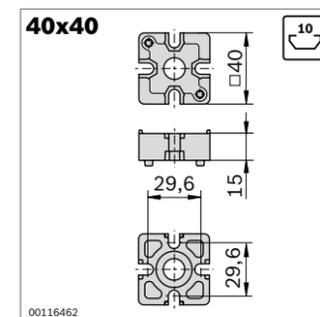


Type	M_{max}
30x30	81 Nm

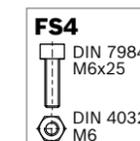
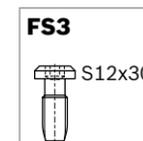


End connector	Slot	ESD	No.	FS
30x30 Set (standard)	8	1	3 842 526 003	2xFS1, 4xFS2
<i>designLINE</i> set	8	1	3 842 538 656	2xFS1, 4xFS2

Material: End connector: Diecast aluminum
designLINE end connector: painted (RAL 9006)
Fastening material: Steel; galvanized
Scope of delivery: Set incl. fastening material (FS)

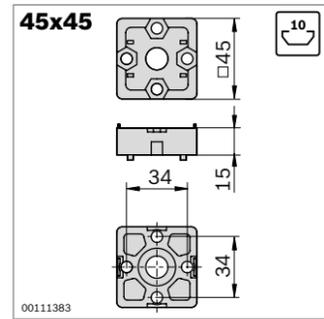


Type	M_{max}
40x40	170 Nm

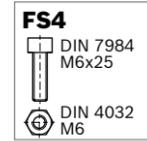
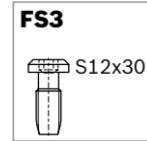


End connector	Slot	ESD	No.	FS
40x40 Set (standard)	10	1	3 842 532 196	2xFS3, 4xFS4
<i>designLINE</i> set	10	1	3 842 538 657	2xFS3, 4xFS4

Material: End connector: Diecast aluminum
designLINE end connector: painted (RAL 9006)
Fastening material: Steel; galvanized
Scope of delivery: Set incl. fastening material (FS)

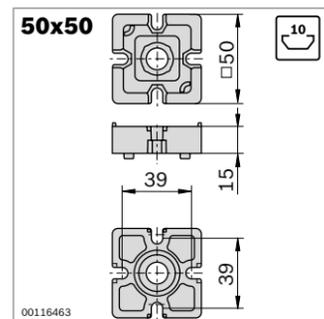


Type	
45x45	200 Nm

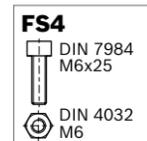
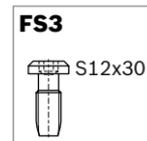


End connector	Slot	ESD No.	FS
45x45 Set (standard)	10	3 842 191 175	2xFS3, 4xFS4
<i>designLINE</i> set	10	3 842 538 658	2xFS3, 4xFS4

Material: End connector: Diecast zinc
designLINE end connector: painted (RAL 9006)
 Fastening material: Steel; galvanized
 Scope of delivery: Set incl. fastening material (FS)

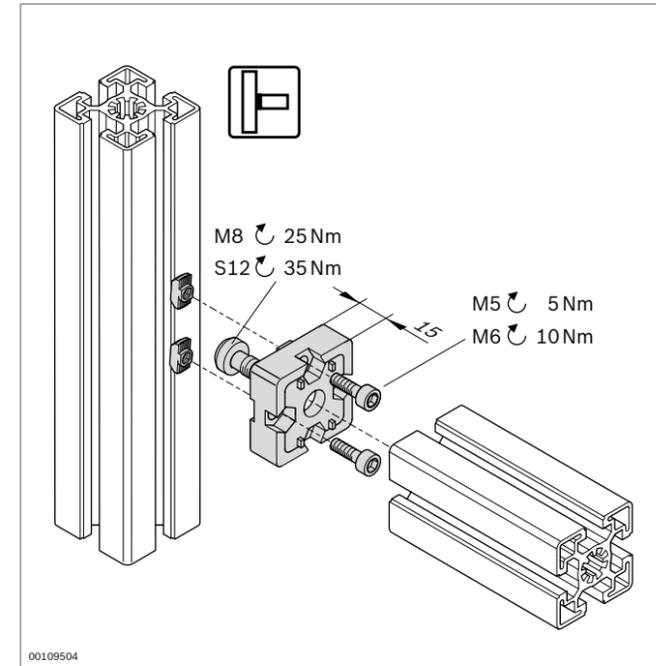


Type	
50x50	180 Nm

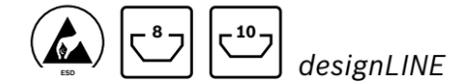


End connector	Slot	ESD No.	FS
50x50 Set (standard)	10	3 842 532 199	2xFS3, 4xFS4

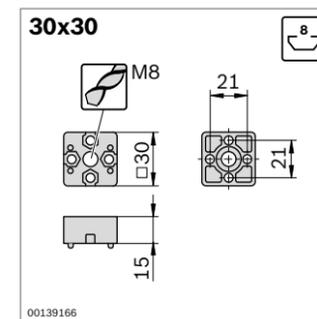
Material: End connector: Diecast zinc
 Fastening material: Steel; galvanized
 Scope of delivery: Set incl. fastening material (FS)



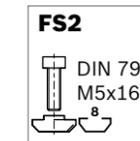
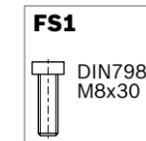
T-connector



- ▶ For right-angled profile connections
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- ▶ Profile finishing:
 - 30x30: M8 thread cutting in central bores
 - 40x40, 45x45, 50x50: Not required

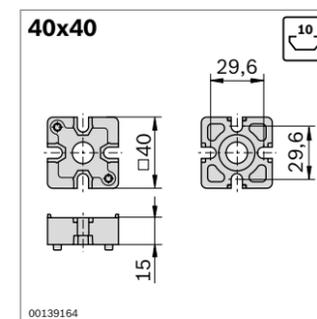


Type		
30x30	4000 N	80 Nm

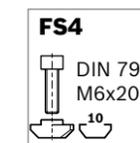
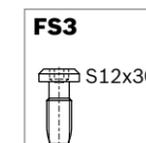


T-connector	Slot	ESD No.	FS
30x30 Set (standard)	8	3 842 524 476	1xFS1, 2xFS2
<i>designLINE</i> set	8	3 842 538 696	1xFS1, 2xFS2

Material: T-connector: Diecast aluminum
designLINE T-connector: painted (RAL 9006)
 Fastening material: Steel; galvanized
 Scope of delivery: Set incl. fastening material (FS)

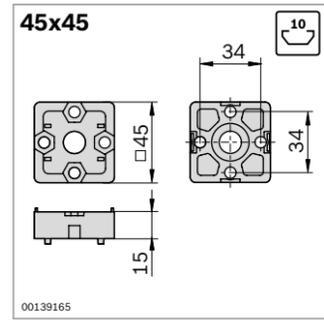


Type		
40x40	9000 N	150 Nm

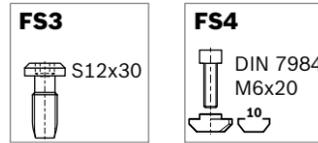


T-connector	Slot	ESD No.	FS
40x40 Set (standard)	10	3 842 532 195	1xFS3, 2xFS4
<i>designLINE</i> set	10	3 842 538 697	1xFS3, 2xFS4

Material: T-connector: Diecast aluminum
designLINE T-connector: painted (RAL 9006)
 Fastening material: Steel; galvanized
 Scope of delivery: Set incl. fastening material (FS)



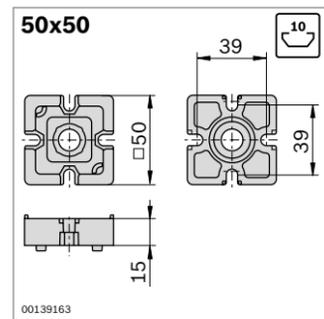
Type	F_{max}	M_{max}
45x45	9000 N	200 Nm



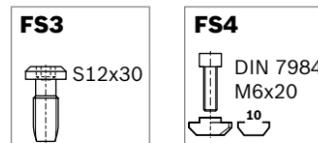
T-connector	Slot	ESD No.	FS
45x45 Set (standard)	10	3 842 520 802	1xFS3, 2xFS4
<i>designLINE</i> set	10	3 842 538 698	1xFS3, 2xFS4

Material: T-connector: Diecast zinc
designLINE T-connector: painted (RAL 9006)
Fastening material: Steel; galvanized

Scope of delivery: Set incl. fastening material (FS)



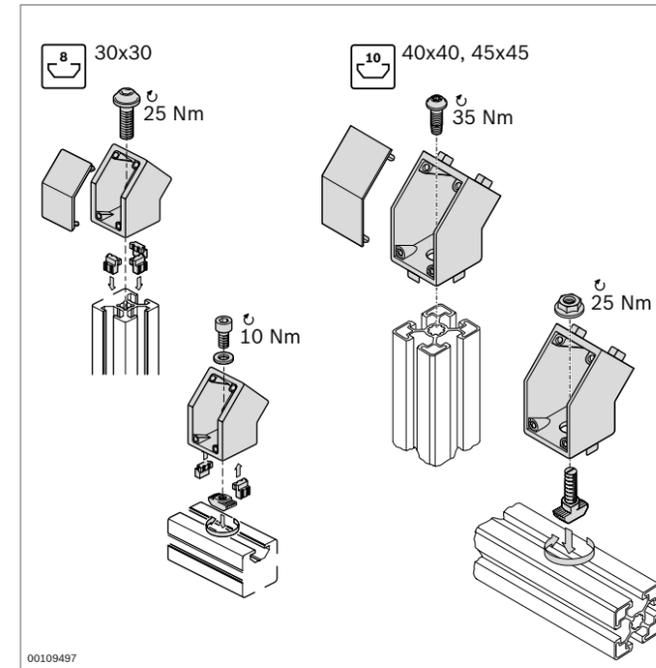
Type	F_{max}	M_{max}
50x50	10000 N	170 Nm



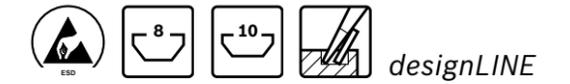
T-connector	Slot	ESD No.	FS
50x50 Set (standard)	10	3 842 532 198	1xFS3, 2xFS4

Material: T-connector: Diecast zinc
Fastening material: Steel; galvanized

Scope of delivery: Set incl. fastening material (FS)

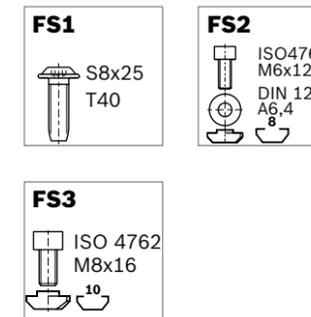
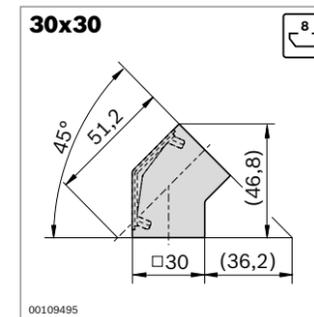


Connector 45°



- ▶ 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 finishing: Not required

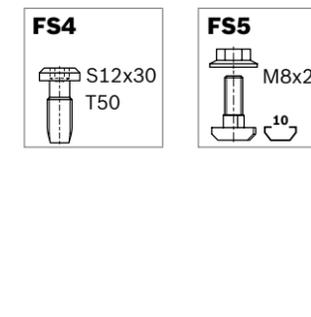
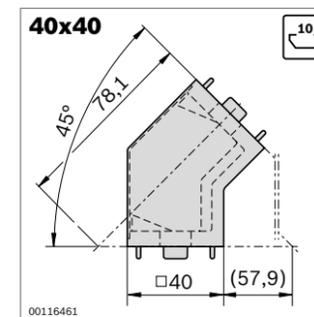
* Connector 45° creates conductive connection, but the cover caps included in the set are not ESD-compatible.



Connector 45°	Color	Slot	ESD No.	FS
30x30 Set (standard)	Signal gray	8	3 842 554 446	2xFS1, FS2, FS3
	Black	8	3 842 554 447	FS2, FS3
Set <i>designLINE</i>	Signal gray	8	3 842 554 452	2xFS1, FS2, FS3
	Black	8	3 842 554 453	FS2, FS3

Material: Connector 45°: Diecast zinc; connector 45° *designLINE*: painted (RAL 9006); centering piece, cover cap: PP; fastening material: Steel; galvanized

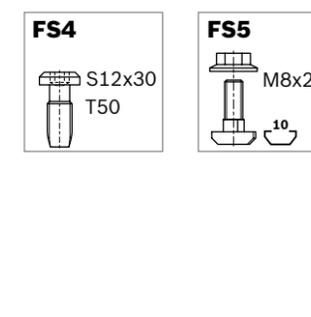
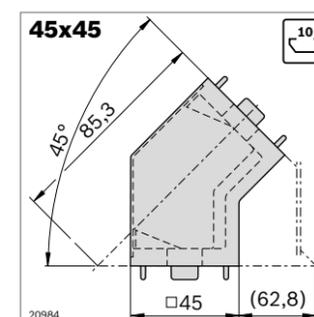
Scope of delivery: Set incl. fastening material (FS), 6 x centering piece, cover cap



Connector 45°	Color	Slot	ESD No.	FS
40x40 Set (standard)	Signal gray	10	3 842 554 448	2xFS4, FS5
	Black	10	3 842 554 449	FS5
Set <i>designLINE</i>	Signal gray	10	3 842 554 454	2xFS4, FS5
	Black	10	3 842 554 455	FS5

Material: Connector 45°: Cast aluminum; connector 45° *designLINE*: painted (RAL 9006); centering piece, cover cap: PP; fastening material: Steel; galvanized

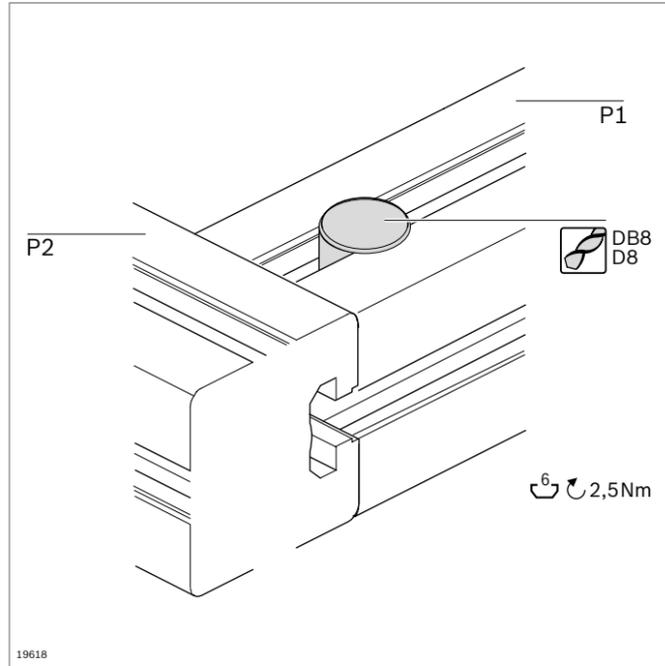
Scope of delivery: Set incl. fastening material (FS), cover cap



Connector 45°	Color	Slot	ESD No.	FS
45x45 Set (standard)	Signal gray	10	3 842 554 450	2xFS4, FS5
	Black	10	3 842 554 451	FS5
Set <i>designLINE</i>	Signal gray	10	3 842 554 456	2xFS4, FS5
	Black	10	3 842 554 457	FS5

Material: Connector 45°: Cast aluminum; connector 45° *designLINE*: painted (RAL 9006); centering piece, cover cap: PP; fastening material: Steel; galvanized

Scope of delivery: Set incl. fastening material (FS), cover cap

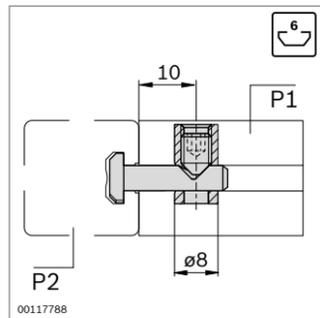
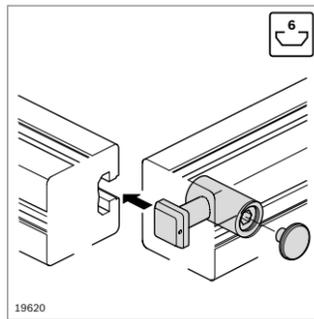
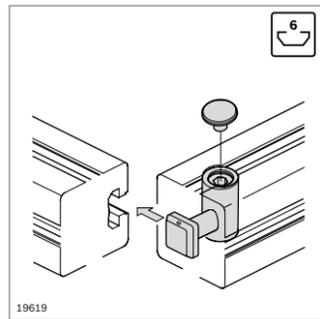


**Quick connector, 6 mm slot, 0°, 90°
Cover cap**



- ▶ For the right-angled connecting of 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 finishing:
Blind hole DB8 or through-hole D8

Optional accessories:
Drilling jig (p. 14-2)



Slot	F_{max}	M_{max}
6 / 6	450 N	18 Nm

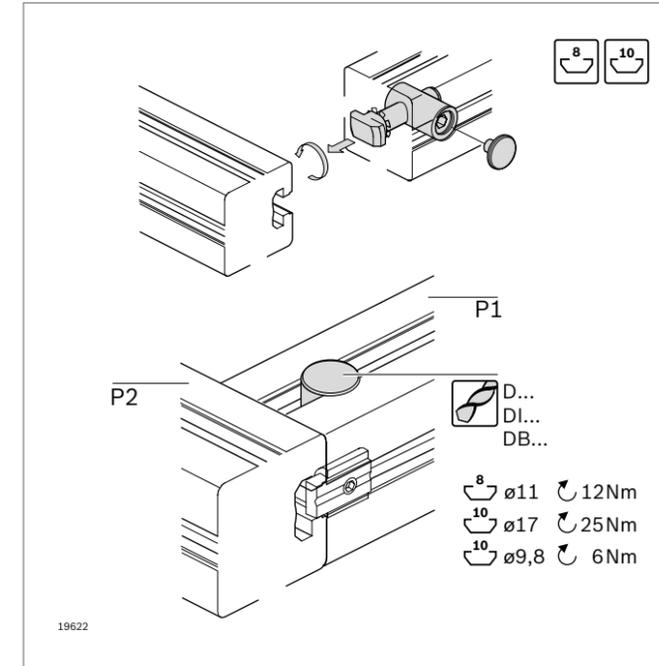
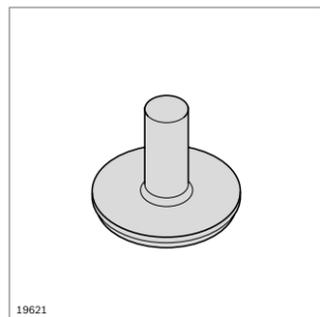
Quick connector 0° / 90°	P1 / P2	D ESD	No.
	6 / 6	8	10 3 842 537 013

Material: Steel; stainless

- ▶ Cover cap for connector sleeves

Cover cap	D (mm)	No.
	8	100 3 842 551 038

Material: PE; signal gray RAL 7004



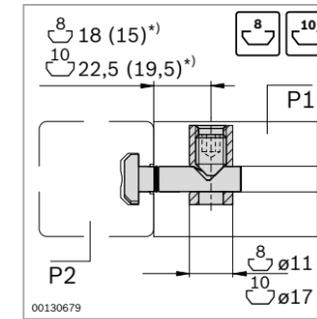
Quick connector, 8/10 mm slot, 0°



- ▶ For the right-angled connecting of two profiles
- ▶ Excellent accessibility for tools during mounting
- ▶ O-ring for fixing allows overhead assembly
- ▶ Quick connectors can be pivoted into the profile slot at the mounting location
- ▶ Profile finishing:
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. 18-16)

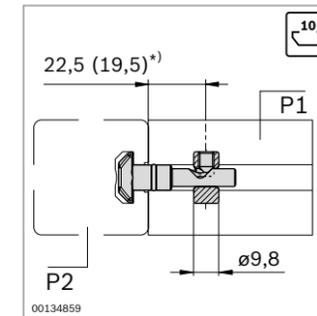
Optional accessories:

- ▶ Anti-torsion element (p. 3-42)
- ▶ Radial compensation (p. 2-85)
- ▶ Drilling jig (p. 14-2)
- ▶ Cover cap (p. 3-54)



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

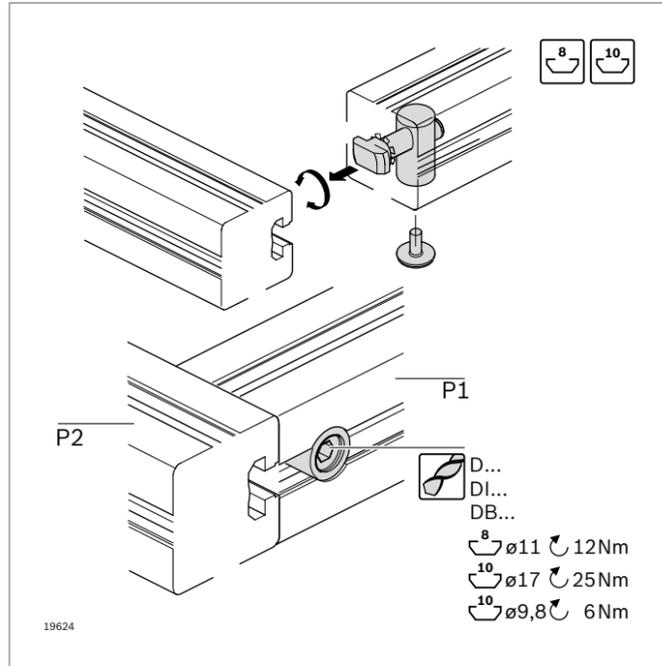
*) With the use of a radial compensation

Quick connector 0°	P1 / P2	D ESD	No.
Steel; galvanized	8 / 8	11	10 3 842 535 459
	8 / 10	11	10 3 842 535 464
	10 / 10	17	10 3 842 535 458
Steel; stainless	8 / 8	11	10 3 842 548 934
	8 / 10	11	10 3 842 548 935
	10 / 10	17	10 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	D ESD	No.
Steel; galvanized	10 / 10	9.8 ¹⁾	10 3 842 541 412

¹⁾ No standard hole in modular dimensions 40, 50 and 60
Target distance from profile end: 22.5 mm



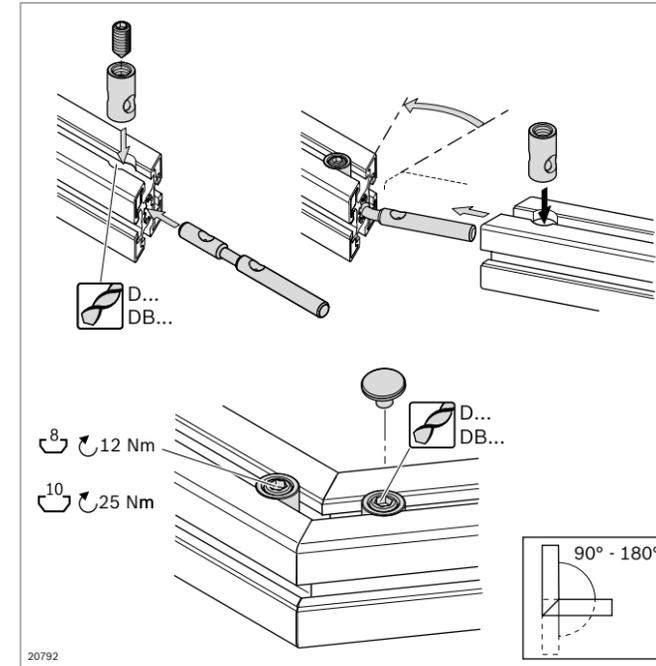
**Quick connector, 8/10 mm slot, 90°
Cover cap**



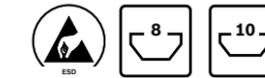
- ▶ Tie rod head rotated at a 90° angle to the connector sleeve
- ▶ Profile finishing:
Blind hole DI, DB11, DB17 or
Through-hole DI, D11, D17

Optional accessories:

- ▶ Anti-torsion element (p. 3-42)
- ▶ Radial compensation (p. 2-85)
- ▶ Drilling jig (p. 14-2)
- ▶ Cover cap



Quick connector, bendable – end-to-end

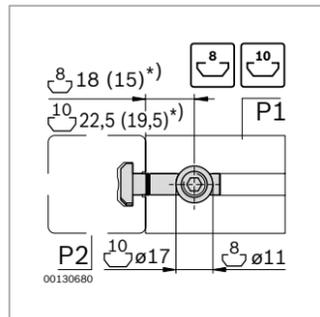


- ▶ For end-to-end connecting of two profiles with equal cross-sections and at any angle, e.g. for frames
- ▶ Profile finishing:
– Blind hole DB11, DB17 or
through-hole D11, D17
– Miter cut

Technical data (p. 18-16)

Accessories:

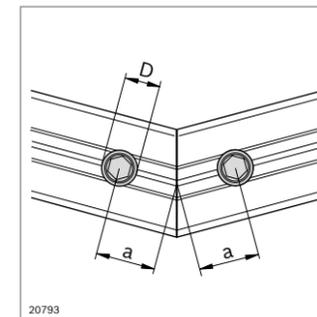
- ▶ Drilling jig (p. 14-2)
- ▶ Cover cap (p. 3-54)



Slot	F_{max}	M_{max}
8 / 8	500 N	40 Nm
10 / 10	4000 N	140 Nm

*) With the use of a radial compensation

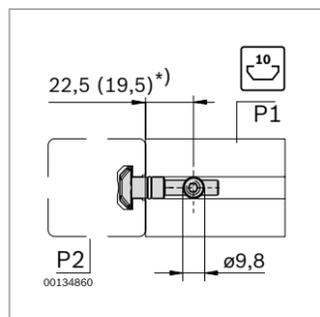
Quick connector 90°	P1 / P2	D	ESD	No.
	(mm)	(mm)		
Steel; galvanized	8 / 8	11	10	3 842 535 465
	10 / 10	17	10	3 842 535 466
Steel; stainless	8 / 8	11	10	3 842 548 937
	10 / 10	17	10	3 842 548 938



Profile	M_{max}
30x30	24 Nm
40x40L	100 Nm
45x45L	110 Nm
45x45	145 Nm
50x50L	160 Nm

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

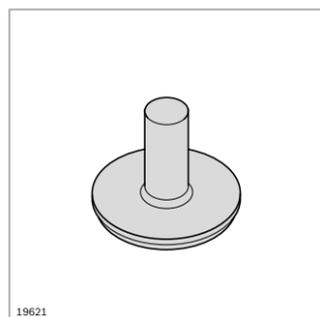


Slot	F_{max}	M_{max}
10 / 10	800 N	50 Nm

*) With the use of a radial compensation

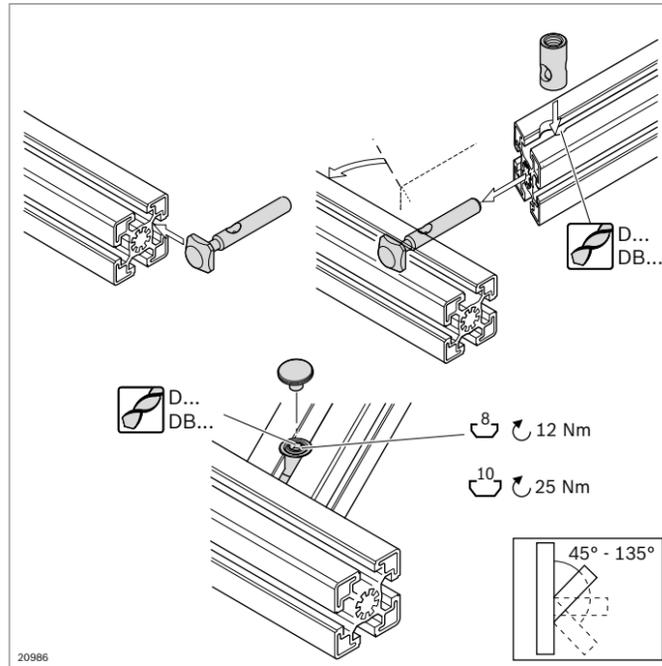
Quick connector 90°, connector sleeve D = 9.8	P1 / P2	D	ESD	No.
	(mm)	(mm)		
Steel; galvanized	10 / 10	9.8 ¹⁾	10	3 842 541 410

¹⁾ No standard hole in modular dimensions 40, 50 and 60
Target distance from profile end: 22.5 mm



Cover cap	D (mm)	No.
	11	100 3 842 551 040
	17	100 3 842 551 042

Material: PE; signal gray RAL 7004



Quick connector, bendable – end-to-slot



- ▶ For end-to-slot connecting of two profiles at any angle, e.g. for framework constructions
- ▶ Profile finishing:
 - Blind hole DB11, DB17 or through-hole D11, D17
 - Miter cut

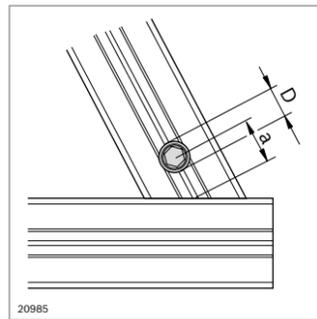
Technical data (p. 18-16)

Accessories:

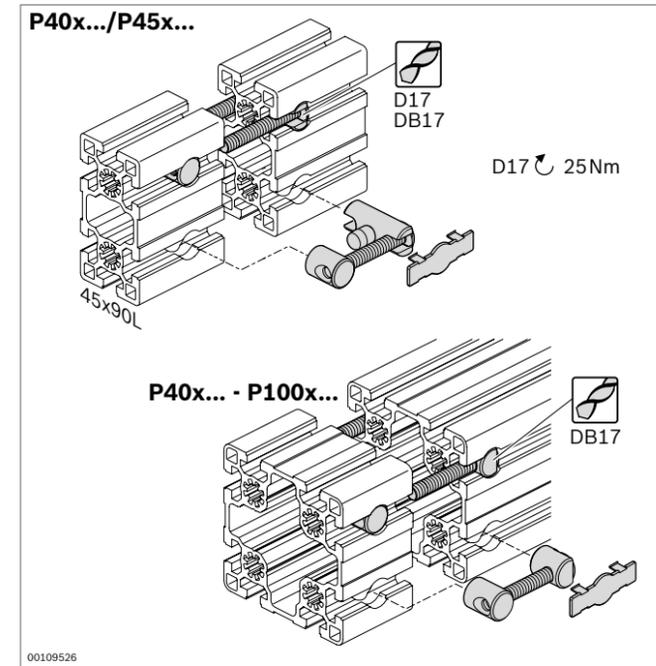
- ▶ Drilling jig (p. 14-2)
- ▶ Cover cap (p. 3-54)

Quick connector, bendable	P1 / P2	a (mm)	D (mm)	ESD	No.
End-to-slot	8 / 8	18	11		3 842 535 629
	10 / 10	22.5	17		3 842 535 635

Material: Tie rod: Steel; stainless
Socket: Steel; galvanized



Profile				
	F _{max}	M _{max}	F _{max}	M _{max}
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



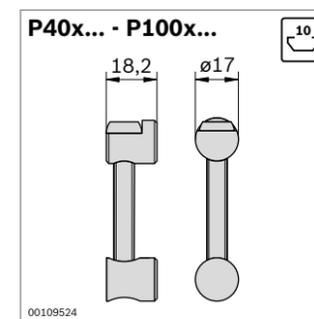
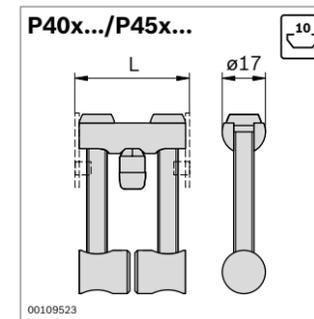
Longitudinal end connector



- ▶ For the end-to-end connecting of two profiles
- ▶ Standard profile finishing:
 - Through-hole D17 (longitudinal end connector on both sides)
 - Blind hole DB17 or through-hole D17 (longitudinal end connector on one side)

Optional accessories:

Cover cap D17 x 44.6; ESD (p. 3-61)



Longitudinal end connector, two-sided	L (mm)	ESD	No.
Profile 40x...	40		3 842 554 442
Profile 45x...	45		3 842 554 440

Material: Longitudinal end connector: screw steel; galvanized
Centering pin, cover caps: PP, signal gray

Scope of delivery: Incl. 4 x cover cap

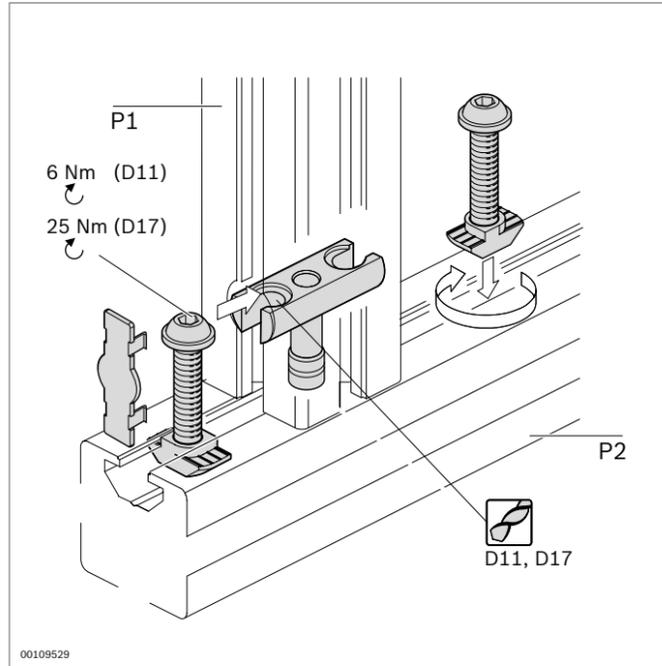
* Longitudinal end connector establishes conductive connection. Cover caps included in the set are not ESD-compatible.

Longitudinal end connector, one-sided	ESD	No.
Profile 40x... - 100x...		3 842 554 444

Material: Longitudinal end connector: screw steel; galvanized
Centering pin, cover caps: PP, signal gray

Scope of delivery: Incl. 2 x cover cap

* Longitudinal end connector establishes conductive connection. Cover caps included in the set are not ESD-compatible.



Bolt connector



- For the right-angled connecting of two profiles
- Suitable for heavy loads, including torsional loads
- Can be mounted in closed frames
- Profile finishing: Through-hole D11, D17

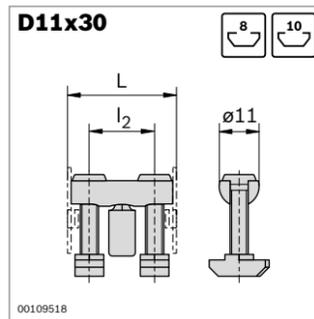
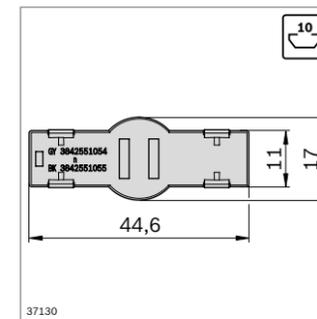
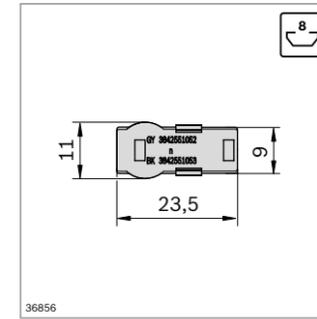
Technical data (p. 18-17)

Accessories:

Drilling jig (p. 14-2)

Optional accessories:

Cover cap ESD (p. 3-61)

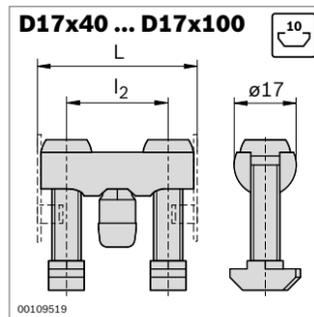


Size	F _{max}	M _{max}	M _{min}
30	2500 N	60 Nm	20 Nm

Bolt connector	P1 / P2	L (mm)	l ₂ (mm)	ESD	No.
D11x30	8 / 8	30	18	⚡*	10 3 842 554 402
D11x30	8 / 10	30	18	⚡*	10 3 842 555 590

Material: Bolt connector: Steel; galvanized
Centering pin, cover caps: PP, signal gray
* Bolt connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.

Scope of delivery: Incl. 2 x cover cap

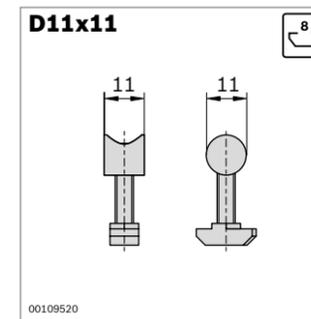
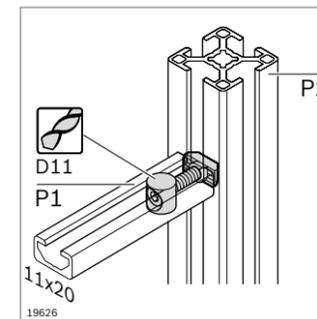


Size	F _{max}	M _{max}	M _{min}
40	4000 N	180 Nm	40 Nm
45	4000 N	180 Nm	60 Nm
50	4000 N	200 Nm	65 Nm
60	4000 N	200 Nm	80 Nm
80	5000 N	800 Nm	170 Nm
90	5000 N	800 Nm	200 Nm
100	5000 N	1000 Nm	480 Nm

Bolt connector	P1 / P2	L (mm)	l ₂ (mm)	ESD	No.
D17x40	10 / 10	40	23	⚡*	10 3 842 555 594
D17x45	10 / 10	45	28	⚡*	10 3 842 555 584
D17x50	10 / 10	50	33	⚡*	10 3 842 555 596
D17x60	10 / 10	60	43	⚡*	10 3 842 555 586
D17x80	10 / 10	80	63	⚡*	10 3 842 555 598
D17x90	10 / 10	90	73	⚡*	10 3 842 555 588
D17x100	10 / 10	100	83	⚡*	10 3 842 555 592

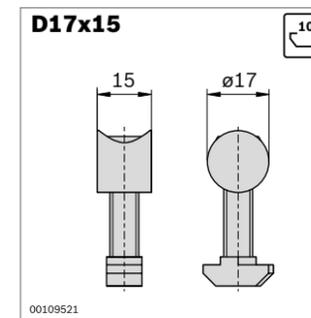
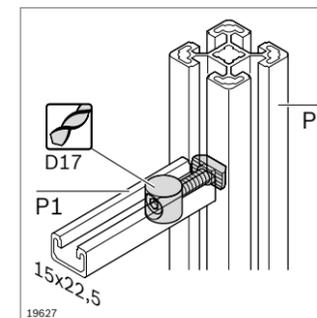
Material: Bolt connector: Steel; galvanized
Centering pin, cover caps: PP, signal gray
* Bolt connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.

Scope of delivery: Incl. 2 x cover cap



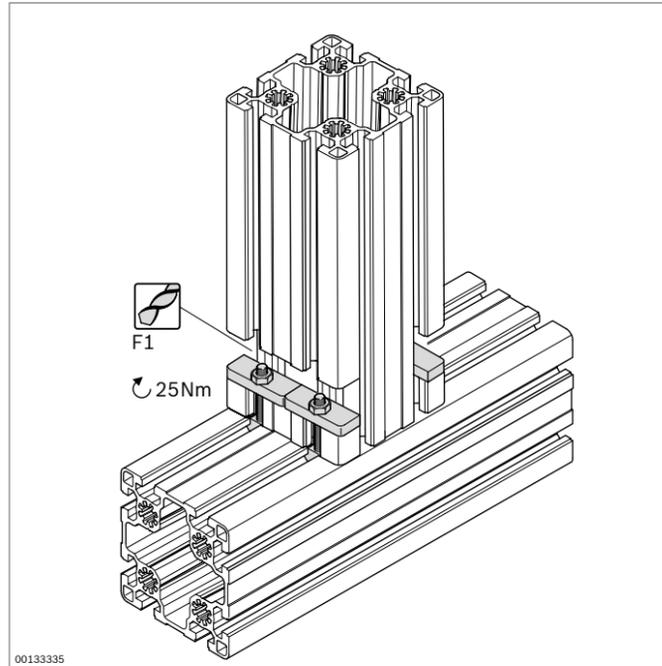
Bolt connector	P1 / P2	ESD	No.
D11x11	8 / 8	⚡	10 3 842 535 617

Material: Steel; galvanized



Bolt connector	P1 / P2	ESD	No.
D17x15	10 / 10	⚡	10 3 842 535 619

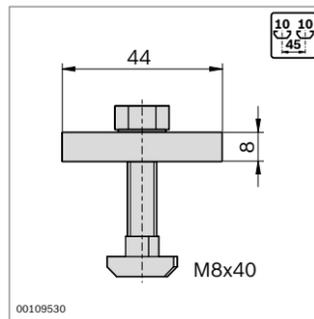
Material: Steel; galvanized



QV mounting kit



- ▶ For the right-angled connecting of two profiles
- ▶ Excellent accessibility for tools during mounting
- ▶ Profile finishing: Standard milling F1
- ▶ Bending moments must be avoided



Slot	
10	1000 N

QV mounting kit	No.
	10 3 842 146 972

Material: Steel; galvanized

Joints



Joint 45x45 lockable (p. 4-2)



Joints (p. 4-4)



Swivel bearing (p. 4-9)



Supporting arm joint (p. 4-10)



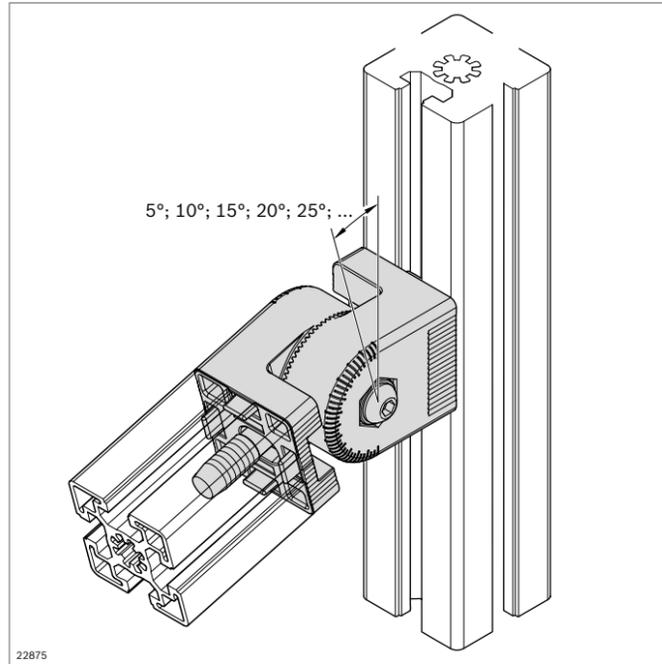
Bearing pedestal (p. 4-11)



Swivel mounting (p. 4-12)



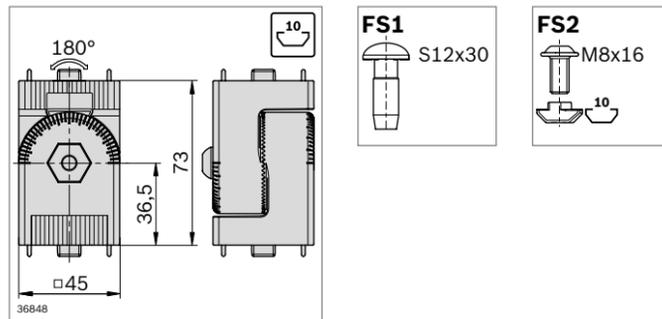
Clamping lever, star knob (p. 4-13)



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 the 5° modular dimensions
- ▶ 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-cutting screw for end face to end face connections)
- ▶ Compatible with joint 45x45 and joint 45x45 support (p. 4-5)

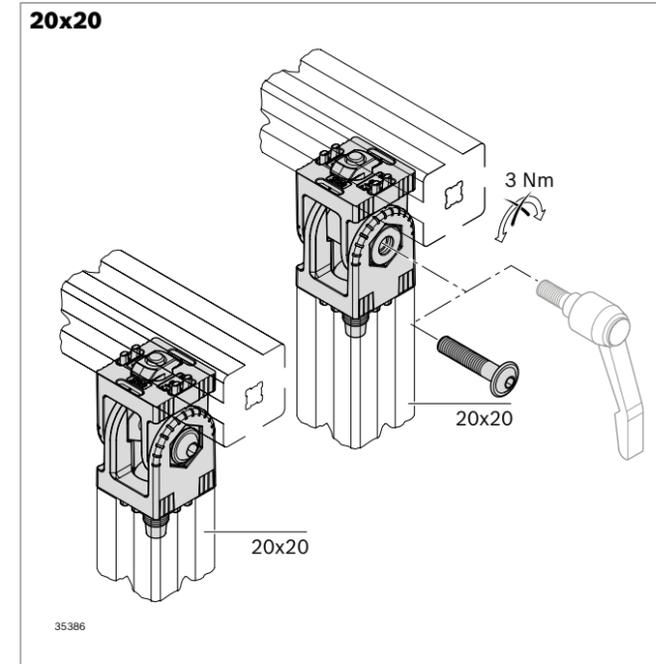
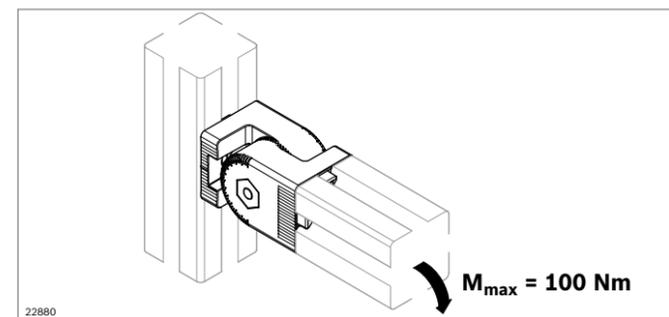
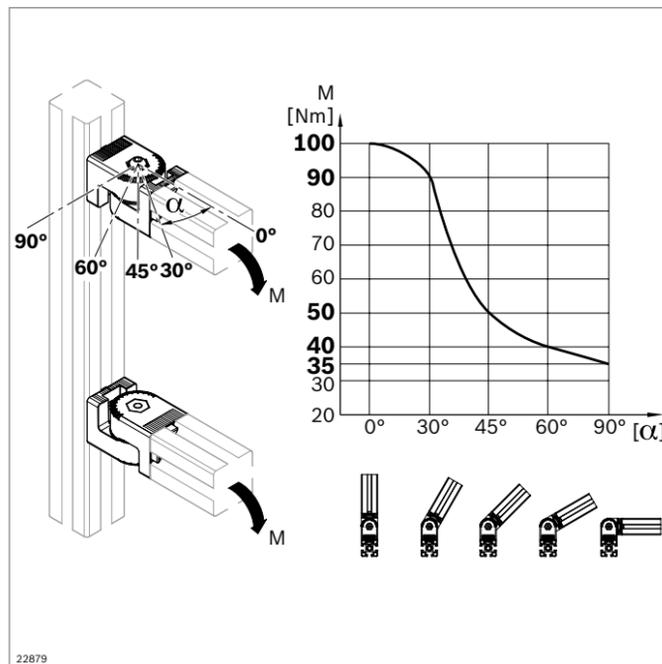


Joint 45x45 lockable	Slot ESD No.	FS
	10	2xFS1, 2xFS2

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

Clamping lever M8x45	No.
For joint 45x45 lockable	3 842 538 607

Material: Diecast zinc, black polymer coating

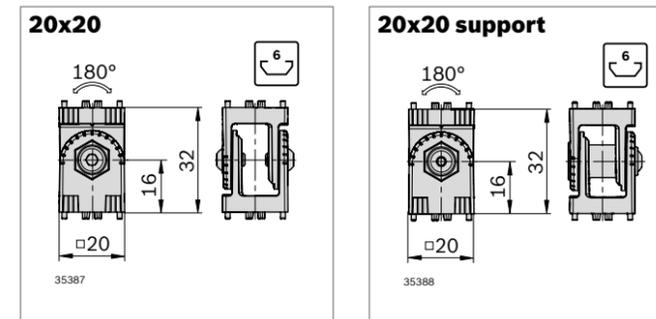


Joint 20x20



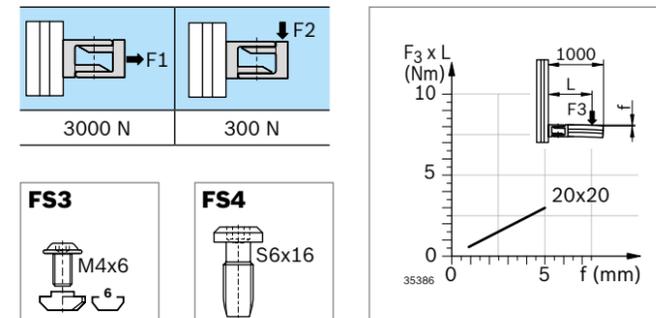
designLINE

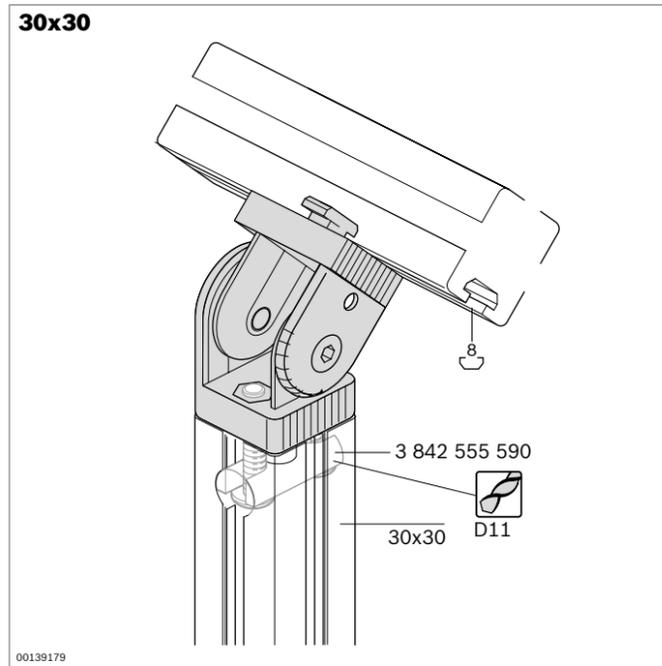
- ▶ For movable or rigid profile connections at any angle
- ▶ Swivel range 180°
- ▶ With a 15° graduation
- ▶ Clamping (3 Nm) and convenient adjustment of joint using a clamping lever (M4x20)
- ▶ designLINE version with special silver paint (RAL 9006) for an attractive, high-quality design
- ▶ Two different assembly versions (normal and support) available under the same order number



Joint 20x20	Slot ESD No.	FS
Standard	6	2xFS3, 2xFS4
designLINE	6	2xFS3, 2xFS4

Material: Standard: Diecast aluminum
 designLINE: painted, RAL 9006
 Fastening material: Steel; galvanized
 Scope of delivery: Incl. fastening material (FS)



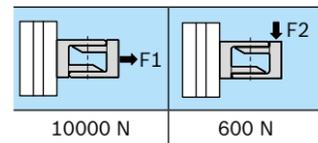
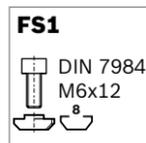
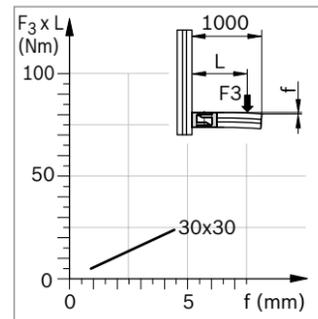
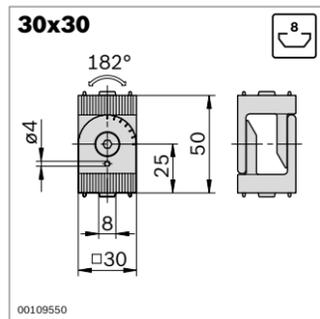


Joint 30x30



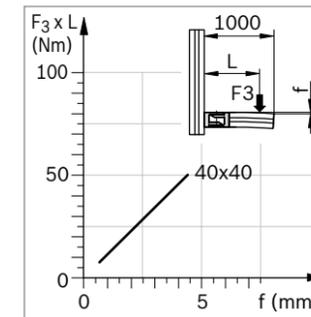
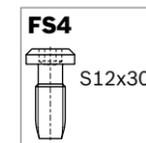
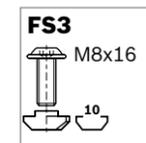
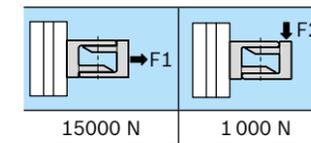
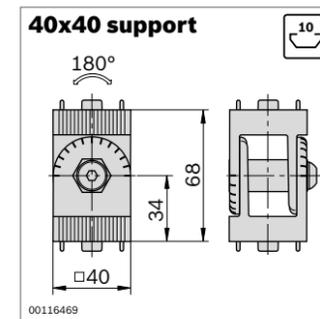
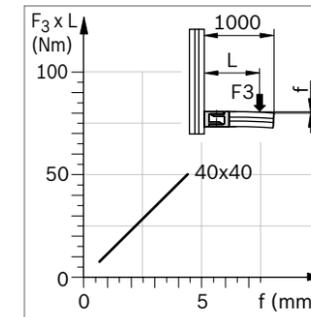
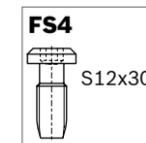
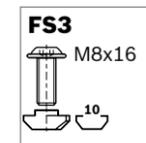
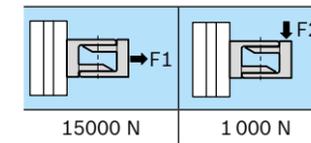
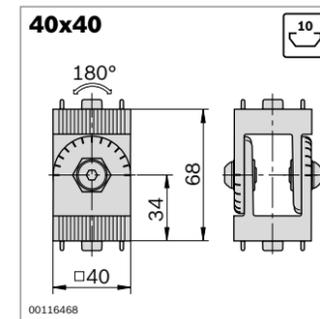
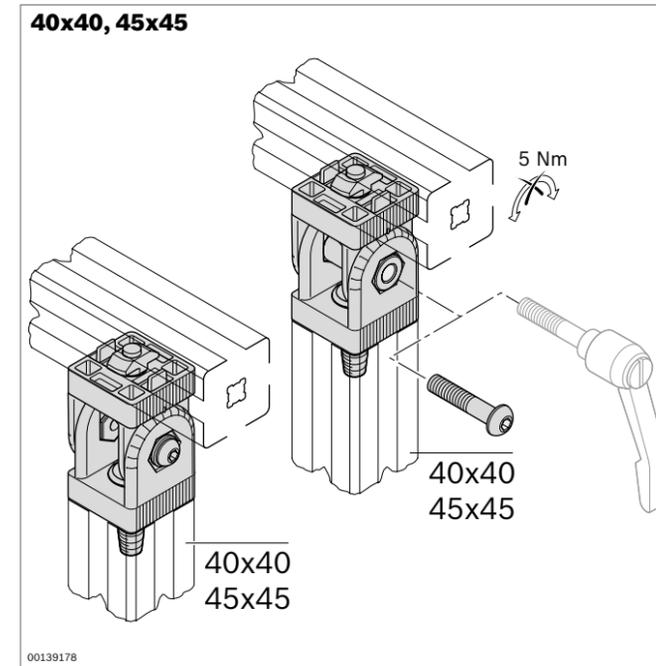
- ▶ For movable or rigid profile connections at any angle
- ▶ Swivel range 182°
- ▶ With a 15° graduation
- ▶ Locking by clamping (5 Nm) or fixing with pins (15 Nm)
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- ▶ Profile finishing:
Through-hole D11 for end face profile connections

Required accessories:
Bolt connector D11 for end face connections



Joint 30x30	Slot	ESD No.	FS
Standard	8	3 842 502 683	2xFS1, 4xFS2
<i>designLINE</i>	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)



Join 40x40, 40x40 support, 45x45, 45x45 support



- ▶ 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

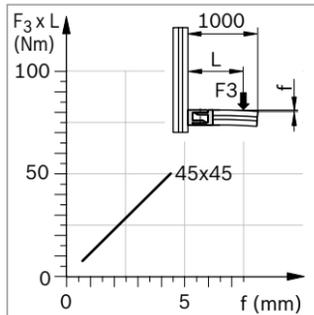
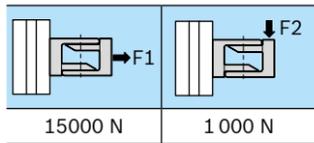
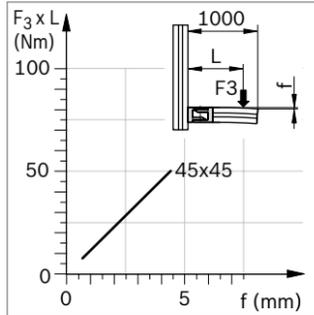
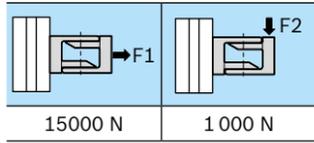
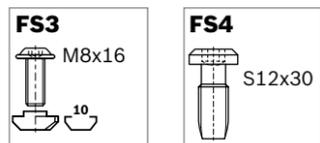
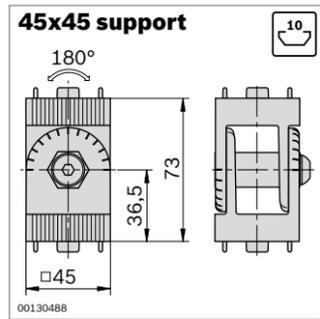
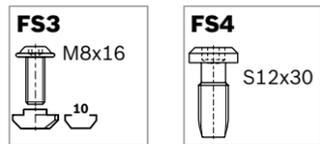
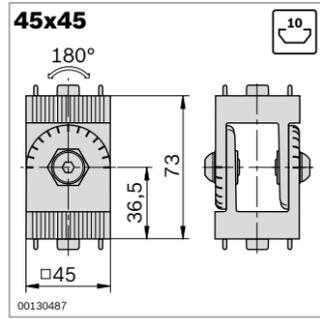
Material: Standard: Diecast aluminum
designLINE: painted, RAL 9006
Fastening material: Steel; galvanized
Scope of delivery: Incl. fastening material (FS)

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: Diecast aluminum
designLINE: painted, RAL 9006
Fastening material: Steel; galvanized
Scope of delivery: Incl. fastening material (FS)

Clamping lever M8x40	No.
For joint 40x40 support	3 842 516 847

Material: Diecast zinc, black polymer coating



Joint 45x45	Slot	ESD No.	FS
Standard	10	3 842 543 403	2xFS3, 2xFS4
designLINE	10	3 842 538 686	2xFS3, 2xFS4

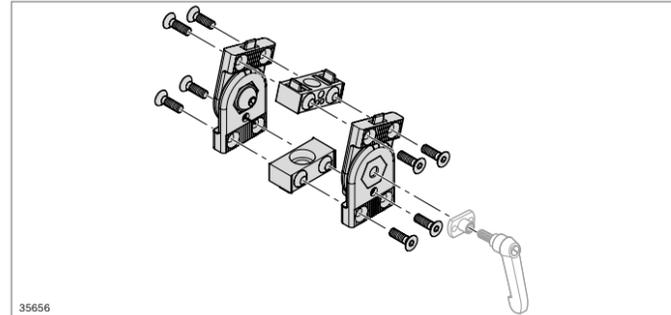
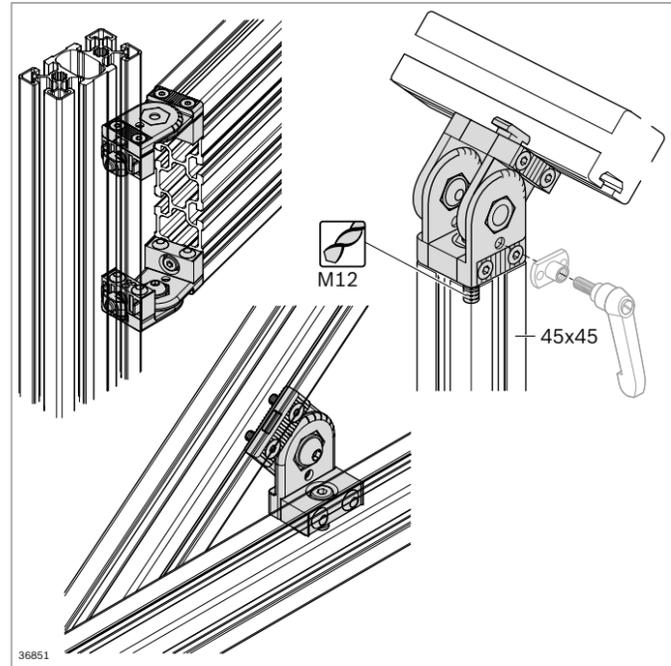
Material: Standard: Diecast aluminum
designLINE: painted, RAL 9006
 Fastening material: Steel; galvanized
 Scope of delivery: Incl. fastening material (FS)

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 M8x45	No.
For joint 45x45 support	3 842 538 607

Material: Diecast zinc, black polymer coating



Joint 45x45



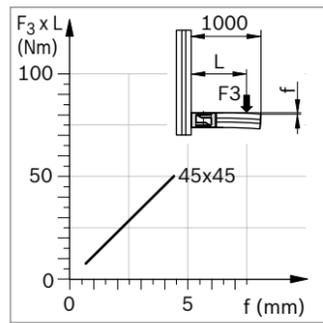
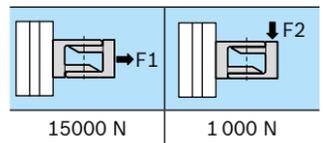
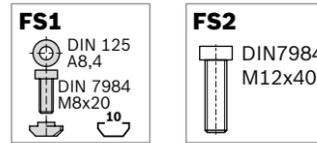
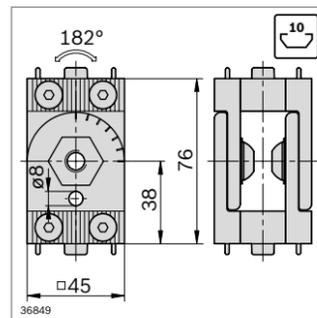
- ▶ For movable or rigid profile connections at any angle
- ▶ Swivel range 182°
- ▶ With a 15° graduation

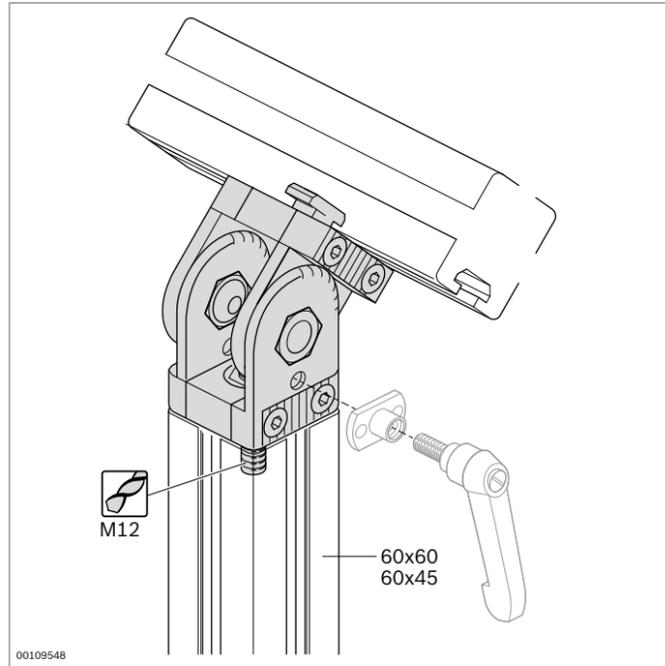
Joint 45x45	Slot	ESD No.	FS
Standard	10	3 842 502 684	2xFS1, 2xFS2

Material: Standard: Diecast zinc
 Fastening material: Steel; galvanized
 Scope of delivery: Incl. fastening material (FS)

Clamping lever M5x10	ESD No.
For joint 45x45	3 842 505 144

Material: Diecast zinc, black polymer coating

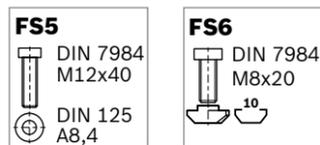
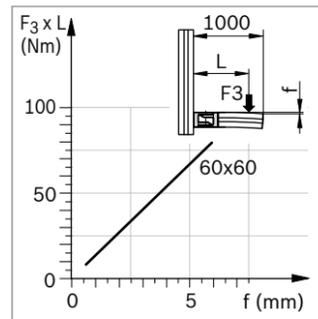
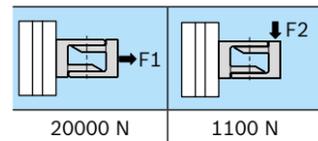
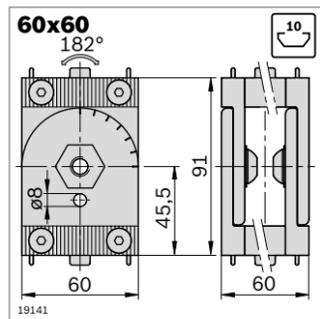
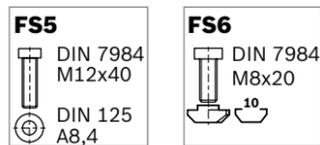
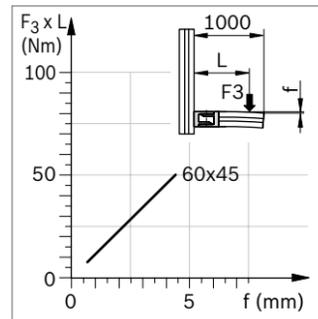
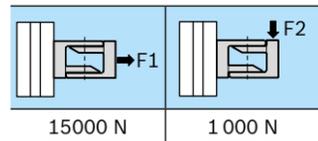
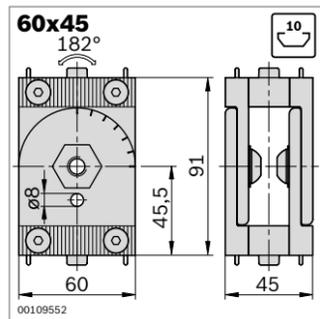




Joint 60x45, 60x60



- ▶ 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 finishing:
Thread (M12) in central bore for end connection



Joint 60x45	Slot	ESD	No.	FS
Standard	10		3 842 502 688	2xFS5, 2xFS6
<i>designLINE</i>	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 M5x10	No.
For joint 60x45	3 842 505 144

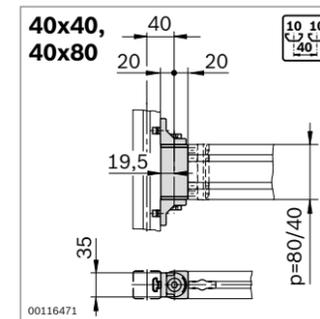
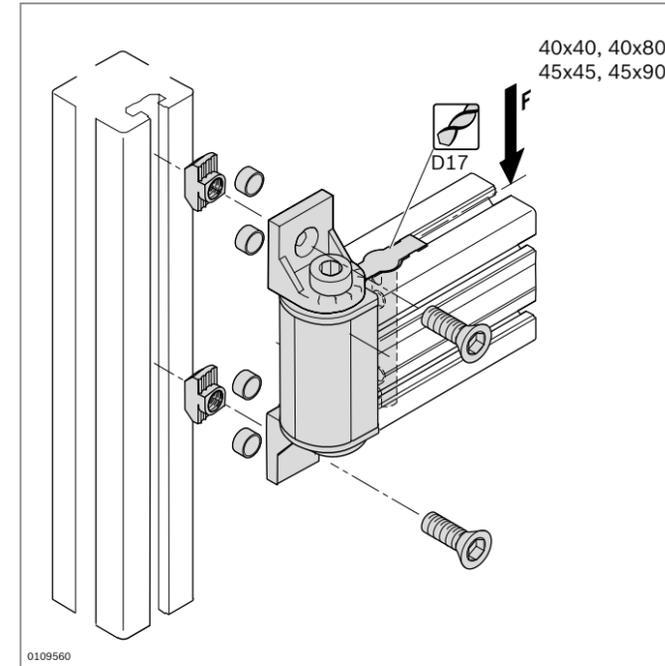
Material: Diecast zinc, black polymer coating

Joint 60x60	Slot	ESD	No.	FS
Standard	10		3 842 502 687	2xFS5, 2xFS6
<i>designLINE</i>	10		3 842 539 800	2xFS5, 2xFS6

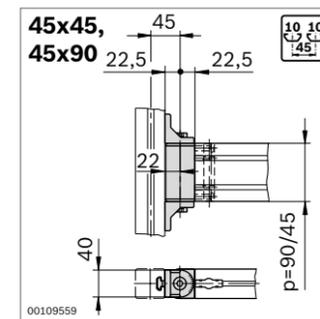
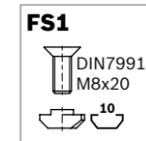
Material: Standard: Diecast zinc
designLINE: painted, RAL 9006
Fastening material: Steel; galvanized
Scope of delivery: Incl. fastening material (FS)

Clamping lever M5x10	No.
For joint 60x60	3 842 505 144

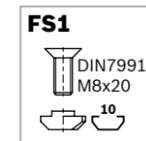
Material: Diecast zinc, black polymer coating



Profile	p (mm)
40x40	40
40x80	130



Profile	p (mm)
45x45	50
45x90	150



Swivel bearing



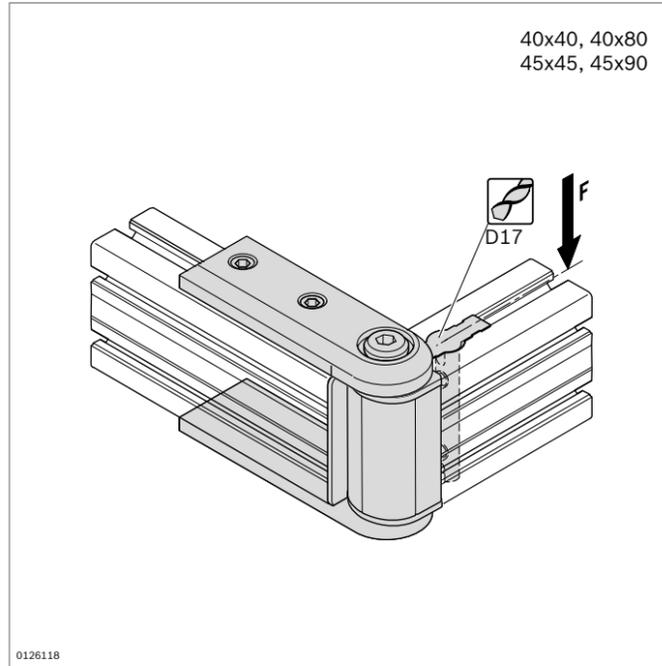
- ▶ Suitable for swiveling right-angled profile connections, e.g. for constructing supporting arms or doors
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- ▶ Profile finishing:
Through-hole D17

Swivel bearing	p (mm)	ESD	No.	FS	
40x40	Standard		40	3 842 554 404	2xFS1
	<i>designLINE</i>		40	3 842 554 412	2xFS1
40x80	Standard		80	3 842 554 406	2xFS1
	<i>designLINE</i>		80	3 842 554 414	2xFS1

Material: Standard: Diecast aluminum
designLINE: painted (RAL 9006)
Fastening material: Steel; galvanized
Cover cap: PP; gray
Scope of delivery: Incl. cover caps, bolt connectors, fastening material (FS)

Swivel bearing	p (mm)	ESD	No.	FS	
45x45	Standard		45	3 842 554 408	2xFS1
	<i>designLINE</i>		45	3 842 554 416	2xFS1
45x90	Standard		90	3 842 554 410	2xFS1
	<i>designLINE</i>		90	3 842 554 418	2xFS1

Material: Standard: Diecast zinc
designLINE: painted (RAL 9006)
Fastening material: Steel; galvanized
Cover cap: PP; gray
Scope of delivery: Incl. cover caps, bolt connectors, fastening material (FS)

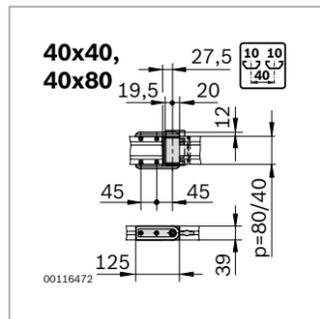


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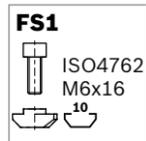
Supporting arm joint



- ▶ 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 finishing:
Through-hole D17



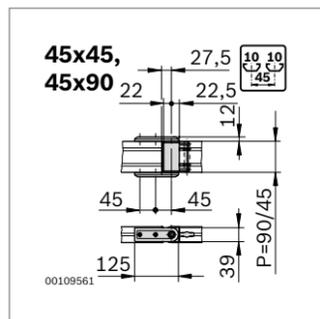
Profile	$M_{max} = F \times L$ (Nm)
40x40	40
40x80	130



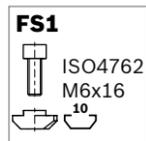
Supporting arm joint	p (mm)	ESD No.	FS
40x40 Standard	40	3 842 554 420	4xFS1
40x40 <i>designLINE</i>	40	3 842 554 428	4xFS1
40x80 Standard	80	3 842 554 422	4xFS1
40x80 <i>designLINE</i>	80	3 842 554 430	4xFS1

Material: Standard: Diecast zinc
designLINE: painted (RAL 9006)
Cover cap: PP, signal gray
Fastening material: Steel; galvanized

Scope of delivery: Incl. cover caps, bolt connectors, fastening material (FS)



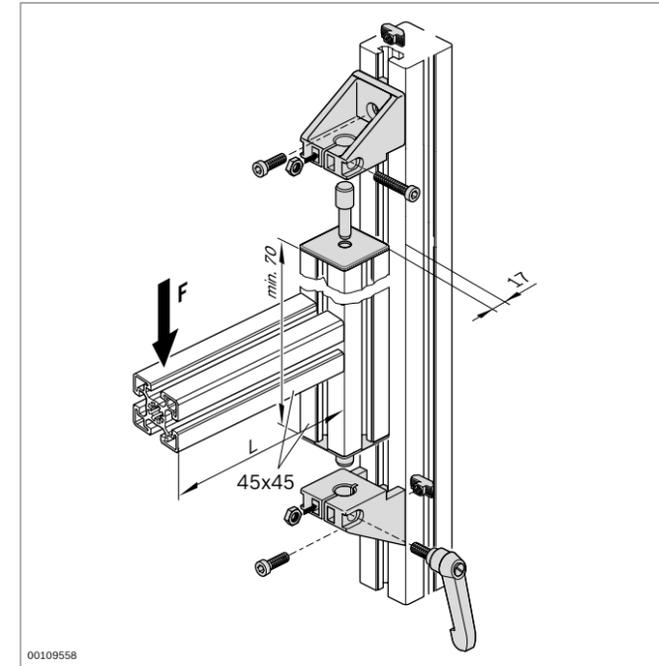
Profile	$M_{max} = F \times L$ (Nm)
45x45	50
45x90	150



Supporting arm joint	p (mm)	ESD No.	FS
45x45 Standard	45	3 842 554 424	4xFS1
45x45 <i>designLINE</i>	45	3 842 554 432	4xFS1
45x90 Standard	90	3 842 554 426	4xFS1
45x90 <i>designLINE</i>	90	3 842 554 434	4xFS1

Material: Standard: Diecast zinc
designLINE: painted (RAL 9006)
Cover cap: PP, signal gray
Fastening material: Steel; galvanized

Scope of delivery: Incl. cover caps, bolt connectors, fastening material (FS)

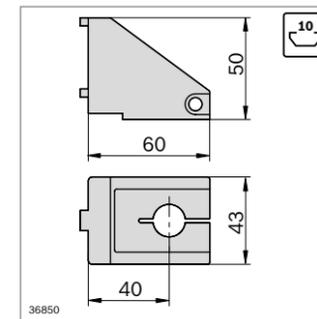


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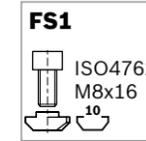
Bearing pedestal



- ▶ Bearing pedestal for heavy constructions which have to be swiveled
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design



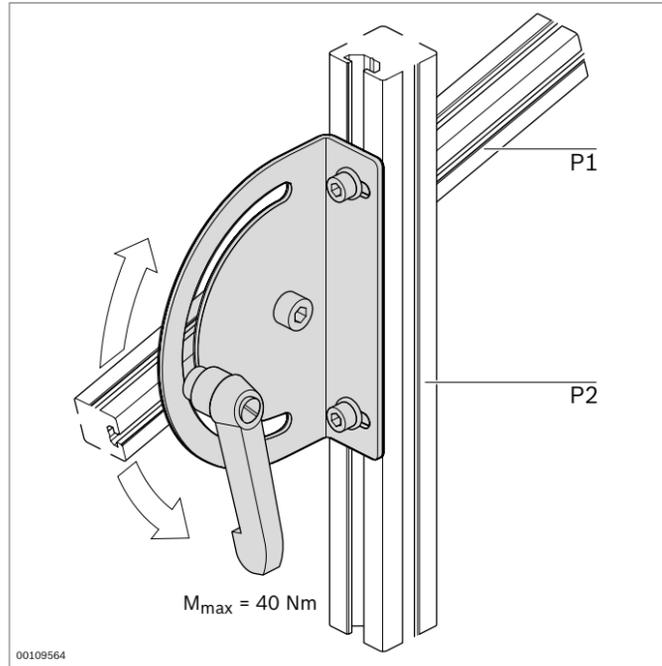
Profile	$M_{max} = F \times L$ (Nm)
400	400



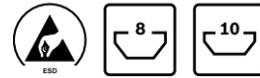
Bearing pedestal	Slot No.	FS
Standard	10	3 842 547 868 2xFS1
<i>designLINE</i>	10	3 842 547 869 2xFS1

Material: Standard: Diecast zinc
designLINE: painted (RAL 9006)
Fastening material: Steel; galvanized
Clamping lever handle: Diecast zinc; black plastic coated
Cover cap: PP, signal gray

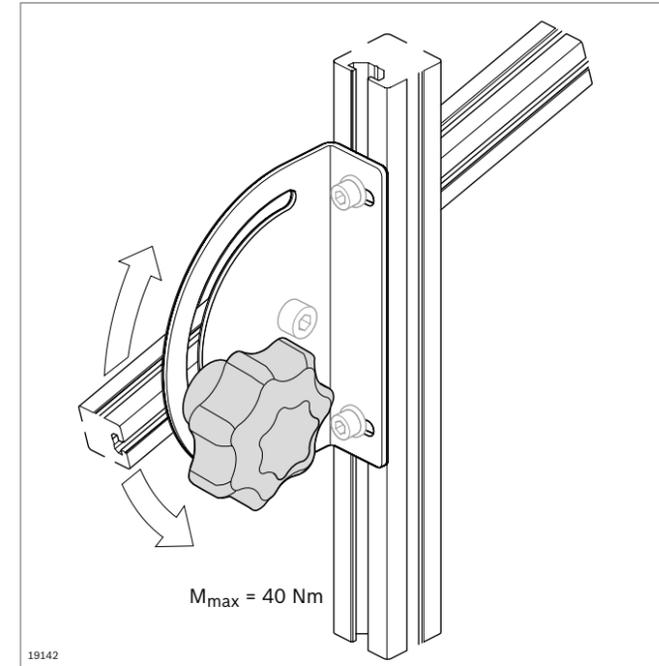
Scope of delivery: Incl. fastening material (FS), 2 x cover cap, 2 x bolt, clamping lever (and additional standard parts for clamping the bearing pedestal)



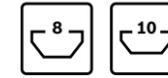
Swivel mounting 180°



- Swivel mounting for shelves, etc. which need to be positioned at an angle of ± 90°



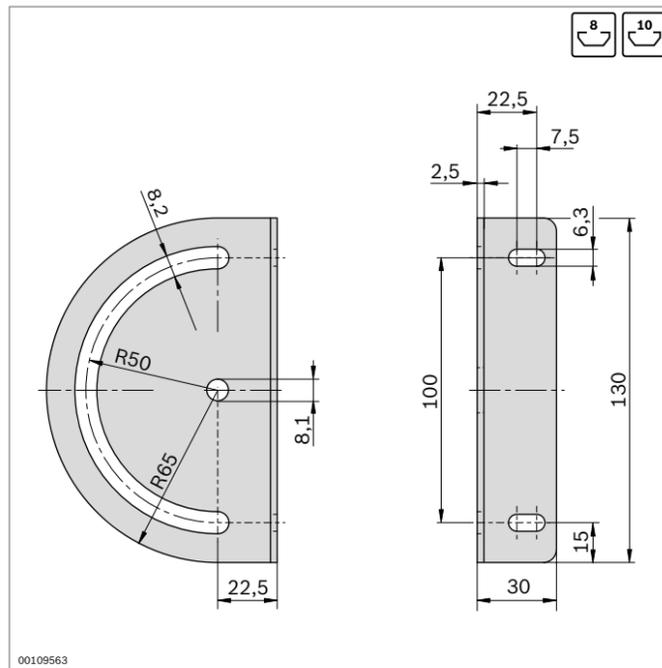
Clamping lever, star knob



- Clamping elements for adjustable connections

Accessories:

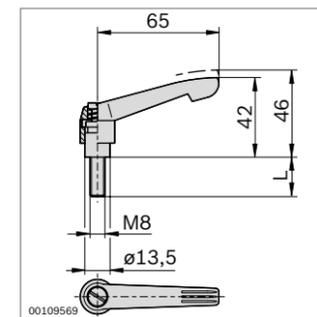
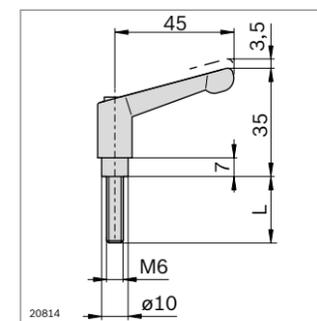
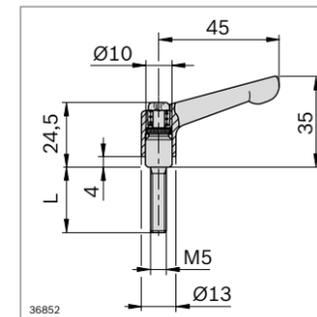
- Screws and sliding blocks; see fastening material (p. 4-12)



Swivel mounting 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: Swivel mounting: 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 M5	L (mm)	No.
	10	3 842 505 144

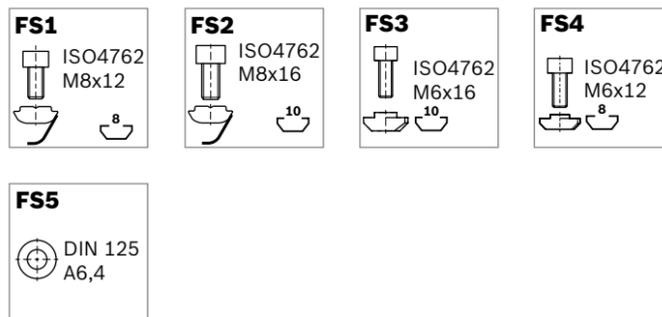
Material: Clamping lever: Diecast zinc; black plastic coated
Screws: Steel; bronzed

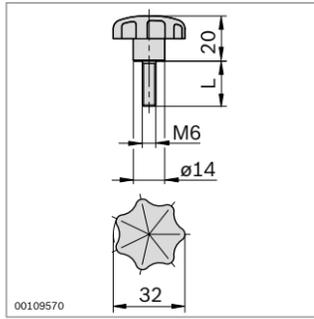
Clamping lever M6	L (mm)	No.
	25	3 842 528 540
	40	3 842 528 539

Material: Clamping lever: Diecast zinc; black plastic coated
Screws: Steel; galvanized and black chrome-plated

Clamping lever M8	L (mm)	No.
	12	3 842 516 845
	16	3 842 522 124
	20	3 842 516 846
	40	3 842 516 847
	45	3 842 538 607
	55	3 842 516 848

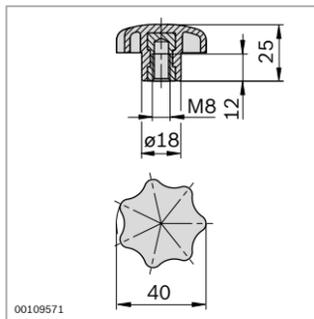
Material: Clamping lever: Diecast zinc; black plastic coated
Steel parts: galvanized, strength class 5.8





Star knob M6	L (mm)	No.
	15	3 842 516 849
	20	3 842 516 850

Material: Star knob: PA; black
Steel parts: galvanized, strength class 5.8



Star knob M8	No.
	3 842 516 851

Material: Star knob: PA; black
Steel parts: galvanized, strength class 5.8

Air-supply elements



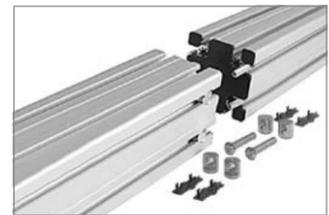
Flanged plate (p. 5-3)



Connection piece (p. 5-4)



Connection screw fitting
M12-1/4" (p. 5-4)



Longitudinal end connector
(p. 5-5)



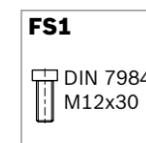
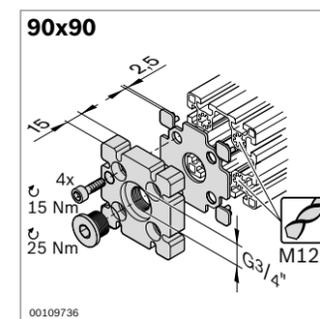
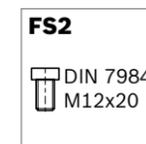
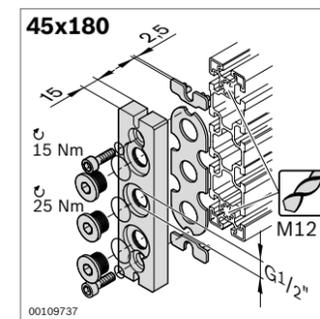
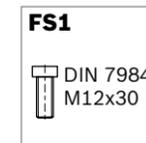
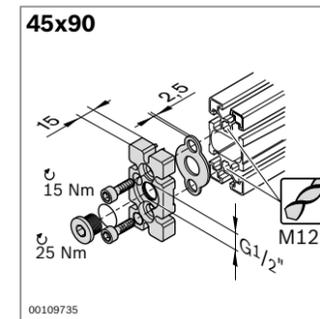
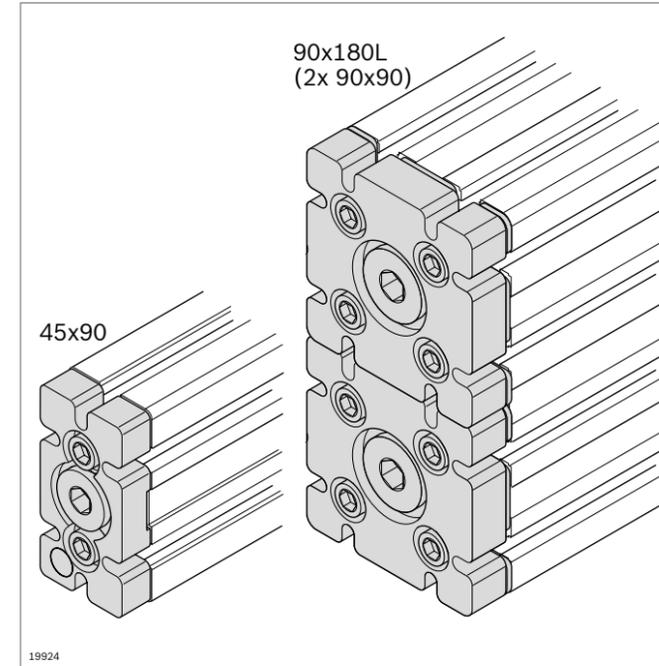
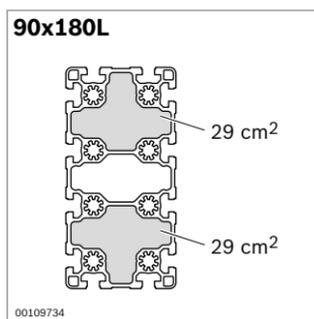
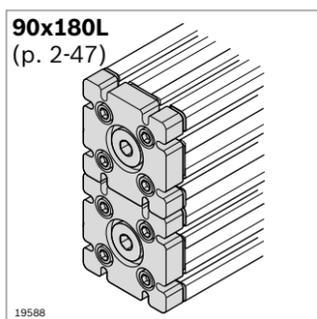
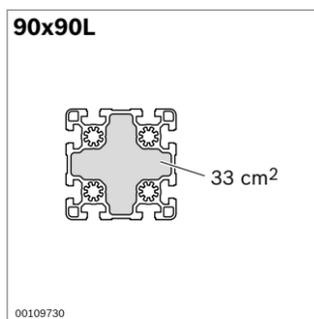
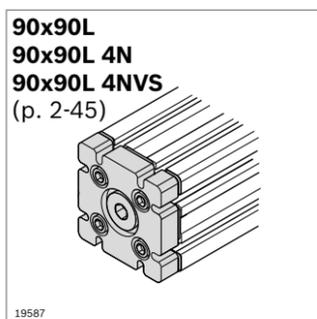
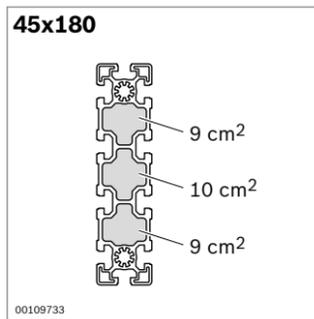
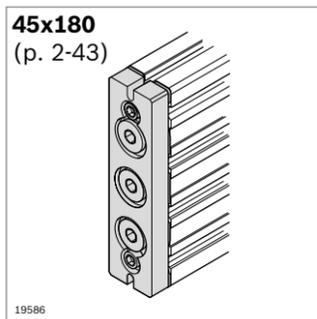
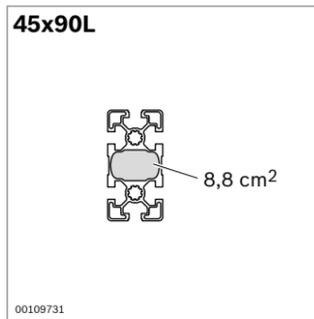
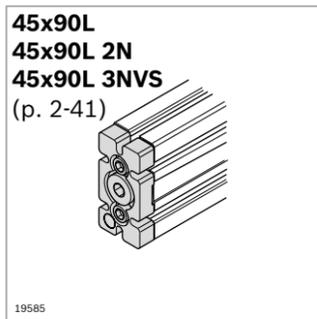
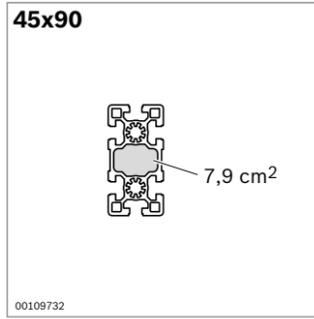
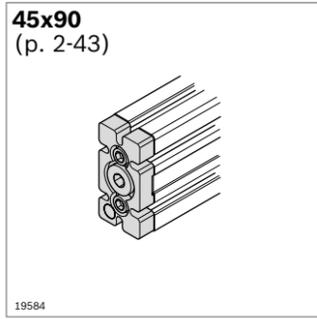
Longitudinal end connector
45 Pneu (p. 5-6)



T-connector 45 Pneu
(p. 5-6)

Air-supply elements

- ▶ Rexroth **strut profiles** can be used as compressed-air lines 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 line
- ▶ For compressed-air introduction or removal when screw plugs are replaced by pneumatic screw fittings
- ▶ Profile finishing: M12 thread cutting in the central holes
- ▶ For a maximum pressure (p_{max}) of 8 bar

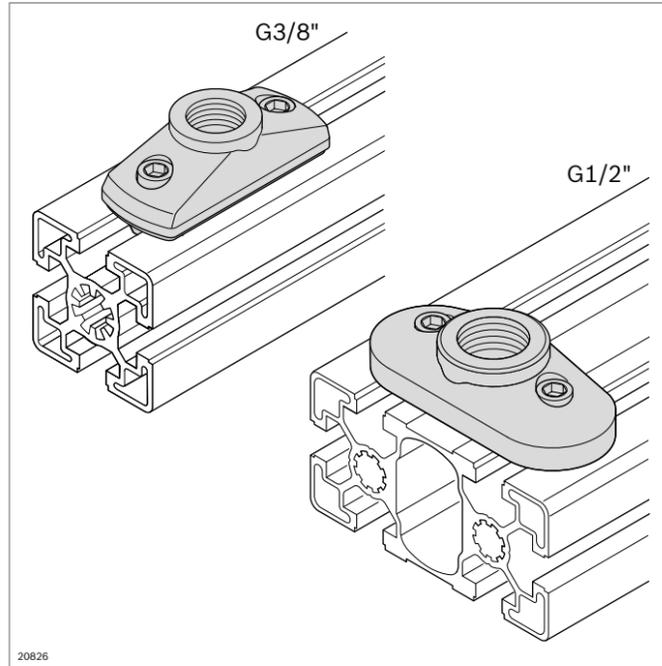
5

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.

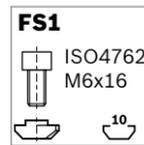
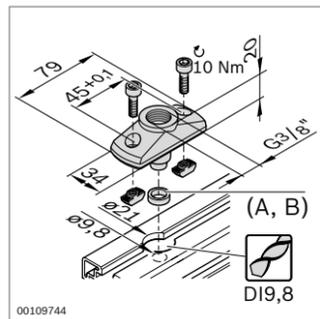


Connection piece
Connection screw fitting M12-1/4"

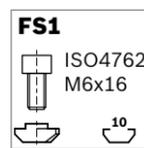
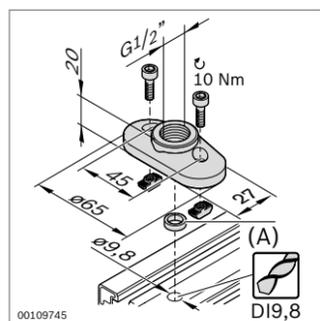


Connection piece

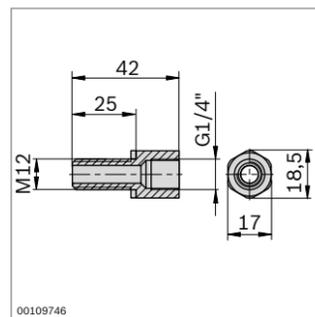
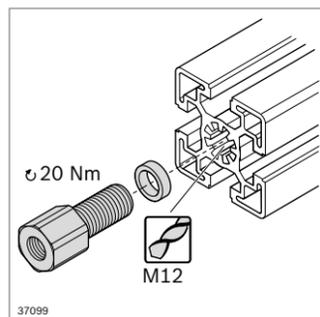
- ▶ For compressed-air intake or discharge at any point on the profile
- ▶ G3/8" for connection at central profile bore
- ▶ G1/2" for connection at hollow chamber
- ▶ Suitable for light and standard profiles
 - Profile finishing: Blind hole DI9.8; blind hole $\varnothing 21$ mm (drilling jig 3 842 528 574, p. 14-3)
- ▶ For a maximum pressure (p_{max}) of 8 bar



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)	



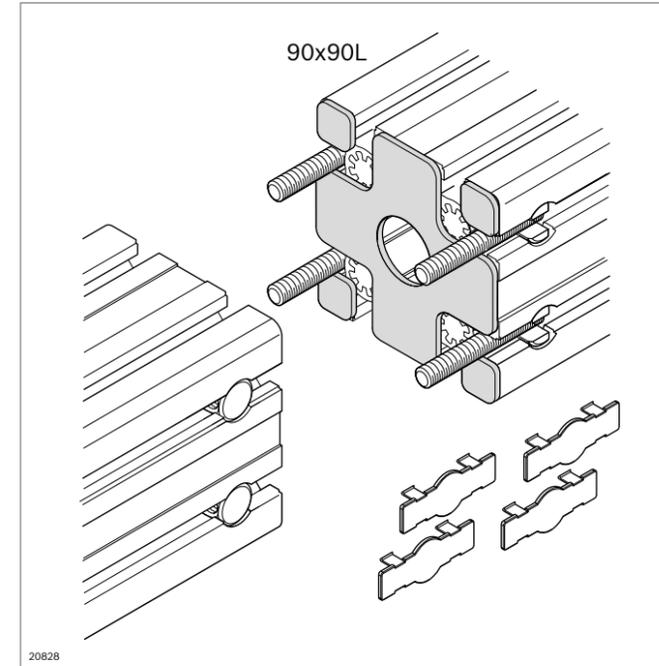
Connection piece	No.	FS
G1/2"	3 842 352 085	2xFS1
Material:	Connection piece: Diecast zinc Seal: NBR	
Scope of delivery:	Incl. fastening material, seal (A)	
Accessories:	Seal A (p. 5-6)	



Connection screw fitting M12-1/4"

- ▶ For screw fitting in central profile bore
- ▶ Profile finishing: M12
- ▶ For a maximum pressure (p_{max}) of 8 bar

Connection screw fitting	No.
M12-1/4"	10 3 842 535 719
Material:	Connection screw fitting: Steel; galvanized Seal: PVC; hard
Scope of delivery:	Incl. Seal

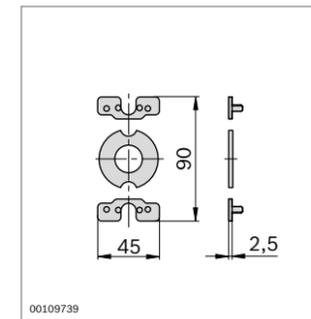
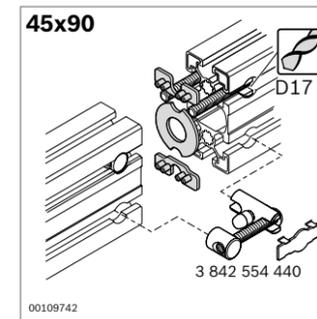


Longitudinal end connection

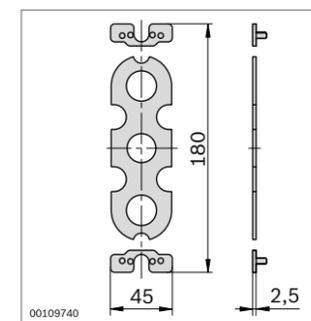
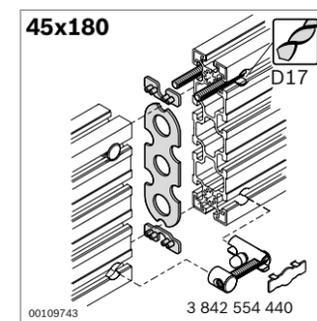


- ▶ Seal for end-to-end connection of profiles carrying compressed air
- ▶ Profile finishing: Through-hole D17 (45x90, 45x180); blind hole LF (90x90L)
- ▶ For a maximum pressure (p_{max}) of 8 bar

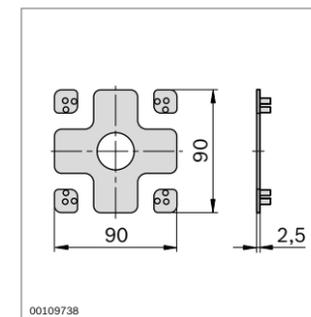
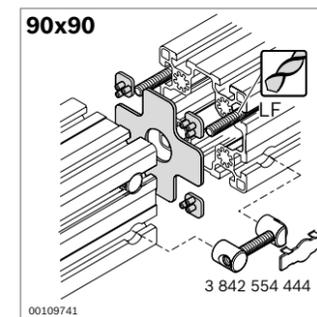
Required accessories:
Longitudinal end connector for profile connection (p. 3-59)



Longitudinal end connection	No.
45x90	3 842 508 087
Material:	Seal: PUR Spacer: PA
Scope of delivery:	Seal, 2 x spacer

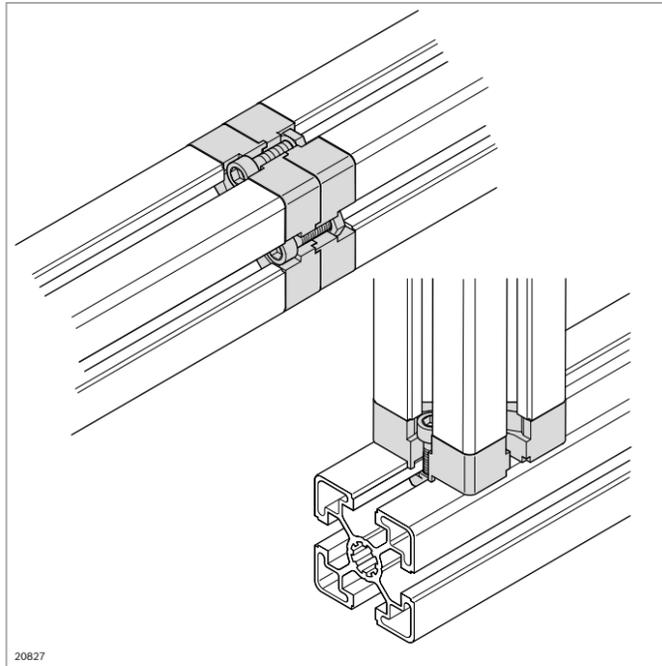


Longitudinal end connection	No.
45x180	3 842 508 088
Material:	Seal: NBR Spacer: PA
Scope of delivery:	Seal, 2 x spacer



Longitudinal end connection	No.
90x90	3 842 510 145
Material:	Seal: NBR Spacer: PA
Scope of delivery:	Seal, 4 x spacer

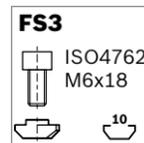
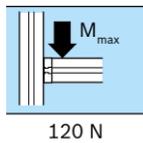
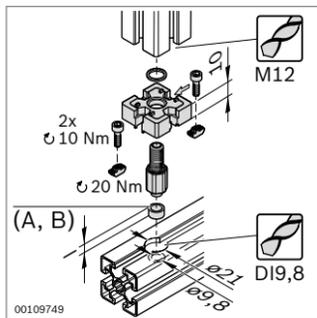
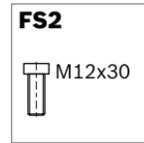
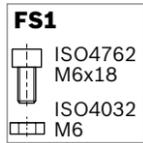
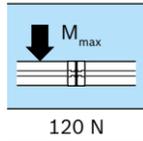
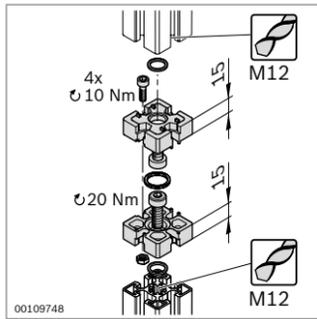
Notice: Only suitable for light profile 90x90L.



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 for using the central hole as a compressed-air line
- ▶ T-connector 45 Pneu for the mechanical and pneumatic connection of two 45x45 or 45x45L profiles at under a 90° angle for using the central hole as a compressed-air line
- ▶ Profile finishing: M12 in central hole; blind hole DI9.8; blind hole ø21 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

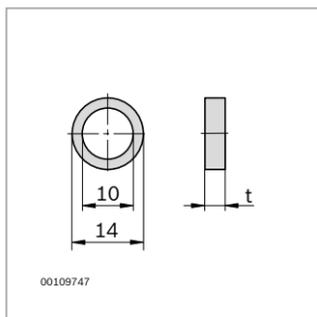
T-connector	No.	FS
45 Pneu	3 842 523 093	2xFS3

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	t (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. 6-10)



Base plate (p. 6-11)



Foot (p. 6-12)



Foot, stainless steel (p. 6-14)



Double wheel (p. 6-16)



Wheel (p. 6-17)



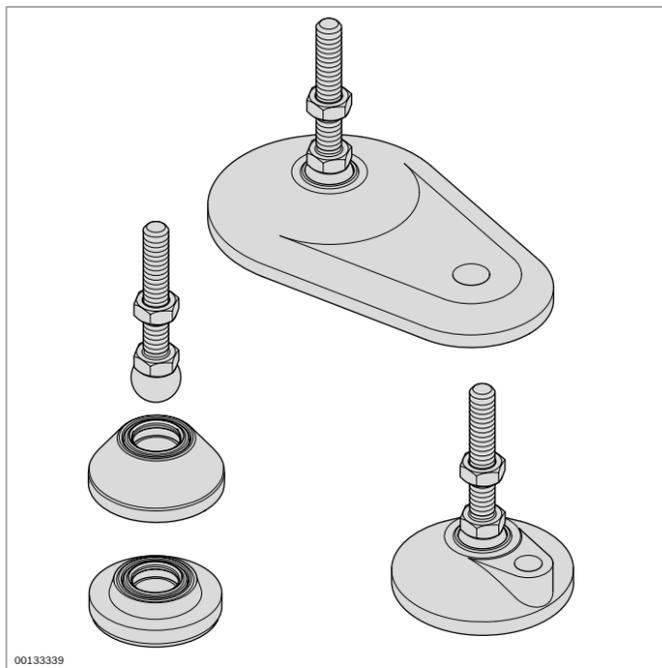
Heavy-duty wheel (p. 6-20)



Lifting wheel (p. 6-22)



Roller with mounting flange (p. 6-24)

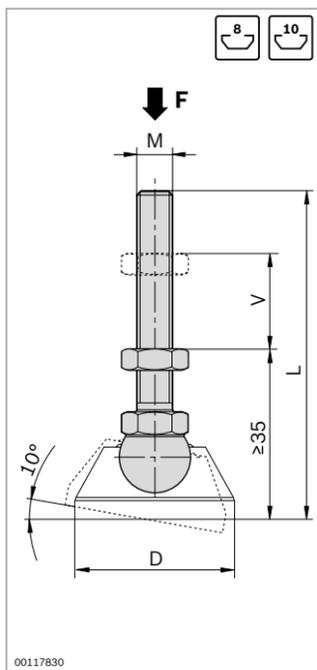


Modular leveling feet

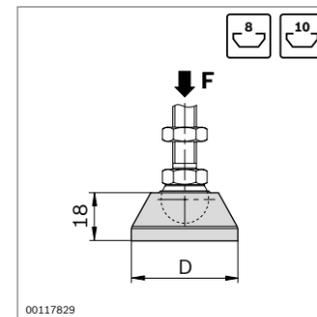


- ▶ Leveling feet for compensating irregularities in the floor up to 10°
 - Modular system, various combinations possible
 - Spindles and base plates can be combined as desired
 - Base plates with screw hole for simple screw fitting to the floor
- ▶ The damping plate prevents the transfer of vibrations and allows a defined conduction of voltages via a set of grounding components (p. 17-2)
- ▶ Profile finishing: Thread M in central hole

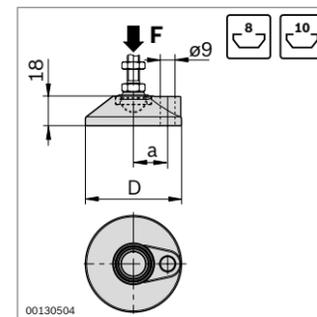
Accessories: Bearing ring (p. 6-16)



Spindle	F (N)	M	L (mm)	V (mm)	ESD	No.
Stainless steel	10000	M8	75	20	⚡	3 842 536 811
	20000	M12	85	30	⚡	3 842 536 812
	20000	M12	145	80	⚡	3 842 537 223
	20000	M12	200	135	⚡	3 842 537 225
	30000	M16	85	20	⚡	3 842 537 227
	30000	M16	145	80	⚡	3 842 537 229
Steel; galvanized	30000	M16	200	135	⚡	3 842 537 231
	10000	M8	75	20	⚡	3 842 537 220
	20000	M12	85	30	⚡	3 842 537 222
	20000	M12	145	80	⚡	3 842 537 224
	20000	M12	200	135	⚡	3 842 537 226
	30000	M16	85	20	⚡	3 842 537 228
30000	M16	145	80	⚡	3 842 537 230	
30000	M16	200	135	⚡	3 842 537 232	

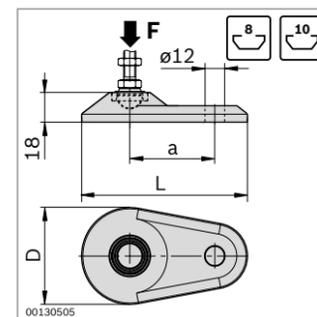


Base plate	F (N)	D (mm)	ESD	No.
Stainless steel	20000	29	⚡	3 842 536 694
	30000	39	⚡	3 842 536 695
	30000	44	⚡	3 842 536 696
	30000	59	⚡	3 842 538 673
	30000	79	⚡	3 842 537 206
Diecast zinc, black powder coating	20000	29		3 842 538 674
	30000	39		3 842 538 675
	30000	44		3 842 538 676
	30000	59		3 842 538 677
	30000	79		3 842 538 678
PA; black	5000	29		3 842 538 832
	9000	39		3 842 538 833
	9000	44		3 842 538 834
	9000	59		3 842 538 835
	9000	79		3 842 538 836



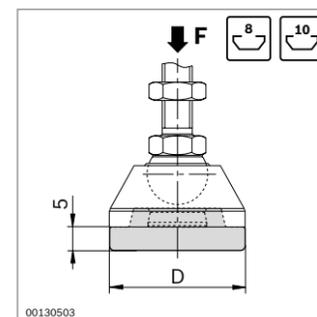
Base plate with screw hole	F (N)	D (mm)	a (mm)	No.
	30000	59	21	3 842 538 932
	30000	79	31	3 842 538 934

Material: Diecast zinc, black powder coating



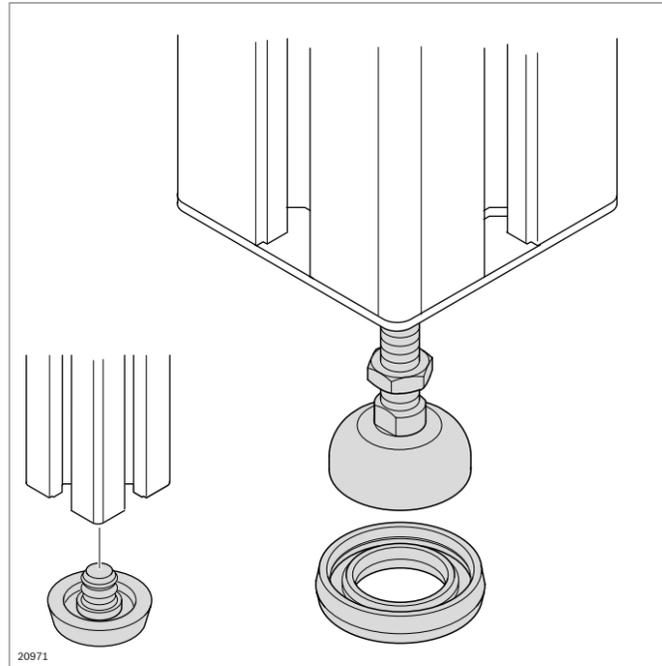
Oval base plate with screw hole	F (N)	D (mm)	a (mm)	L (mm)	No.
	30000	59	52	100	3 842 538 679
	30000	79	65	130	3 842 538 680

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



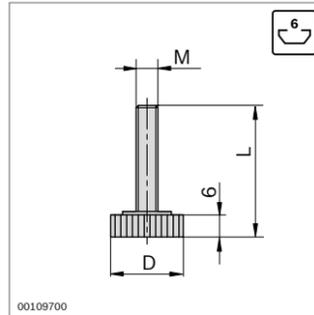
Leveling foot

- ▶ For compensating irregularities in the floor up to 5°
- ▶ Fully assembled spindle and base plate
- ▶ Profile finishing: Threading in central hole

Damping ring

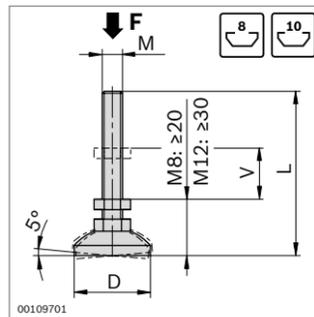
- ▶ The electrically insulating damping ring prevents the transfer of vibrations and allows a defined conduction of voltages via a set of grounding components (p. 17-2)

Optional accessories:
Bearing ring (p. 6-16), for when cover caps with a hole are used



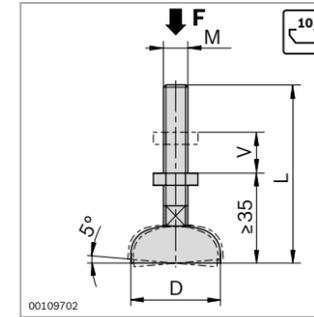
Leveling foot	M	D (mm)	L (mm)	ESD	No.
	M6	20	41	20	3 842 518 743

Material: Steel/plastic



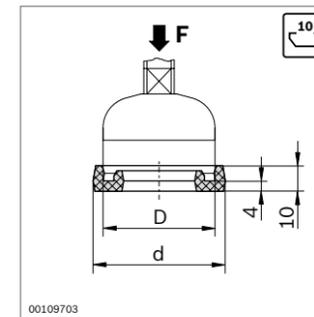
Leveling foot	F (N)	M	D (mm)	L (mm)	V (mm)	ESD	No.
	5000	M8	30	65	15	20	3 842 502 257
	8000	M12	30	72	14	20	3 842 529 025

Material: Steel; galvanized



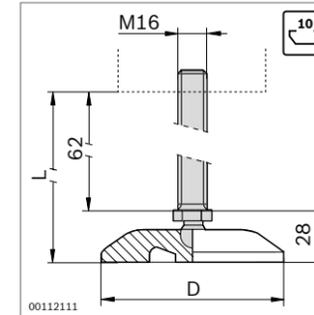
Leveling foot	F (N)	M	D (mm)	L (mm)	V (mm)	ESD	No.
	10000	M12	44	85	30	20	3 842 352 061
	20000	M16	44	145	80	20	3 842 311 956
	10000	M12	44	160	80	20	3 842 536 470
	20000	M16	44	200	135	20	3 842 554 149
	10000	M12	58	85	30	20	3 842 511 893
	20000	M16	90	85	20	20	3 842 311 950
	20000	M16	90	145	80	20	3 842 311 951
	20000	M16	90	200	135	20	3 842 527 186

Material: Steel; galvanized



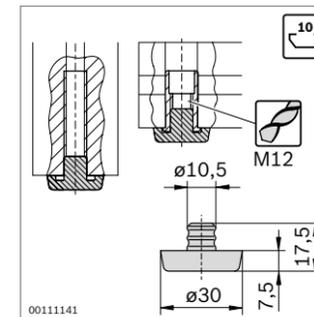
Damping ring	F (N)	D (mm)	d (mm)	ESD	No.
	1600	30	39	20	3 842 529 024
	2000	44	52	20	3 842 521 817
	2500	58	66	20	3 842 522 301
	3000	90	98	20	3 842 522 303

Material: PUR; natural, hardness: shore A 70-80



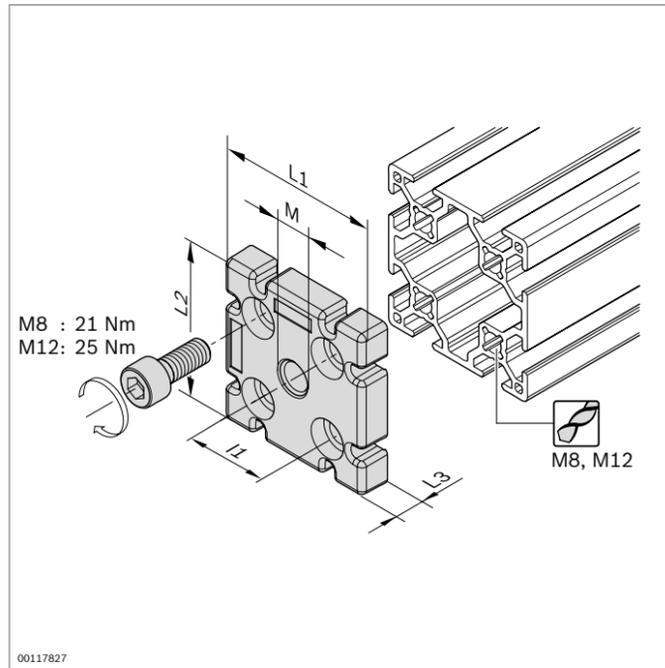
Leveling foot	M	D (mm)	L (mm)	V (mm)	ESD	No.
	M16	80	95	62	1	3 842 533 310

Material: Spindle: Stainless steel
Base plate: PA



Foot	No.
	100 3 842 514 568

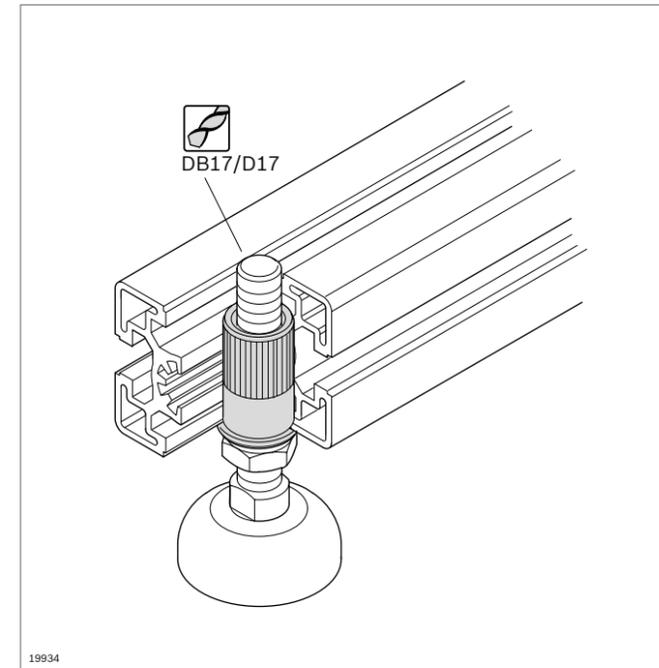
Material: TPE; black



Plate



- ▶ For fastening leveling feet in profiles without a central hole
- ▶ For use as an end connector or T-connector
- ▶ Profile finishing: Tapping of thread in the central hole



Threaded sleeve

- ▶ For fastening leveling feet at an angle to the longitudinal profile direction
- ▶ Profile finishing:
 - Drilling of blind hole DB17
 - Through-hole D17

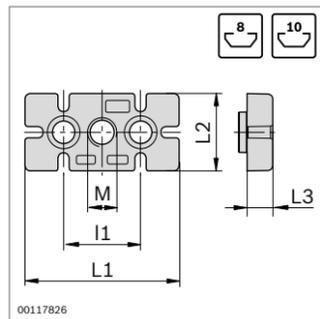


Plate	F (N)	M	L1 (mm)	I1 (mm)	L2 (mm)	L3 (mm)	No.	FS
30x60	8000	M12	60	30	30	11	3 842 536 560	2xFS1
40x80	10000	M12	80	40	40	15	3 842 536 562	2xFS2
45x90	20000	M16	90	45	45	15	3 842 536 564	2xFS2

Material: Plate: Diecast aluminum
Fastening material: Steel; galvanized
Scope of delivery: Incl. fastening material (FS)

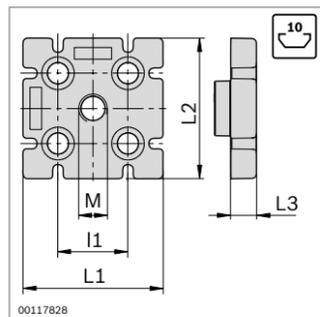
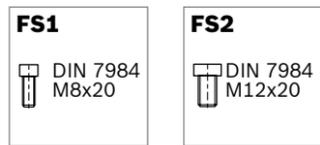
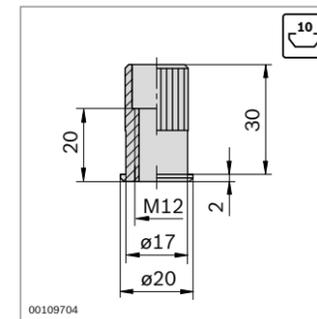
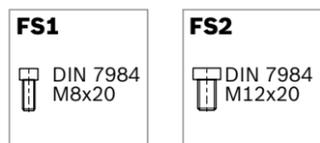


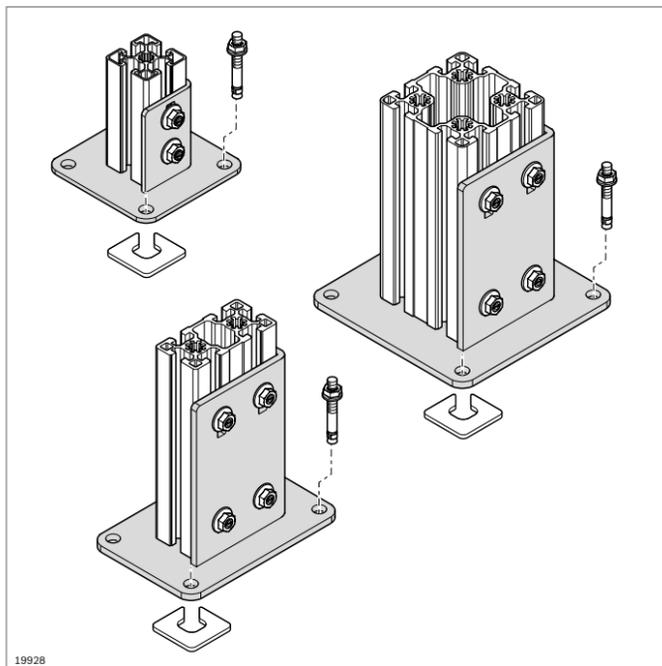
Plate	F (N)	M	L1 (mm)	I1 (mm)	L2 (mm)	L3 (mm)	No.	FS
60x60 8N	10000	M12	60	30	60	11	3 842 536 566	4xFS1
80x80L	10000	M12	80	40	80	15	3 842 529 416	4xFS2
90x90L	20000	M16	90	45	90	15	3 842 511 352	4xFS2
100x100L	20000	M16	100	50	100	15	3 842 529 417	4xFS2

Material: Plate: Diecast aluminum
Fastening material: Steel; galvanized
Scope of delivery: Incl. fastening material (FS)

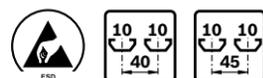


Threaded sleeve	No.
	3 842 504 790

Material: Steel; galvanized



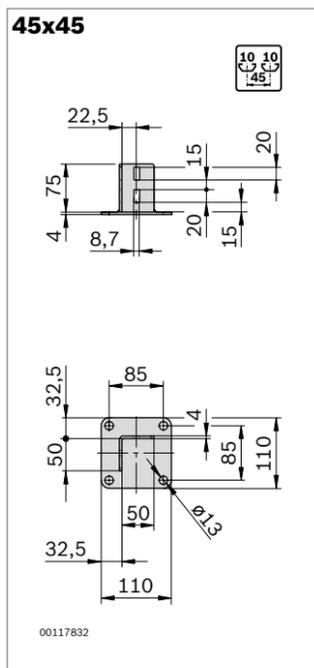
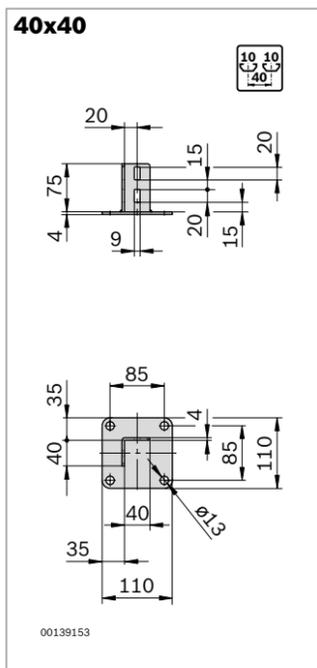
Base plate, steel



- ▶ Used in construction for supporting separating and protective walls
- ▶ Profile finishing: Not required

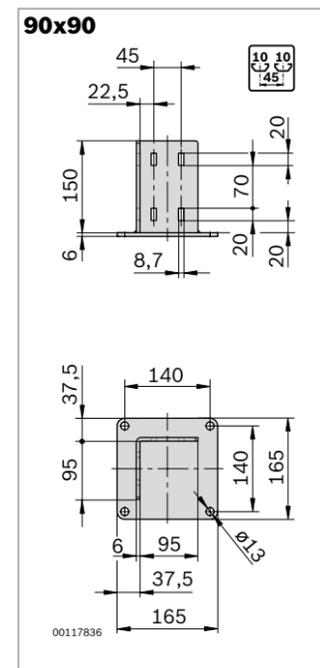
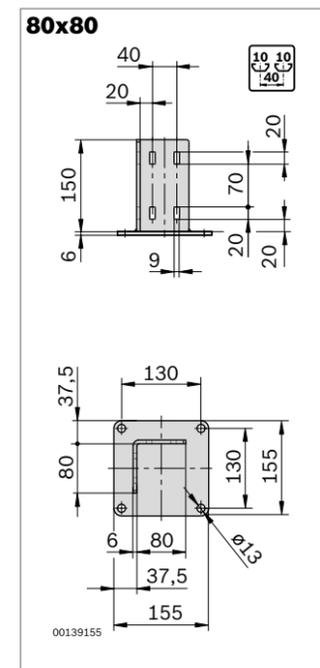
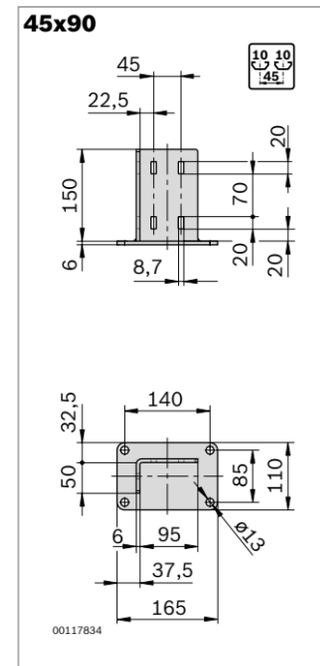
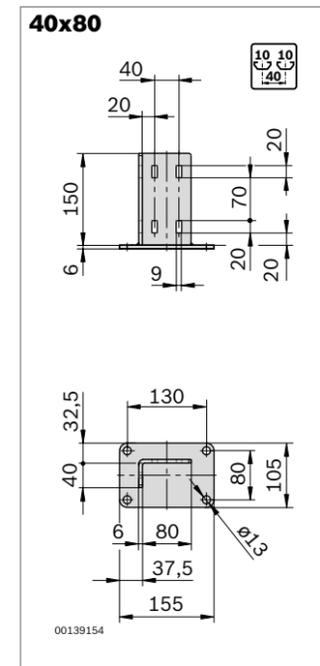
Accessories:

- ▶ 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

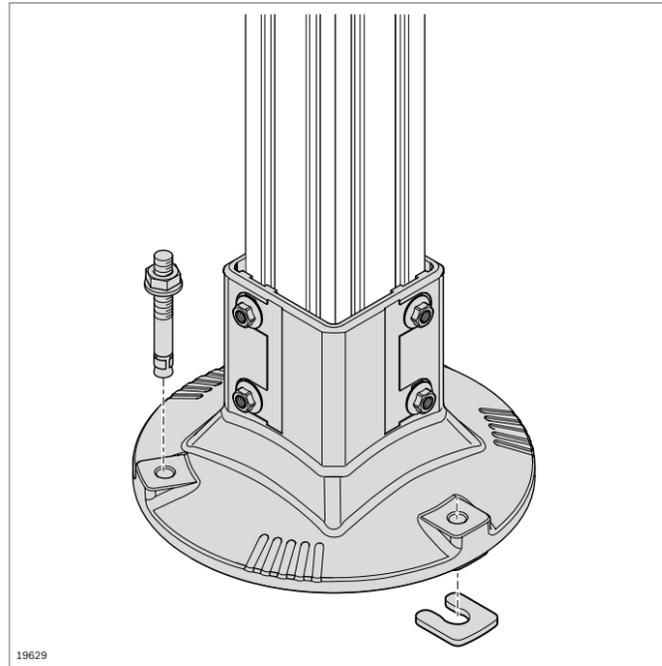


Base plate, steel	ESD No.
40x80	3 842 542 668
45x90	3 842 536 207

Material: Steel; galvanized

Base plate, steel	ESD No.
80x80	3 842 542 669
90x90	3 842 536 746

Material: Steel; galvanized



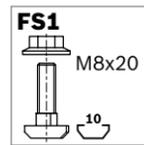
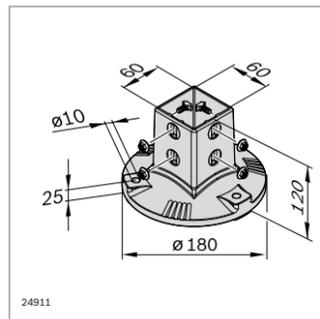
Foot
Floor dowel, washer

Foot

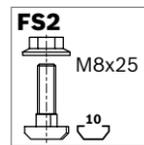
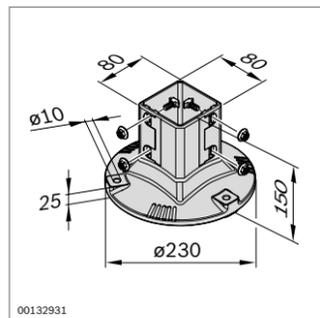
- ▶ For constructing supports made of 80x80L and 60x60 profiles
- ▶ Large standing surface for high stability
- ▶ Easy cleaning thanks to few horizontal surfaces
- ▶ Open on the inside to enable draining of liquids
- ▶ Stop as depth limit for profile (removable)

Required accessories:

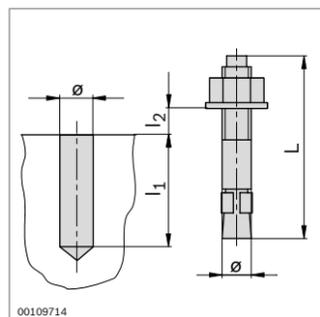
- ▶ Floor dowel **3 842 540 668**
- ▶ Washer **3 842 546 717** or **3 842 546 718**



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	1 3 842 540 173	4xFS2
Material:	Aluminum, silver coating (RAL 9006)	
	Fastening material: Steel; galvanized	
Scope of delivery:	Incl. Fastening material (FS1)	

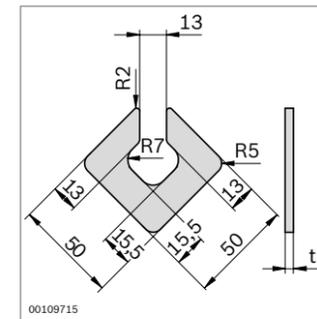
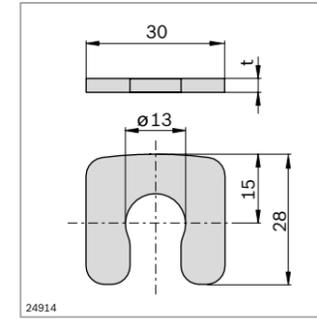


Floor dowel

- ▶ For anchoring the base plates

Floor dowel	Ø	L	l ₁	l _{2 max}	No.
	(mm)	(mm)	(mm)	(mm)	
	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

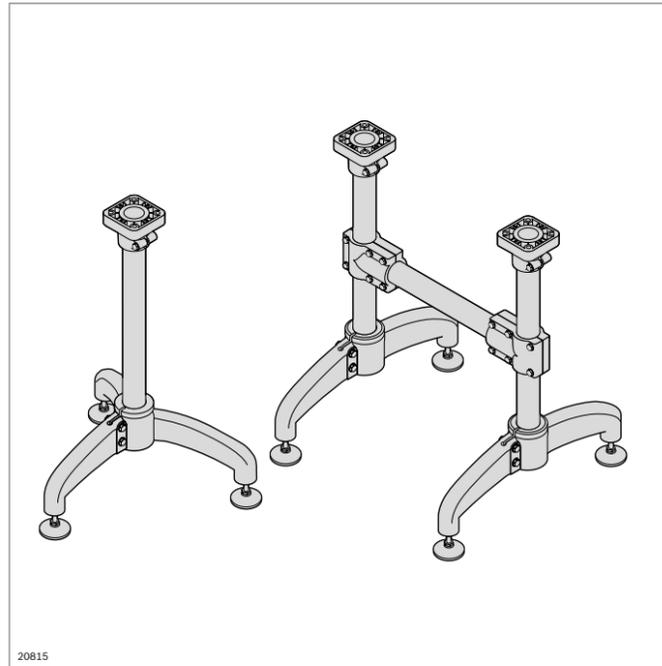
- ▶ For leveling in case of uneven flooring

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

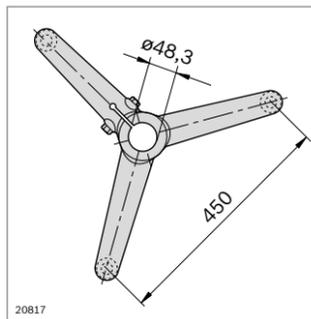
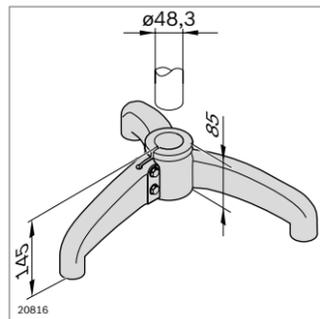
Material: Steel; stainless



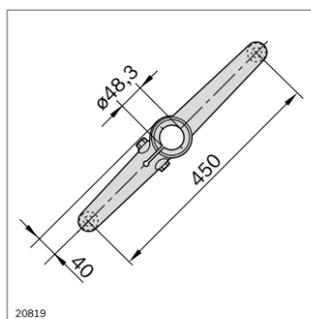
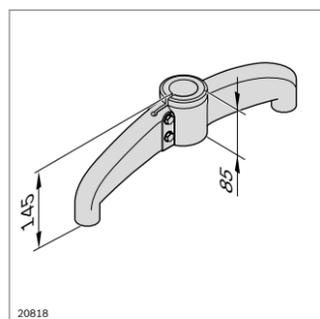
Foot, stainless steel

- ▶ Components for constructing feet and frames using the stainless steel tube D 48.3
- ▶ Tube fastened by clamping
- ▶ Spindle thread M16

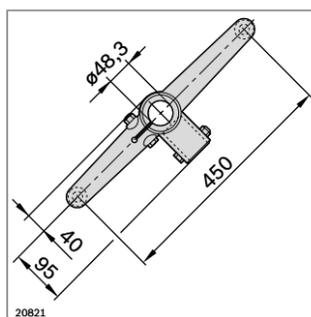
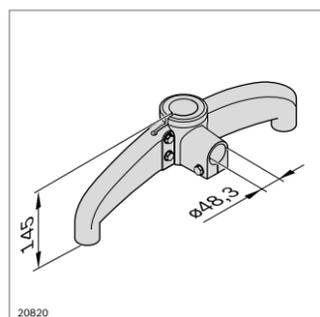
Optional accessories:
Leveling foot **3 842 533 310** (p. 6-5)



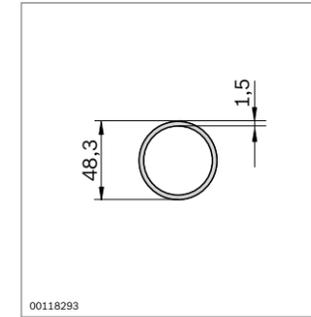
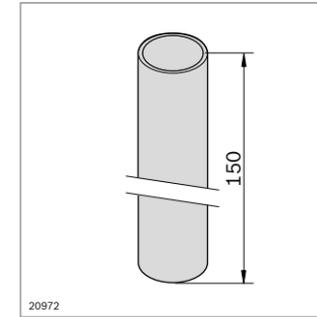
Foot	No.
Tripod	3 842 533 307
Material:	Foot: Stainless steel Fastening material: Stainless steel



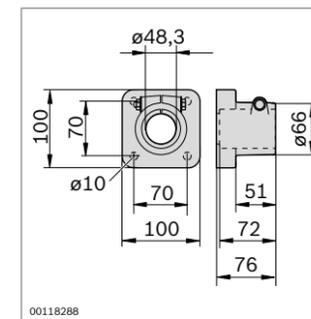
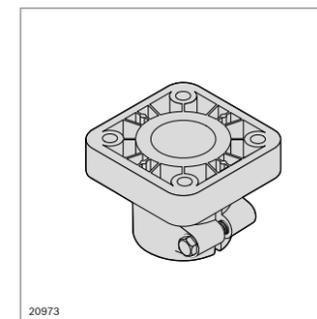
Foot	No.
Bipod	3 842 533 308
Material:	Foot: Stainless steel Fastening material: Stainless steel



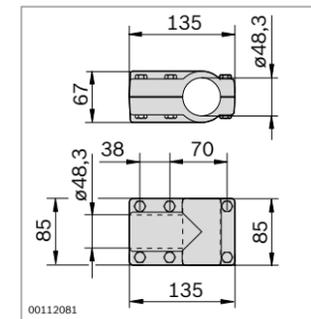
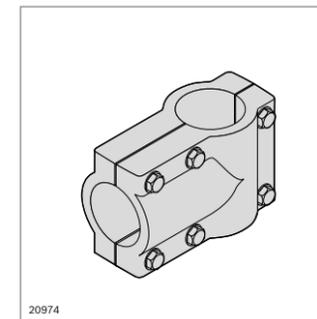
Foot	No.
Bipod with flange	3 842 533 309
Material:	Foot: Stainless steel Fastening material: Stainless steel



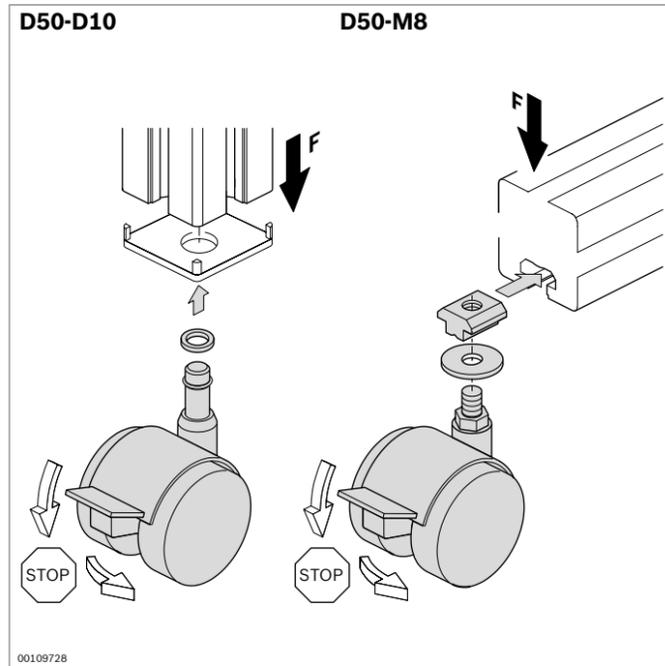
Tube D 48.3	L (mm)	No.
1 pc	200 ... 3000	3 842 993 308 / L
6 pcs	3000	3 842 533 901
Material:	Stainless steel	



Flange	No.
	3 842 533 305
Material:	Flange: PA Fastening material: Stainless steel



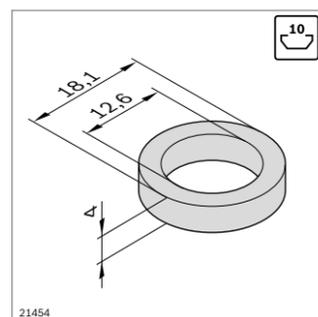
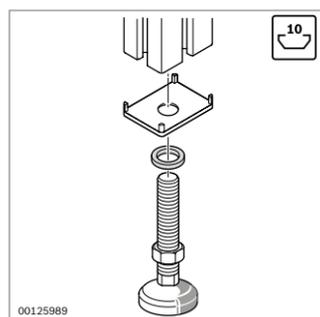
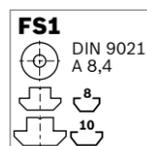
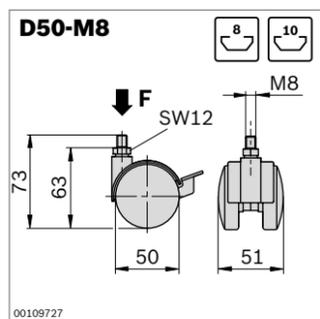
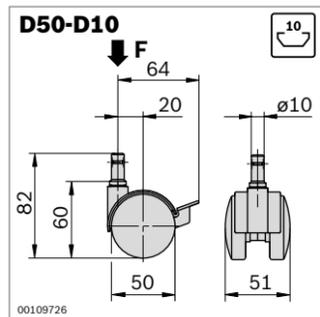
Cross connector	No.
	3 842 533 306
Material:	PA Fastening material, adjustment screw: Stainless steel



Double wheel



- ▶ Attractive double wheel for light applications
- ▶ Made of oil-resistant material
- ▶ Braked double wheel
- ▶ 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 $\leq 10^6 \Omega$
 Material: Housing, wheel, lock: PA; black
 Running surface: PU (not with ESD version)
 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

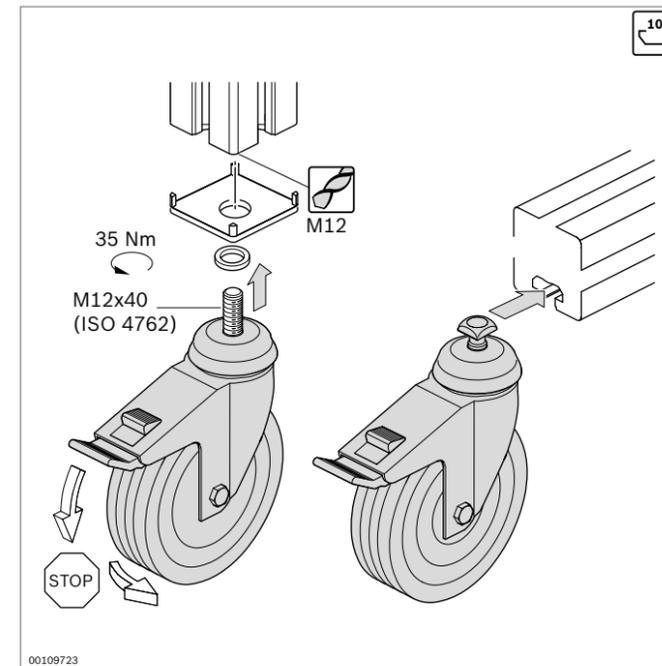
¹⁾ Conduction resistance $\leq 10^6 \Omega$
 Material: Housing, wheel, lock: PA; black
 Running surface: PU (not with ESD version)
 Fastening material: Steel; galvanized

Bearing ring

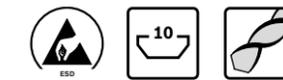
- ▶ For cover caps with hole in the sizes 40x40, 45x45, 50x50 and 60x60
- ▶ For M12 threads
- ▶ To protect the cover caps when tightening accessories

Bearing ring	No.
	100 3 842 555 653

Material: Diecast zinc



Wheel



- ▶ Impressive versatility
- ▶ Wheels with excellent running properties
- ▶ Available as a castor wheel with lock, a castor wheel, and a trestle roller

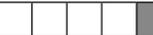
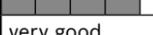
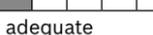
- ▶ Especially gentle on floors
- ▶ Resistant to oil, suitable for workshop floors
- ▶ Suitable for use in clean rooms. Conductive material version in accordance with DIN EN 61340-5-1; conduction resistance 10^3 to $10^8 \Omega$
- ▶ Rubber running surface made of solid rubber with good deformation elasticity. 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 $\leq 10^6 \Omega$

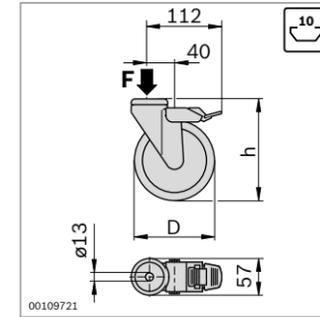
- ▶ Mounting of all wheel in the profile slot or central hole (accessories required)
- ▶ Profile finishing: Thread cutting M12 for assembly in central hole

Required accessories:

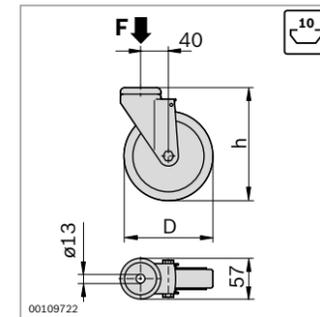
- ▶ Screw M12x40 (ISO 4762) for mounting in central hole ($\cup 35 \text{ Nm}$)
- ▶ Bearing ring if cover cap with hole is used (p. 6-16)

Wheel selection guide

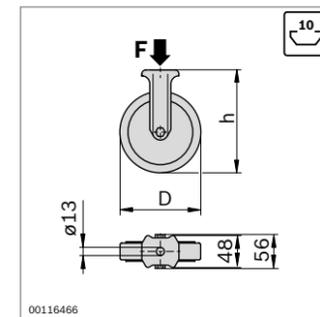
				Clean Room
Tread	Thermoplastic rubber	Polyamide 6	Solid rubber	Polyurethane
ESD	yes / no (either possible)	no	yes	yes
Tread hardness	 85° shore A	 70° shore D	 80° shore A	 94° shore A
Temperature resistance	 -20 °C ... +60 °C	 -25 °C ... 80 °C	 -20 °C ... +60 °C	 -20 °C ... +60 °C
Rolling resistance	 very good	 outstanding	 good	 very good
Travel noise	 good	 satisfactory	 very good	 good
Floor protection	 good	 satisfactory	 very good	 good
Deformation elasticity Tread	 satisfactory	 adequate	 very good	 good
Tread color	gray	black	black	gray
Makes no track marks	yes	yes	no	yes



FS1
M12X30
DIN 985
M12



FS1
M12X30
DIN 985
M12



FS1
M12X30
DIN 985
M12

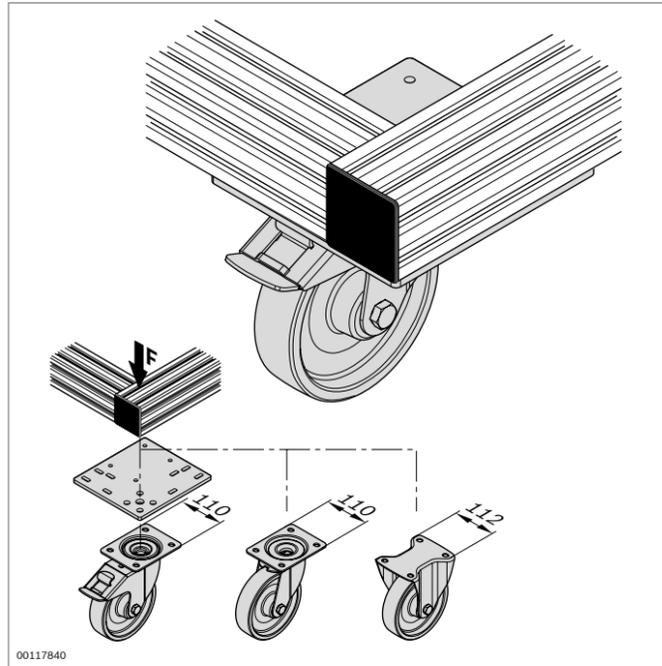
► Castor wheel with lock: Lock prevents the wheel from rolling or turning

Castor 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

Castor 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 roller	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 ≤10⁶ Ω



Heavy-duty wheel



- ▶ Heavy-duty wheel with mounting flange
- ▶ Available as a castor wheel with lock, a castor wheel, and a trestle roller
- ▶ Heavy-duty, particularly suited for workshop applications
- ▶ Wheels with excellent running properties

Required accessories:

- ▶ Screw M10x16 (ISO 4762), washer ISO 7089-10, 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

Castor wheel with lock	F (N)	No.
	3000	3 842 536 736

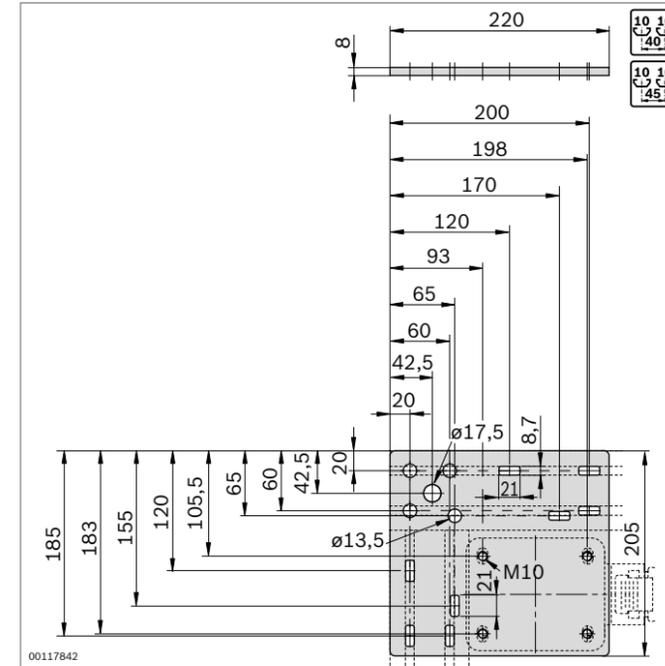
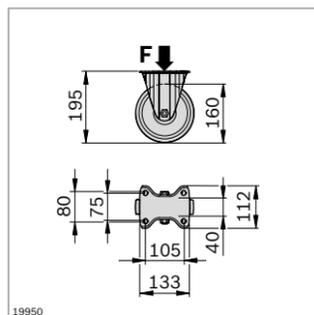
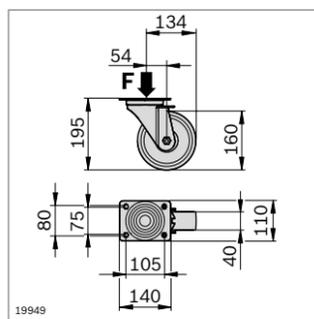
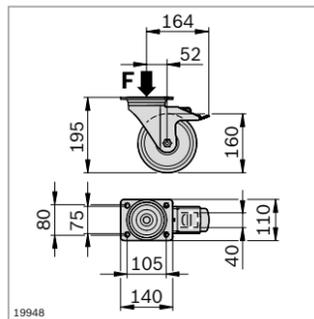
Material: Housing: Steel; galvanized
Wheel: TPU

Castor wheel	F (N)	No.
	3000	3 842 536 737

Material: Housing: Steel; galvanized
Wheel: TPU

Trestle roller	F (N)	No.
	3000	3 842 536 738

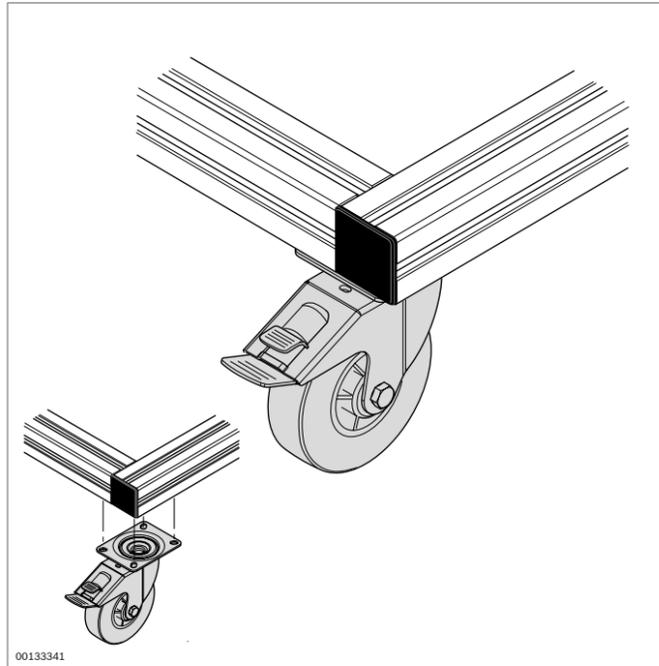
Material: Housing: Steel; galvanized
Wheel: TPU



- ▶ Screw-on plate for attachment to 40 mm or 45 mm profiles

Screw-on plate	No.
	4 3 842 536 701

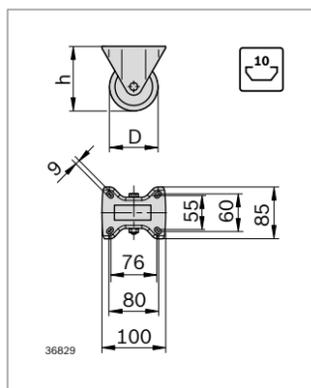
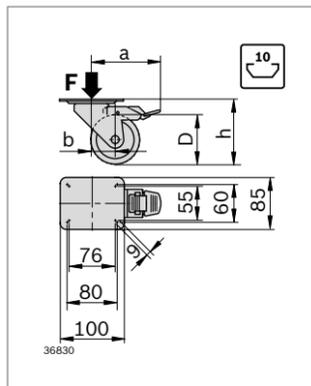
Material: Steel; galvanized



Roller with mounting flange



- ▶ Robust rollers with mounting flange
- ▶ Excellent running properties, particularly suitable for workshop floors
- ▶ Available as a castor wheel with lock and as a trestle roller
- ▶ Castor wheel with lock: Lock prevents the wheel from rolling or turning



Castor wheel	F (N)	D (mm)	h (mm)	a (mm)	b (mm)	No.
	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

Trestle roller	F (N)	D (mm)	h (mm)	No.
	600	100	125	3 842 259 792
	900	125	150	3 842 259 793

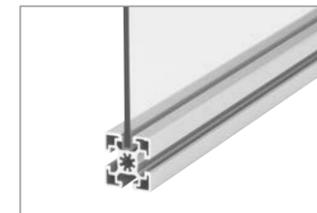
Material: Wheel: Solid rubber
Rims: Polypropylene
Housing: Sheet steel; galvanized

- ▶ For castor and trestle roller

Mounting kit	No.	FS
	3 842 259 794	3xFS1



Mounting of panel elements



Mounting rim profile (p. 7-2)



Mounting rim profile cleanroom (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)



Screw bar profile (p. 7-10)



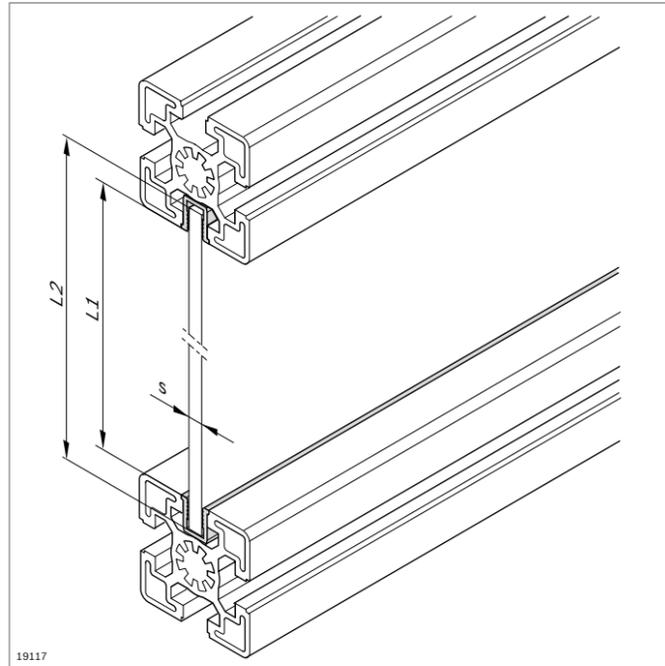
Potential equalizer (p. 7-11)



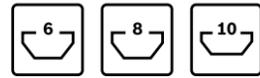
Protective grille profile (p. 7-12)



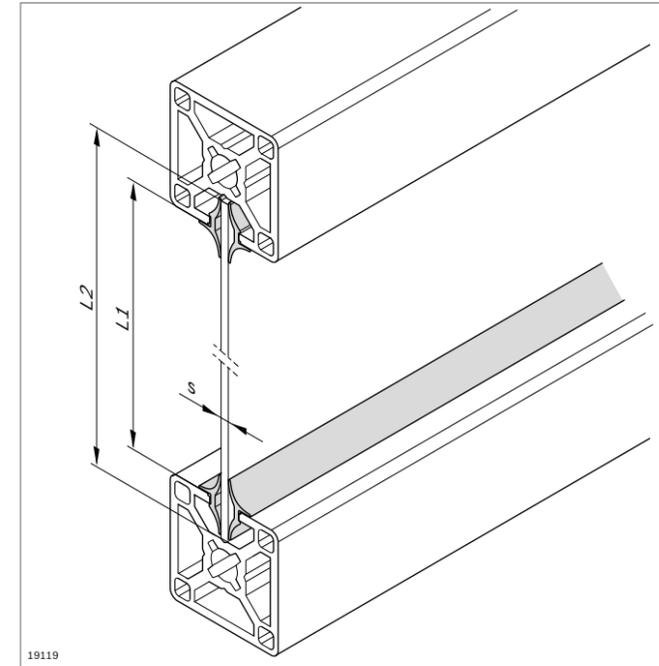
Clamp bushing (p. 7-13)



Mounting rim profile



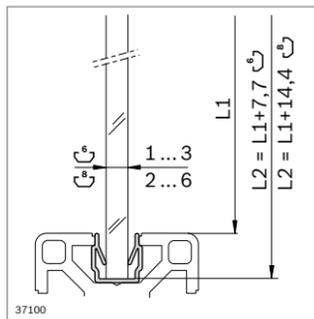
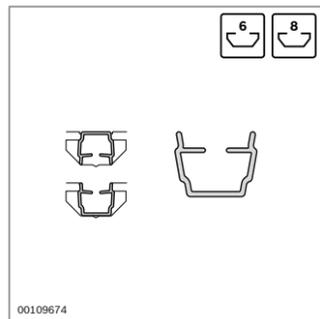
- ▶ For the play-free mounting of panel elements in the profile slot
- ▶ For panel elements up to 6 mm thick
- ▶ Installation during frame assembly
- ▶ Mounting rim profile PP can also be used as a cover profile



Mounting rim profile, cleanroom

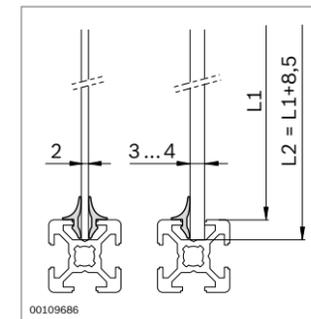
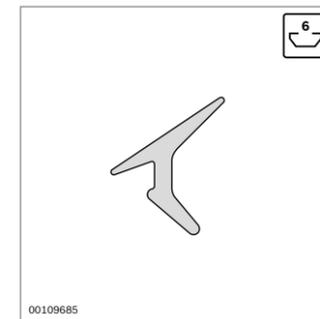


- ▶ For the play-free mounting of panel elements in the profile slot
- ▶ For panel elements with a thickness of 2 ... 8 mm
- ▶ For use on one or two sides of the mounting rim profile, depending on the panel element thickness
- ▶ Installation during profile frame assembly
- ▶ Can be used under cleanroom conditions
- ▶ Checked for emission of volatile organic substances at room temperature, 50 °C and 120 °C, Report No. BO 9903-160



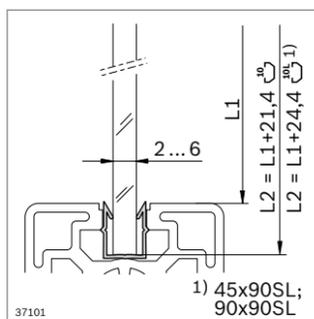
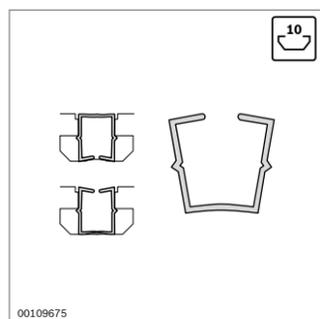
Mounting rim profile	Slot s (mm)	L (mm)	No.
	6	1 ... 3	2000 3 842 555 272
	8	2 ... 6	2000 3 842 555 274

Material: PP; signal gray RAL 7004



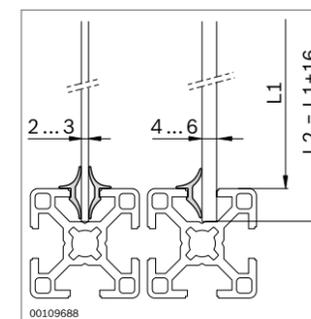
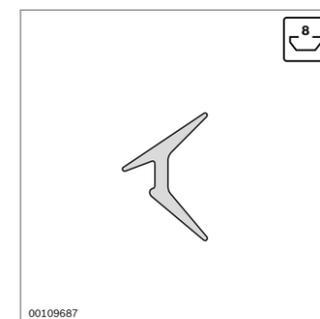
Mounting rim profile, Clean	Slot s (mm)	L (mm)	No.
	6	2 ... 4	10000 3 842 523 493

Material: TPE, light gray RAL 7035



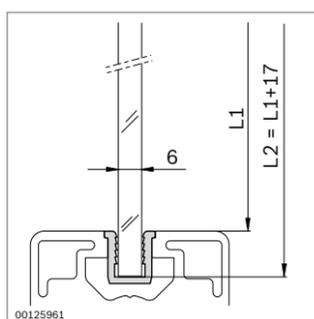
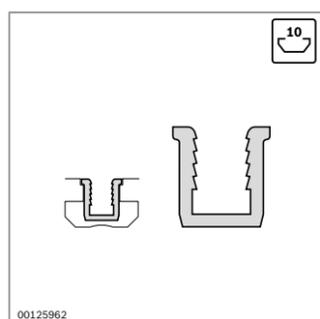
Mounting rim profile	Slot s (mm)	L (mm)	No.
	10	2 ... 6	2000 3 842 555 276

Material: PP; signal gray RAL 7004



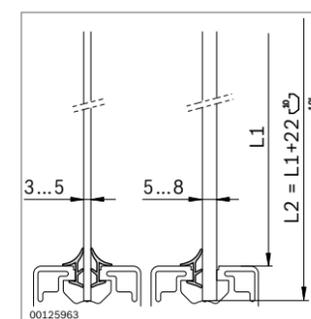
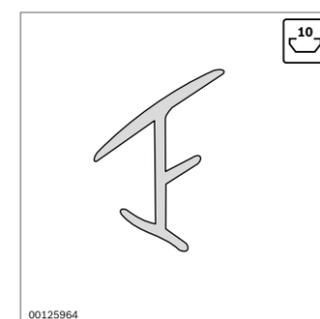
Mounting rim profile, Clean	Slot s (mm)	L (mm)	No.
	8	2 ... 6	10000 3 842 523 494

Material: TPE, light gray RAL 7035



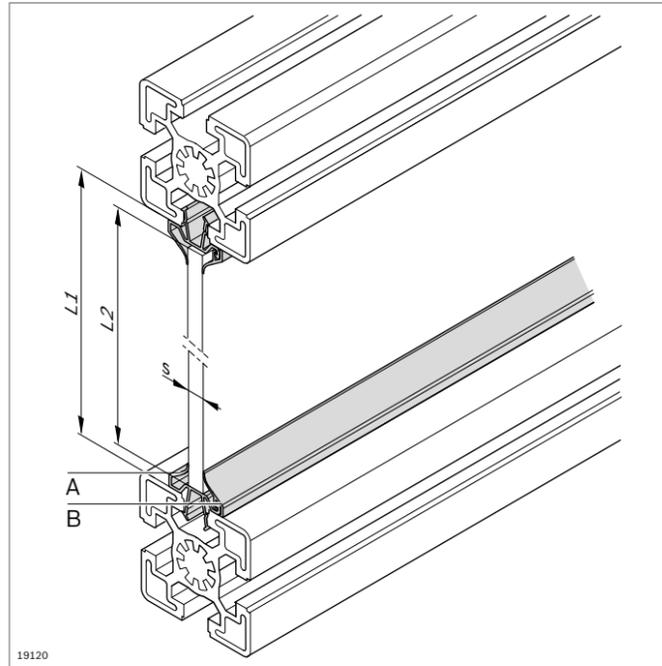
Mounting rim profile	Slot s (mm)	L (mm)	No.
	10	6	2000 3 842 555 270

Material: PE; signal gray RAL 7004

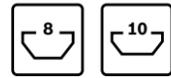


Mounting rim profile, Clean	Slot s (mm)	L (mm)	No.
	10	3 ... 8	10000 3 842 555 282

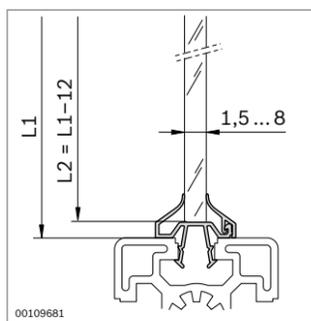
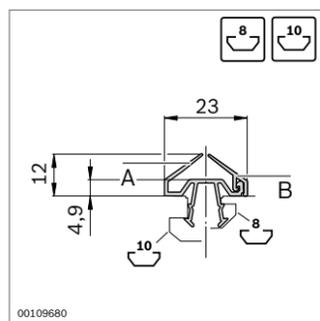
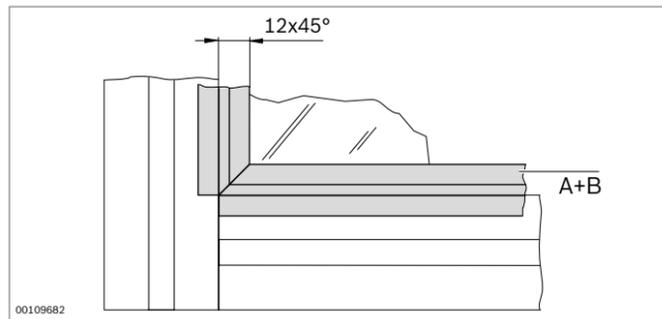
Material: TPE; signal gray RAL 7004



Protective pane profile PVC

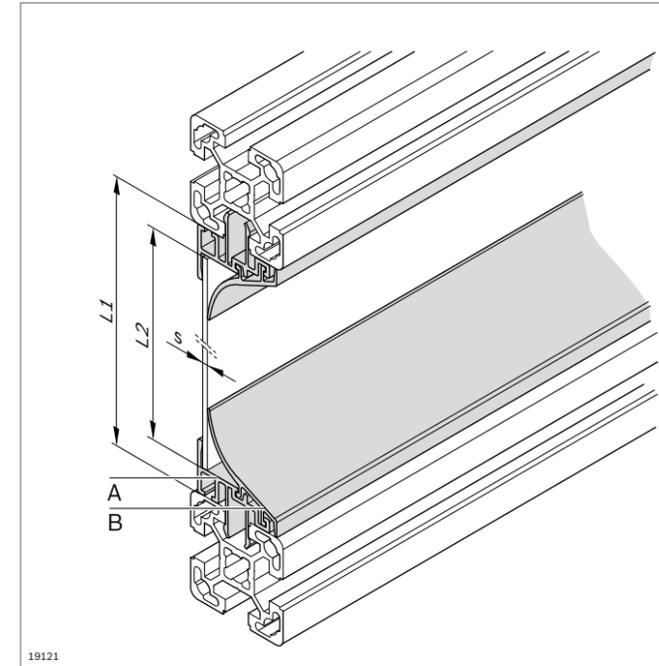


- ▶ For the play-free mounting of panel elements
- ▶ For panel elements with a thickness of 1.5 ... 8 mm
- ▶ For subsequent installation in closed frame constructions
- ▶ Installation of panel elements at center of slot
- ▶ The protective pane profile consists of the basic profile (A) and the clip strip (B)
- ▶ With lip seals to protect the working space from splashing liquids

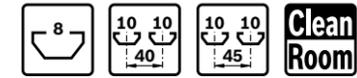


Protective pane profile PVC	Slot	s (mm)	L (mm)	No.
A Basic profile	8, 10	1.5 ... 8	2000	10 3 842 555 284
B Clip strip	8, 10	1.5 ... 8	2000	10 3 842 555 286

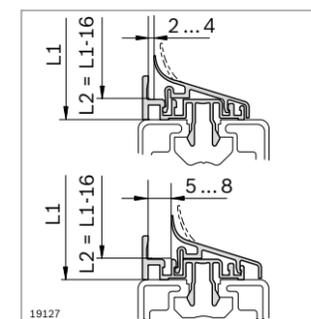
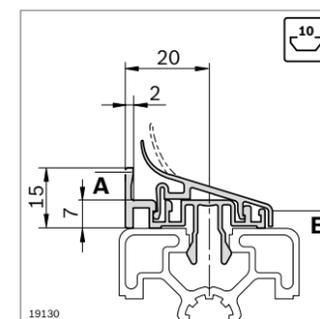
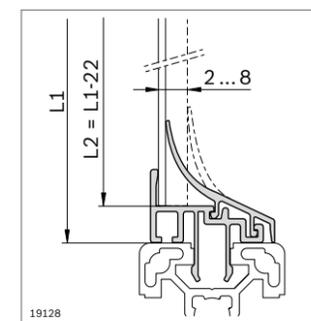
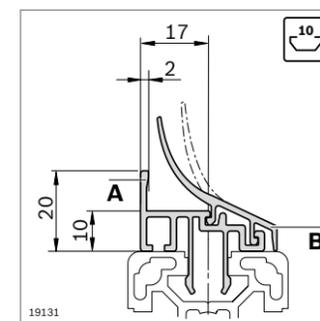
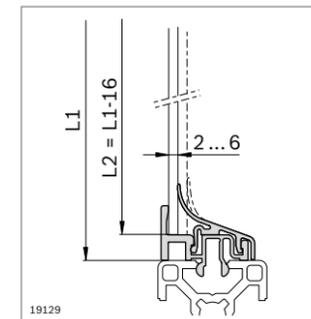
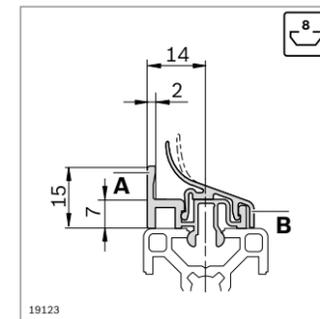
Material: PVC; signal gray RAL 7004



Protective pane profile cleanroom



- ▶ For the play-free mounting of panel elements
- ▶ For panel elements with a thickness of 2 ... 8 mm
- ▶ For subsequent installation in closed frame constructions
- ▶ Installation of panel 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.
- ▶ Can be used under cleanroom conditions
- ▶ Checked for emission of volatile organic substances 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 3 842 555 288

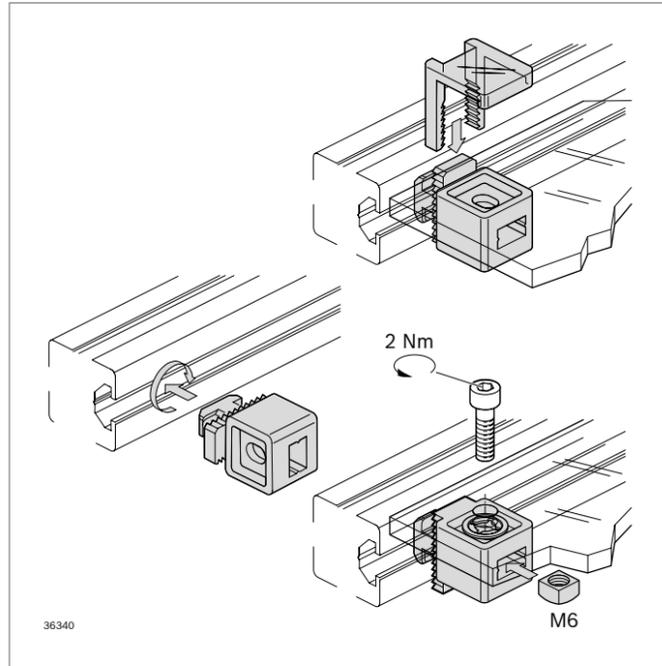
Material: Basic profile: Aluminum; anodized
Clip strip: PP/TPE; signal gray RAL 7004

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 3 842 555 292

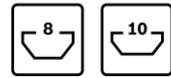
Material: Basic profile: Aluminum; anodized
Clip strip: PP/TPE; signal gray RAL 7004

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 3 842 555 290

Material: Basic profile: Aluminum; anodized
Clip strip: PP/TPE; signal gray RAL 7004



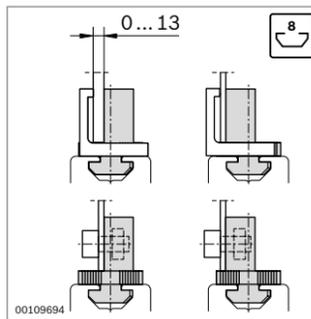
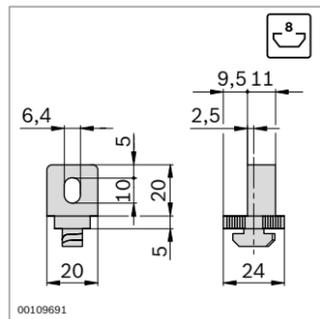
Variofix block



- ▶ For panel elements up to 13 mm thick
- ▶ For subsequent installation in closed frame constructions
- ▶ Asymmetrical form enables fastening of panel elements in two different positions
- ▶ Clamping via snap-in clip or screw fitting with square nut M6 (included in scope of delivery) and screw
- ▶ Retainer ring for connecting the screw to the panel element (Machinery Directive 2006/42/EC)

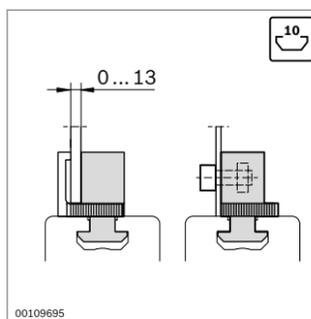
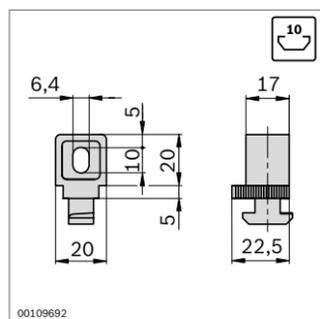
Accessories:

- ▶ Variofix remover (p. 14-6)
- ▶ Screw for fitting with square nut



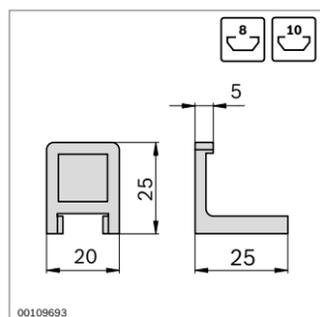
Variofix block	Slot	No.
	8 10	3 842 548 832

Material: PP; signal gray RAL 7004
 Square nut: Steel; galvanized
 Scope of delivery: Incl. square nut



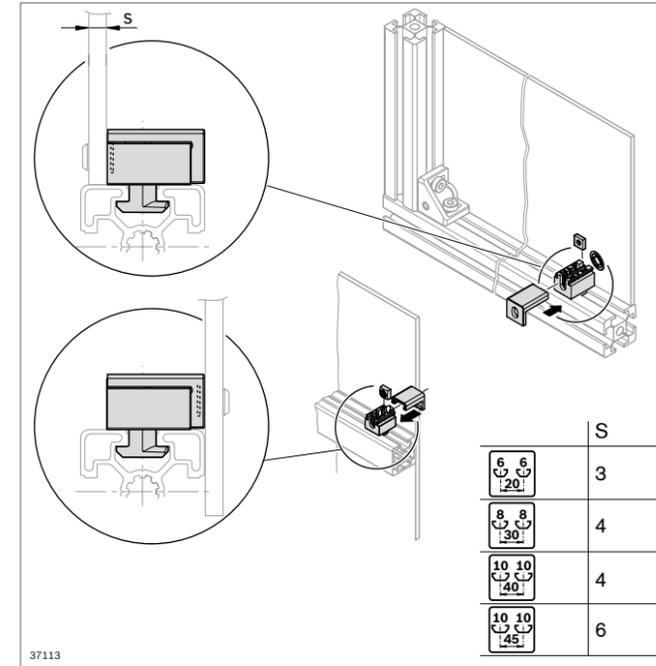
Variofix block	Slot	No.
	10 10	3 842 548 834

Material: PP; signal gray RAL 7004
 Square nut: Steel; galvanized
 Scope of delivery: Incl. square nut M6, retainer ring M6

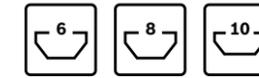


Snap-in clip	No.
	10 3 842 184 738

Material: PA; colorless



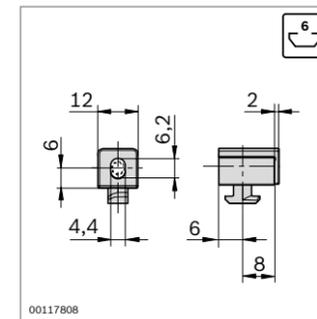
Variofix block S



- ▶ For virtually gap-free panel element mounting
- ▶ For subsequent installation in closed frame constructions
- ▶ The asymmetrical design and cover cap enable variable mounting positions for the panel elements: flush with the profile edge or situated in front of the profile
- ▶ Retainer ring for connecting the screw to the panel element (Machinery Directive 2006/42/EC)

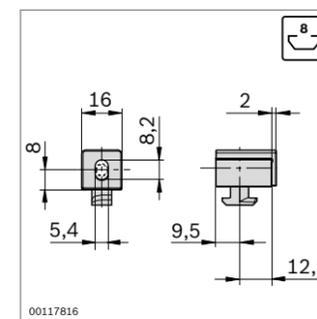
Required accessories:

Screw for fastening the panel element



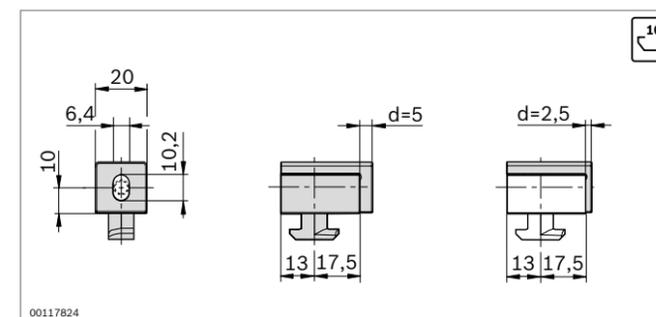
Variofix block S	Slot	No.
	6 10	3 842 548 836

Material: PP; signal gray RAL 7004
 Square nut: Steel; galvanized
 Scope of delivery: Incl. square nut M4, cap



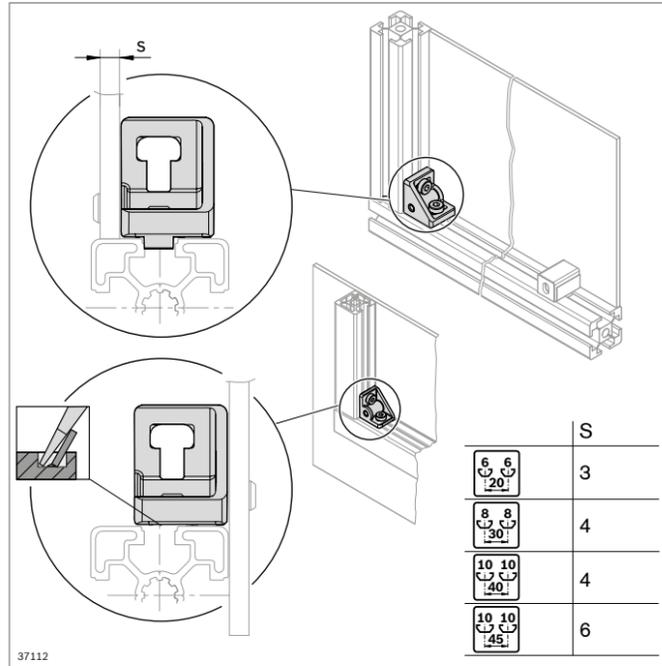
Variofix block S	Slot	No.
	8 10	3 842 548 838

Material: PP; signal gray RAL 7004
 Square nut: Steel; galvanized
 Scope of delivery: Incl. square nut M5, cap, retainer ring



Variofix block S	Slot	No.
	10 10	3 842 548 840

Material: PP; signal gray RAL 7004
 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 panel elements
- ▶ For subsequent installation in closed frame constructions
- ▶ Panel 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 panel element

Optional accessories:

- ▶ Variofix block S (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

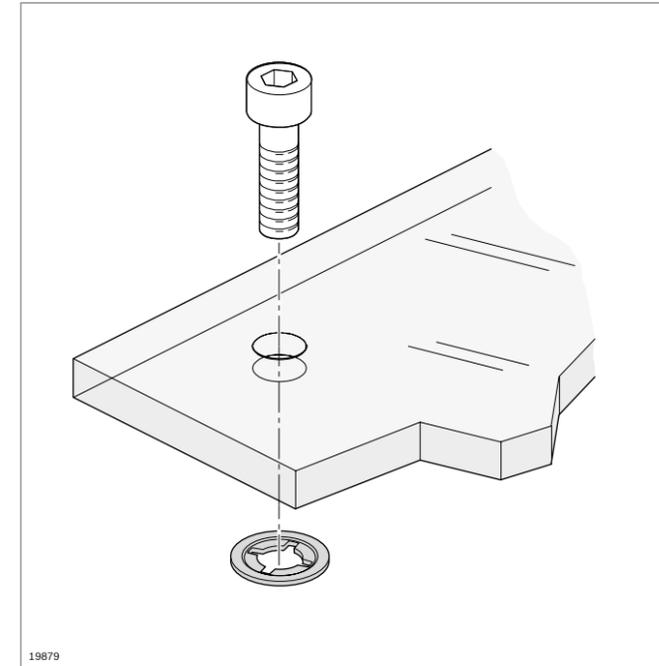
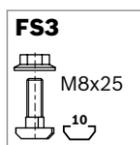
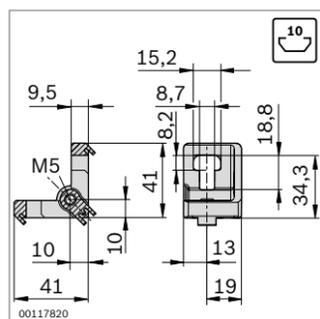
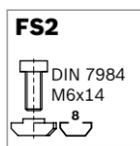
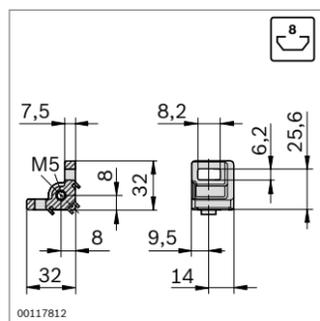
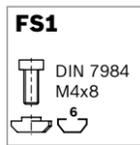
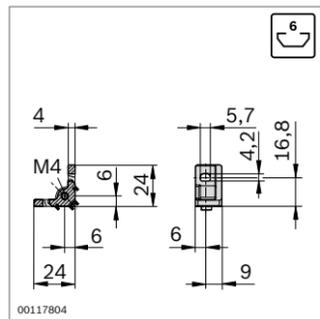
Material: Diecast aluminum
Fastening material: Steel; galvanized
Scope of delivery: Set incl. fastening material (FS)

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)

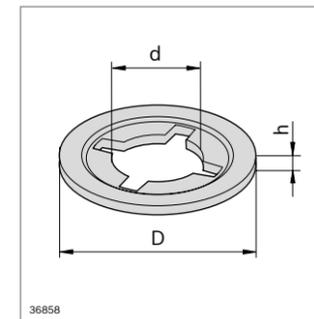
Bracket S	Slot	No.	FS
40/45	10	20	3 842 536 491
40/45 set	10	1	3 842 536 672 2xFS3

Material: Diecast aluminum
Fastening material: Steel; galvanized
Scope of delivery: Set incl. fastening material (FS)



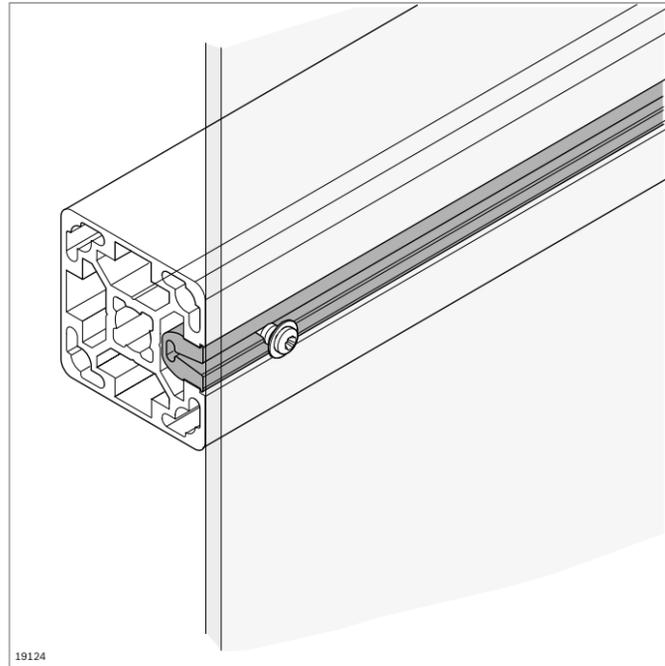
Retainer ring

- ▶ Secures the fastening screw to the panel element
- ▶ For use with all Variofix blocks, but not for the S bracket
- ▶ Can be retrofitted
- ▶ For various thread sizes

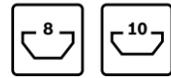


Retainer ring	D (mm)	d (mm)	h (mm)	No.
M4	9.0	3.4	1.0	100 3 842 542 328
M5	10.0	4.5	1.0	100 3 842 542 329
M6	12.5	5.5	1.5	100 3 842 542 330

Material: PA; black

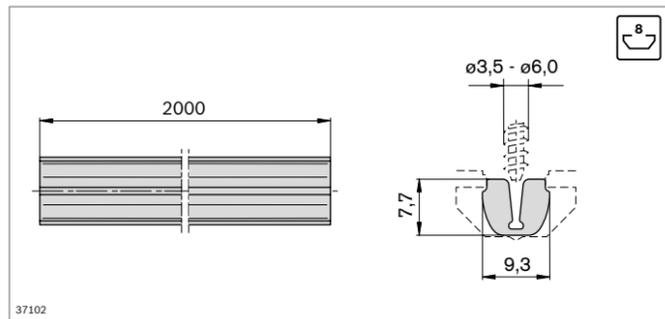


Screw bar profile



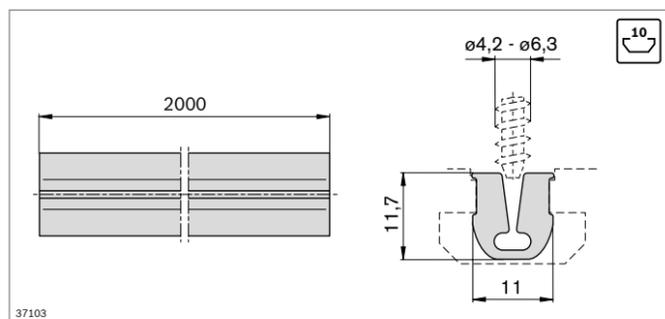
- ▶ Screw bar profile for fastening panel elements using commercially available sheet metal screws
- ▶ Clipping the screw bar profile into the profile slot
- ▶ Low-cost connection element

Required accessories:
Sheet metal screws for fastening panel elements



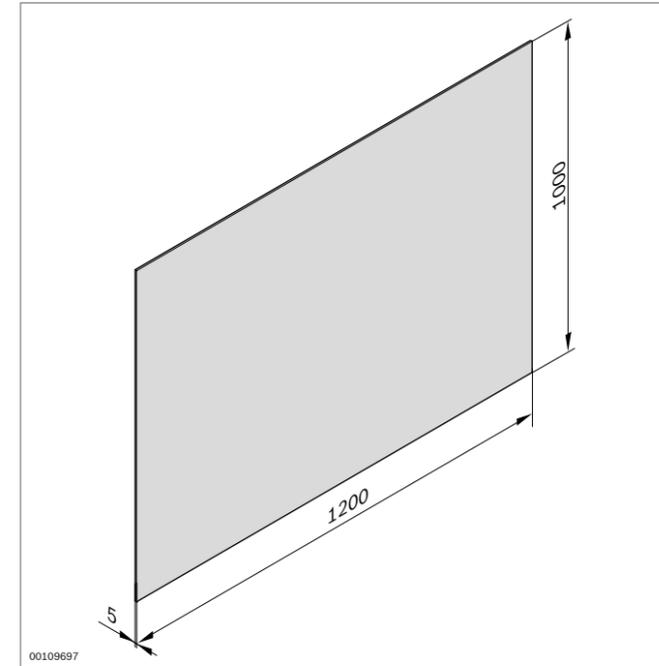
Screw bar profile	Slot	L (mm)	No.
	8	2000	3 842 555 550

Material: PVC; signal gray RAL 7004



Screw bar profile	Slot	L (mm)	No.
	10	2000	3 842 555 552

Material: PVC; signal gray RAL 7004



Universal plate

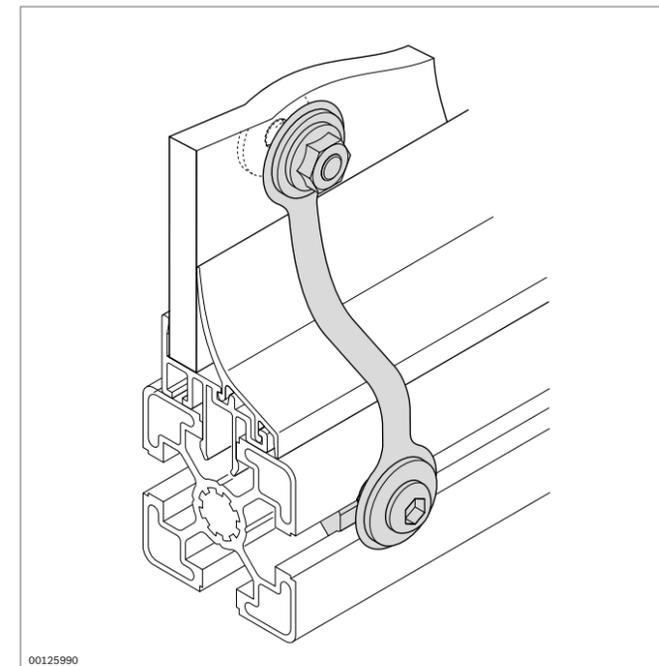


- ▶ For the construction of trays, material shuttles, or privacy shields on tables or frames

Accessories:
Frame profile, mounting of panel elements

Universal plate	ESD No.
PP	3 842 516 837
SB	3 842 516 838

Material: PP: gray, smooth on one side, grained on the other
SB: black, smooth on both sides



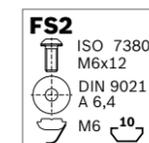
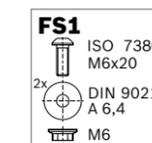
Potential equalizer

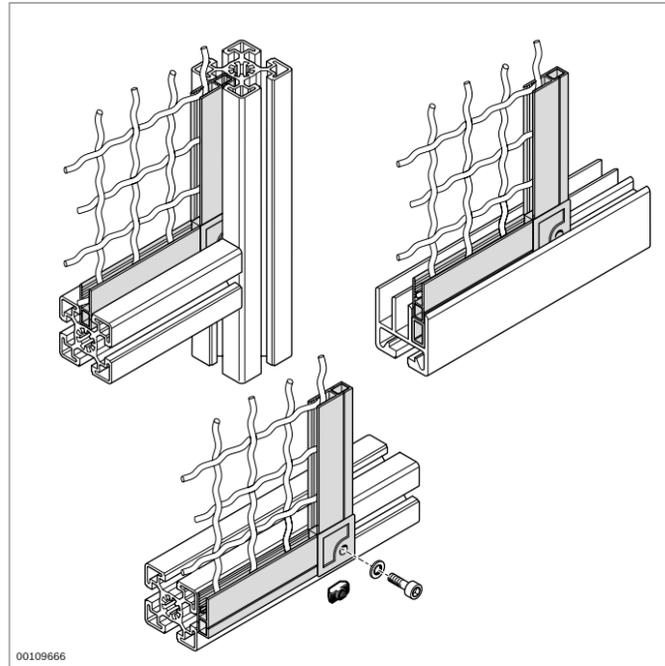


- ▶ Potential equalizer for creating electrostatic conduction between panel elements and strut profiles

Potential equalizer	ESD	No.	FS
	10	3 842 536 148	FS1, FS2

Material: Strip: Steel, stainless
Fastening material: Steel; galvanized
Scope of delivery: Incl. fastening material (FS)





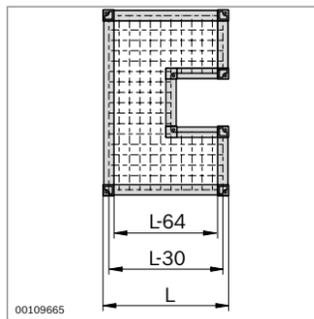
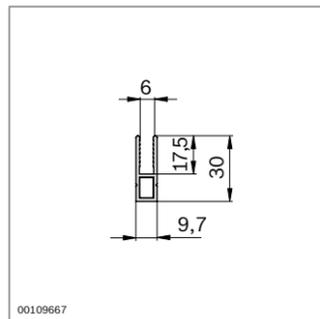
Protective grille profile



- ▶ For constructing frames for woven wire grilles or panel elements
- ▶ For woven wire grilles with a wire diameter up to 3.1 mm
- ▶ For panel elements up to 6 mm thick
- ▶ Screw fitting of frame to the outside of strut profiles (subsequent installation)
- ▶ Insertion of frame into the slot of a strut profile or a sliding door profile Al 45
- ▶ Corner pieces for inner and outer corners

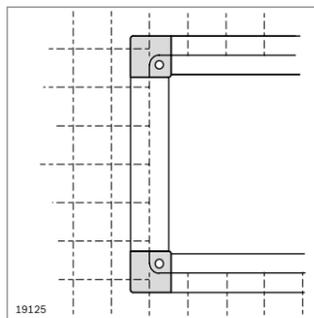
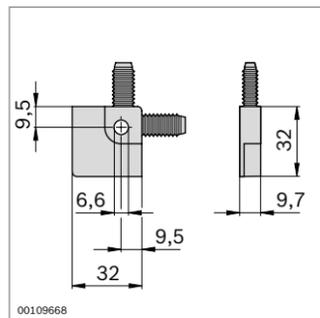
Optional accessories:

- ▶ T-nut M6 (p. 3-4)
- ▶ Screw M6



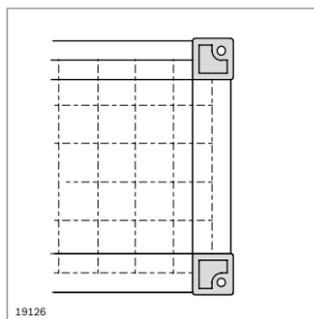
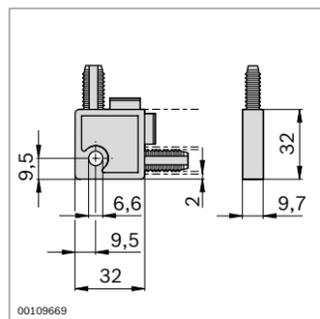
Protective grille profile	L (mm)	No.
	3000 ¹⁾	20 3 842 305 766

¹⁾ Due to the (anodic oxidation) contact points produced in the manufacturing process, supplied in profile length of 3100 mm
Material: Aluminum, black anodized



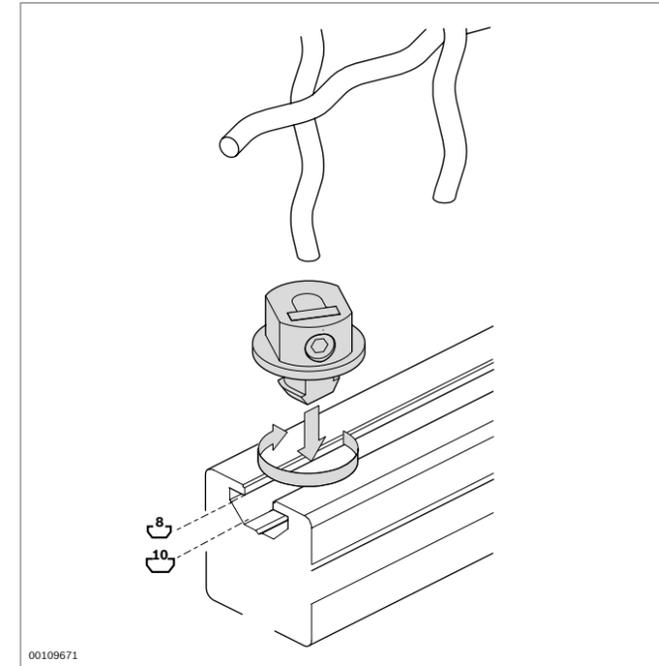
Inner corner piece	No.
	20 3 842 305 768

Material: PA; black



Outer corner piece	No.
	20 3 842 305 767

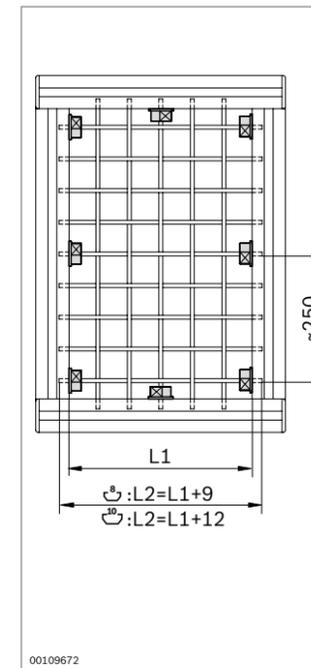
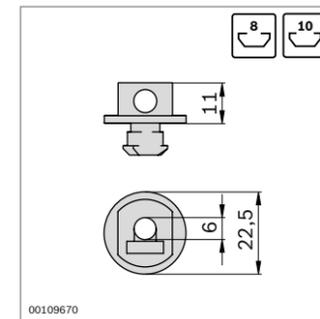
Material: PA; black



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
- ▶ Low-cost connection element
- ▶ Rattle-free mounting



Clamp bushing	Slot	No.	FS
	8, 10	100 3 842 515 244	FS1

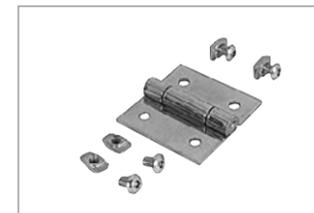
Material: Diecast zinc
Fastening material: Steel; galvanized

FS1
EN ISO 4027 M6x10
DIN 562 M6-04

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, 8-15)



Door lock (p. 8-12)



Door lock for EcoSafe sliding doors (p. 8-13)



Door lock for swing doors (p. 8-14, 8-17)



Mortise lock for swing doors (p. 8-21)



Bow-type handle (p. 8-23)



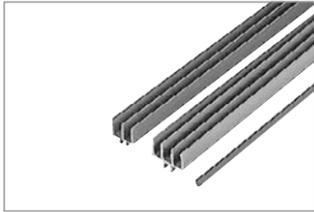
Safety handle (p. 8-24)



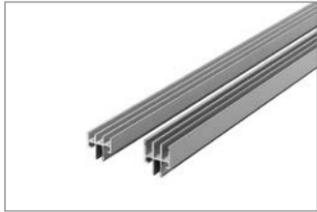
Sealing strip (p. 8-25)
Sealing profile (p. 8-26)



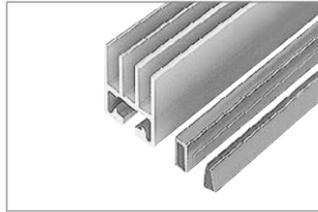
Slider (p. 8-27)



Sliding door profile PVC (p. 8-28)



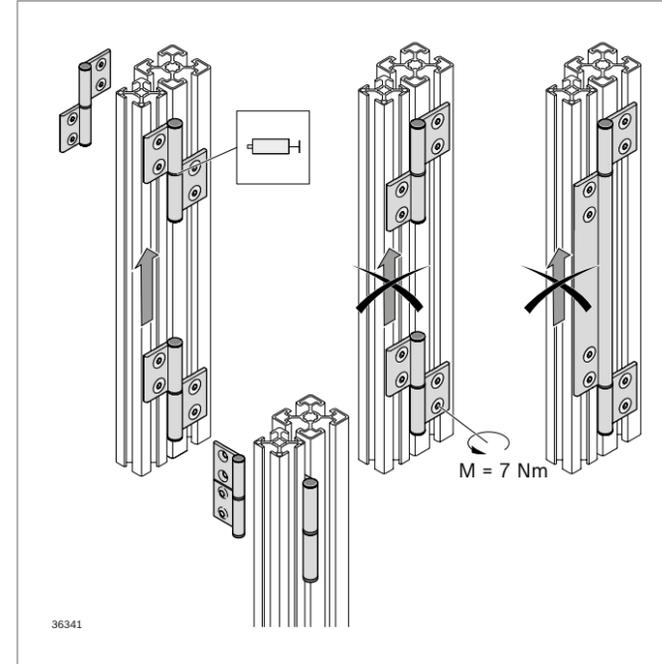
Sliding door profile Al Clip (p. 8-29)



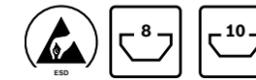
Sliding door profile Al 45 (p. 8-30)



Edge protector, door handle profile (p. 8-32)



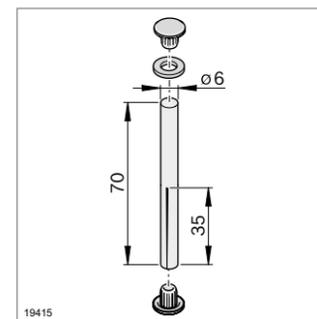
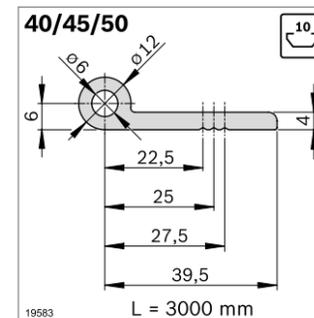
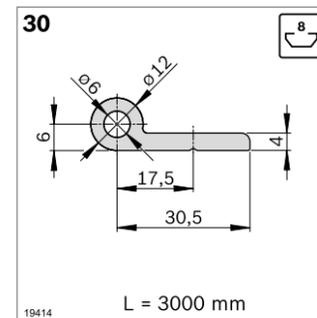
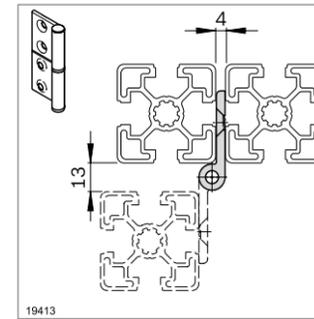
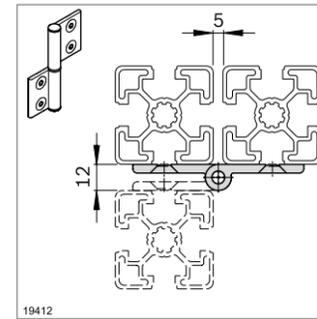
Hinge profile



- ▶ 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 panel 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 holes 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)



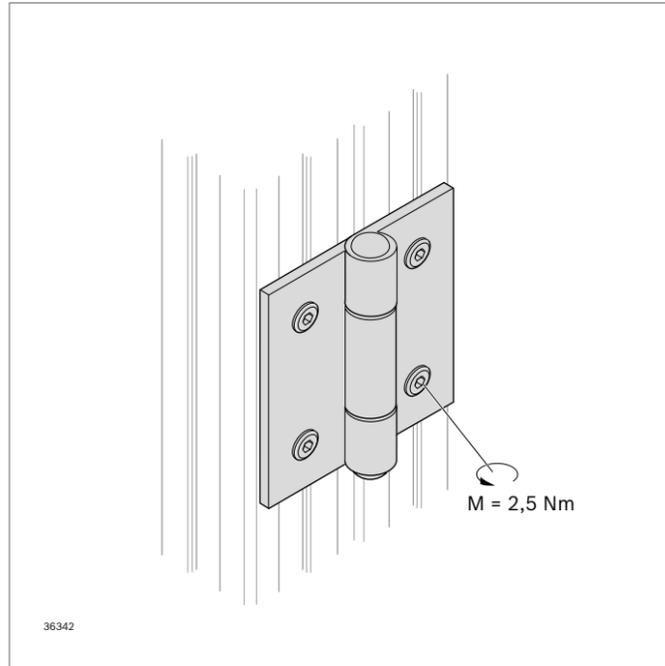
Hinge profile	L (mm)	No.
30	3000 ¹⁾	10 3 842 543 371
40/45/50	3000 ¹⁾	10 3 842 543 372

¹⁾ Due to the (anodic oxidation) contact points produced in the manufacturing process, supplied in profile length of 3100 mm
Material: Aluminum; anodized

Slot	F _{max}
8	300 N
10	300 N

Hinge pins	No.
	10 3 842 544 661

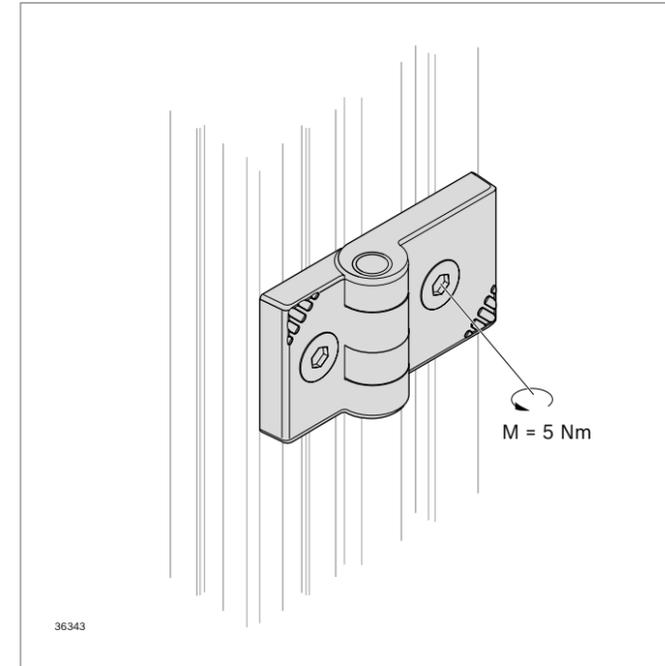
Material: Grooved pin: Steel; galvanized
Washer, cover cap: TPE
Scope of delivery: Incl. grooved pin, 2 x cover cap, washer



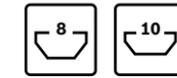
Hinge



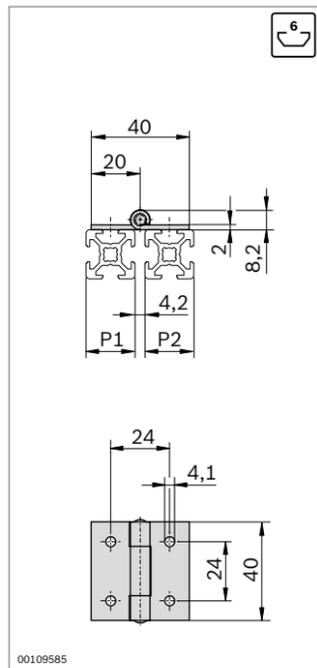
- ▶ Assembly possible on solid panel elements
- ▶ For small doors and flaps
- ▶ Steel hinge for profiles with 6 mm slot



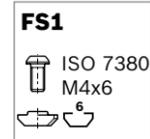
Hinge, plastic



- ▶ Plastic hinge for profiles with 8 mm or 10 mm slot
- ▶ Assembly possible on solid panel elements
- ▶ Centering bolts for easing mounting and as an anti-torsion element

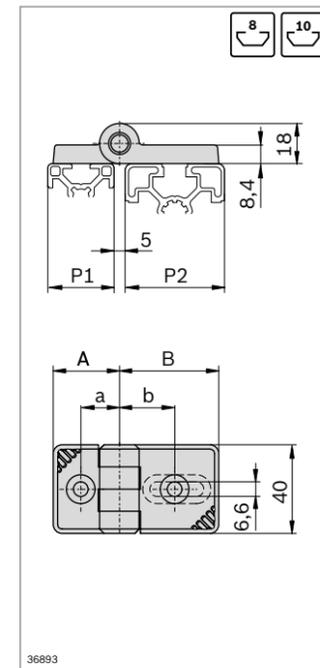


Slot	F_{max}
6	300 N

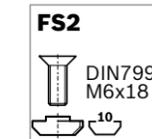
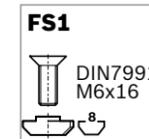


Hinge	P1 (mm)	P2 (mm)	ESD	No.	FS
	20	20		2 3 842 535 684	4xFS1

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



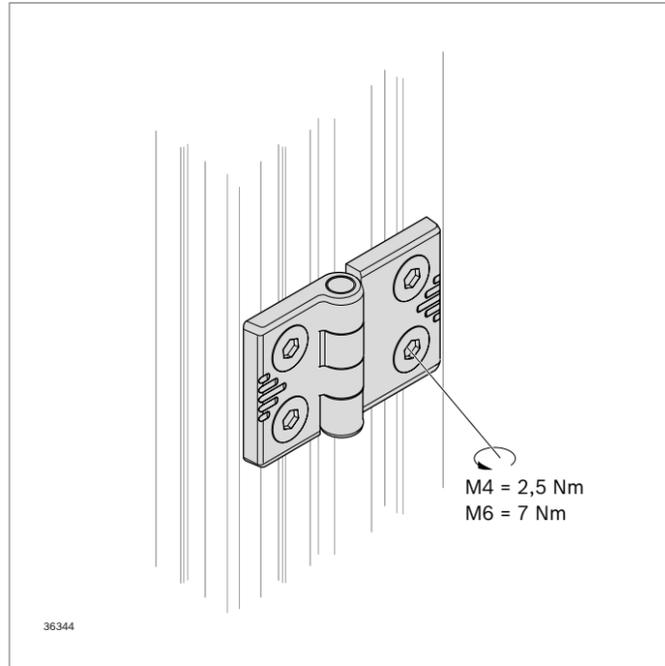
Slot	F_{max}
8	150 N
10	150 N



Hinge, plastic	P1 (mm)	P2 (mm)	No.	FS
	30	30	2 3 842 554 458	2xFS1
	30	40/50	2 3 842 554 460	1xFS1, 1xFS2
	30	45	2 3 842 554 462	1xFS1, 1xFS2
	30	60	2 3 842 554 464	1xFS1, 1xFS2
	40/50	40/50	2 3 842 554 466	2xFS2
	45	45	2 3 842 554 468	2xFS2
	45	60	2 3 842 554 470	2xFS2
	60	60	2 3 842 554 472	2xFS2

Material: PA; signal gray
Hinge axle: Steel; galvanized
Fastening material: Steel; galvanized
Scope of delivery: Incl. fastening material (FS)

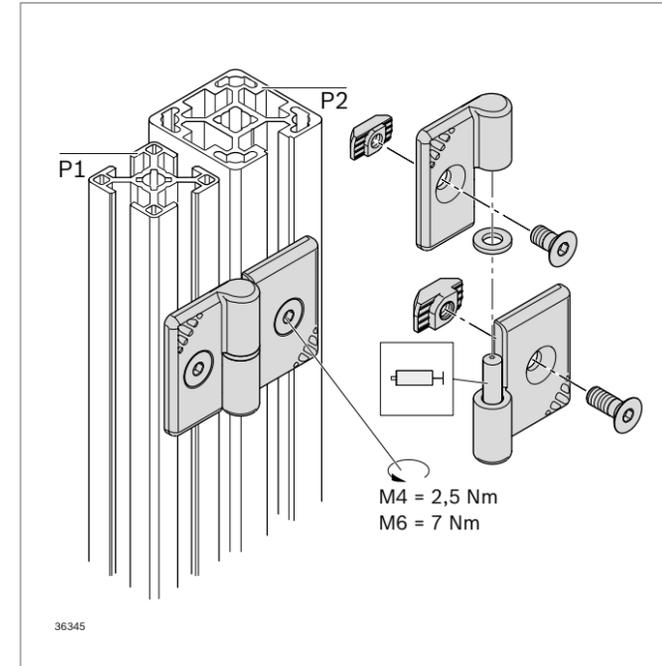
P1/P2 (mm)	A/B (mm)	a/b (mm)
30	30	17.5
40	39	22.5
45	45	25.0
50	39	27.5
60	60	32.5



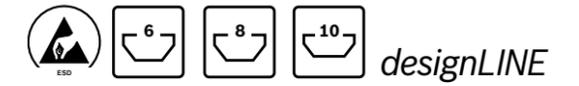
Hinge, aluminum



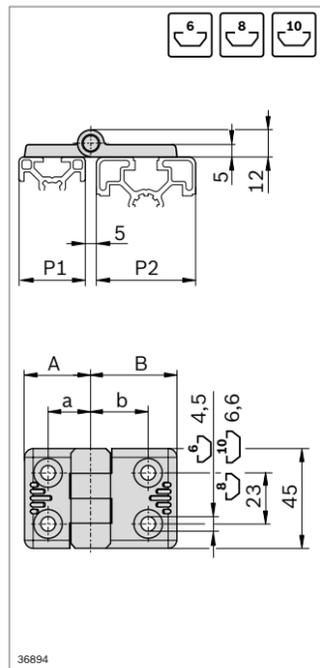
- ▶ Aluminum hinge for all slot systems
- ▶ Assembly possible on solid panel elements
- ▶ High-quality version
- ▶ Conductive version
- ▶ Suitable for use under cleanroom conditions thanks to wear-resistant guide bushings



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 anti-torsion element



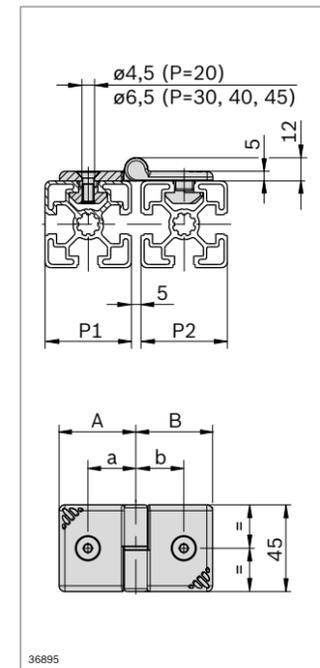
Slot	F_{max}
6	300 N
8	300 N
10	300 N

FS1	FS2
DIN7991 M4x8	DIN7991 M6x12
DIN7991 M6x16	

Hinge, aluminum	P1 (mm)	P2 (mm)	ESD	No.	FS
	20	20	⚡	3 842 544 525	4xFS1
	20	30	⚡	3 842 544 526	2xFS1, 2xFS2
	30	30	⚡	3 842 544 527	4xFS2
	30	40	⚡	3 842 544 528	2xFS2, 2xFS3
	30	45	⚡	3 842 544 529	2xFS2, 2xFS3
	40	40	⚡	3 842 544 530	4xFS3
	45	45	⚡	3 842 544 531	4xFS3

Material: Diecast aluminum; nickel-plated
Fastening material: Steel; galvanized
Scope of delivery: Incl. fastening material (FS)

P1/P2 (mm)	A/B (mm)	a/b (mm)
20	20	12.5
30	28	17.5
40	37	22.5
45	40	25.0



Slot	F_{max}
6	300 N
8	300 N
10	300 N

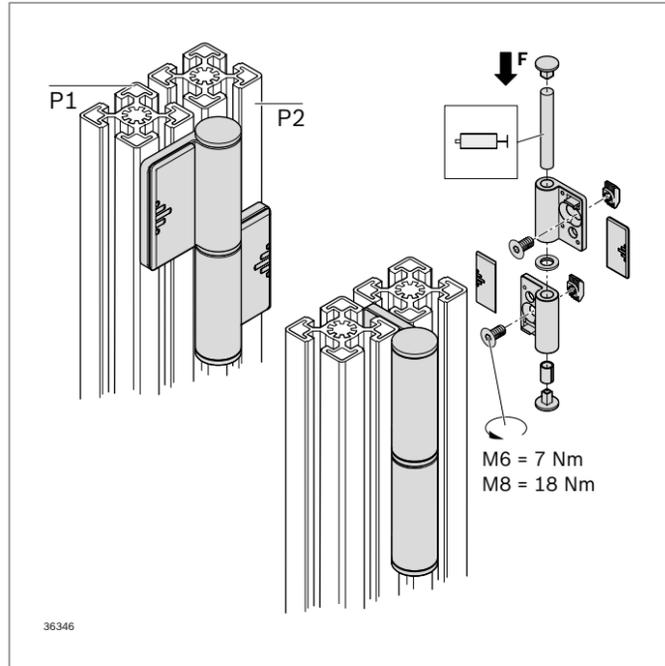
FS1	FS2
DIN7991 M4x8	DIN7991 M6x12
DIN7991 M6x16	DIN 125 A6,4

P1/P2 (mm)	A/B (mm)	a/b (mm)
20	20	12.5
30	28	17.5
40	37	22.5
45	40	25.0

LIFTOFF hinge	P1 (mm)	P2 (mm)	ESD	No.	FS
right 	20	20		3 842 543 334	2xFS1, FS4
	20	30		3 842 543 333	FS1, FS2, FS4
	30	30		3 842 543 332	2xFS2, FS4
	30	40		3 842 543 331	FS2, FS3, FS4
	30	45		3 842 543 330	FS2, FS3, FS4
left 	40	40		3 842 543 329	2xFS3, FS4
	45	45		3 842 543 328	2xFS3, FS4
	20	20		3 842 543 327	2xFS1, FS4
	20	30		3 842 543 326	FS1, FS2, FS4
	30	30		3 842 543 325	2xFS2, FS4
	30	40		3 842 543 324	FS2, FS3, FS4
	30	45		3 842 543 323	FS2, FS3, FS4
	40	40		3 842 543 322	2xFS3, FS4
	45	45		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)

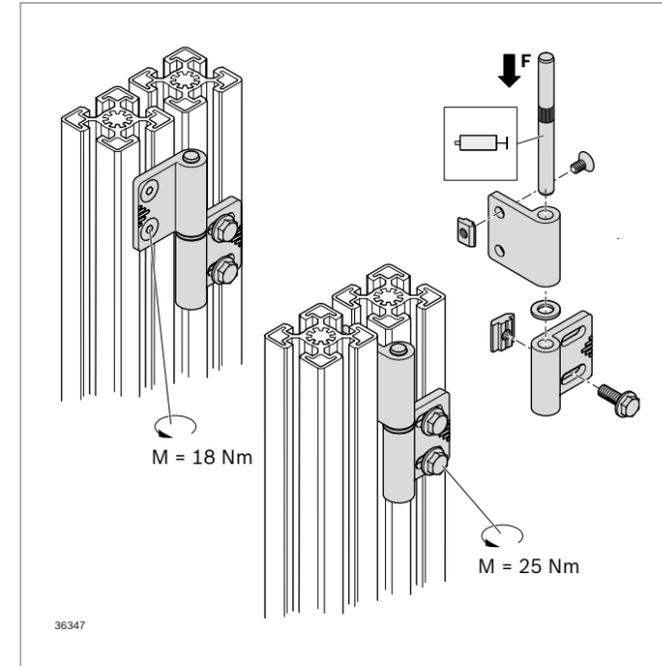


Hinge, removable



- ▶ For constructing large, heavy doors
- ▶ Removable
- ▶ For left and right stop
- ▶ Externally mounted: Opening angle approx. 180°
- ▶ Internally mounted: Prevents unauthorized removal, e.g. for safety devices

M6 = 7 Nm
M8 = 18 Nm



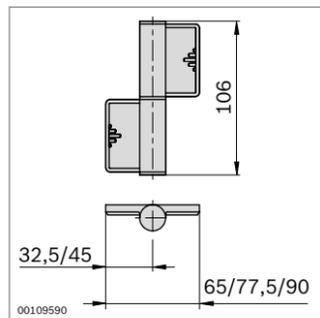
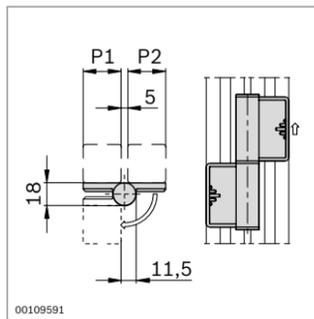
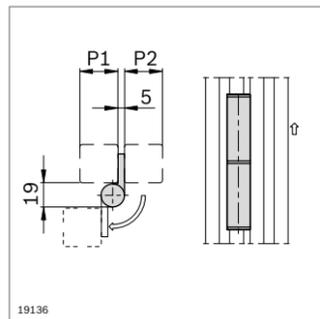
Hinge, adjustable



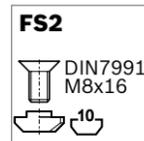
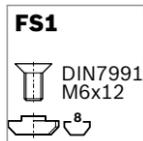
- ▶ For constructing large, heavy doors
- ▶ Adjustable for compensating clearance tolerances
- ▶ Removable
- ▶ For left and right stop
- ▶ Opening angle approx. 180°

Accessories:

T-nut slot 10, M8 (p. 3-4) for fixing a door with 10 mm slot



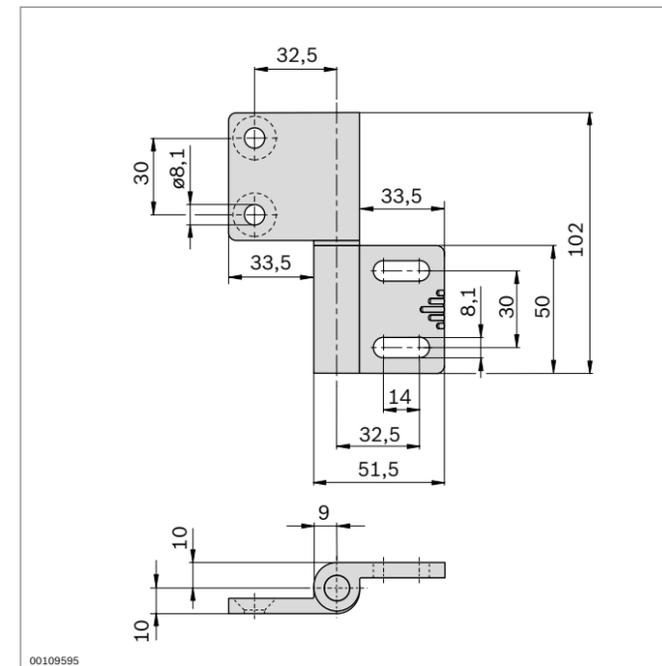
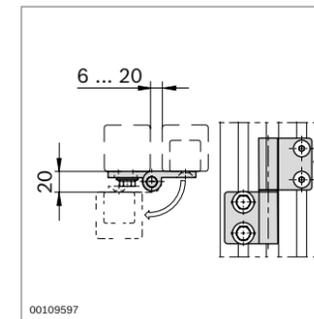
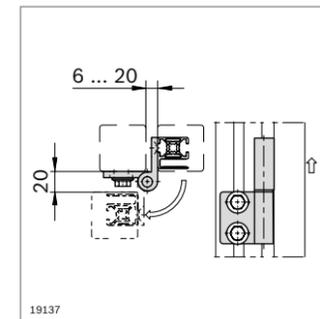
Slot	F_{max}
8	300 N
10	300 N



Hinge, removable	P1 (mm)	P2 (mm)	No.	No.	FS
	30	30	2	3 842 555 572	2xFS1
	30	45	2	3 842 555 574	1xFS1, 1xFS2
	30 ¹⁾	60			
	45	45	2	3 842 555 576	2xFS2
	45 ¹⁾	60			
	60 ¹⁾	60			

¹⁾ Not suitable for installing on inner side

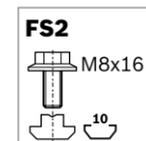
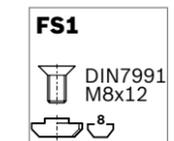
Material: Hinge: Diecast zinc
Cover cap: PP, signal gray
Fastening material: Steel; galvanized
Scope of delivery: Incl. fastening material (FS), 2 x cover cap

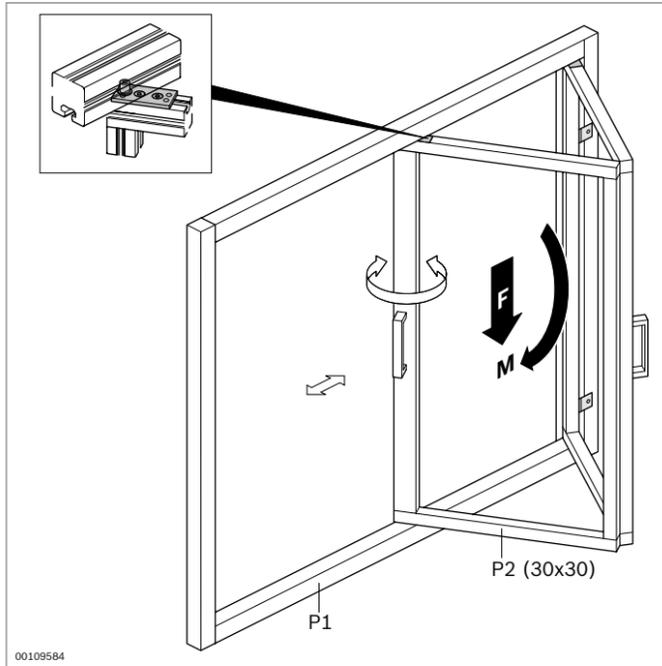


Hinge, adjustable	No.	FS
	2 3 842 544 562	2xFS1, 2xFS2

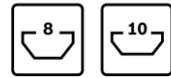
Material: Diecast aluminum
Fastening material: Steel; galvanized
Scope of delivery: Incl. fastening material (FS)

Slot	F_{max}
8	300 N
10	300 N

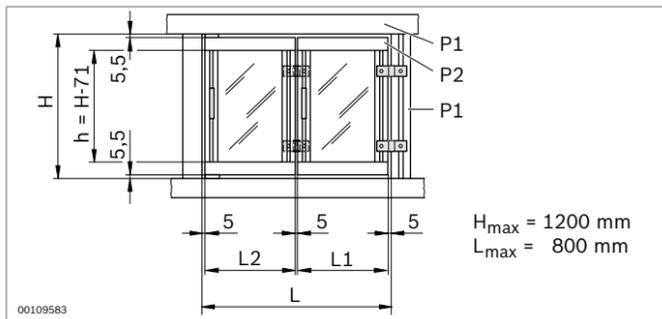




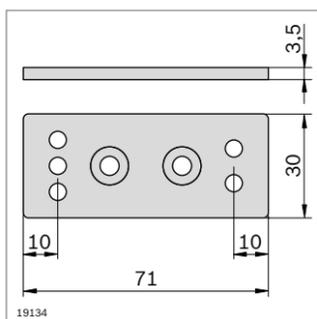
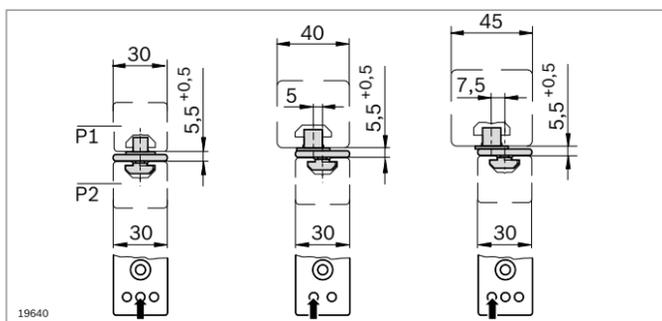
Folding door element



- ▶ 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)



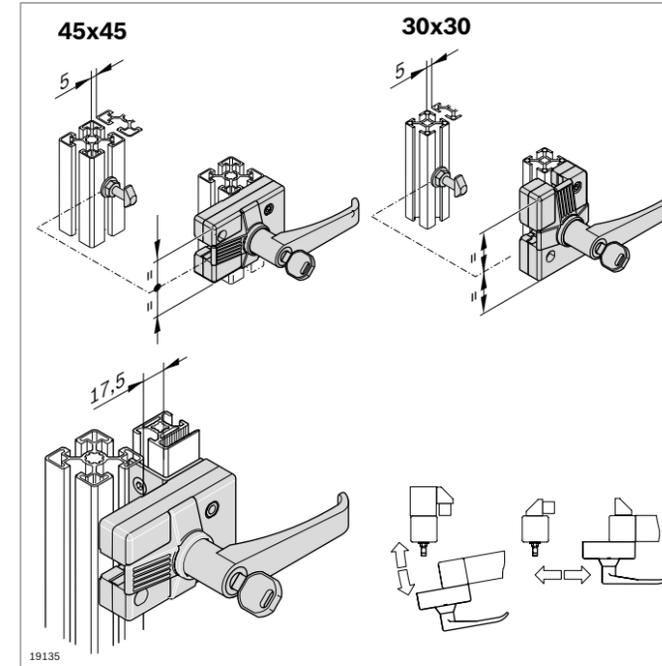
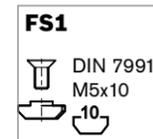
P2 (mm)	P1 (mm)	L1 (mm)	L2 (mm)
30x30	45x45	0,5L - 29.5	0,5L + 14.5
	40x40	0,5L - 28.3	0,5L + 13.3
	30x30	0,5L - 25.8	0,5L + 10.8



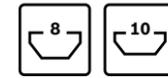
Slot	F_{max}	M_{max}
8	120 N	20 Nm
10	120 N	20 Nm

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)

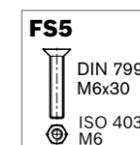
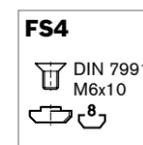
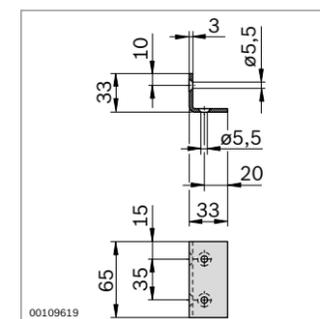
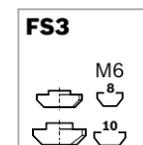
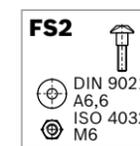
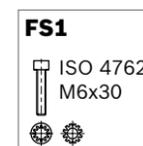
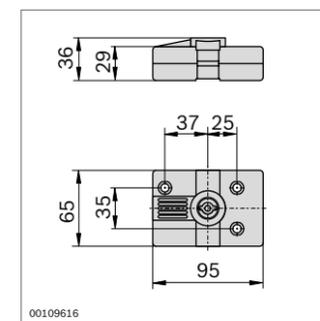
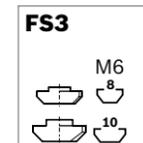
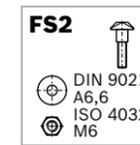
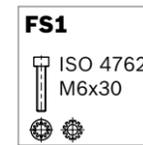
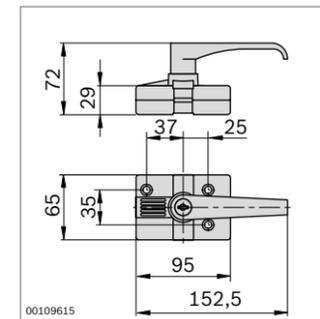


Door lock for swing and sliding doors



- ▶ 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” variant always has the same key
- ▶ Version with door handle or as two-way lock

Accessories:
 Adapter plate



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: Diecast aluminum
 Door handle: PA; black
 Fastening material: Steel; galvanized
 Scope of delivery: Incl. 3 keys, fastening material (FS)

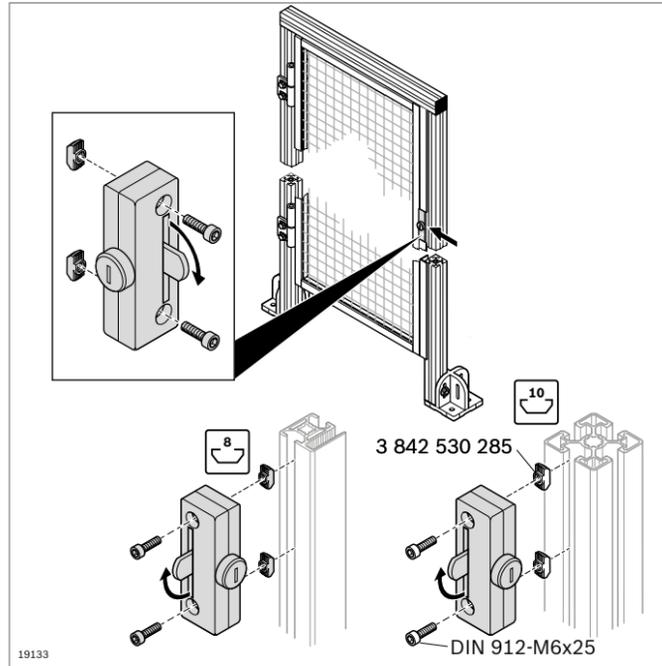
Door lock	No.	FS
	30x30, 45x45	3 842 525 823 2xFS1, FS2, 3xFS3

Material: Diecast aluminum
 Fastening material: Steel; galvanized
 Scope of delivery: Incl. 1 x two-way key, fastening material (FS)

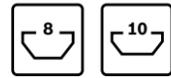
- ▶ Adapter plate for mounting the door lock on an EcoSafe protective frame (p. 10-6)

Adapter plate	No.	FS
	3 842 523 243	2xFS4, 2xFS5

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



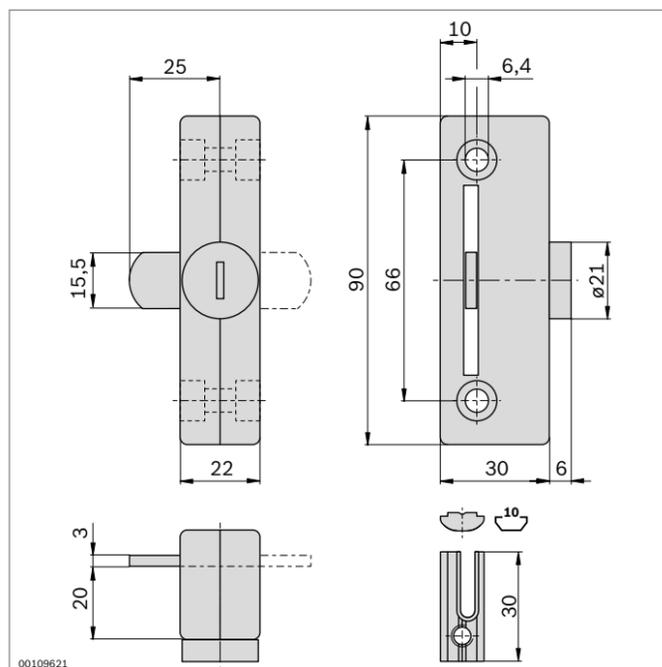
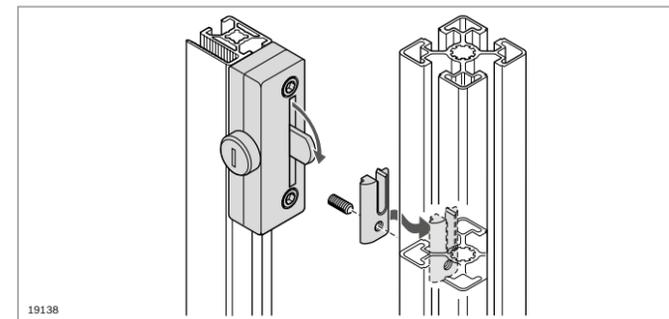
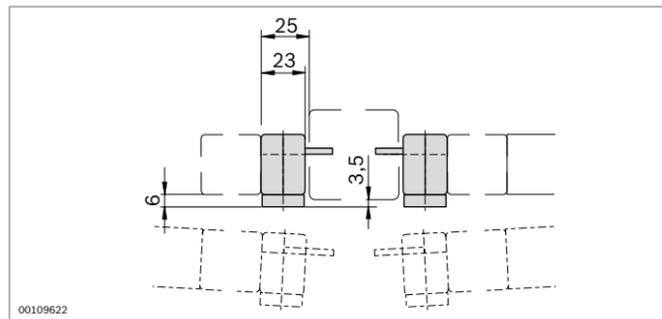
Door lock



- ▶ Opening to the right and 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

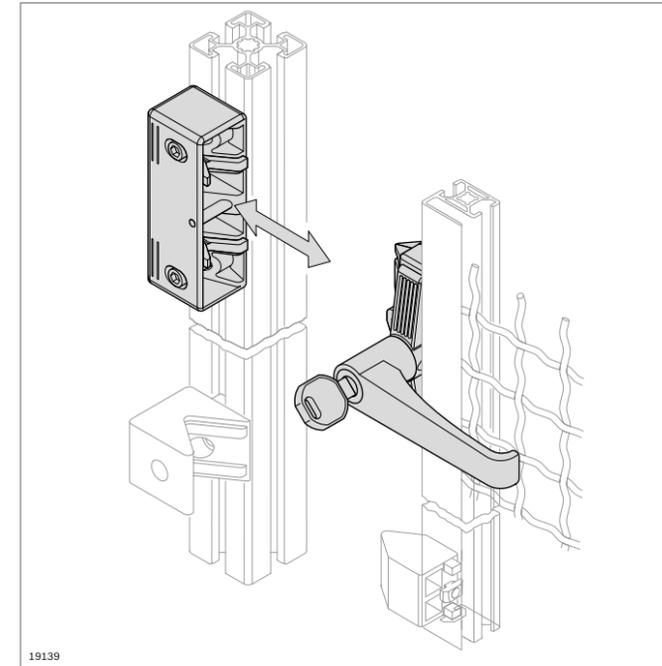
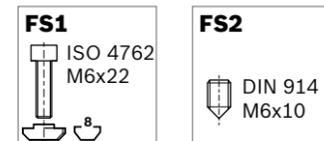
Accessories for mounting on profile with 10 mm slot:

- ▶ 2 x T-nut M6, **3 842 530 285** (p. 3-4)
- ▶ 2 x screw DIN 912-M6x25

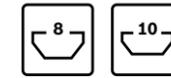


Door lock	No.	FS
Standard locking	3 842 522 479	2xFS1, 1xFS2
Uniform locking	3 842 523 320	2xFS1, 1xFS2

Material: Diecast zinc
Fastening material: Steel; galvanized
Scope of delivery: Incl. 3 keys, fastening material (FS)



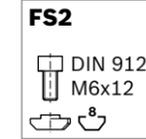
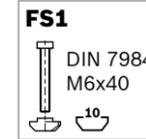
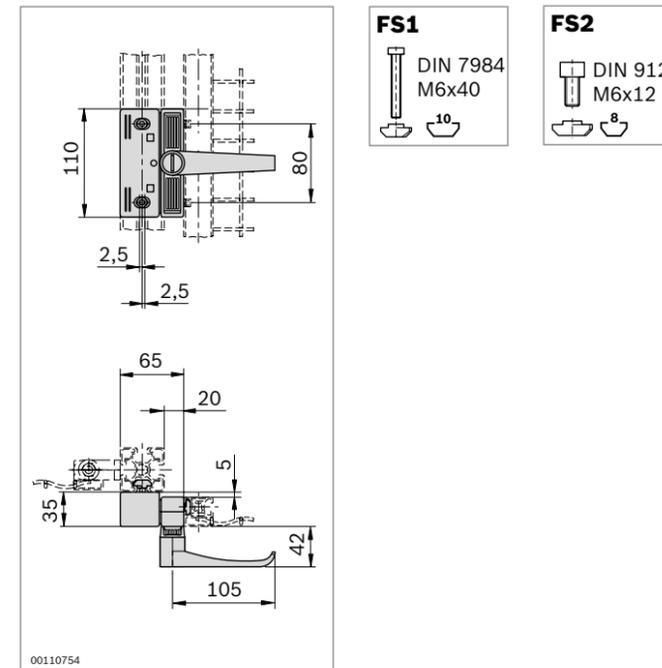
Door lock for EcoSafe sliding doors



- ▶ Opening to the right and left
- ▶ “Standard locking” variant with random key selection (each lock has a different key)
- ▶ “Uniform locking” variant always has the same key

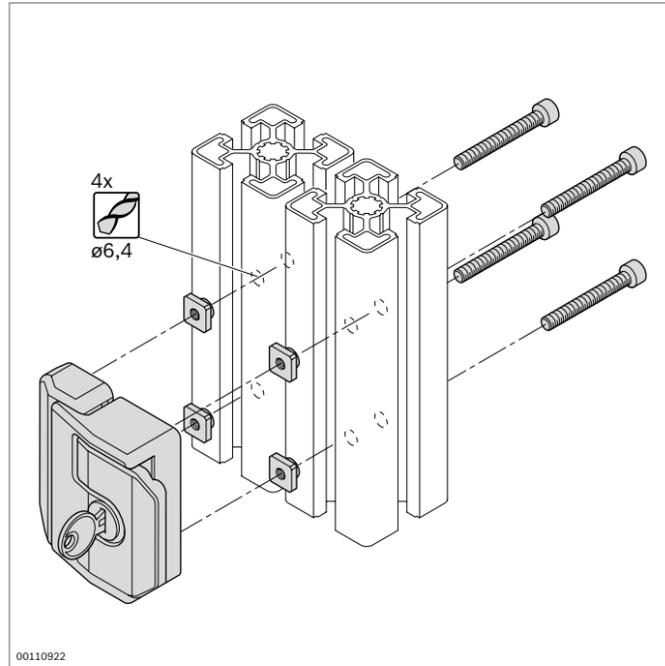
Optional accessories:

Stop kit for cushioned closing of the doors (p. 12-5)

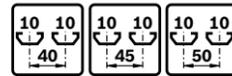


Door lock for sliding doors	No.	FS
Standard locking	3 842 525 946	2xFS1, 2xFS2
Uniform locking	3 842 525 947	2xFS1, 2xFS2

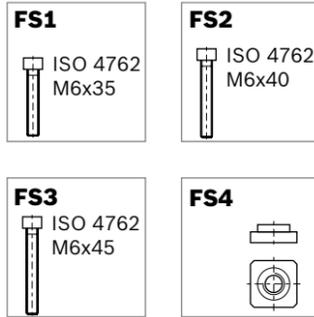
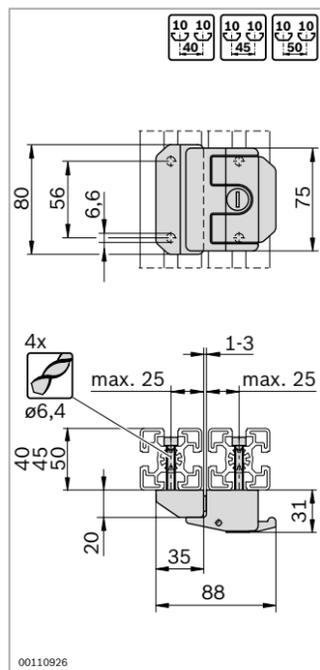
Material: Housing: Diecast aluminum
Door handle: PA; black
Cover cap: PA6
Fastening material: Steel; galvanized
Scope of delivery: Incl. 3 keys, fastening material (FS)



Door lock for swing doors

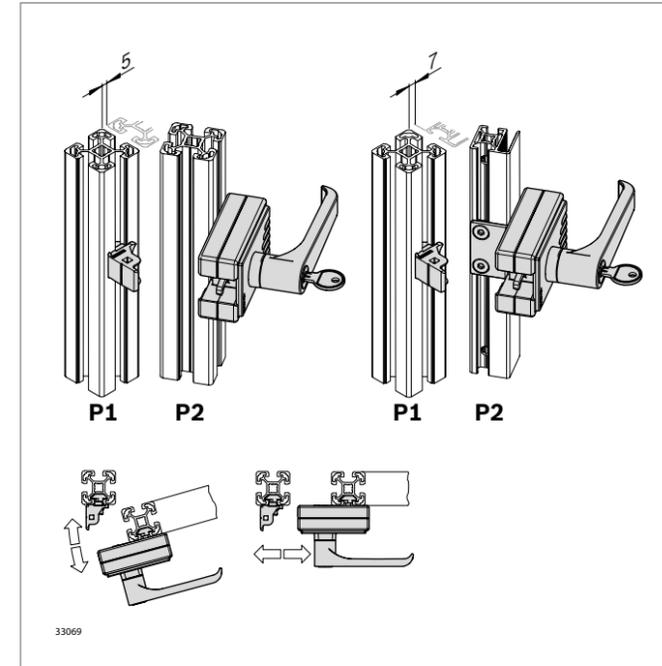


- ▶ Opening to the right and left
- ▶ Self-locking mechanism in the closed position
- ▶ Smooth closing
- ▶ Ergonomically designed folding handle for opening
- ▶ “Standard locking” variant with random key selection (each lock has a different key)
- ▶ “Uniform locking” variant always has the same key
- ▶ Profile finishing: Drill hole D6.4

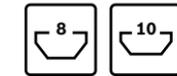


Door lock	No.	FS
Standard locking	3 842 530 353	4xFS1, 4xFS2, 4xFS3, 4xFS4
Uniform locking	3 842 530 352	4xFS1, 4xFS2, 4xFS3, 4xFS4

Material: Diecast zinc; black powder-coated
 Fastening material: Steel; galvanized
 Scope of delivery: Incl. 2 keys, fastening material (FS)

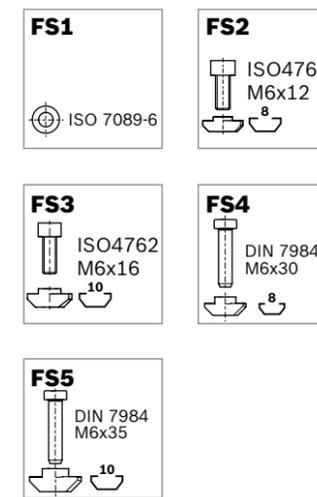
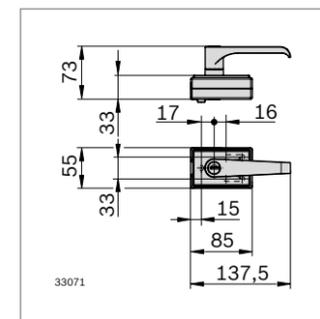


Door lock “Multi-use” for swing and sliding doors



- ▶ Opening to the right and left
- ▶ For numerous profile combinations
- ▶ “Standard locking” variant with random key selection (each lock has a different key)
- ▶ “Uniform locking” variant always has the same key
- ▶ Version with door handle or as two-way lock
- ▶ Covered fastening screws
- ▶ Differing gap measurements for doors <400 mm with modular dimensions up to 45 mm and < 600 mm for modular dimensions of 50 mm (see assembly instructions **3 842 554 184**)
- ▶ Without profile finishing

P1	P2	P2	P2	P2	P2
30	WG30/40	30	-	-	-
40	WG30/40	30	40	-	-
45	WG30/40	30	40	45	-
50	WG30/40	30	40	45	50
60	WG30/40	30	40	-	-

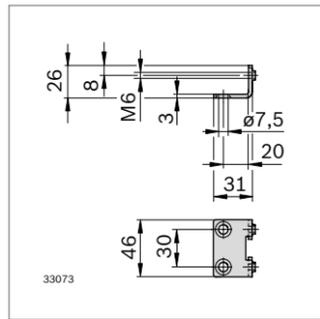
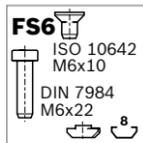
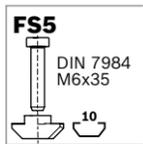
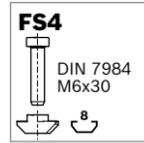
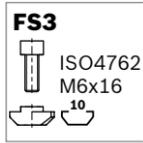
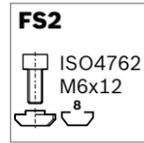
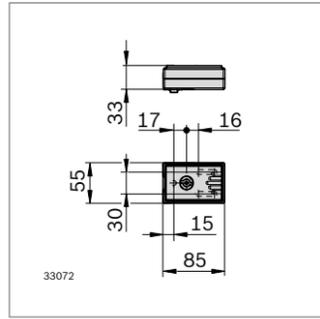


Optional accessories:

Adapter plate for connecting to a WG40 or WG30 woven wire grille profile (p. 10-9)

Door lock “Multi-use” for swing and sliding doors	No.	FS
Standard locking	3 842 548 971	3xFS1, FS2, FS3, 2xFS4, 2xFS5
Uniform locking	3 842 548 970	3xFS1, FS2, FS3, 2xFS4, 2xFS5

Material: Housing: Diecast zinc
 Door handle: PA6, black
 Cover: PP; signal gray RAL 7004
 Fastening material: Steel; galvanized
 Scope of delivery: Incl. 3 keys, fastening material (FS)



Door lock "Multi-use" for swing and sliding doors	No.	FS
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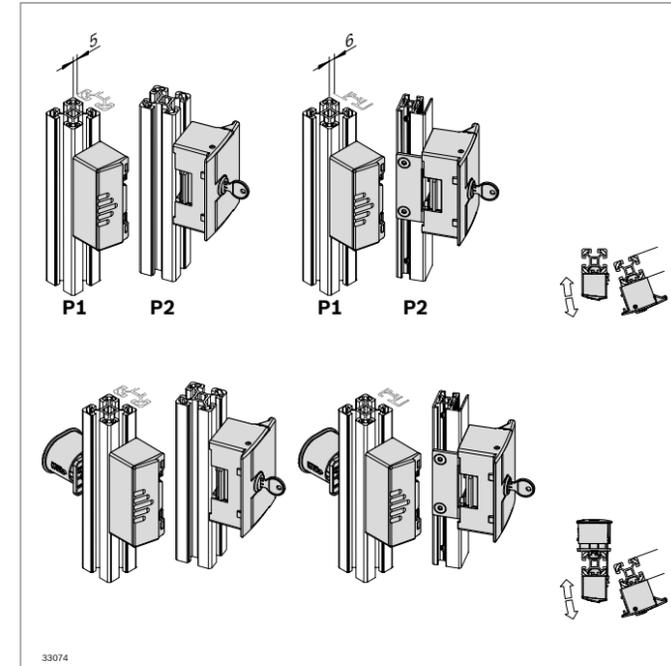
Two-way lock	3 842 548 965	3xFS1, FS2, FS3, 2xFS4, 2xFS5
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Material: Housing: Diecast zinc
Cover: PP; signal gray RAL 7004 fastening material: Steel; galvanized
Scope of delivery: Incl. 1x two-way key, fastening material

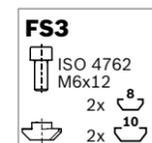
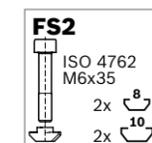
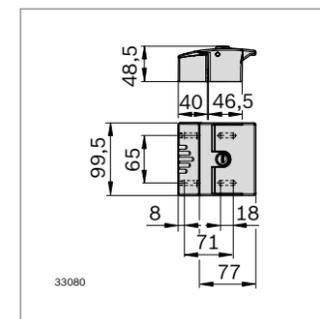
Adapter plate	No.	FS
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EcoSafe	3 842 548 969	2xFS6
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Material: Steel; galvanized
Fastening material: Steel; galvanized
Scope of delivery: Incl. Fastening material



P1	P2	P2	P2	P2	P2
30	WG30/40	30	-	-	-
40	WG30/40	30	40	-	-
45	WG30/40	30	40	45	-
50	WG30/40	30	40	45	50
60	WG30/40	-	40	45	50



Door lock "Compact" for swing doors



- ▶ Opening to the right and left
- ▶ For numerous profile combinations
- ▶ "Standard locking" variant with random key selection (each lock has a different key)
- ▶ "Uniform locking" variant always has the same key
- ▶ Covered fastening screws
- ▶ Installation of an emergency opening mechanism for unlocking from inside in emergency possible (Gap measurements according to assembly instructions **3 842 554 192**)
- ▶ Without profile finishing

Optional accessories:

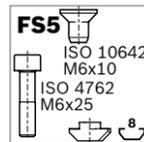
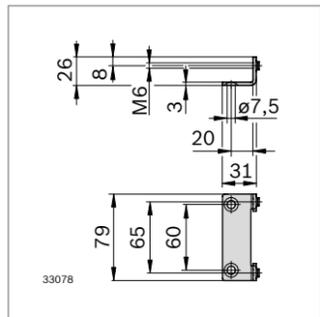
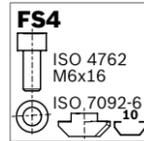
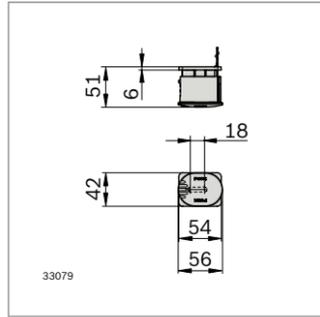
- ▶ Adapter plate for connecting to a WG40 or WG30 woven wire grille profile (p. 10-9)
- ▶ Emergency opening mechanism (p. 8-18)

Door lock "Compact" for swing doors	No.	FS
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Standard locking	3 842 553 640	4xFS1, 2xFS2, 2xFS3
-------------------------	----------------------	---------------------

Uniform locking	3 842 553 639	4xFS1, 2xFS2, 2xFS3
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Material: Housing: Diecast aluminum
Cover: PP; signal gray RAL 7004 fastening material: Steel; galvanized
Scope of delivery: Incl. 2 keys, fastening material



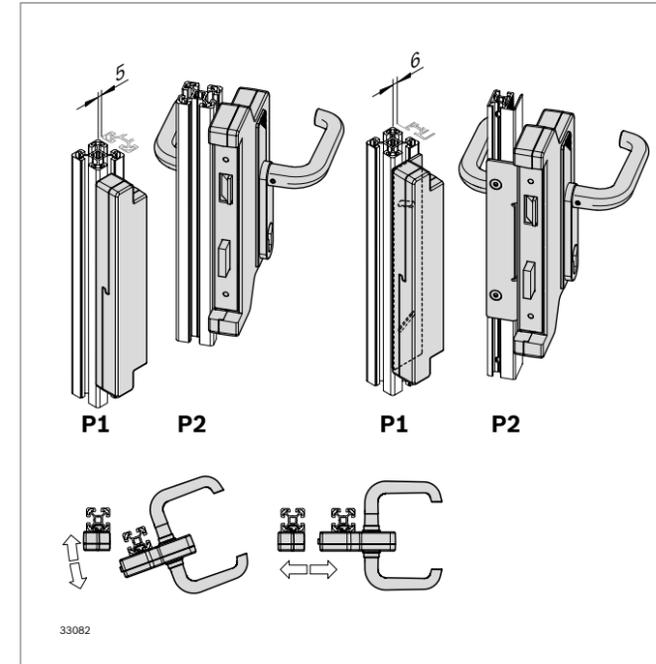
- For emergency opening of the door lock “Compact” from the inside in its locked state

Emergency unlocking	No.	FS
Compact	3 842 554 134	FS4

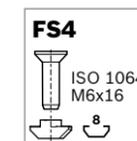
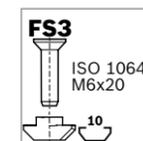
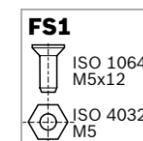
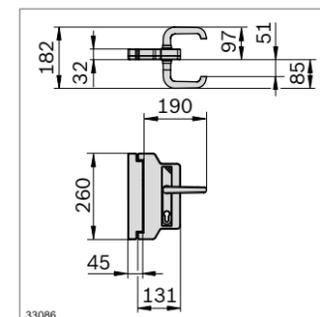
Material: Steel; galvanized
 Pushbutton: PA6; red RAL 3020
 Fastener: PA6; RAL 7004
 Fastening material: Steel; galvanized
 Scope of delivery: Incl. Fastening material

Adapter plate	No.	FS
EcoSafe	3 842 554 136	2xFS5

Material: Steel; galvanized
 Fastening material: Steel; galvanized
 Scope of delivery: Incl. Fastening material



P1	P2	P2	P2	P2	P2
30	WG30/40	30	-	-	-
40	WG30/40	30	40	-	-
45	WG30/40	30	40	45	-
50	WG30/40	30	40	45	50
60	WG30/40	30	40	45	50



Chamber lock for swing and sliding doors



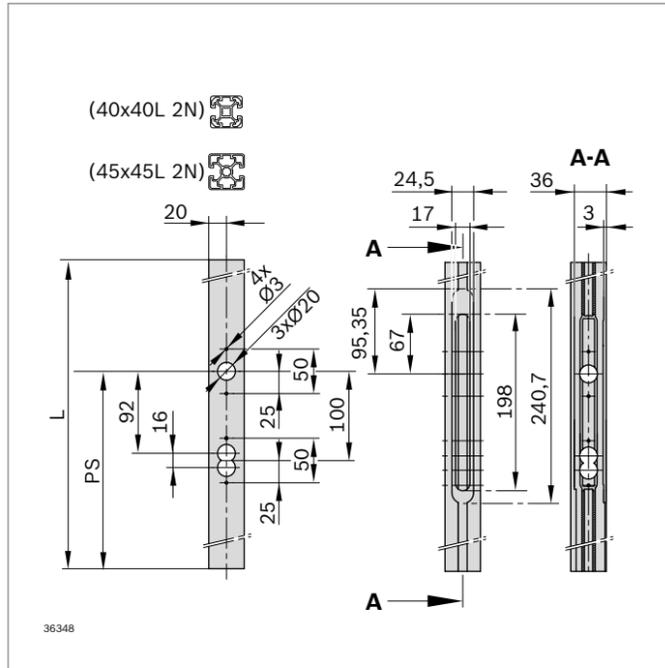
- Opening to the right and left
- For numerous profile combinations
- For installation of a standard lock cylinder (not included in the scope of delivery)
- Version with door handle, can be opened from inside and outside
- Without profile finishing
- Covered fastening screws

Optional accessories:

- Adapter plate for connecting to a WG40 or WG30 woven wire grille profile (p. 10-9)
- Lock cylinder (p. 8-20)

Chamber lock	No.	FS
Sliding door	3 842 554 151	4xFS1, 4xFS2, 4xFS3, 2xFS4
Swing door	3 842 554 150	4xFS1, 4xFS2, 4xFS3, 2xFS4

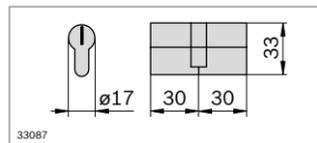
Material: Housing: PA6 signal gray (RAL7004)
 Door handle: Aluminum; anodized
 Fastening material: Steel; galvanized
 Washer: Aluminum
 Scope of delivery: Incl. Fastening material



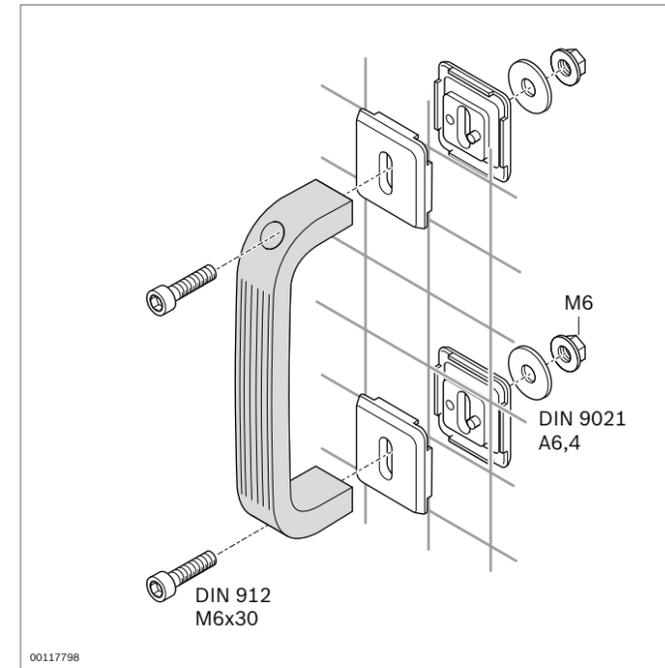
- ▶ Dimensional drawing of the profile finishing for mortise lock
- ▶ Finishing type "LM" (Lock Milling)
- ▶ Can be ordered over Quick&Easy

Strut profile	No.	Finishing type	Parameter
40x40L 2N	3 842 993 720	LM	PS, L
45x45L 2N	3 842 993 739	LM	PS, L

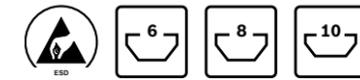
Parameter input – example: 3842993739 L=1800; [B=LM;PS=1100]



- ▶ Conventional lock cylinder 30/30 is not included in the scope of delivery



Bow-type handle

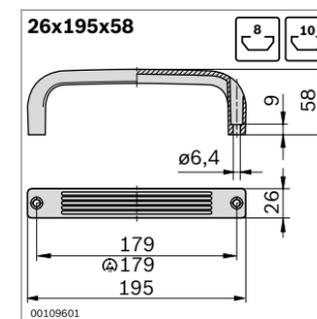
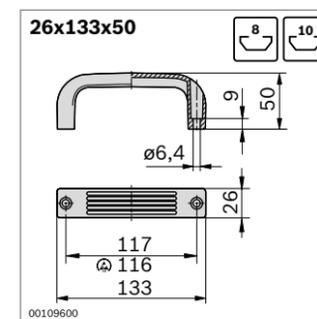
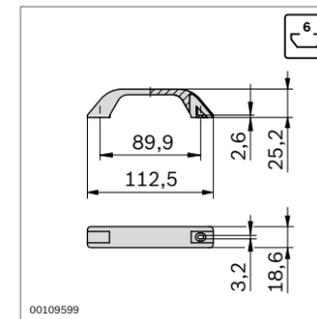


Bow-type handle

- ▶ 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

Optional accessories:

- ▶ Clamping element for mounting on woven wire grille (p. 10-19)
- ▶ T-nut (p. 3-4)

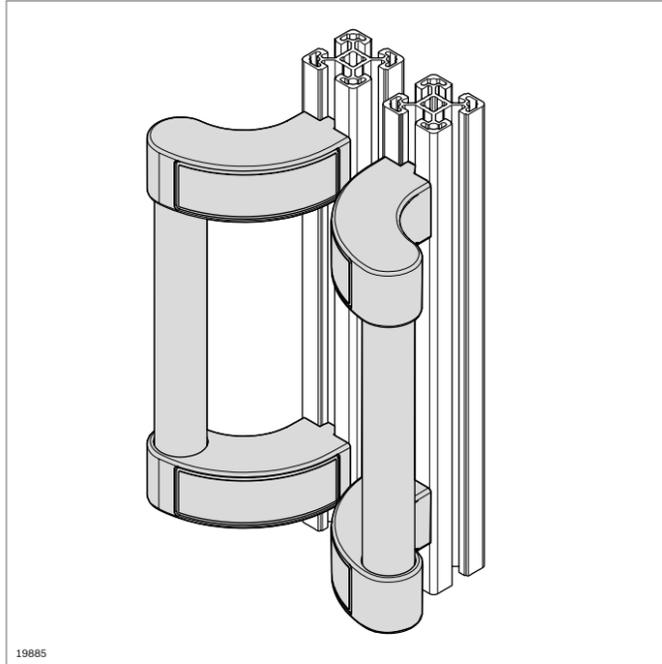


Bow-type handle	Color	ESD	No.
	Signal gray RAL 7004		10 3 842 554 716
	Black		10 3 842 518 738

Material: PA

Bow-type handle	Color	ESD	No.
26x133x50	Signal gray RAL 7004		10 3 842 554 718
	Black	⚡	10 3 842 525 481
26x195x58	Signal gray RAL 7004		10 3 842 554 720
	Black	⚡	10 3 842 525 767

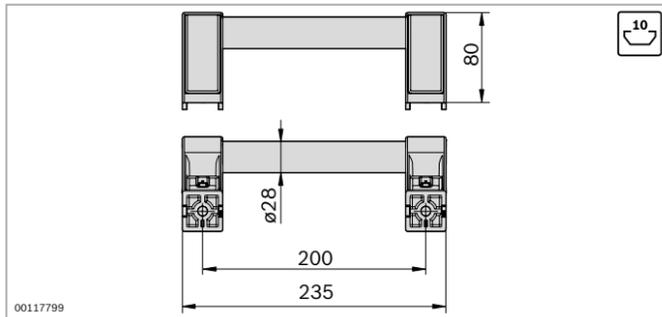
Material: PA



Safety handle

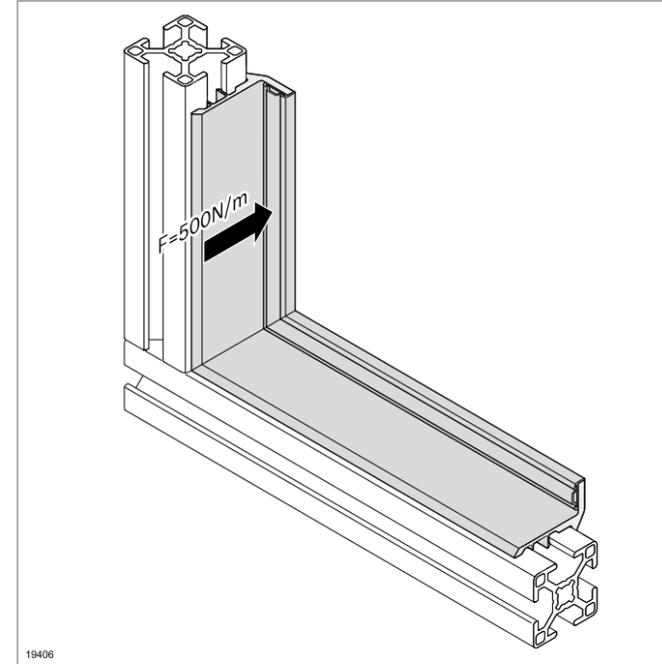
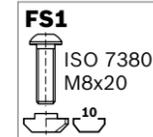


- ▶ Prevents injuries caused by catching of body parts when closing sliding doors
- ▶ Suitable for sliding or swing doors
- ▶ The length of the handle can be varied by changing the tube D28

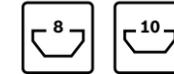


Safety handle	No.	FS
	3 842 555 564	2xFS1

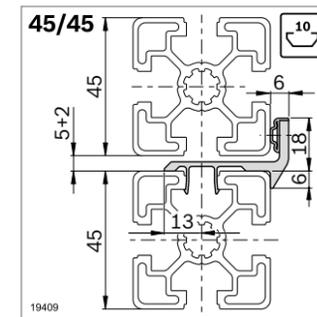
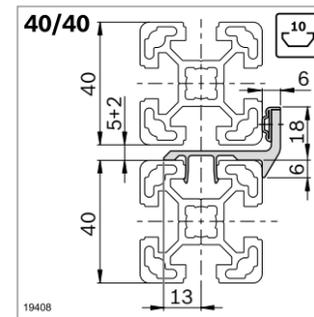
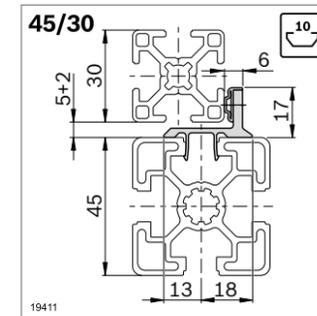
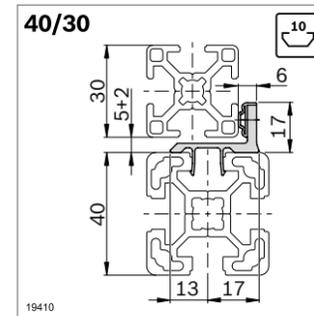
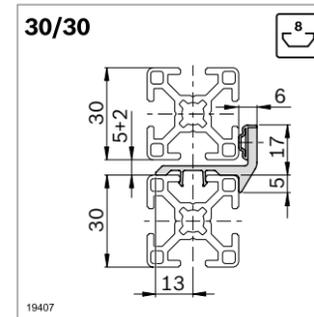
Material: Round tube D28: Aluminum; anodized
Holder: PA; signal gray RAL 7004
Scope of delivery: Incl. fastening material (FS)



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 3 842 555 554

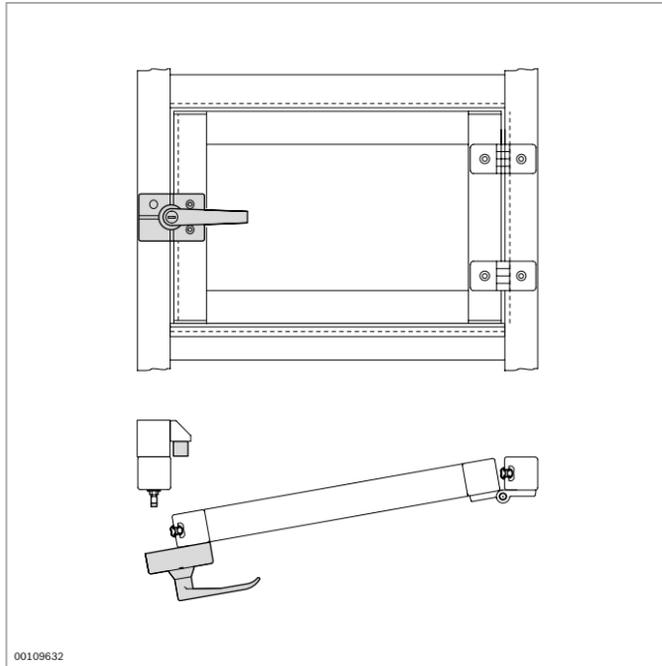
Material: PVC/TPE; signal gray RAL 7004

Sealing strip	L (mm)	No.
40/30	3000	10 3 842 555 562
45/30	3000	10 3 842 555 560

Material: PVC/TPE; signal gray RAL 7004

Sealing strip	L (mm)	No.
40/40	3000	10 3 842 555 558
45/45	3000	10 3 842 555 556

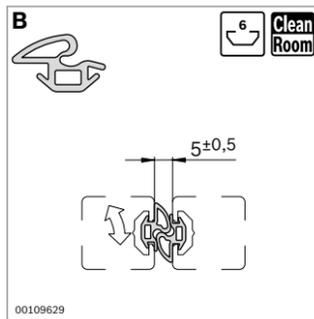
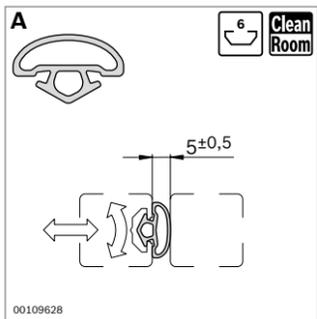
Material: PVC/TPE; signal gray RAL 7004



Sealing profile



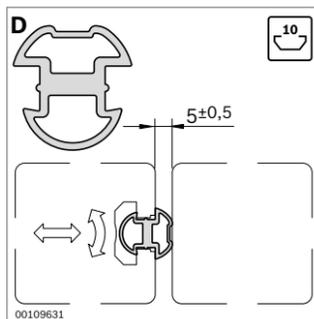
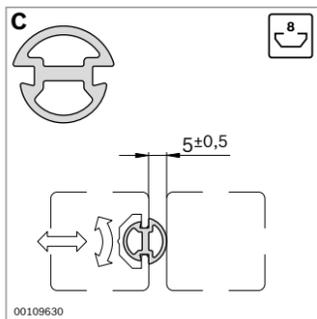
- ▶ For sliding and swing doors
- ▶ Prevents particles from entering or escaping



- ▶ Suitable for use in cleanroom environments
- ▶ Two-piece seal (B) also performs a stop function.

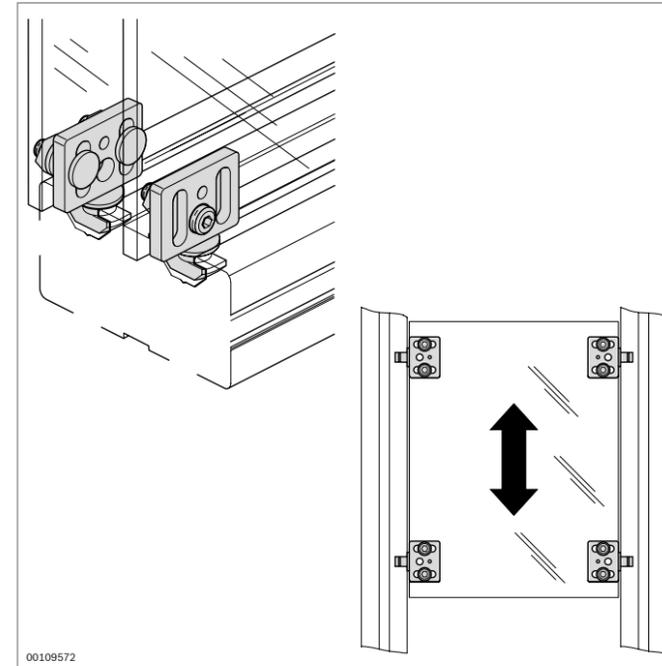
Sealing profile	Slot	L (mm)	No.
A	6	10000	3 842 524 623
B	6	10000	3 842 524 622

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

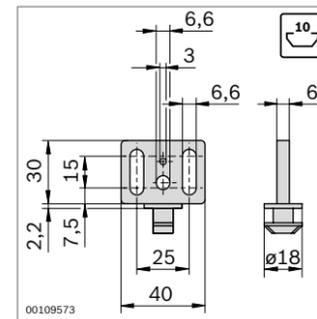
Material: NBR; black, hardness 60° shore A



Slider

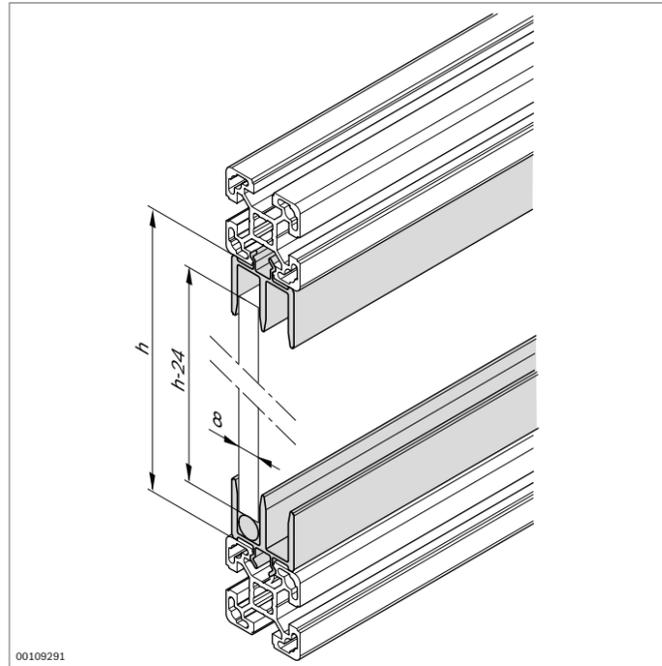


- ▶ For constructing inexpensive sliding and lifting doors
- ▶ Good functional reliability

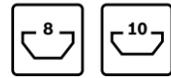


Slider	No.
	10 3 842 555 226

Material: POM; signal gray RAL 7004



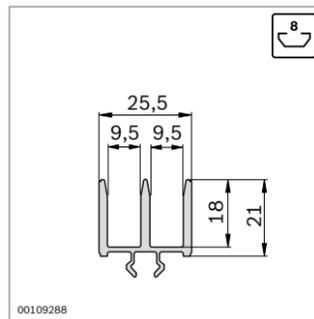
Sliding door profile, PVC



- ▶ Can be clipped into the supporting frame made of strut profiles
- ▶ Round bar to minimize the displacement force required
- ▶ For panel elements of a thickness of 8 mm
- ▶ Insertion of the panel element into closed frame

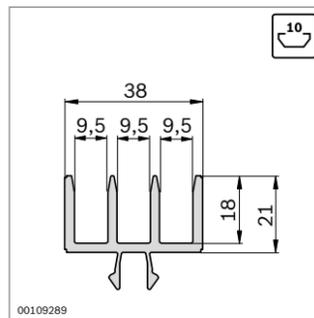
Optional accessories:

- ▶ Edge protector (p. 8-32)
- ▶ Door handle profile (p. 8-32)
- ▶ Bow-type handle (p. 8-23)



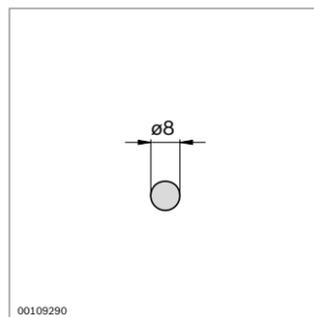
Sliding door profile, PVC	Slot	L (mm)	No.
	8	2000	10 3 842 555 262

Material: PVC; signal gray RAL 7004



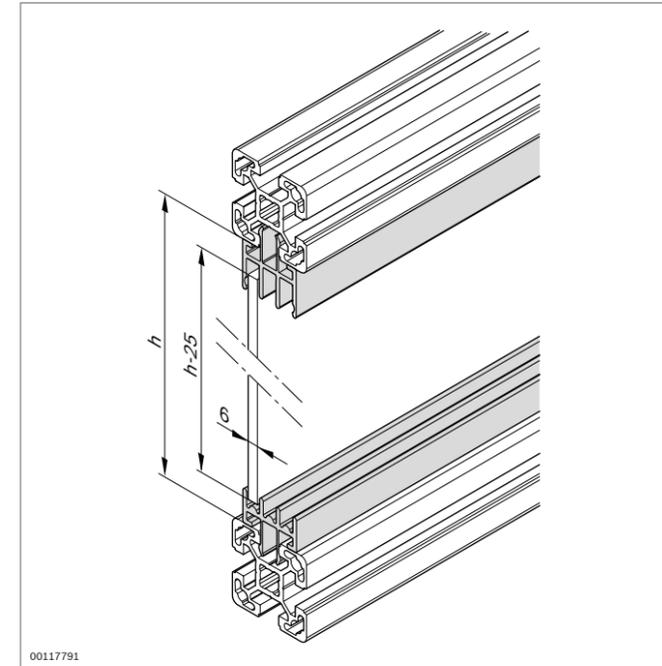
Sliding door profile, PVC	Slot	L (mm)	No.
	10	2000	10 3 842 555 260

Material: PVC; signal gray RAL 7004



Round bar	L (mm)	No.
	2000	10 3 842 516 694

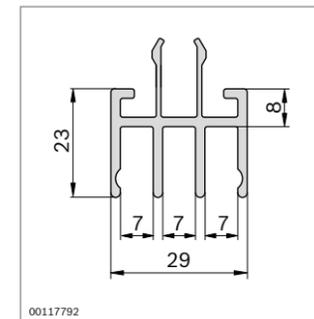
Material: POM; black



Sliding door profile Al Clip

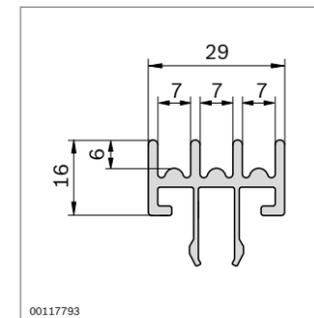


- ▶ Can be clipped into the supporting frame made of strut profiles
- ▶ Sliding door profile, bottom, with half-round floor contour to minimize the displacement force required
- ▶ For panel elements with a thickness of 5 or 6 mm
- ▶ Insertion of the panel element into closed frame



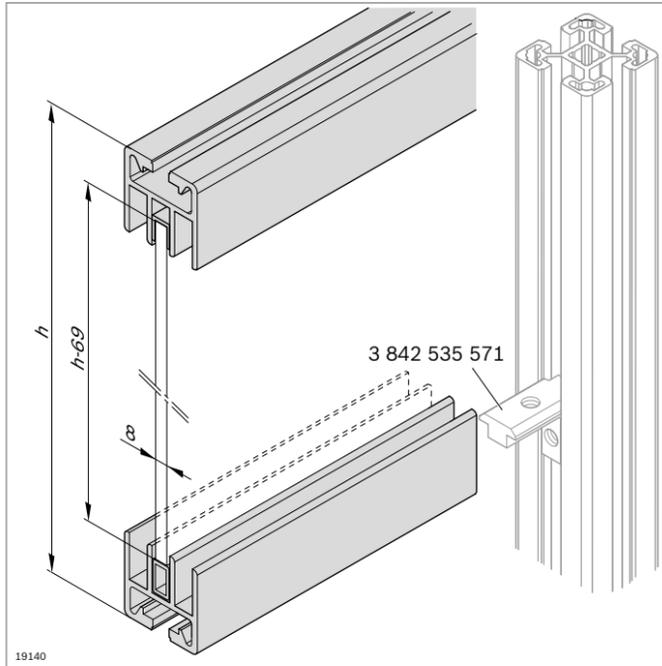
Sliding door profile, top	L (mm)	No.
1 pc	40 ... 3000	3 842 993 425 / L
10 pcs	3000	3 842 536 531

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 AI 45
Cover cap, end piece

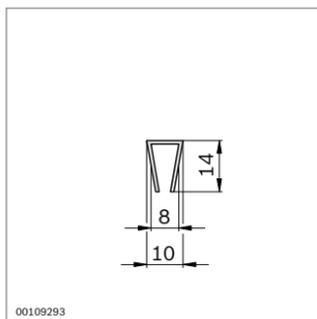
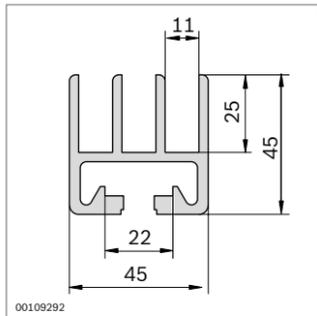


Sliding door profile AI 45

- ▶ Aluminum profile as a supporting construction element
- ▶ Installation using inner brackets between two vertical struts
- ▶ Glide profile to edge the upper part of the sliding door
- ▶ Insertion profile acts as a slide surface
- ▶ For panel elements of a thickness of 8 mm
- ▶ Insertion of the panel element into closed frame

Accessories:

- ▶ Cover cap (p. 8-31)
- ▶ End piece (p. 8-31)
- ▶ Inner bracket (p. 3-14), inner bracket R (p. 3-15)

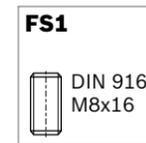
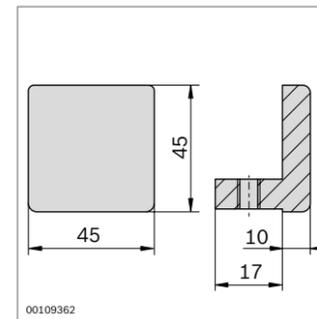
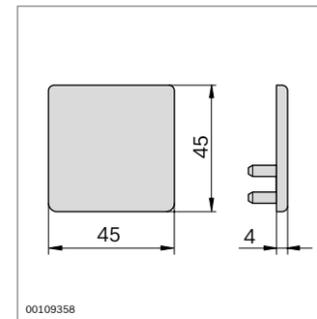
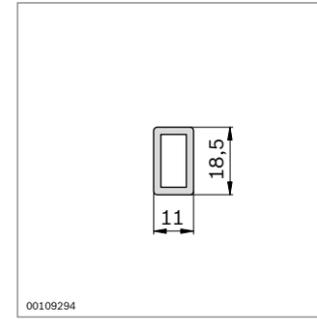


Sliding door profile		L (mm)	No.
1 pc		100 ... 6070	3 842 990 115 / L
1 pc	F1	100 ... 6000	3 842 990 116 / L
20 pcs		6070	3 842 557 943

Material: Aluminum; anodized

Glide profile		L (mm)	No.
		3000 10	3 842 554 724

Material: Hard PVC; signal gray RAL 7004



Insertion profile	L (mm)	No.
	3000 10	3 842 554 726

Material: PA; signal gray RAL 7004

Cover cap

- ▶ As a design element and to prevent injuries

Cover cap	Color	ESD	No.
	Signal gray	20	3 842 551 662

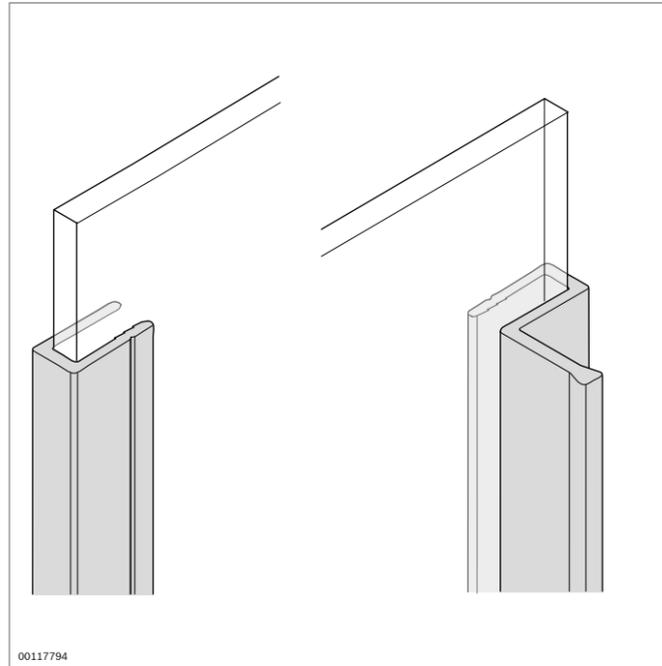
Material: PP; signal gray RAL 7004

End piece

- ▶ For use as a stop for sliding elements
- ▶ Clamping with setscrew in the profile slot

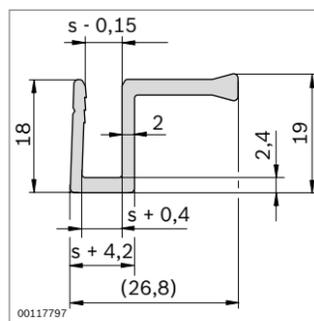
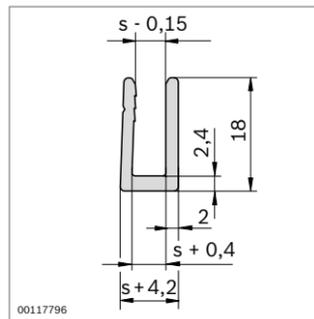
End piece	ESD	No.	FS
	20	3 842 191 194	FS1

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



**Edge protector
Door handle profile**

- ▶ For reinforcing frameless panel elements on sliding doors
- ▶ Profile for s = 6 mm can also be used for 1/4 inch plates



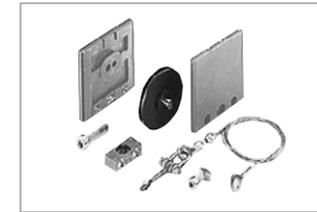
Edge protector	s (mm)	L (mm)	No.
1 pc	5	40 ... 3000	3 842 993 429 / L
10 pcs	5	3000	3 842 536 537
1 pc	6	40 ... 3000	3 842 993 430 / L
10 pcs	6	3000	3 842 536 540

Material: Aluminum; anodized

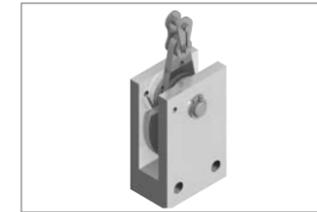
Door handle profile	s (mm)	L (mm)	No.
1 pc	5	40 ... 3000	3 842 993 427 / L
10 pcs	5	3000	3 842 536 533
1 pc	6	40 ... 3000	3 842 993 428 / L
10 pcs	6	3000	3 842 536 536

Material: Aluminum; anodized

Accessories for protective devices



Counterbalance (p. 9-2)



Safety catch (p. 9-4)



Bumper (p. 9-5)



Handle bar (p. 9-5)



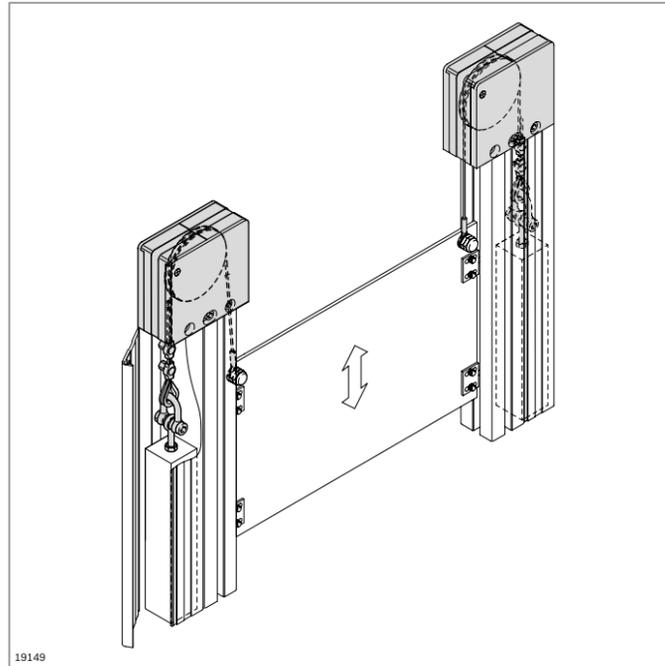
Magnet catch (p. 9-6)



Double ball stop latch (p. 9-7)



Ball catch (p. 9-8)



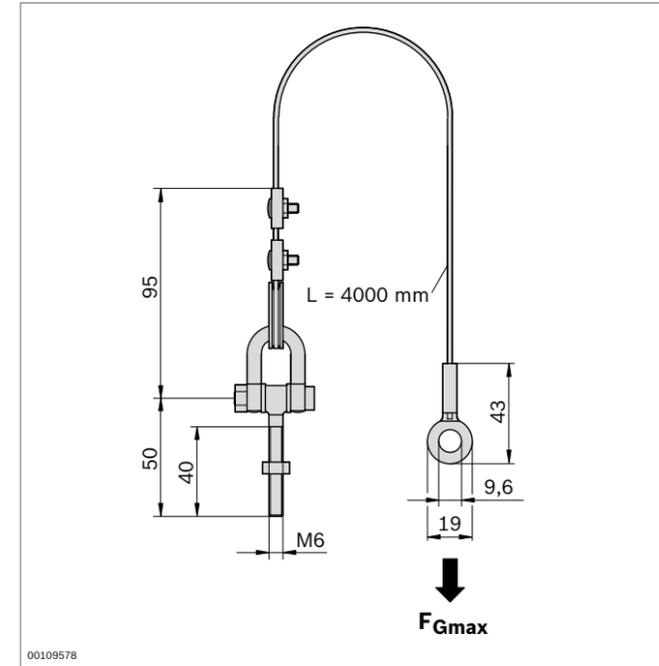
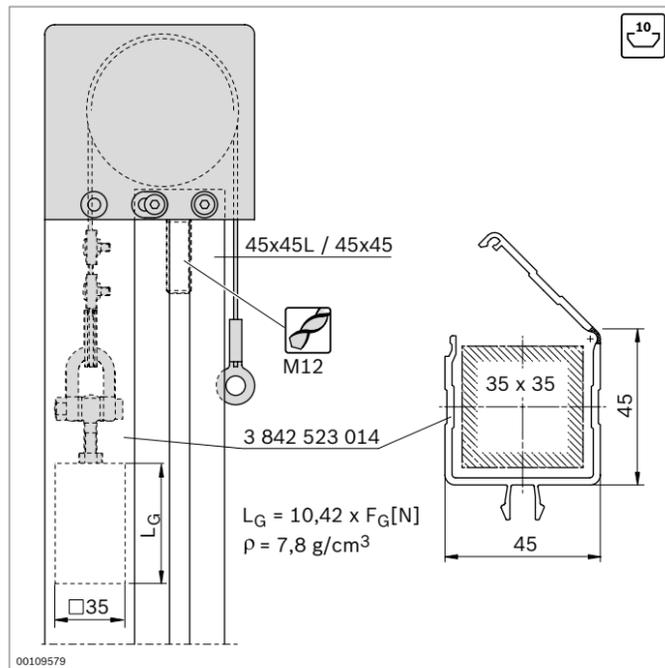
Counterbalance



- ▶ 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: 50000 actuations
- ▶ Profile finishing:
 - M12 for fastening the deflection pulley
- ▶ Fit lifting doors with a back-up fall arrestor in accordance with the Machinery Directive 2006/42/EC

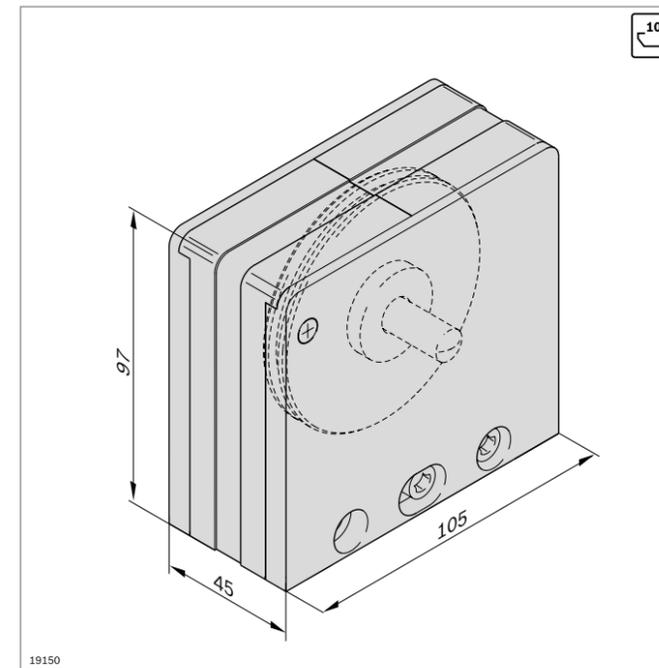
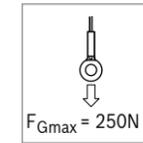
Required accessories:
Counterbalance weight (square profile 35x35 mm)

- Optional accessories:
- ▶ Cable duct 45x45 (p. 11-2)
 - ▶ Slider (p. 12-3/8-27)
 - ▶ Safety catch (p. 9-4)



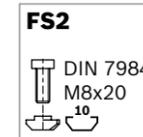
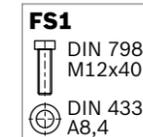
Counterbalance control cable	No.
	3 842 518 798

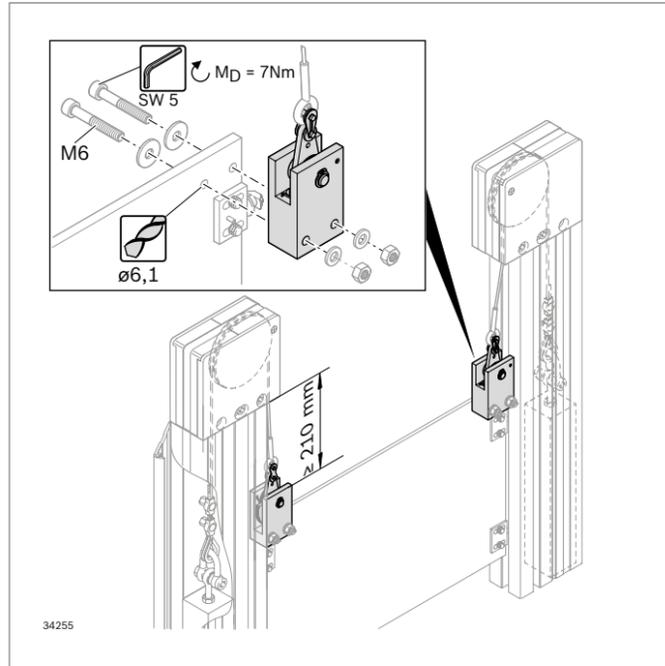
Material: Steel; stainless



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)





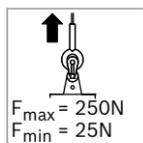
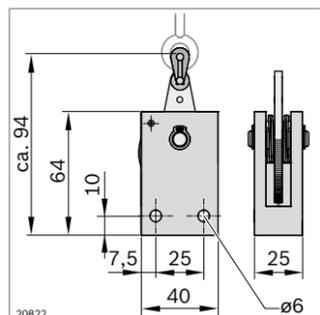
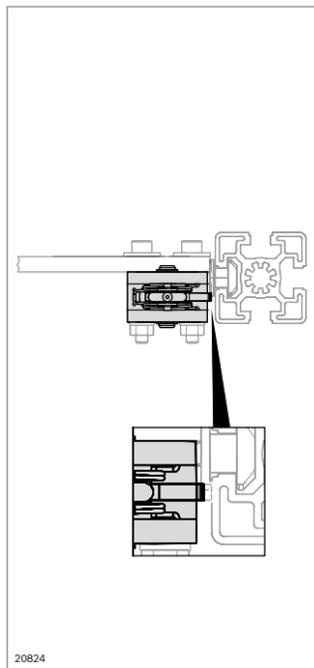
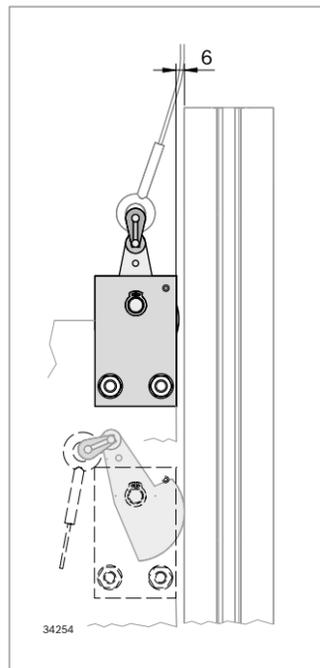
Safety catch



- ▶ 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 **3 842 555 226**) should be mounted under the safety catch and as close as possible to it
- ▶ It can also be mounted without a frame on panel 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

Optional accessories:

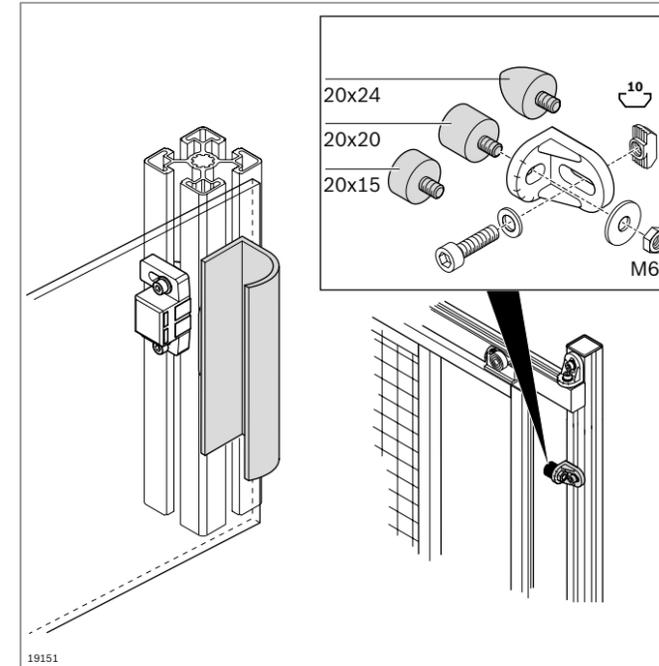
- ▶ Slider (p. 12-3)
- ▶ Fastening material for attaching the safety catch to the lifting door
- ▶ Counterbalance (p. 9-2)
- ▶ Strut profiles (from p. 2-1)



Safety catch	No.
	3 842 546 519

Material: Housing: Aluminum
Turntable: Steel; stainless
Bolt: Steel, hardened
Chain lock: Nickel-plated steel
Spacer disk: POM

Scope of delivery: Incl. chain lock for securing the cable
Condition on delivery: Assembled



Bumper Handle bar

Bumper

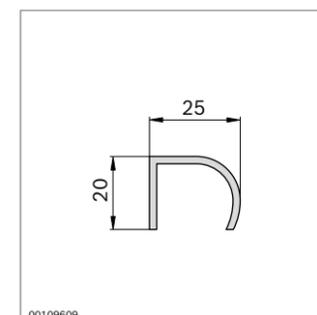
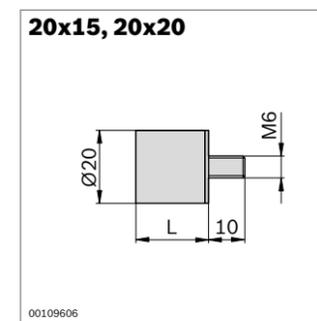
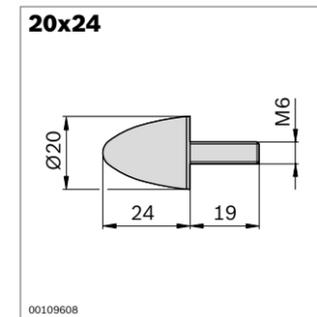
- ▶ For damping impact and noise on doors, flaps, and covers

Accessories:
Nut, T-nut M6 (p. 3-4)

Handle bar

- ▶ Can be used, for example, on covers, drawers, or doors
- ▶ Machining: Drill holes for fixing

Required accessories:
Fastening material



Bumper	No.
20x24	10 3 842 510 165

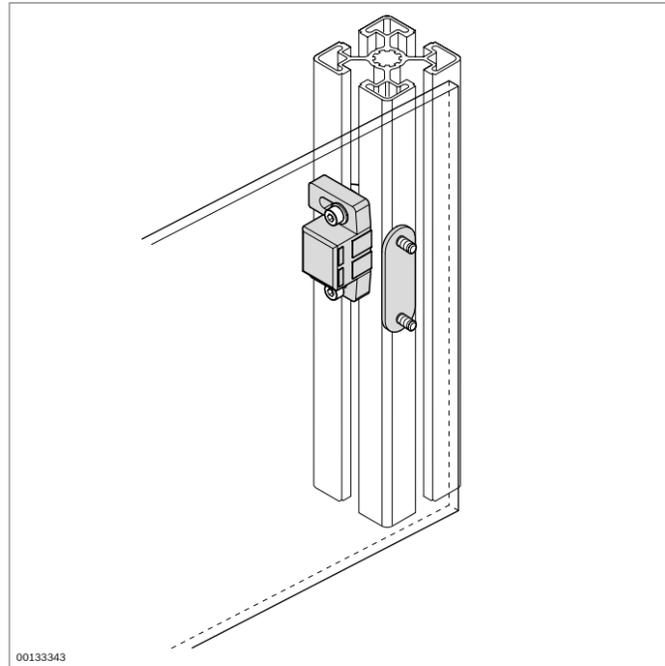
Material: Rubber; hardness 55° shore A

Bumper	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

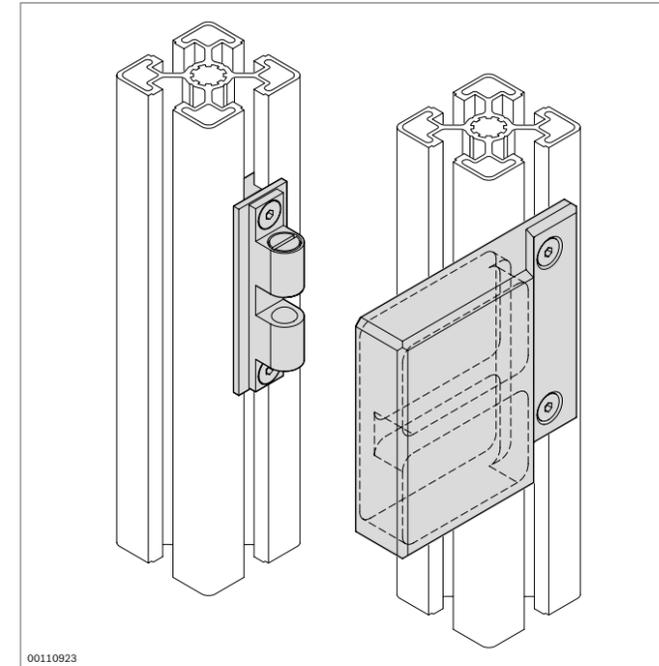


Magnet catch



- ▶ The magnet catch prevents doors and flaps from banging or being unintentionally opened
- ▶ Elongated holes to compensate for different panel element thicknesses

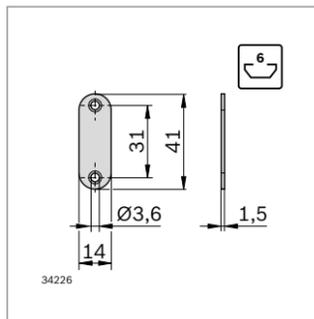
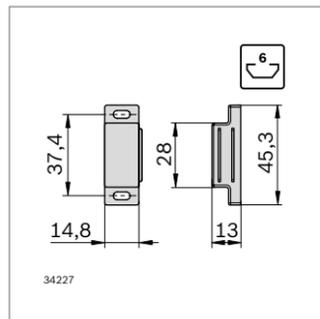
Accessories:
Cylinder bolt ISO 4762, washer, T-nut (p. 3-4)



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

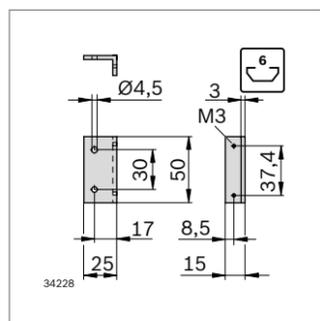


Magnet catch	Slot No.	FS
	6	3 842 558 323 2xFS1

Material: PP; white / steel; galvanized
Scope of delivery: Incl. counterpiece, bracket, fastening material (FS)

FS1

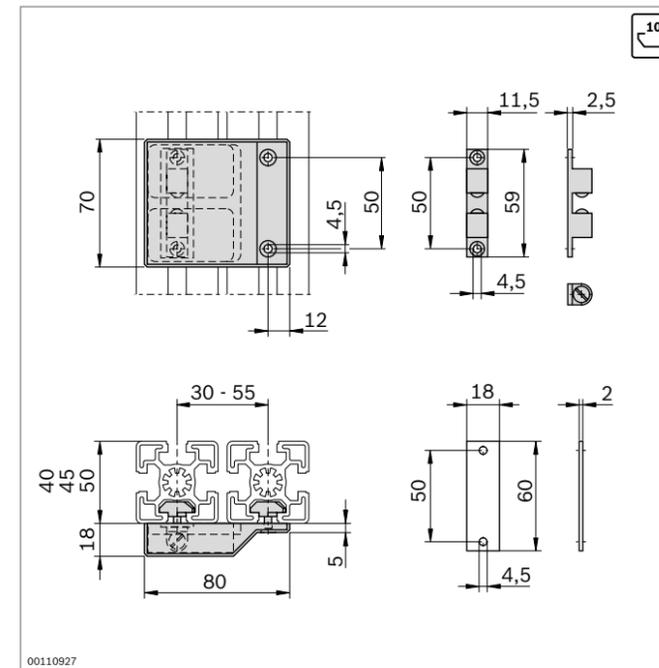
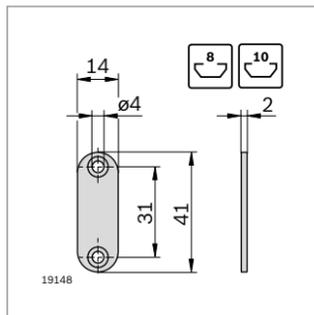
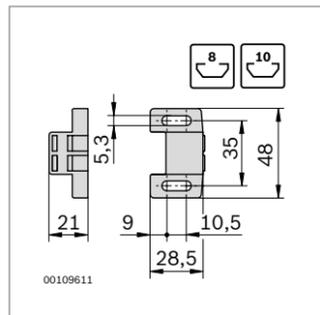
- ISO 4762 M3x8
- DIN ISO 7089-3



Magnet catch	Slot No.	FS
	8, 10	3 842 555 568

Material: PA; signal gray RAL 7004
Steel; galvanized
Scope of delivery: Incl. counterpiece

FS1

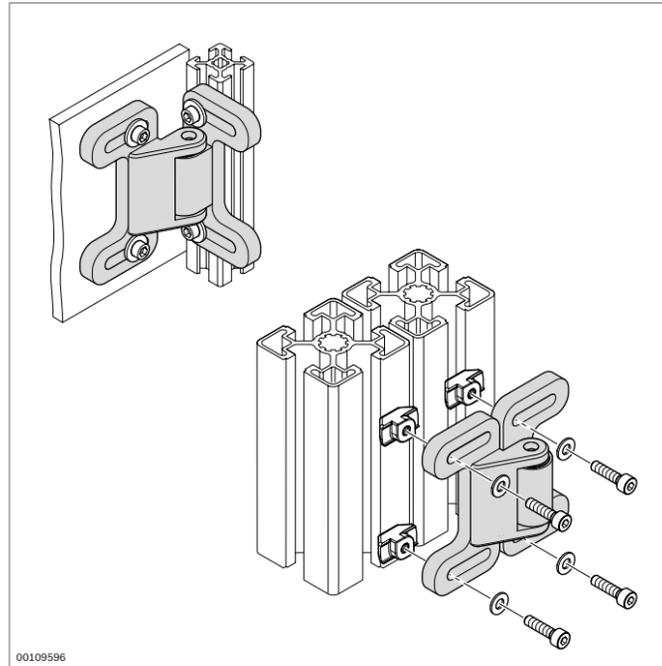


Double ball stop latch	Slot No.	FS
	10	3 842 530 241 4xFS1

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

FS1

- DIN7991 M4x16



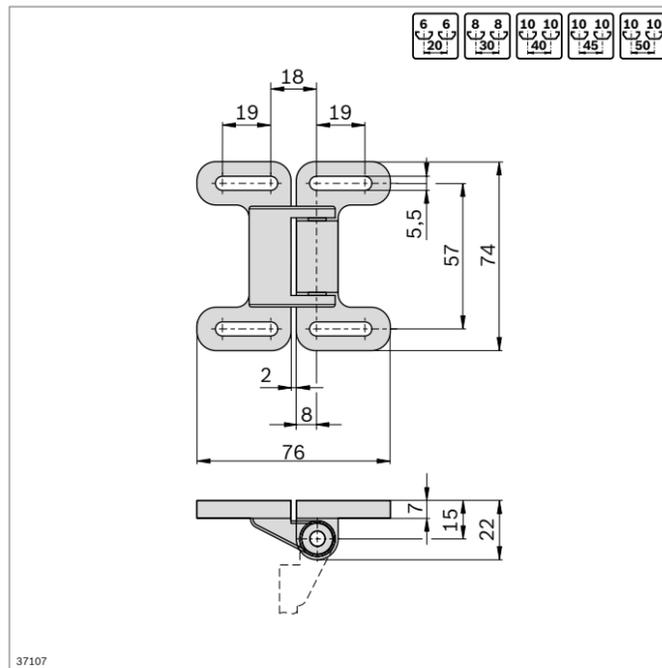
Ball catch



- ▶ 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:
Cap screw ISO 4762, washer,
T-nut (p. 3-4)

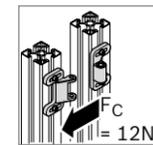
00109596



37107

Ball catch	Color	ESD	No.
	Black	10	3 842 524 986

Material: PA



Protective devices and EcoSafe partition walls



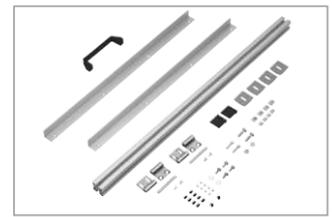
EcoSafe protective frame (p. 10-6)



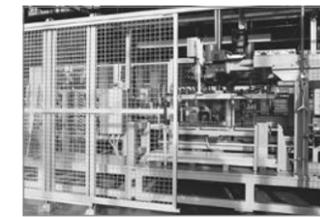
Protective grille profile (p. 10-8)



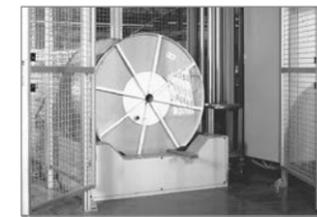
Suspension bracket, attachment kit (p. 10-10)
Tilt lever (p. 10-11)



EcoSafe system door kit (p. 10-12)



EcoSafe sliding door kit with/without superstructure (p. 10-14)



EcoSafe double door kit (p. 10-16)



Lock mechanism for double door (p. 10-17)



Ground 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. EcoSafe protective fence components are flexible to use and help comply with current standards and guidelines. 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 mechanic 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

- The protective 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 prevent hazard zones being reached by upper and lower limbs

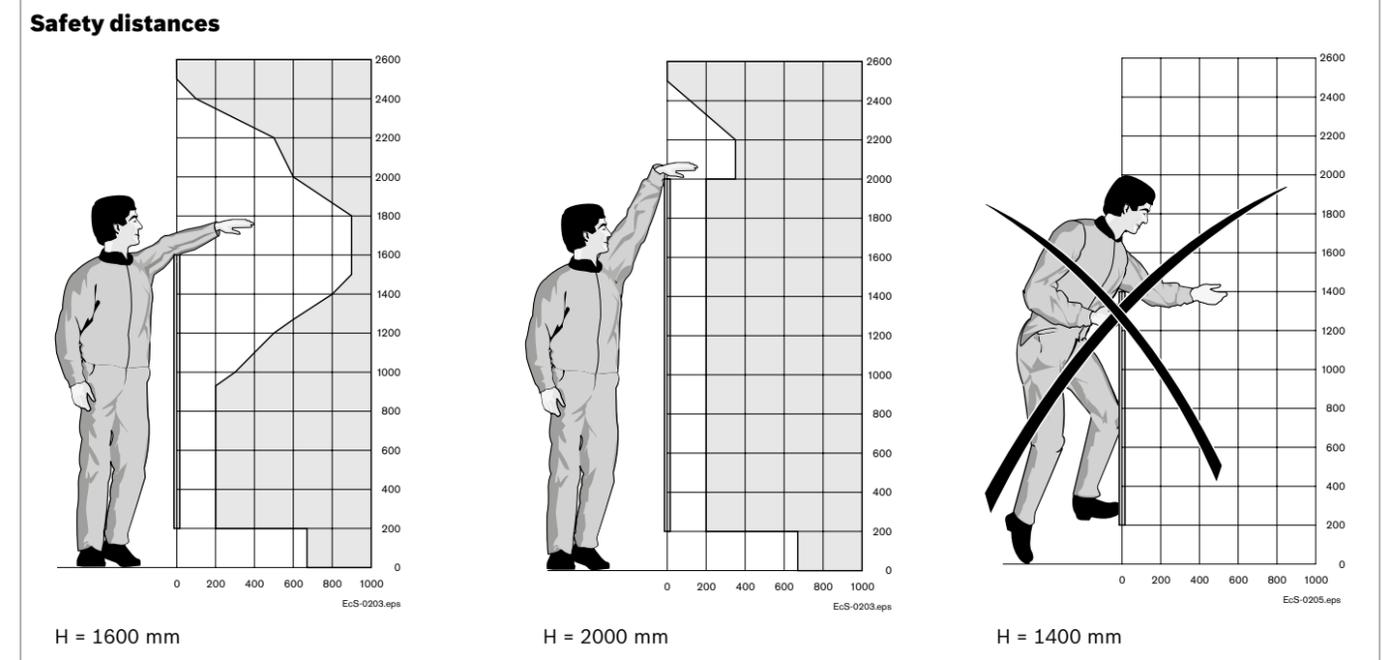
DIN EN ISO 14120

- Safety of machinery – Guards – General requirements for the design and construction of fixed and movable guards
- Rexroth protective frame tested according to pendulum test Appendix C and passed

Machinery Directive 2006/42/EC

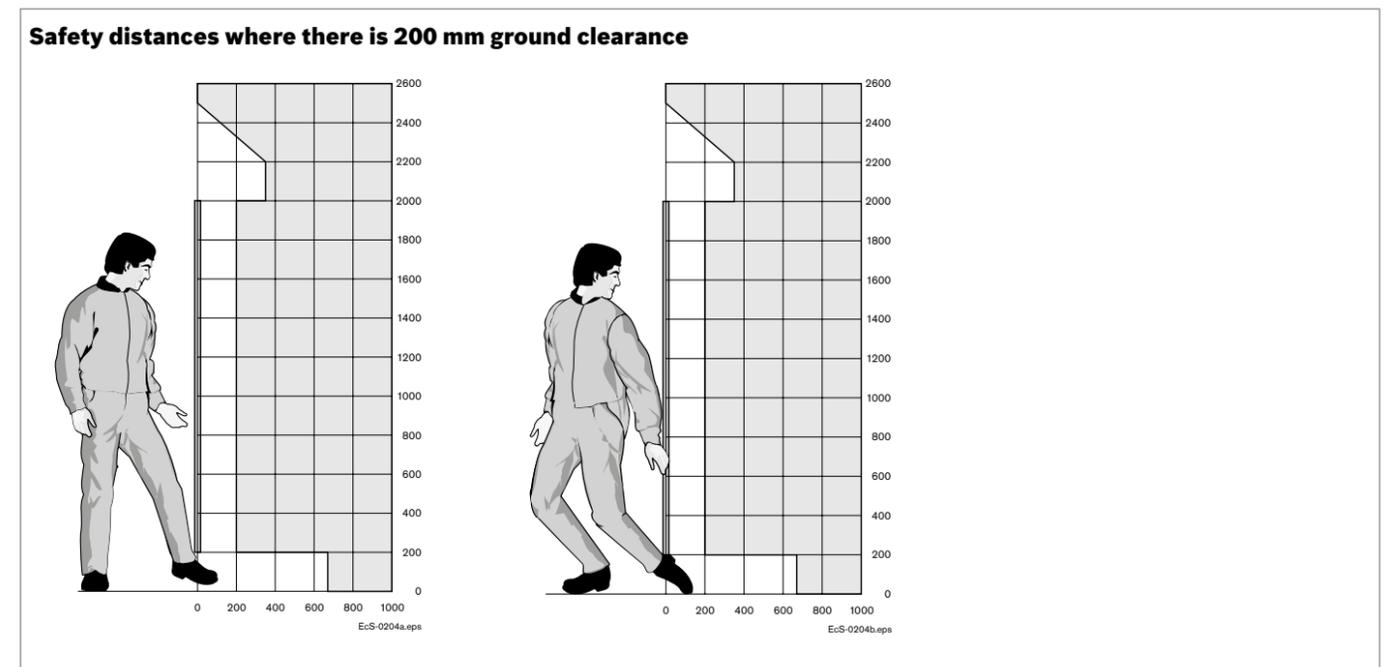
Excerpt from the requirements that apply to protective devices:

- 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



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

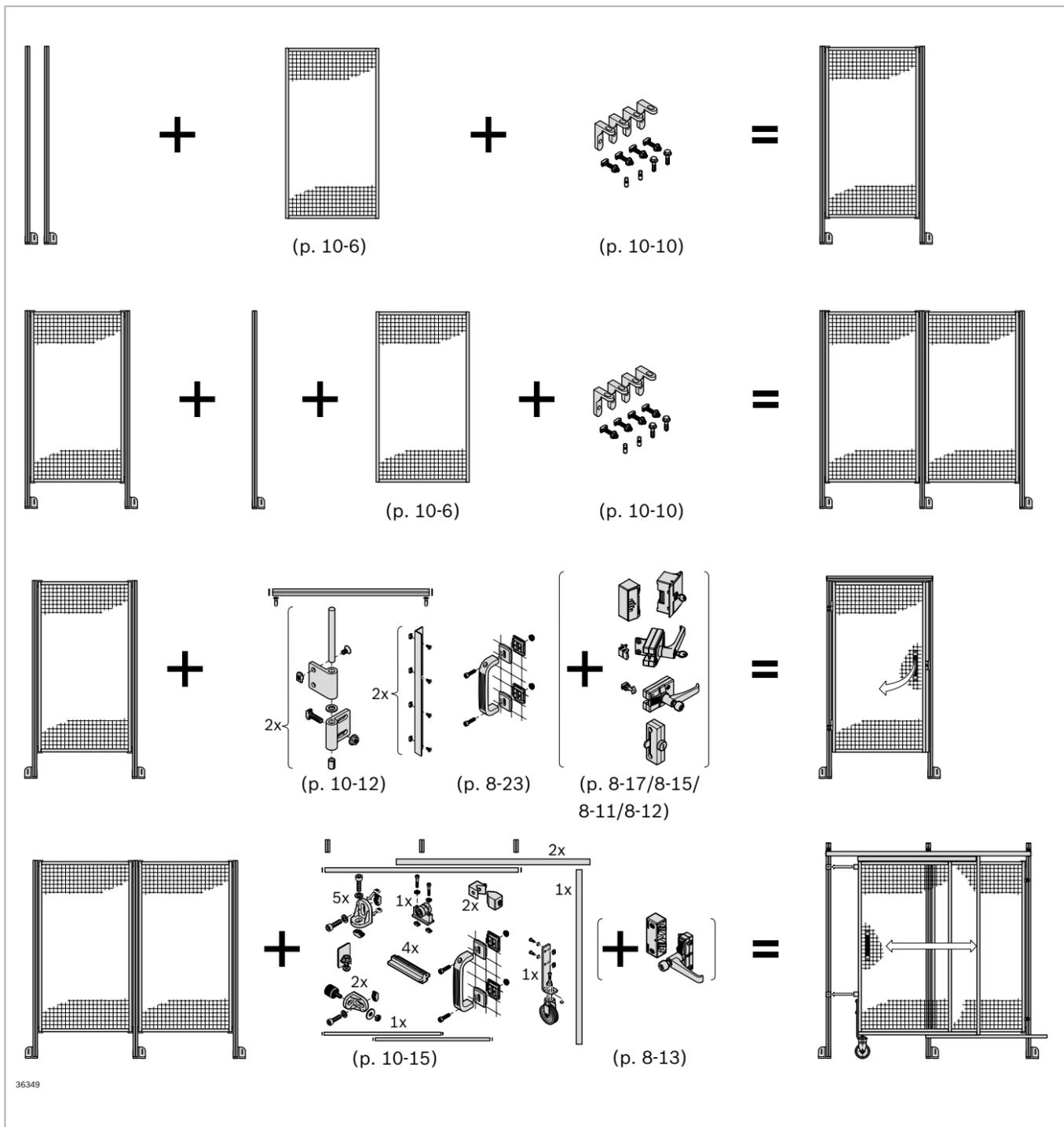
adequate protection in conjunction with a relatively small safety distance. The graphics show a profile with the safety distances for 2 different system heights (DIN EN 13857). Protective fences of under 1400 mm in height do not provide adequate protection for personnel.



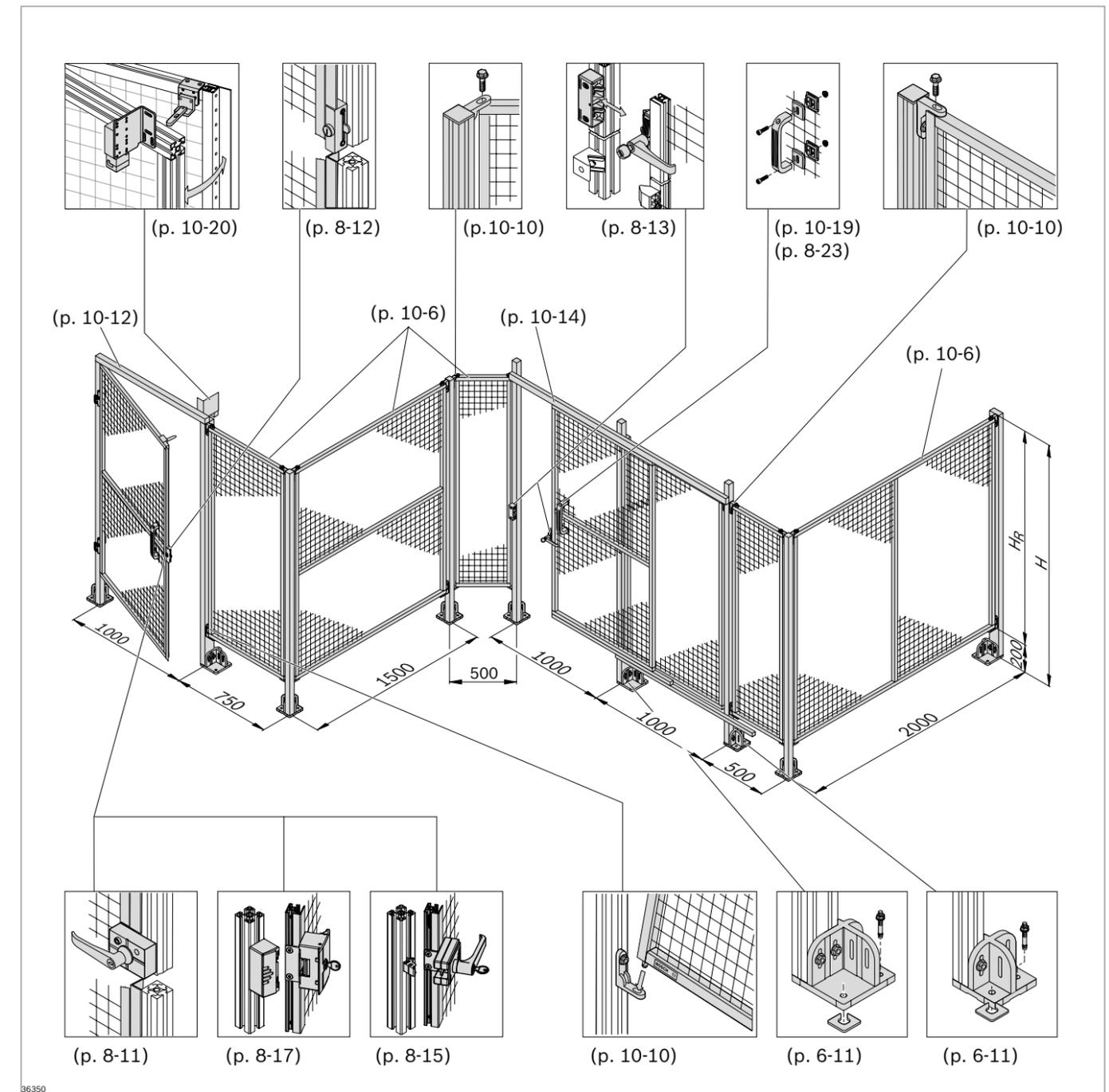
The standard distance between the protective frame and the ground is 200 mm. This gives a distance from the hazard area of 665 mm. According to the standard, openings that are

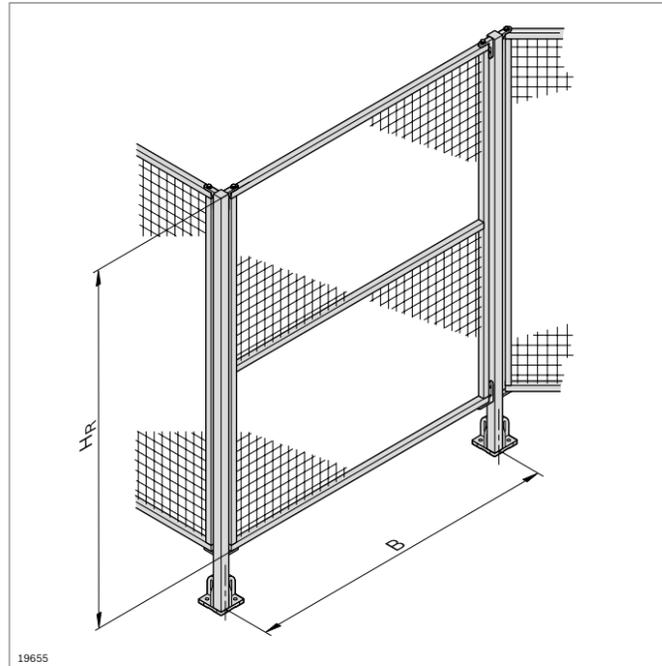
larger than 180 mm allow the whole body to fit through. Depending on the customer's requirements, the distance from the ground may have to be reduced to <180 mm.

EcoSafe components for building protective fences



EcoSafe components for building protective fences

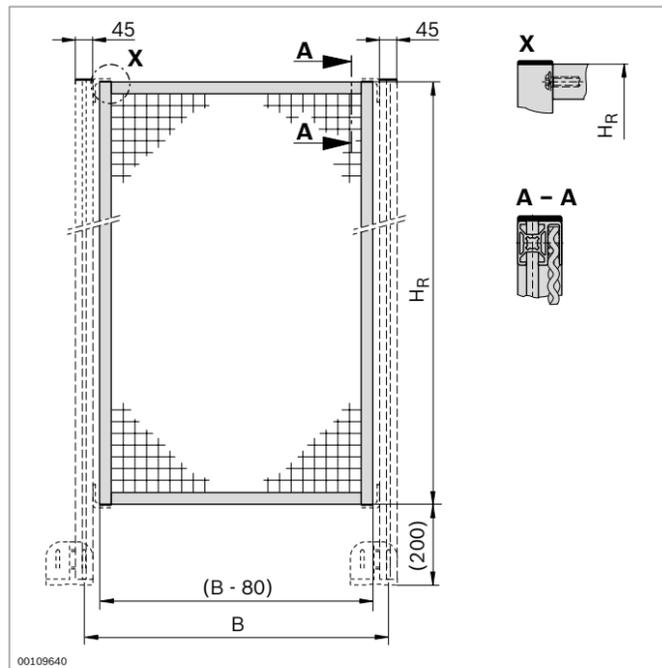




EcoSafe protective frame

- ▶ 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

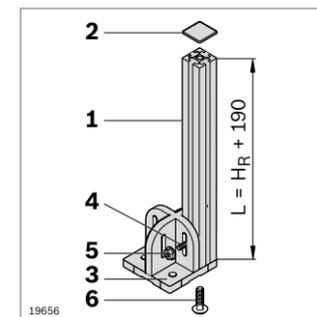
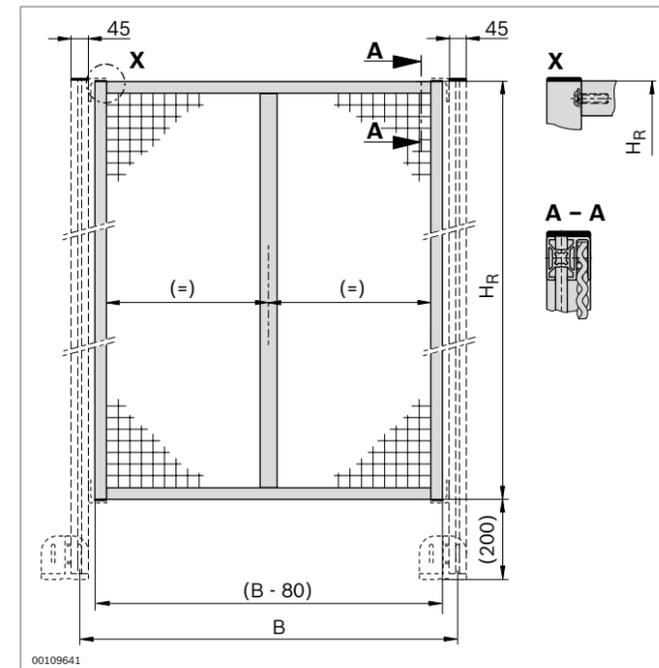
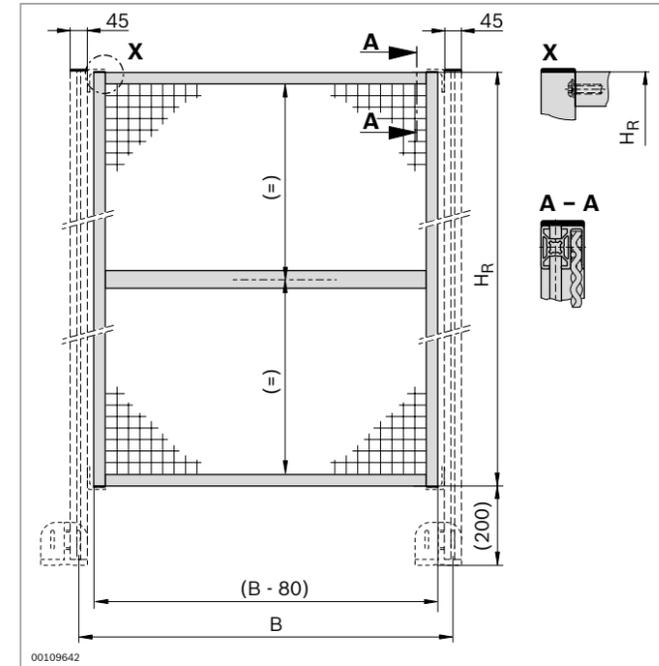
Technical data (p. 18-21)



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, FA

Material: Frame: Aluminum; anodized
Woven wire grille: Steel; hot-galvanized

Color of woven wire grille:
FA = 0: hot-galvanized
FA = 1: black; RAL 9005 (e.g. for fence)
FA = 2: yellow; RAL 1023 (e.g. for doors)



Protective frame, 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, FA

Material: Frame: Aluminum; anodized
Woven wire grille: Steel; hot-galvanized

Color of woven wire grille:
FA = 0: hot-galvanized
FA = 1: black; RAL 9005 (e.g. for fence)
FA = 2: yellow; RAL 1023 (e.g. for doors)

Protective frame, vertical sections	H _R (mm)	B (mm)	No.
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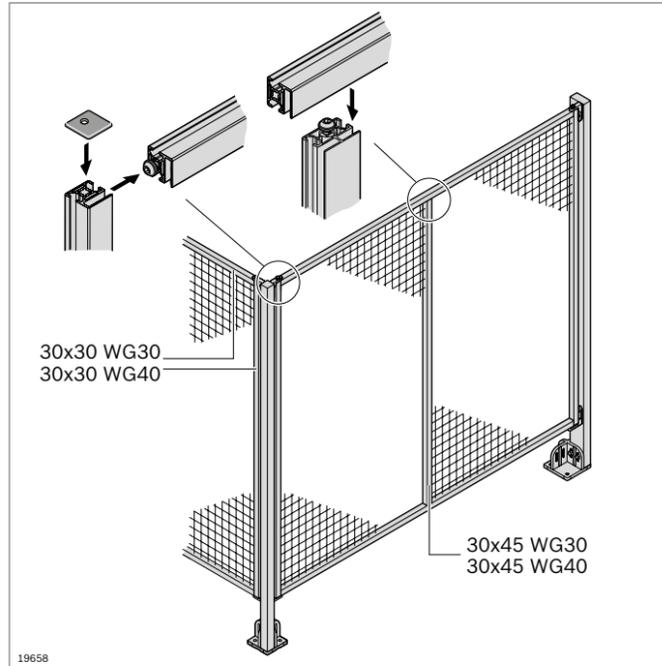
	1800	2000	3 842 554 280
	250...2300	500...3000	3 842 994 744 / H_R, B, FA

Material: Frame: Aluminum; anodized
Woven wire grille: Steel; hot-galvanized

Color of woven wire grille:
FA = 0: hot-galvanized
FA = 1: black; RAL 9005 (e.g. for fence)
FA = 2: yellow; RAL 1023 (e.g. for doors)

Individually construct the supports using MGE components

Component	No.	Pcs	Page
1 Profile 45x45L	3 842 992 425 / L	1	2-35
2 Cover cap	3 842 548 753	1	2-35
3 Base plate 120x120	3 842 527 553	1	6-11
4 T-bolt M8x30	3 842 528 721	2	3-6
5 Flange nut M8	3 842 345 081	2	3-6
6 Central bolt S12x30-T50	3 842 530 236	1	3-41



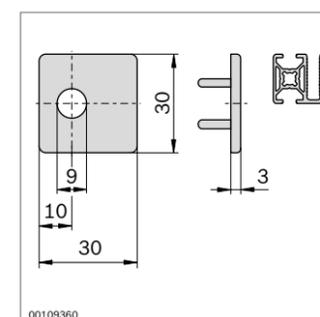
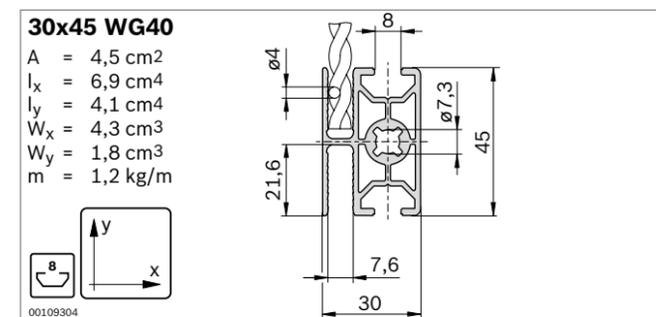
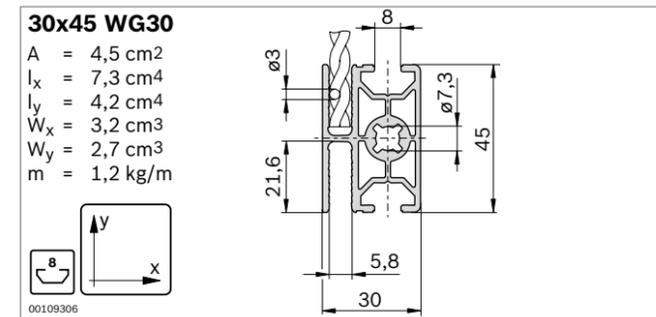
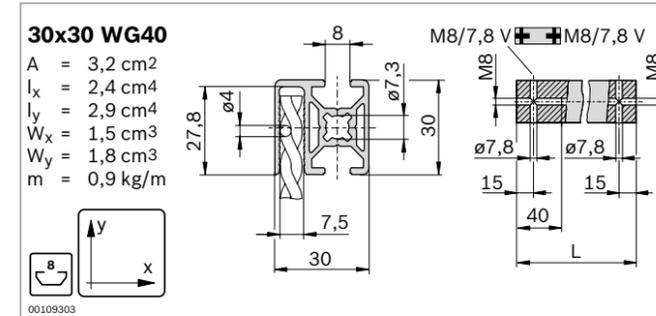
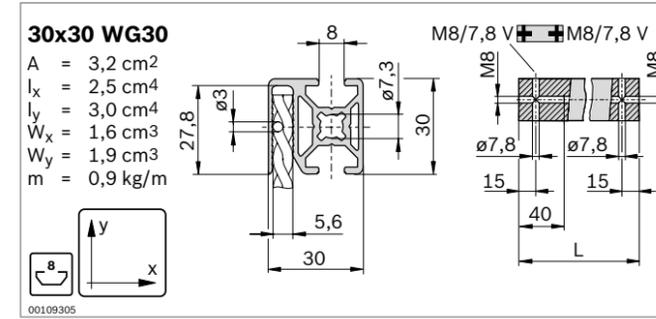
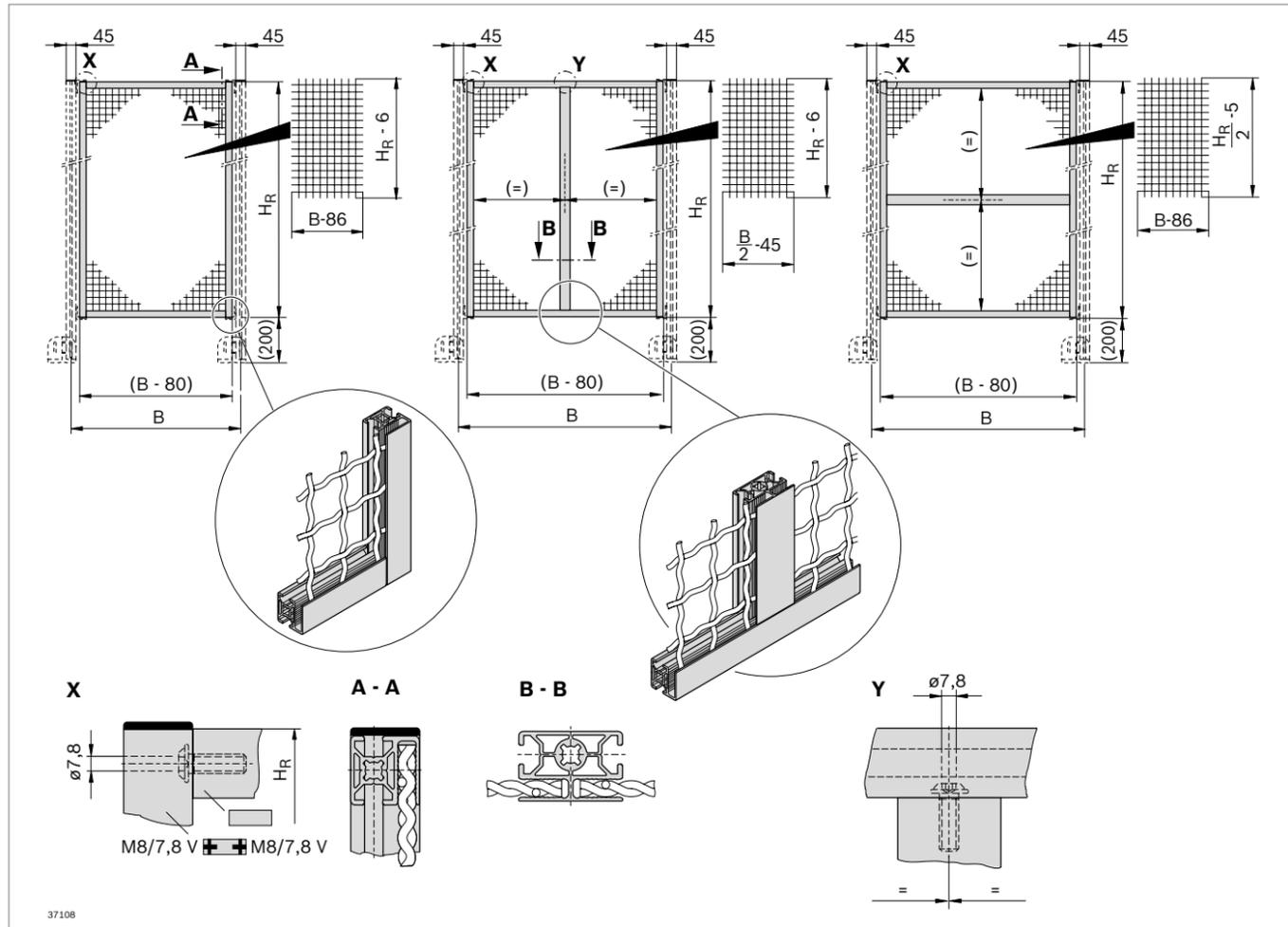
Protective grille profiles



- ▶ For the low-cost construction of protective devices with woven wire grilles WG30 and WG40
- ▶ Fastening of woven wire grilles: Directly in the special profile slot
- ▶ Fastening of panel elements: In the special profile slot using spring clamping elements (accessories)
- ▶ The profiles are connected using a central bolt (profile finishing required)
- ▶ Modular dimension "B" relates to 45x45 supports

Required accessories:

- ▶ Central bolt (p. 3-41)
- ▶ Woven wire grille (p. 10-6)
- ▶ Spring clamping elements (p. 10-21)



Protective grille profile		L (mm)	No.
30x30 WG30			
1 pc		100 ... 6070	3 842 992 970 / L
1 pc	M8/7,8V	100 ... 6000	3 842 992 977 / L
20 pcs		6070	3 842 557 227

Material: Aluminum; anodized

Protective grille profile		L (mm)	No.
30x30 WG40			
1 pc		100 ... 6070	3 842 992 972 / L
1 pc	M8/7,8V	100 ... 6000	3 842 992 978 / L
20 pcs		6070	3 842 557 229

Material: Aluminum; anodized

Protective grille profile		L (mm)	No.
30x45 WG30			
1 pc		100 ... 6070	3 842 992 971 / L
20 pcs		6070	3 842 557 228

Material: Aluminum; anodized

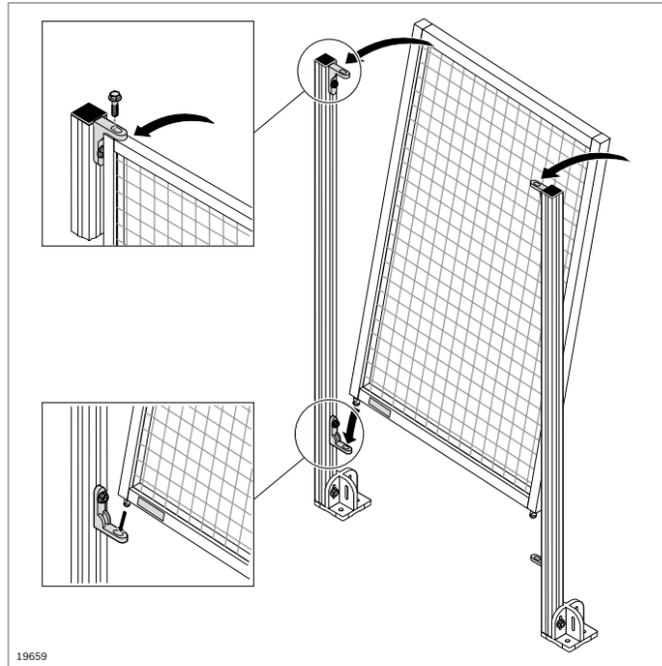
Protective grille profile		L (mm)	No.
30x45 WG40			
1 pc		100 ... 6070	3 842 992 973 / L
20 pcs		6070	3 842 557 240

Material: Aluminum; anodized

- ▶ Cover cap for a more attractive appearance and to prevent injuries

Cover cap	Color	No.
30x30	Black	100 3 842 522 345

Material: PA; black



Suspension bracket Safety strip safety kit

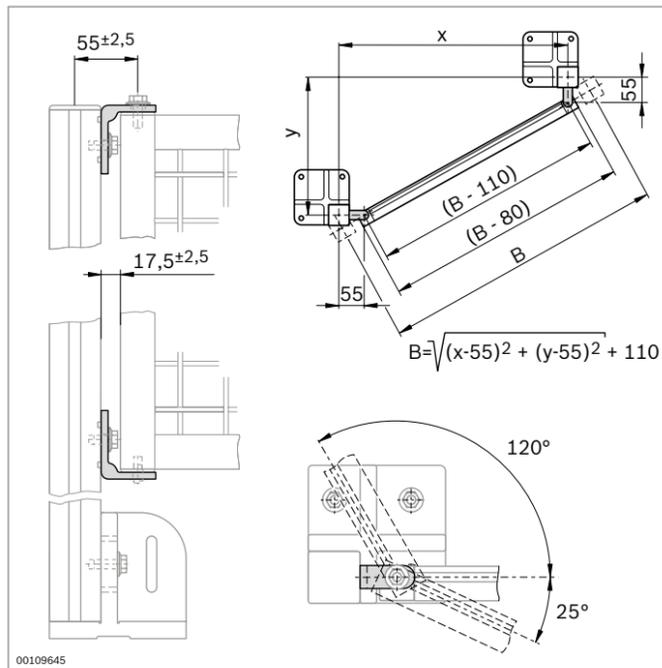


Suspension bracket

- ▶ For mounting the EcoSafe protective frame on the support at various angles
- ▶ Suspension bracket with centering lugs as anti-torsion element

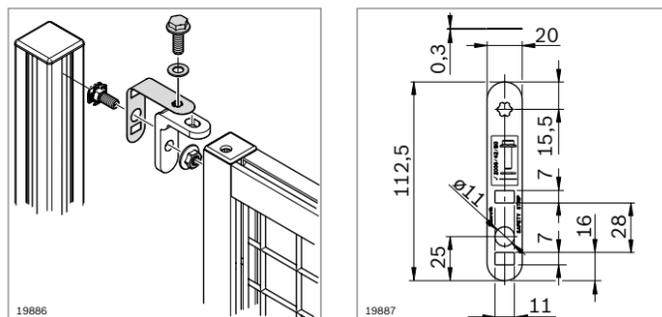
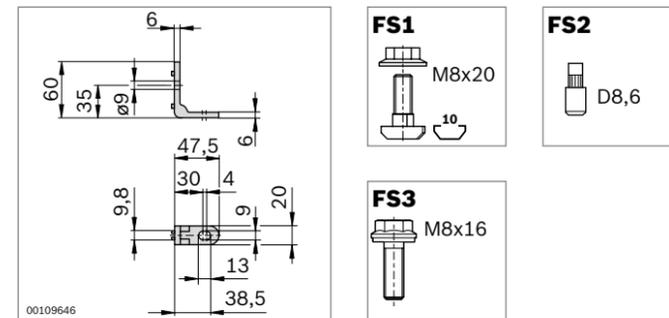
Safety strip safety kit

- ▶ 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



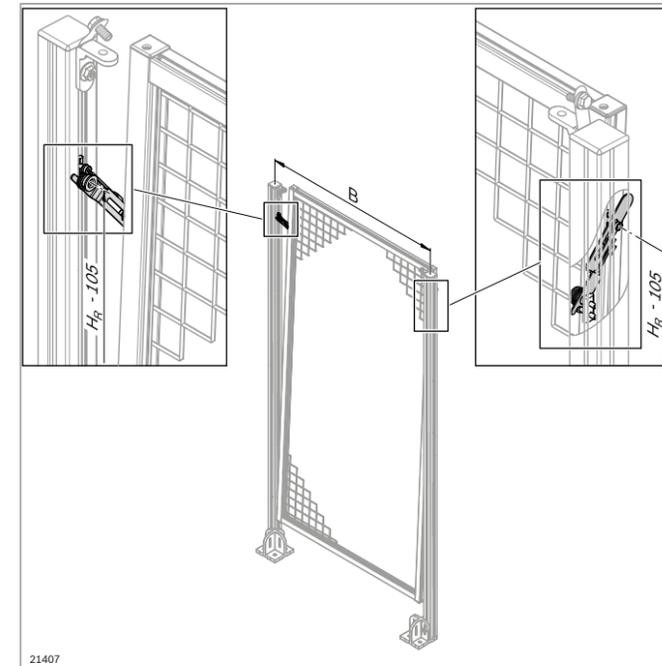
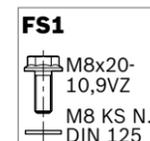
Suspension bracket	No.	FS
Set	3 842 522 481	4x FS1, 2x FS2, 2x FS3

Material: Diecast zinc
Fastening material: Steel; galvanized
Scope of delivery: In a set with four brackets, incl. fastening material (FS)



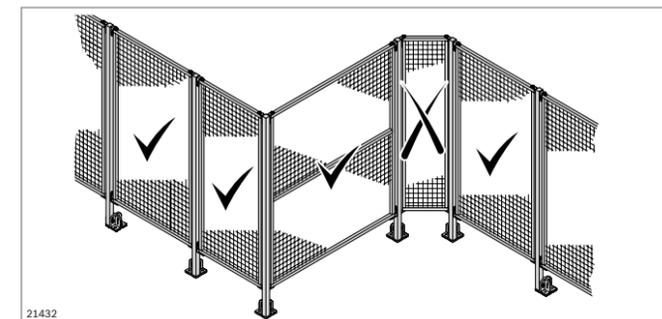
Safety strip safety kit	No.	FS
	10	3 842 542 146 FS1

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



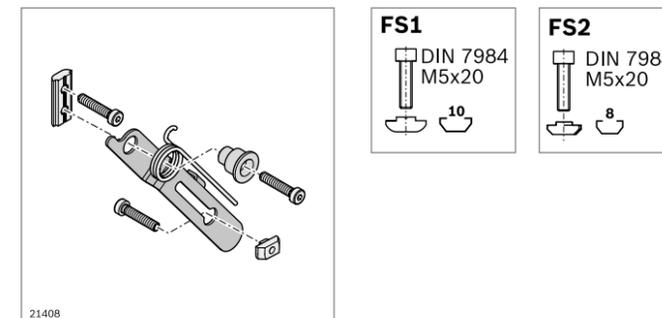
Tilt lever

- ▶ 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
 - 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



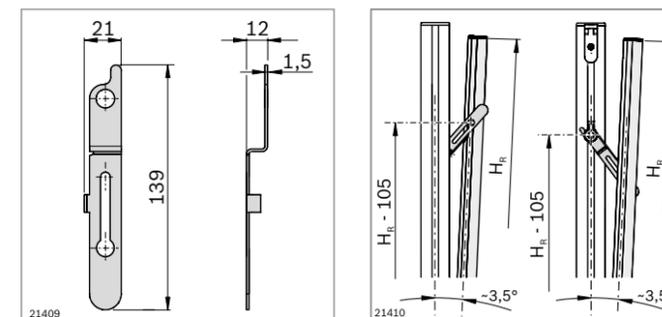
Possible installation situation:

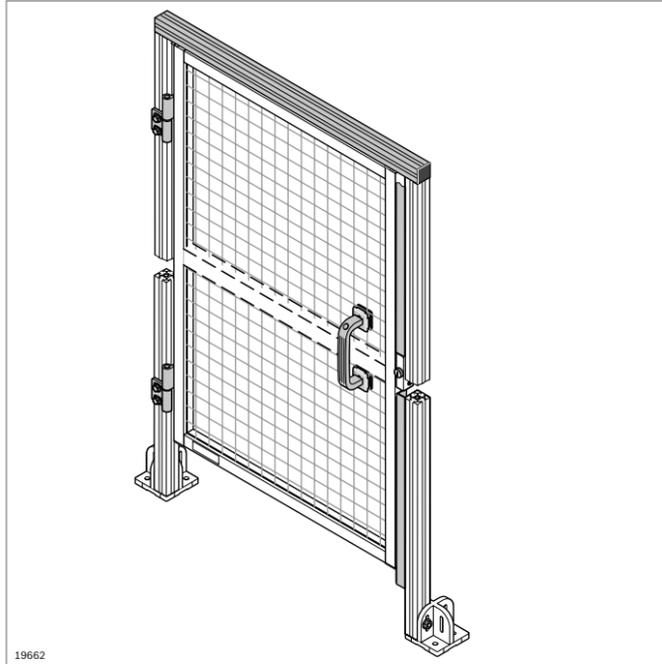
- ▶ Not suitable for installing the protective frame across a corner



Tilt lever	No.	FS
	3 842 546 560	FS1, FS2

Material: Holding plate: Stainless steel
Spacer: Aluminum
Long-arm spring: Spring steel
Scope of delivery: Holding plate, spacer, long-arm spring, fastening material (FS)



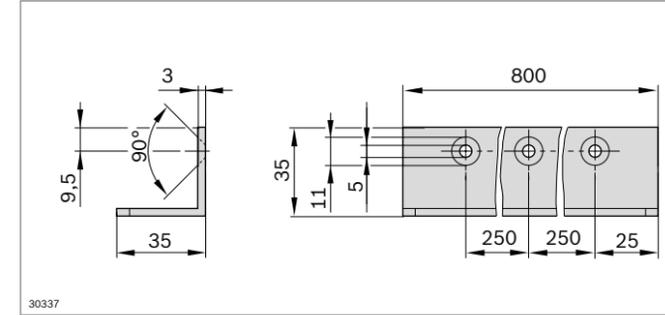


EcoSafe system door kit

- ▶ 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)

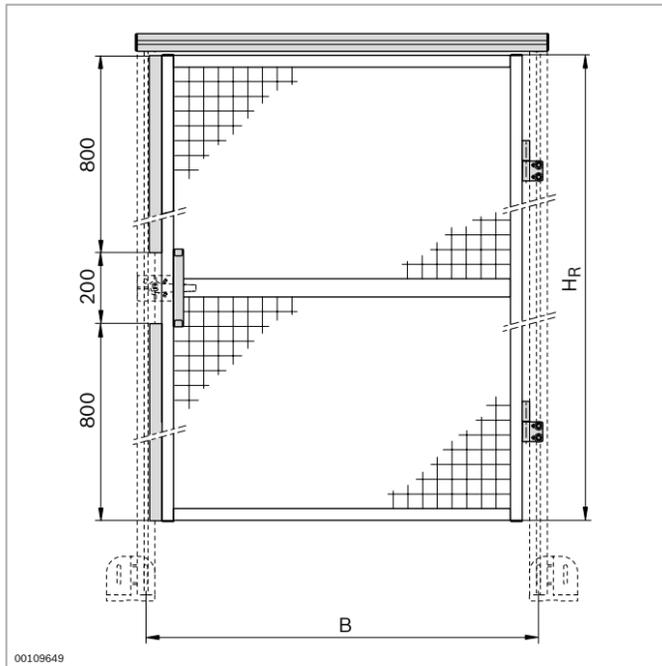
Optional accessories:

- ▶ Door lock (p. 8-11, 8-12, 8-15, 8-16, 8-17)
- ▶ Attachment kit for safety switch (p. 10-20)



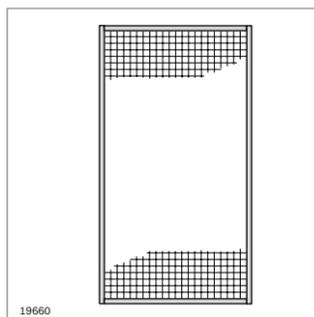
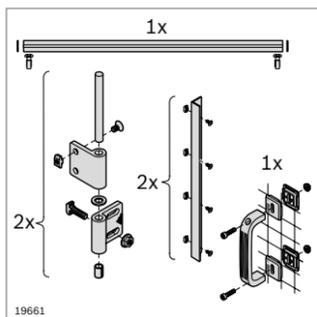
- ▶ System door stop rail for self-assembly

Stop rail	No.
	3 842 523 170



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-type handle, incl. fastening material

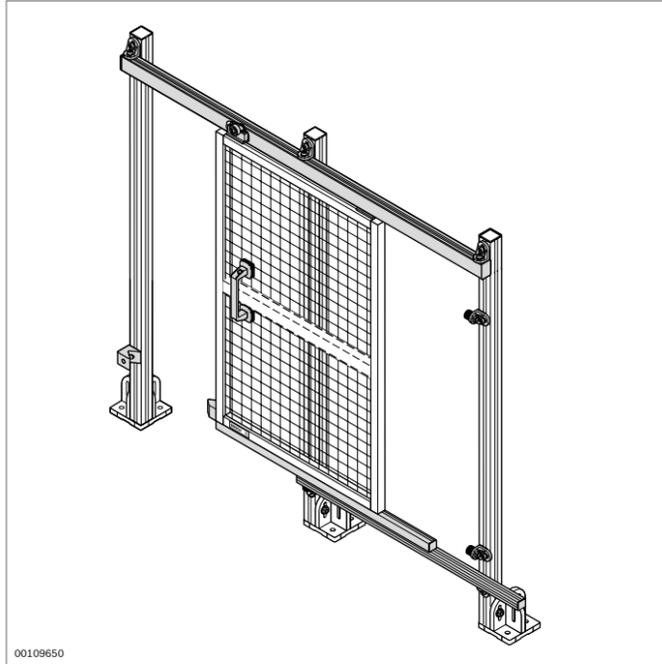


Selection of suitable protective frames

Protective frame	H _R (mm)	B (mm)	No.
Protective frame, 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

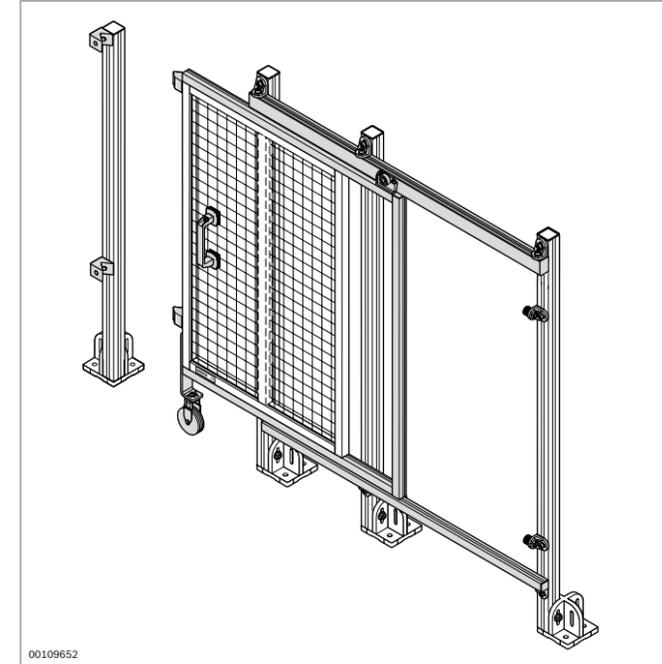


EcoSafe assembly kit for sliding door with superstructure

- ▶ 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)

Optional accessories:
Door lock (p. 8-11/8-13)

00109650

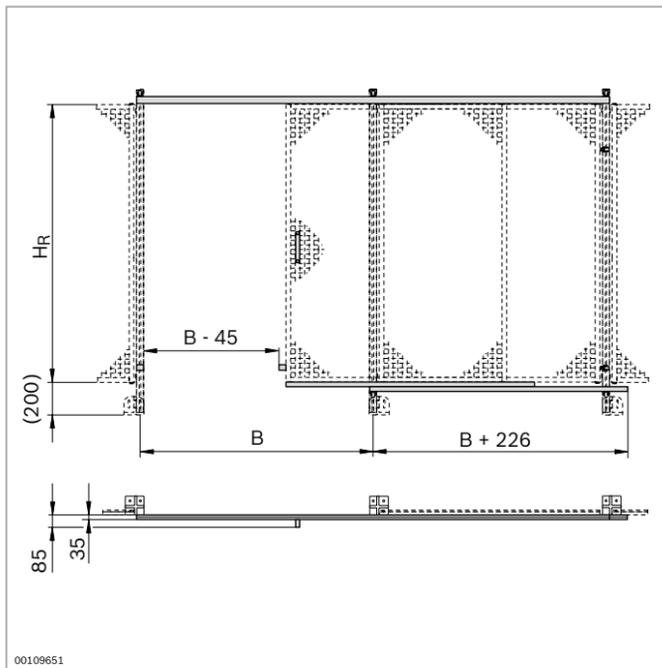


EcoSafe assembly kit for sliding door without superstructure

- ▶ Assembly kit for constructing an EcoSafe sliding door without superstructure in the modular dimension system
- ▶ Use of finished protective frame as a door
- ▶ 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)
- ▶ Also available with leg sets with 45x90L profiles for more stability

Optional accessories:
Door lock (p. 8-11/8-13)

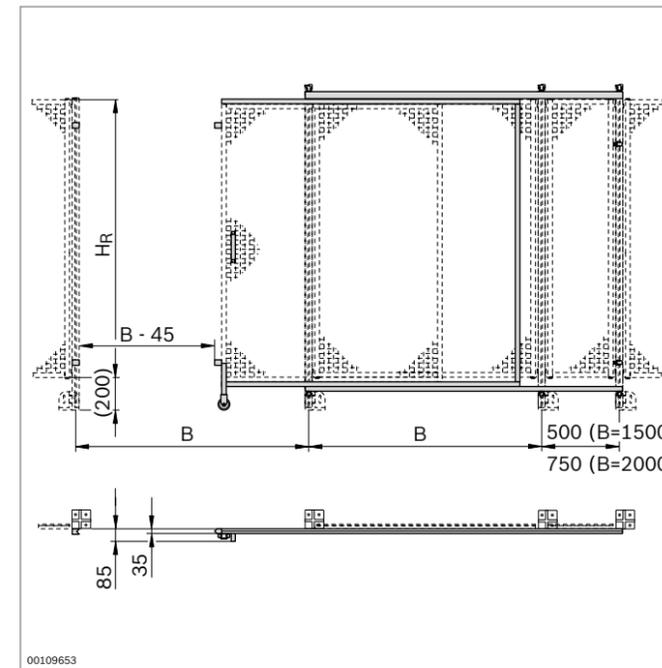
00109652



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 bumper, 2 x slider, 2 x trolley, profile for door superstructure, 7 x mounting bracket, stop kit, 2 x profile for sliding door

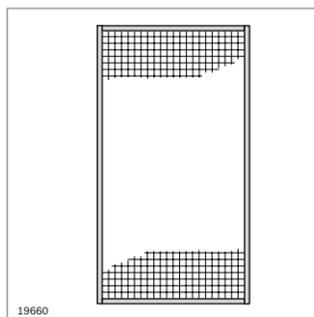
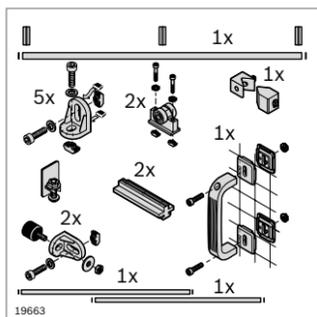
00109651



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

00109653



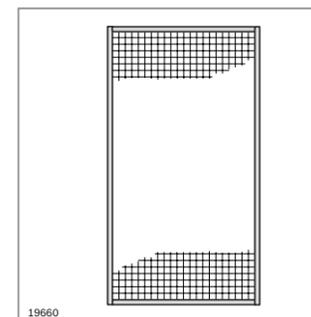
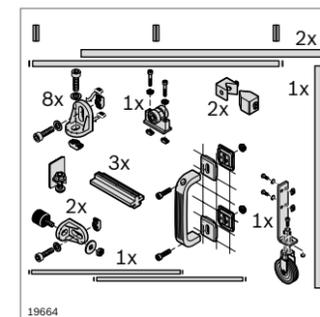
Selection of suitable protective frames

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

19663

19660



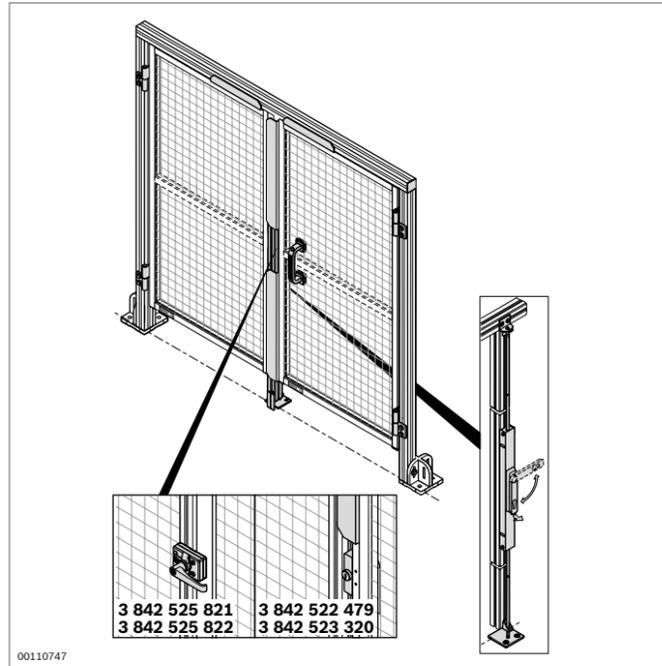
Selection of suitable protective frames

Protective frame	H _R (mm)	B (mm)	No.
Protective frame	1800	1500	3 842 554 285
Protective frame, vertical sections	1800	2000	3 842 554 280

Material: Aluminum, anodized; woven wire grille and fastening material: Steel; galvanized
Scope of delivery: Fully assembled

19664

19660

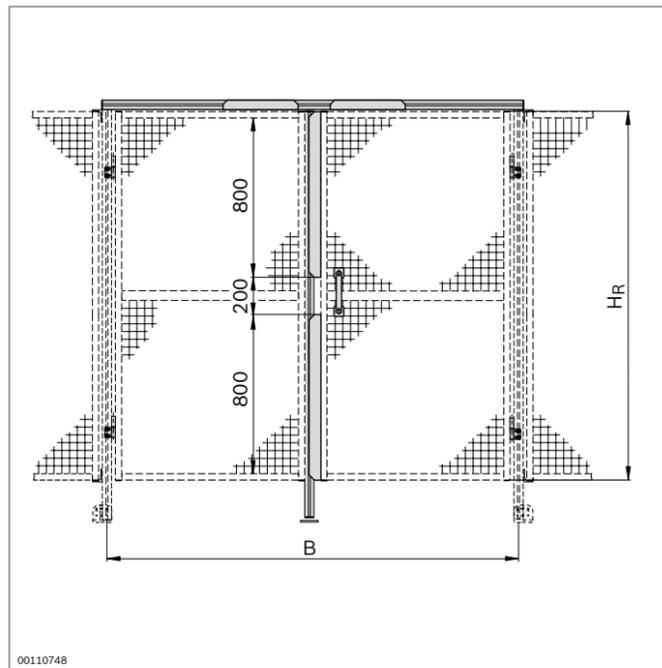


EcoSafe double door kit

- ▶ 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)

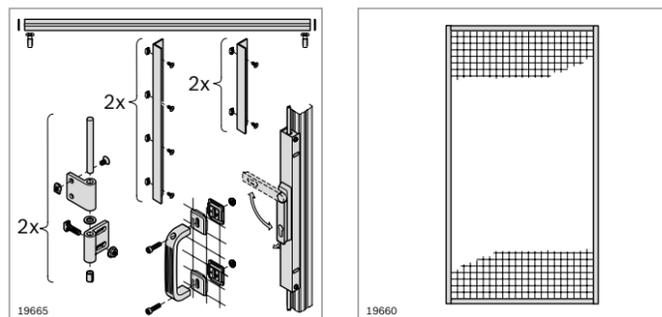
Optional accessories:

- ▶ Door lock (p. 8-11/8-12)
- ▶ Attachment kit for safety switch (p. 10-20)
- ▶ Conventional lock cylinder 35/35 is not included in the scope of delivery



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 assembly kit, profile for door superstructure, profile for door stop, 4x hinges, lock bracket, base plate, bow-type handle, 2x horizontal brackets, 2x vertical brackets, rail, fastening material

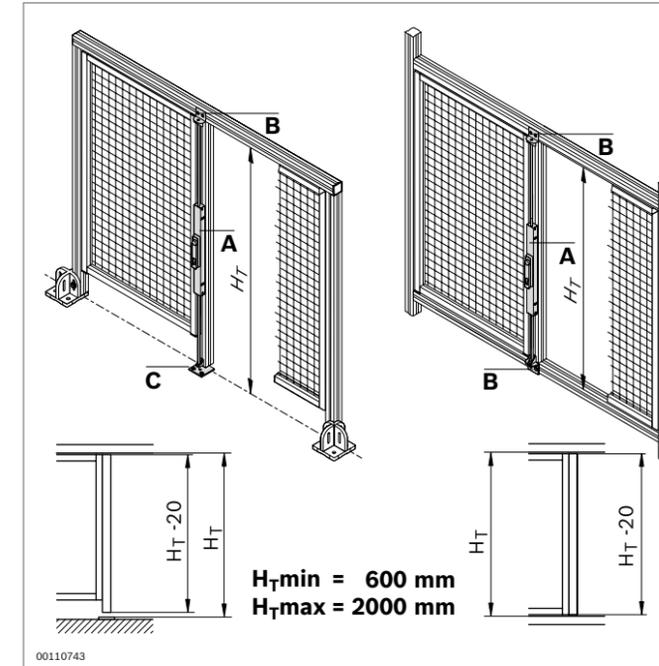


Selection of suitable protective frames

Protective frame	H _R (mm)	B (mm)	No.
Protective frame	1800	750	3 842 554 283
Protective frame, horizontal sections	1800	1000	3 842 554 281

Material: Aluminum, anodized; woven wire grille and fastening material: Steel; galvanized

Condition on delivery: Fully assembled



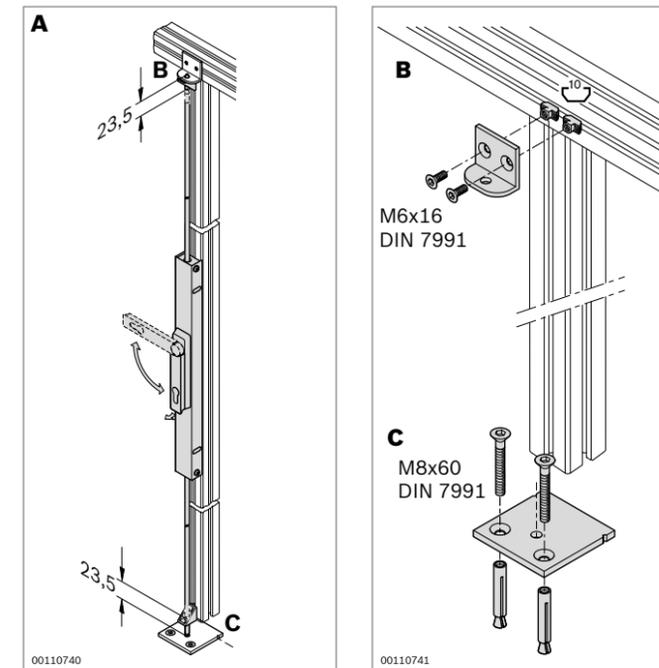
Lock mechanism for double door



- ▶ 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 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

Optional accessories:

Conventional lock cylinder 35/35 is not included in the scope of delivery



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

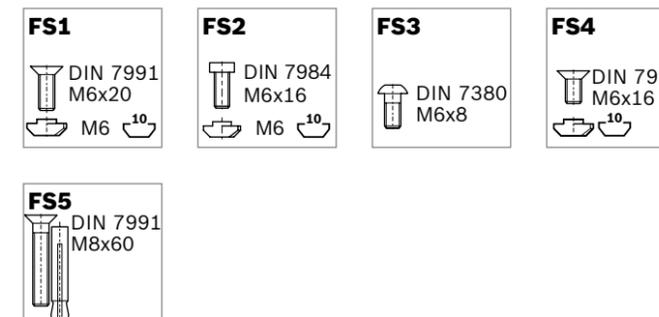
Scope of delivery: Lock mechanism for double door, incl. fastening material (FS)

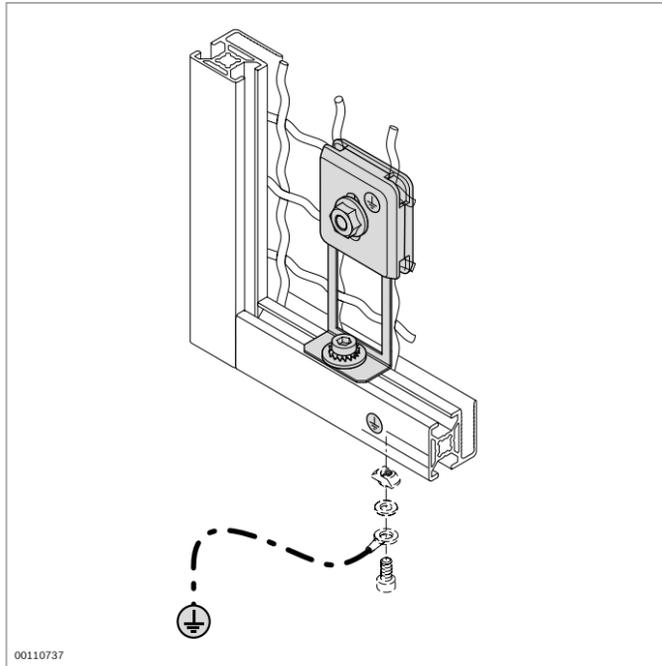
Lock bracket	No.	FS
B	3 842 526 786	2xFS4

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



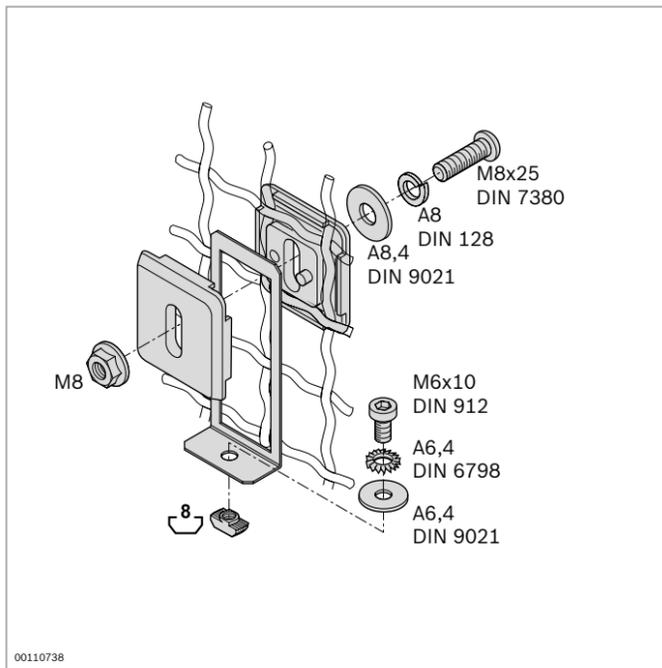


00110737

Ground 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

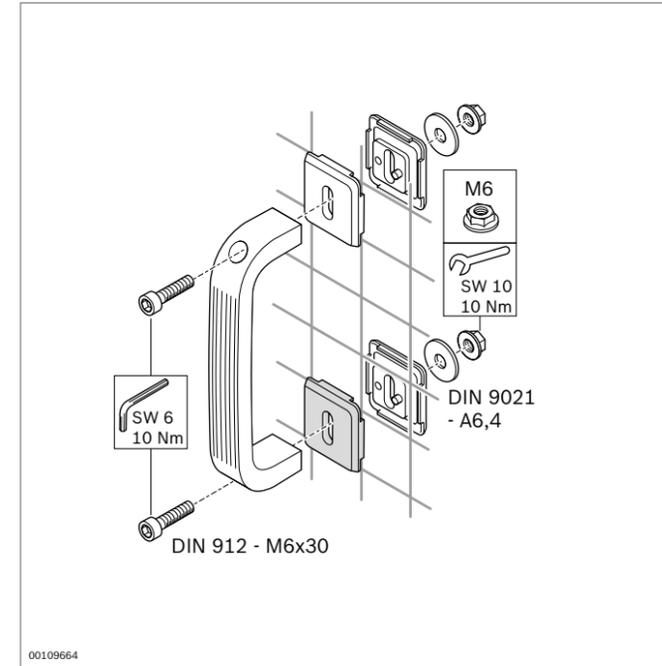
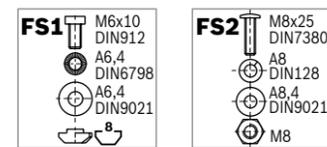


00110738

Ground terminal	No.	FS
	3 842 525 833	FS1, FS2

Material: Ground terminal: Steel; stainless
Clamping element: PA; black
Fastening material: Steel; galvanized

Scope of delivery: Incl. fastening material (FS)

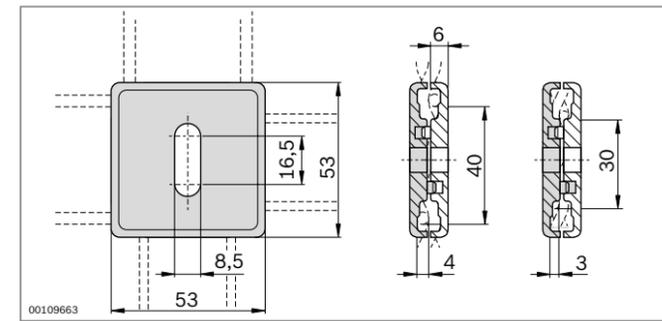


00109664

Clamping element

- For attaching handles, information boards or warning signs to woven wire grilles 40x40x4 and 30x30x3
- Clamping with opposing pairs of clamping elements

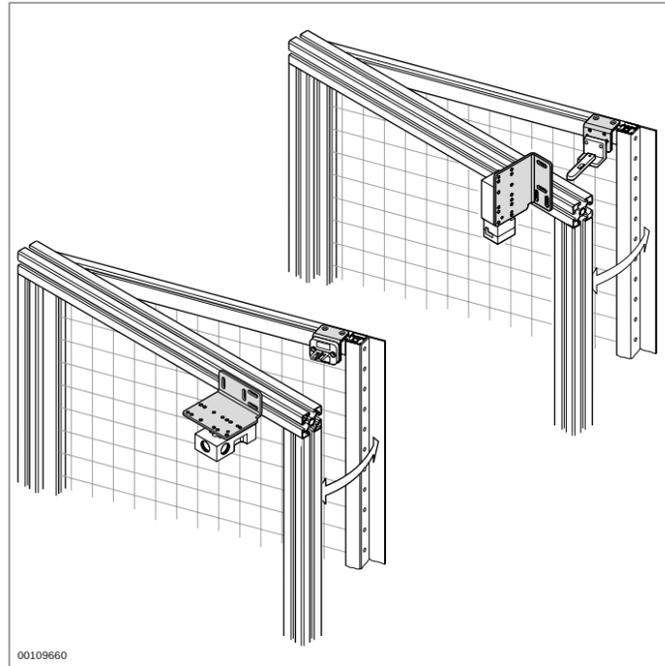
Required accessories:
Fastening material; see drawing



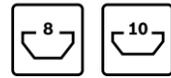
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Clamping element	No.
	20 3 842 523 308

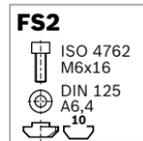
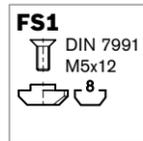
Material: PA66, black



Attachment kit for safety switch

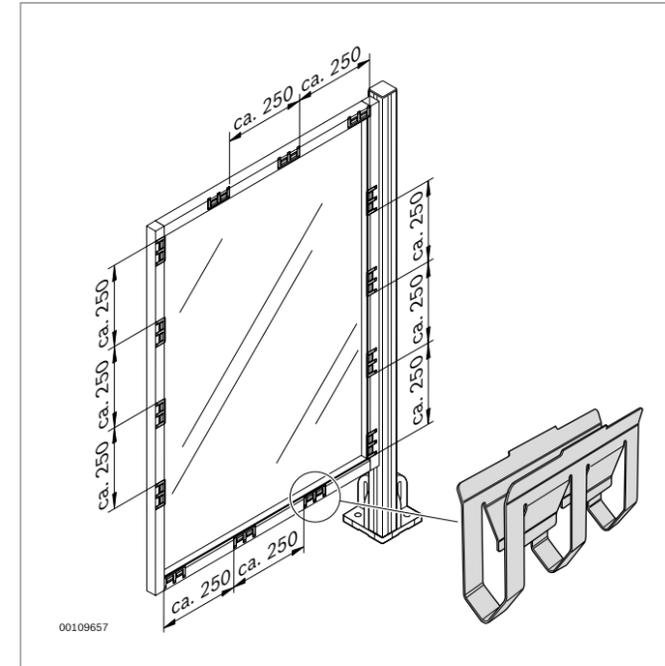


- For installing standard commercially available safety switches on EcoSafe system doors



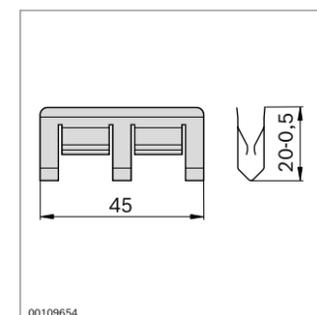
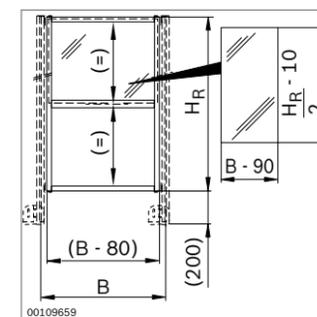
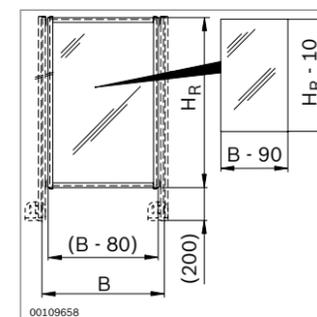
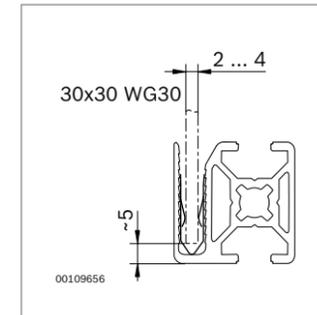
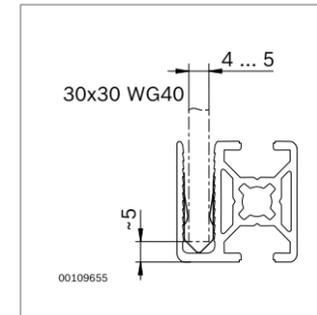
Attachment kit for safety switch		No.	FS
For safety switch	For actuator		
Euchner NZ 1 VZ...	024298; 024299	3 842 522 475	2xFS1,
Euchner NZ 2 VZ...	024298; 024299		2xFS2
Euchner NZ 1 VS...	024298; 024299		
Euchner NZ 2 VS...	024298; 024299		
Schmersal AZ15,...	AZ15/16-B2-1747		
Schmersal AZ16,...	AZ15/16-B2-1747		
Schneider Electric XCS - A...	XCS-Z03		
Schneider Electric XCS - C...	XCS-Z03		
Schneider Electric XCS - PA...	XCS-Z13		
Schneider Electric XCS - TE...	XCS-Z13		
Euchner TZ...	024298; 024299	3 842 522 476	2xFS1,
Schneider Electric XCS - LE/ LF...	XCS-Z03		2xFS2
Schneider Electric XCS - TE...	XCS-Z13		
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)



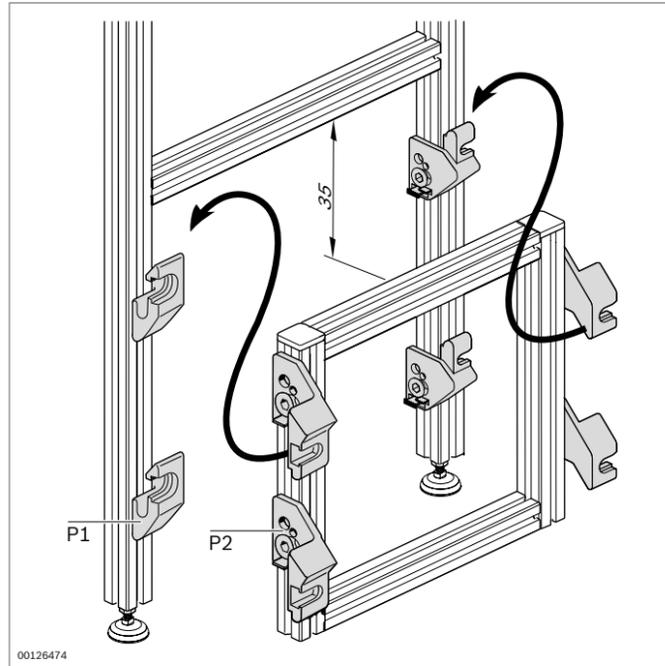
Spring clamping element

- For clamping panel 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

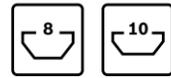


Spring clamping element	No.
	100 3 842 525 014

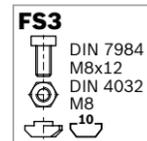
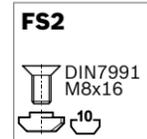
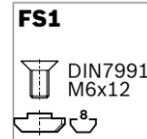
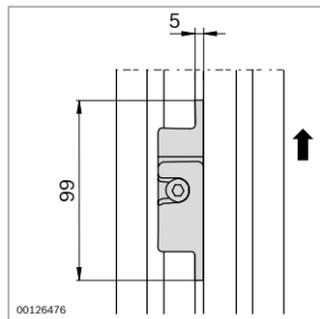
Material: Spring steel, stainless



Suspension piece for frames

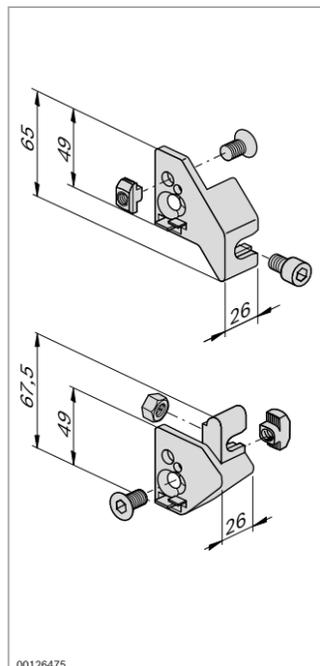


- ▶ Very quick fitting and removal of pre-assembled frames in prepared supporting structures
- ▶ Protection against unintentional lifting out due to both parts of the suspension piece being screwed in
- ▶ Notes on compliance with the Machinery Directive 2006/42/EC: Please note that fastening parts may work loose during disassembly



Suspension piece	P1	P2	No.	FS
Set	45	30	3 842 515 531	4x FS1, 4x FS2, 4x FS3
Set	45	45	3 842 515 863	8x FS2, 4x FS3

Material: Diecast zinc
 Scope of delivery: Four suspension pieces, incl. fastening material (FS)



Installation elements



Cable duct PVC (p. 11-2)



Cable duct AL (p. 11-3)



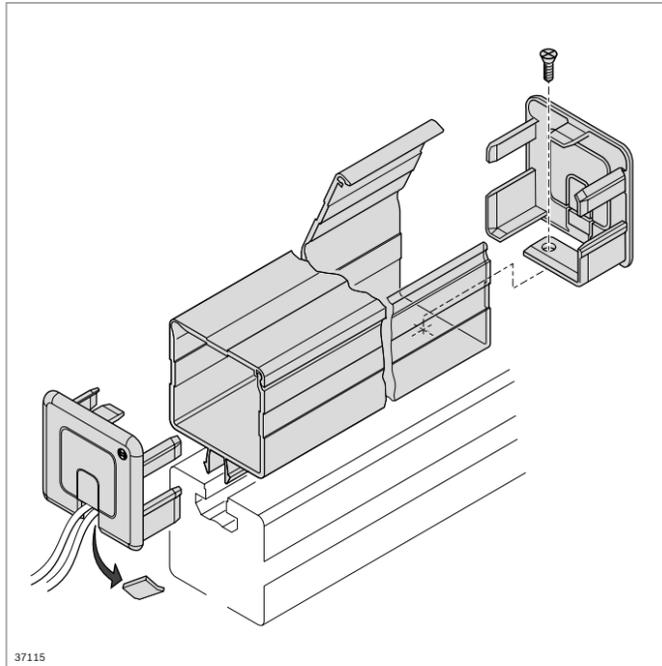
Cable bracket (p. 11-10)



Quick-lock (p. 11-11)

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.

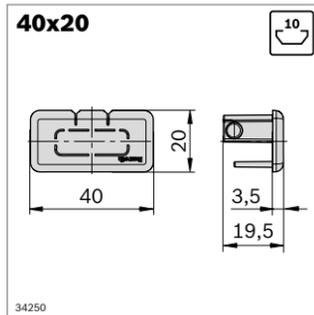
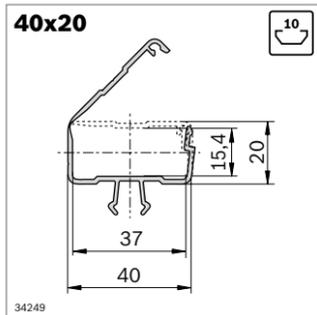
Cable ducts and cable brackets are therefore important elements in terms of maintenance-friendly electrical installation on all kinds of constructions made of basic mechanic elements.



Cable duct



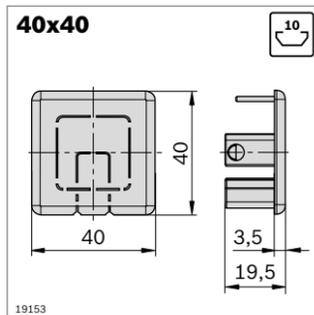
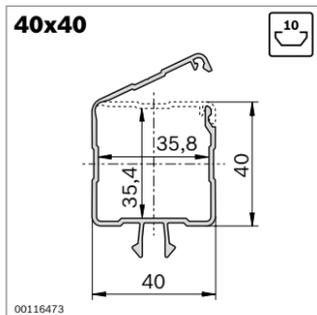
- ▶ Cable duct for routing electrical lines
- ▶ Captive cover
- ▶ Very easy to access
- ▶ Large usable volume
- ▶ Simple, fast assembly – just clips into the 10 mm slot
- ▶ Cover cap for sealing the cable duct with pre-punched holes for running cables through
- ▶ VDE certified
- ▶ An ESD-conductive connection made of plastic between the profile and the cable duct must be ensured by a suitable design solution, e.g. screw



	L (mm)	Color	ESD	No.
Cable duct 40x20	2000	Black	⚡	1 3 842 555 670
Cover cap 40x20		Black	⚡	10 3 842 555 671
Cable duct 40x20	2000	Signal gray		1 3 842 557 443
Cover cap 40x20		Signal gray		10 3 842 557 444

Material: Cable duct: PVC
Cover cap: PP

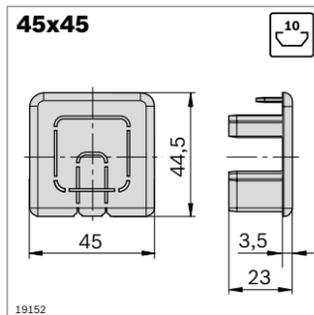
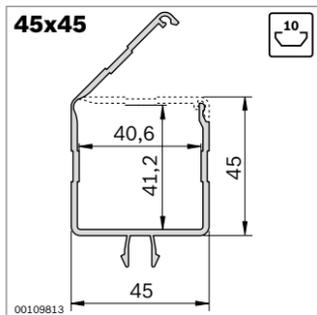
Scope of delivery: Cover cap incl. fastening screws



	L (mm)	Color	No.
Cable duct 40x40	2000	Black	1 3 842 532 363
Cover cap 40x40		Black	10 3 842 535 921

Material: Cable duct: PVC
Cover cap: PA

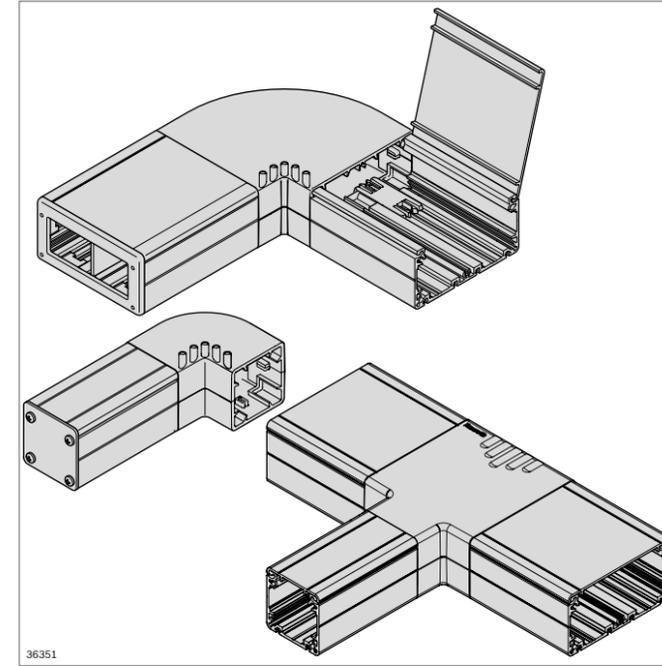
Scope of delivery: Cover cap incl. fastening screws



	L (mm)	Color	No.
Cable duct 45x45	2000	Black	1 3 842 523 014
Cover cap 45x45		Black	10 3 842 535 676

Material: Cable duct: PVC
Cover cap: PA

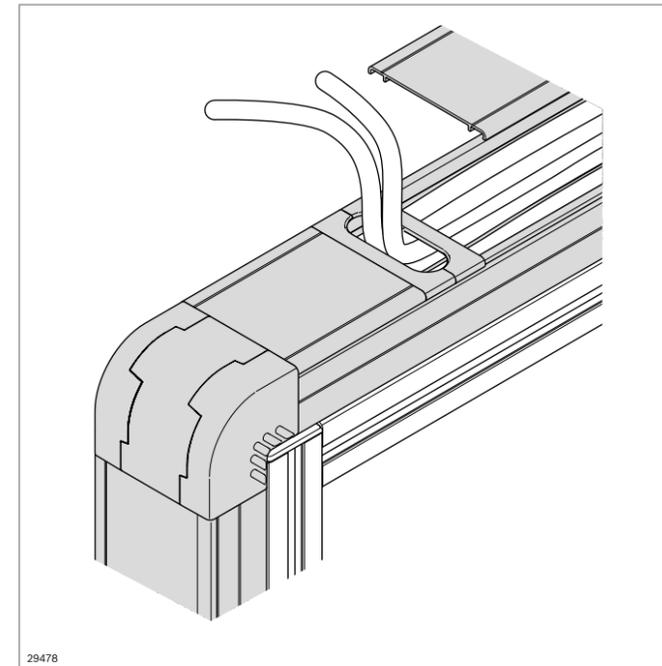
Scope of delivery: Cover cap incl. fastening screws

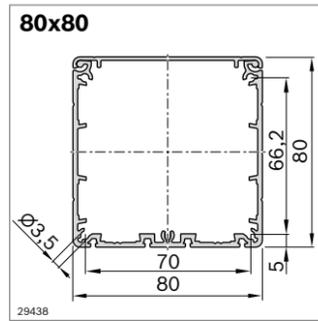
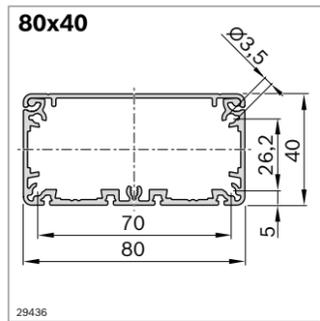
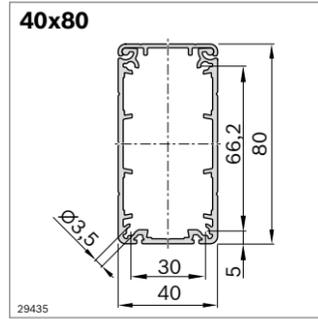
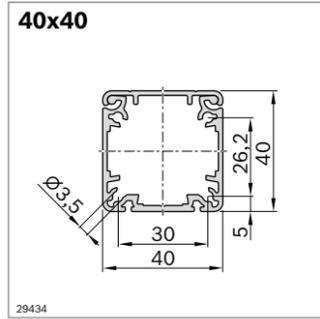


Aluminum cable duct



- ▶ 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 for routing different cable types (size 80x40 and 80x80)
- ▶ For connection of cable ducts via T-piece (p. 11-8)
- ▶ ESD-conductive
- ▶ High-quality, attractive external finish thanks 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





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

Optional accessories: Self-tapping screw **3 842 552 267**

Cable duct with AL cover plate		ESD	L (mm)	No.
1 pc	40x40	⚡	100 ... 3000	3 842 996 356/L
12 pcs	40x40	⚡	3000	3 842 552 268
1 pc	40x80	⚡	100 ... 3000	3 842 996 357/L
12 pcs	40x80	⚡	3000	3 842 552 270
1 pc	80x40	⚡	100 ... 3000	3 842 996 358/L
12 pcs	80x40	⚡	3000	3 842 552 273
1 pc	80x80	⚡	100 ... 3000	3 842 996 359/L
6 pcs	80x80	⚡	3000	3 842 552 275

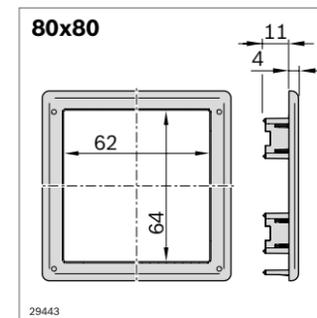
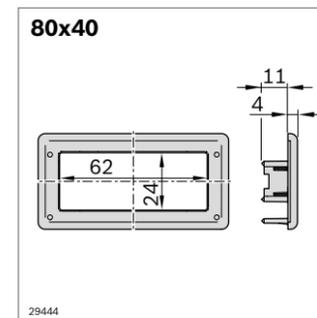
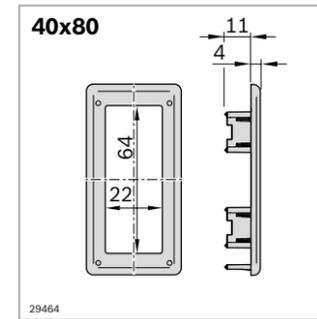
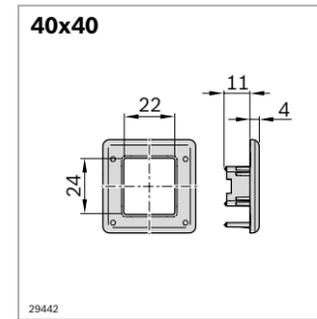
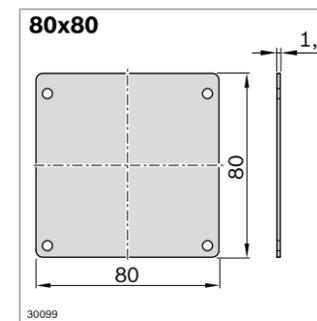
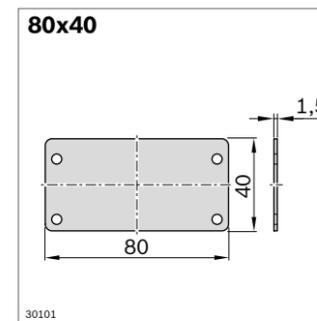
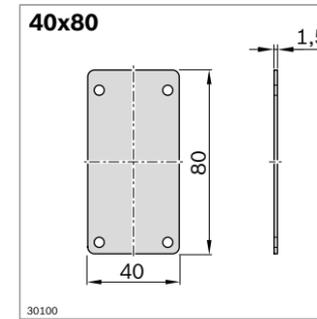
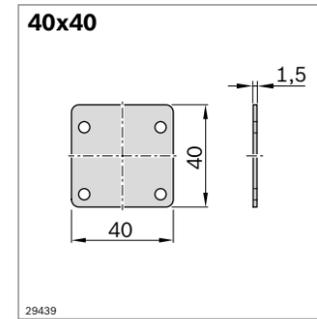
Material: Aluminum; anodized

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	ESD	No.
Ze. Pi. 3.5x9.5	⚡ 10	3 842 552 267

Material: Steel; galvanized



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	ESD	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

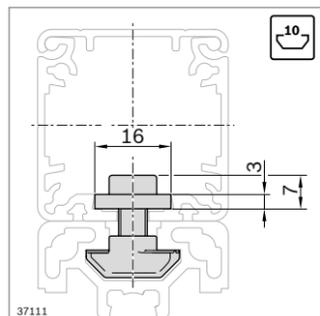
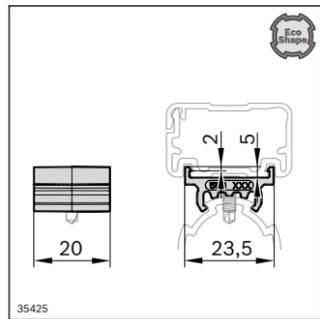
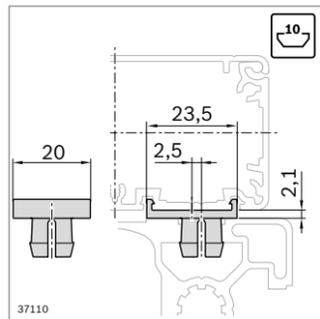
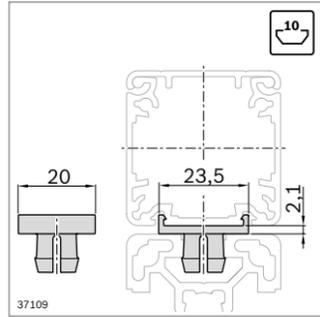
Scope of delivery: Cover plate incl. fastening screws

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



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” 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	ESD ^{*)}	No.
Symmetrical	10	3 842 552 247

Material: PA; signal gray RAL 7004

- ▶ “Asymmetrical mounting base” design for central installation on profiles with multiple slots on the mounting side and 45 mm modular dimension

Mounting base	ESD ^{*)}	No.
Asymmetrical	10	3 842 552 248

Material: PA; signal gray RAL 7004

- ▶ D28L mounting base also compatible with aluminum cable duct (p. 11-4)
- ▶ Additional stabilization of D28L mounting bases and establishing an ESD-compliant connection between profile and base can be realized using self-tapping screw (**3 842 552 267**)

Recommended accessories: Self-tapping screw

Mounting base	Color	ESD	No.
D28L	Signal gray	10	3 842 559 338
D28L	Black	10	3 842 559 337

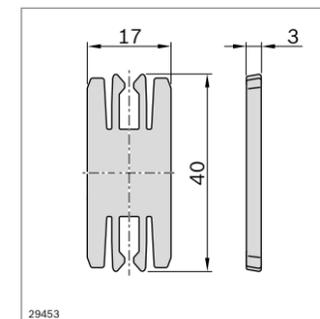
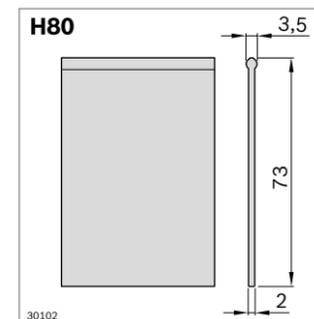
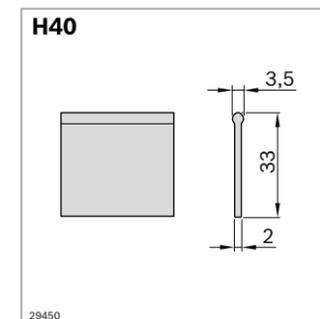
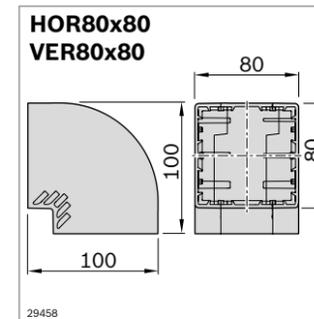
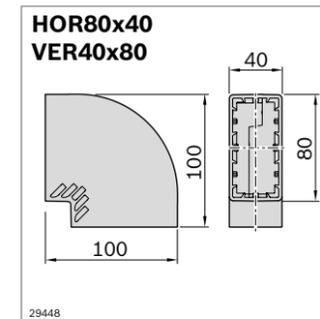
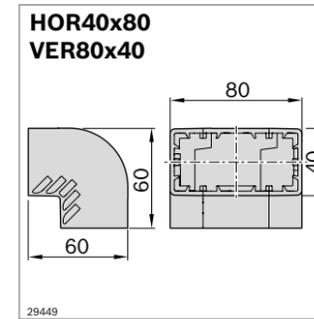
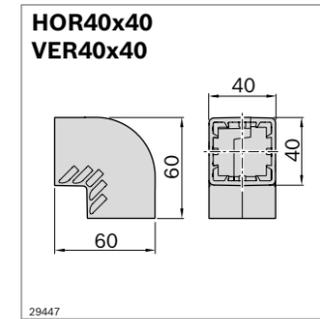
Material: PA

Mounting 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

Mounting kit	ESD	No.
10	10	3 842 548 997

Material: Steel; galvanized
Scope of delivery: Insert sheet; T-nut M6, 10 mm slot; screw M6x16



Curve

- ▶ 90° curve in horizontal and vertical direction
- ▶ Modular design
- ▶ Cable ducts connected together with push-in connection elements
- ▶ Cable ducts can be made conductive by using supplied potential equalizer line

Curve	ESD ^{*)}	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, connection elements, potential equalizer line
*) ESD: Plastic has no conductivity. Using a potential equalizer, 2 cable ducts can be connected in a conductive way (s. p. 11-9).

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	ESD ^{*)}	No.
H40 L=3000 mm	10	3 842 552 245
H80 L=3000 mm	10	3 842 552 246

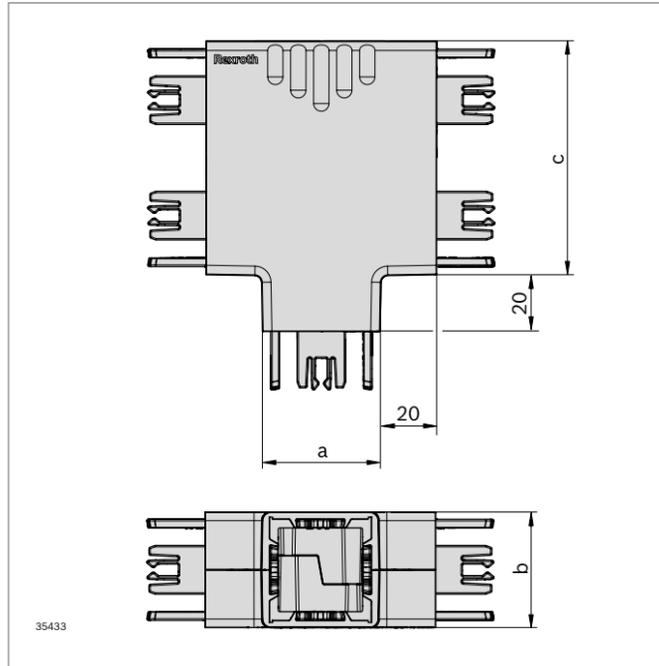
Material: PVC; signal gray RAL 7004

Connection 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)

Connection element	ESD ^{*)}	No.
10	10	3 842 552 240

Material: PA; signal gray RAL 7004



T-piece cable duct

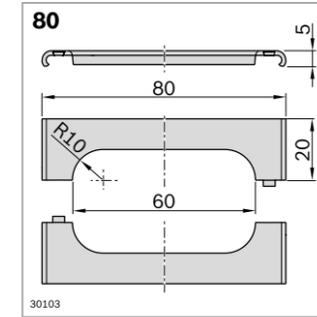
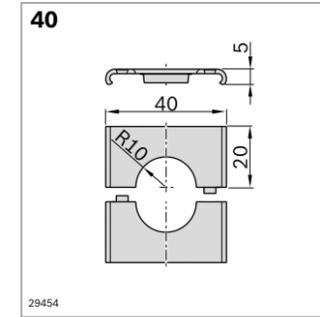
- ▶ Modular design
- ▶ Cable ducts connected together with push-in connection elements
- ▶ Cable ducts can be made conductive by using supplied potential equalizer line
- ▶ VDE certified

T-piece Cable duct	a (mm)	b (mm)	c (mm)	ESD*)	No.
40x40x40	40	40	40	⚡	3 842 558 644
40x40x80	40	40	80	⚡	3 842 558 646
40x80x40	40	80	40	⚡	3 842 558 648
40x80x80	40	80	80	⚡	3 842 558 650
80x40x40	80	40	40	⚡	3 842 558 651
80x40x80	80	40	80	⚡	3 842 558 652
80x80x40	80	80	40	⚡	3 842 558 653
80x80x80	80	80	80	⚡	3 842 558 654

Material: PP; signal gray RAL 7004

Scope of delivery: T-piece, connection elements, potential equalizer line

ESD*: Plastic has no conductivity. Using a potential equalizer, cable ducts can be connected in a conductive way

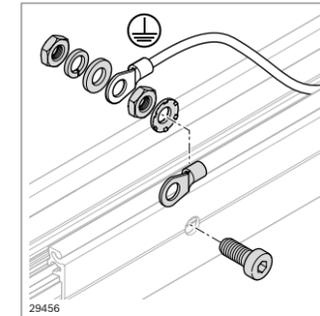


Cable hole

- ▶ 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



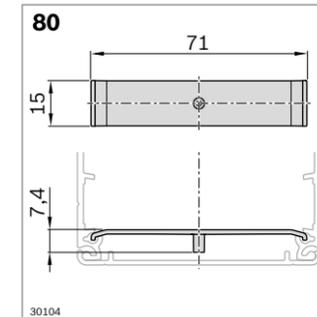
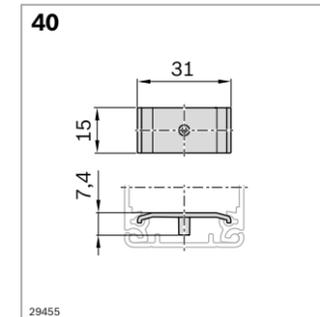
Potential equalizer

- ▶ DIN VDE 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

Scope of delivery: Grounding wire not available

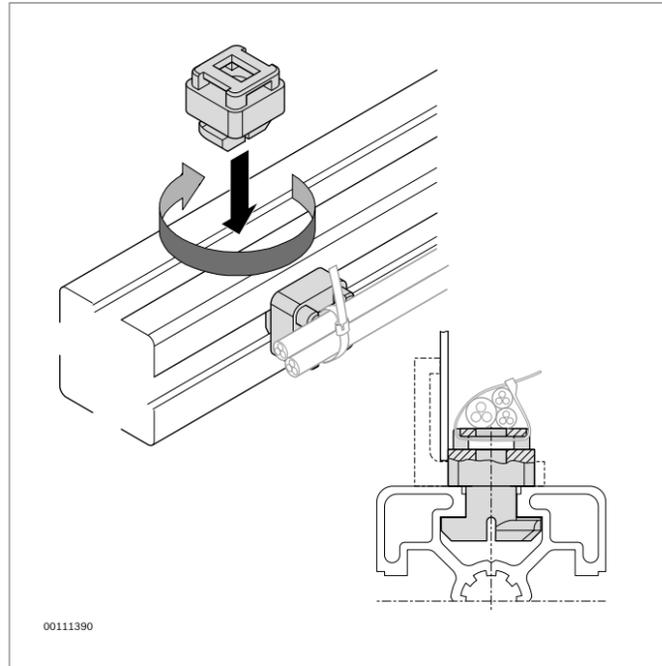


Cable holder

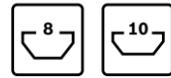
- ▶ For fixing the cable in the cable duct in the case of overhead mounting
- ▶ Recommendation: Insert every 200 mm

Cable holder	No.
40	10 3 842 552 265
80	10 3 842 552 266

Material: PA6; signal gray RAL 7004

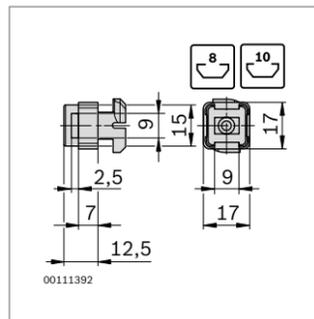


Cable bracket



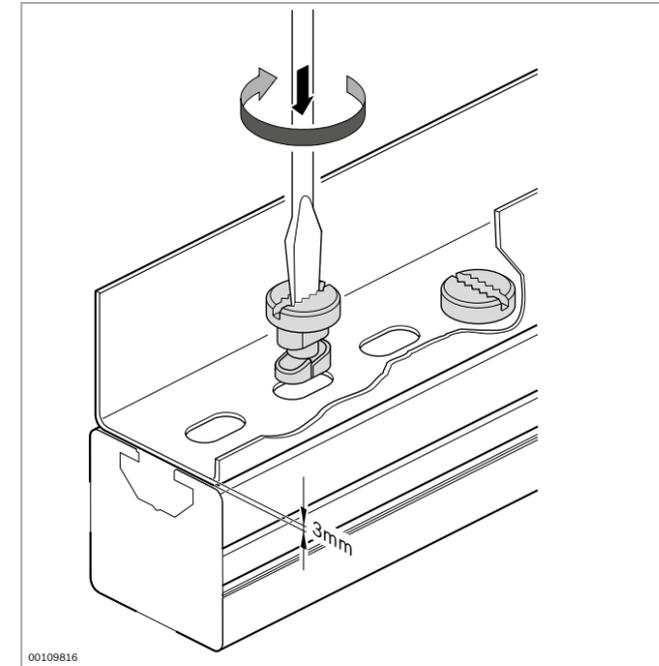
- ▶ Cable bracket for fastening individual cables with cable ties
- ▶ For use behind panels or screens
- ▶ Dimensioned to match the Variofix block for slot 10 mm

Required accessories:
Cable ties



Cable bracket	Slot	No.
	8	100 3 842 555 182
	10	100 3 842 555 180

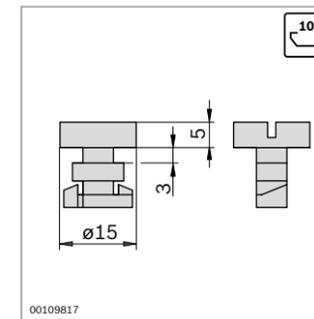
Material: PA; signal gray RAL 7004



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, snap hooks
(p. 12-2)



Sliders for panel element
(p. 12-3)



Components for sliding door
(p. 12-4)



EcoSlide (p. 12-6)



Sliders for profiles (p. 12-13)



Support wheels (p. 12-17)



Rack, pinion (p. 12-18)



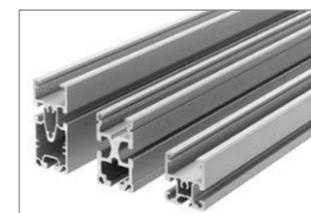
Conveyor track Lean
(p. 12-19)



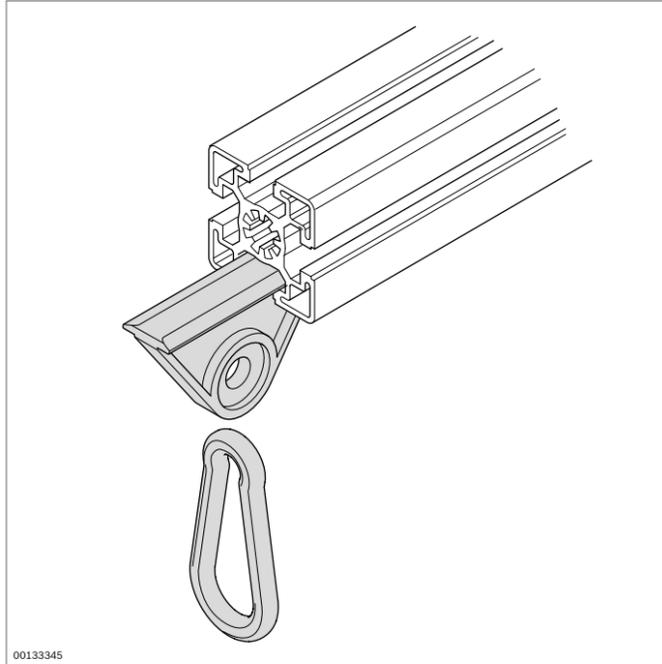
Conveyor track XLean
(p. 12-24)



Conveyor track EcoFlow
(p. 12-27)



Profiles for installing conveyor media
(p. 12-33)



Slide hanger
Snap hook



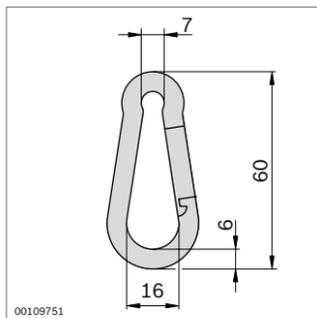
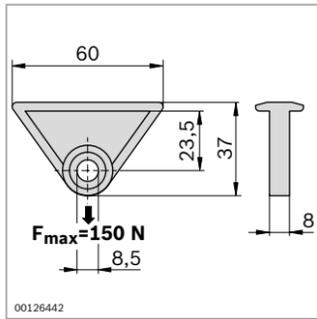
Slide hanger

- ▶ 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 a stopper (see p. 3-7)

Snap hook

- ▶ Snap hook for fastening tools to the slide hanger:
 - Quick and easy to change

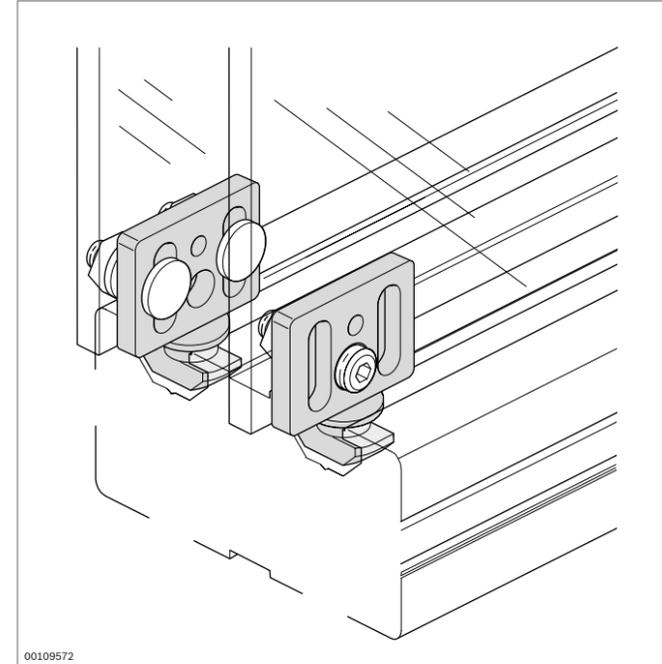


Slide hanger	No.
	3 842 218 953

Material: POM; natural

Snap hook	No.
	0 842 901 309

Material: Steel; galvanized



Slider for panel elements



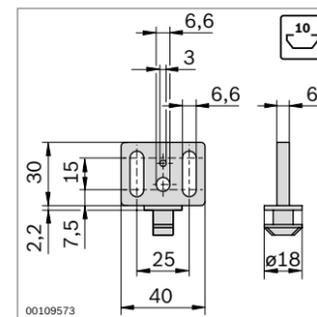
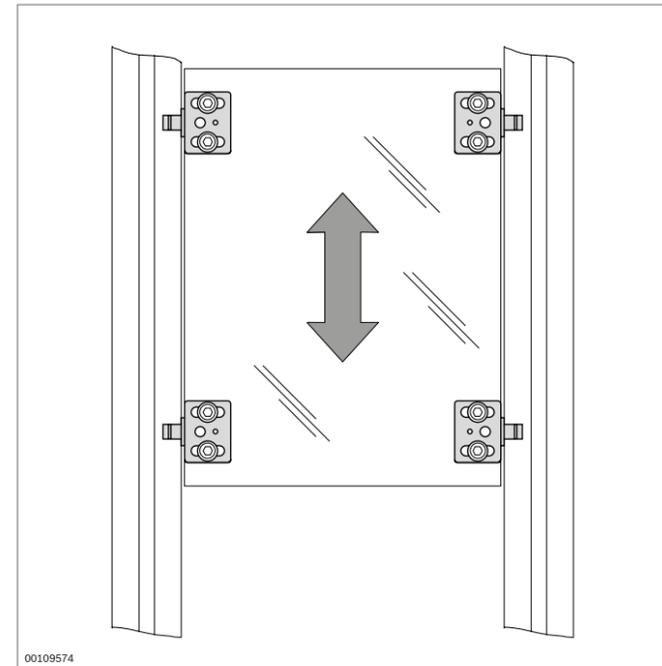
- ▶ For the construction of sliding and lifting doors
- ▶ Good functional reliability
- ▶ For any thickness of the panel element or aluminum profile frame

Required accessories:

Screws and nuts/sliding blocks for fastening the panel elements

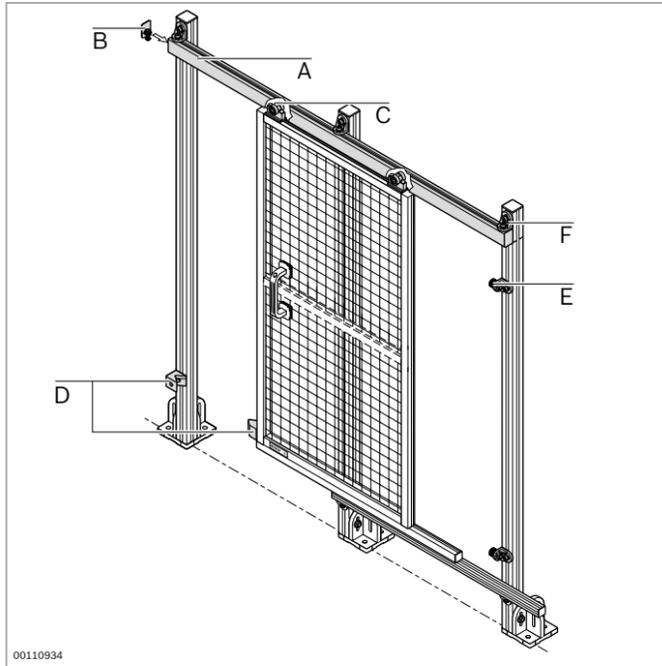
Optional accessories:

Counterbalance in the case of lifting doors (p. 9-2)



Slider	No.
	10 3 842 555 226

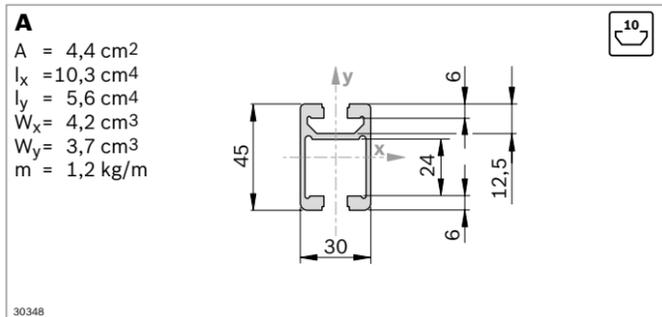
Material: POM; signal gray RAL 7004



Components for sliding door



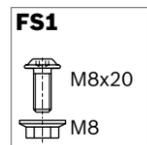
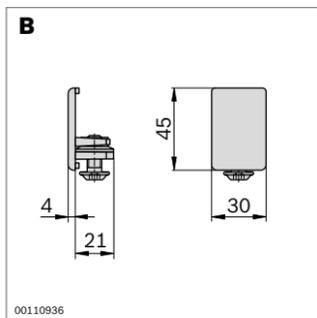
- Components for constructing sliding doors of different dimensions



- 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)

Profile rail 30x45C	L (mm)	No.
1 pc	50 ... 6070	3 842 992 946 / L
20 pcs	6070	3 842 557 950

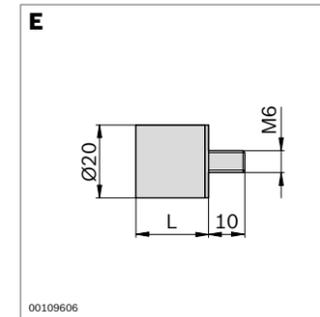
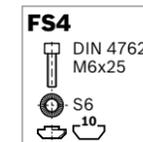
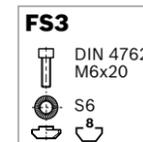
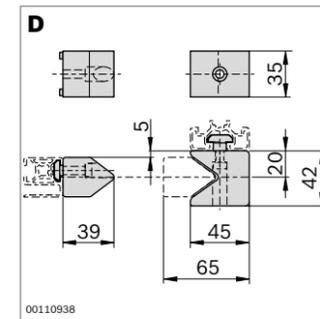
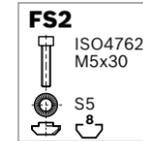
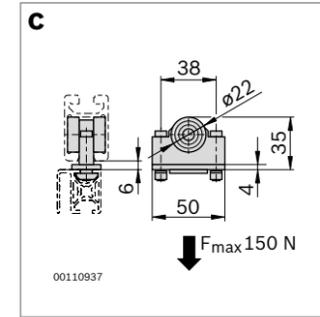
Material: Aluminum; anodized



- Profile rail end piece for use for trolley as a cover cap with stop
- With screw protection

End piece 30x45C	Color	ESD	No.	FS
	Signal gray	20	3 842 554 710	FS1
	Black	20	3 842 554 711	FS1

Material: End piece: PA
 Fastening material: Steel; galvanized
 Scope of delivery: Incl. fastening material (FS)



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

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

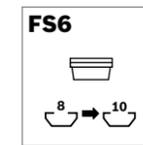
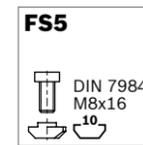
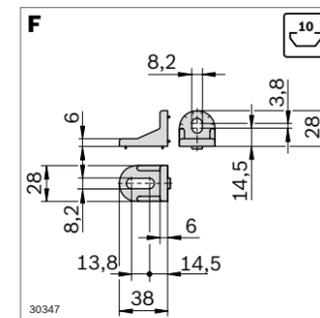
Stop kit	No.	FS
	3 842 524 490	FS3, FS4

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

- Bumper for a damped stop

Bumper	No.
	10 3 842 510 462

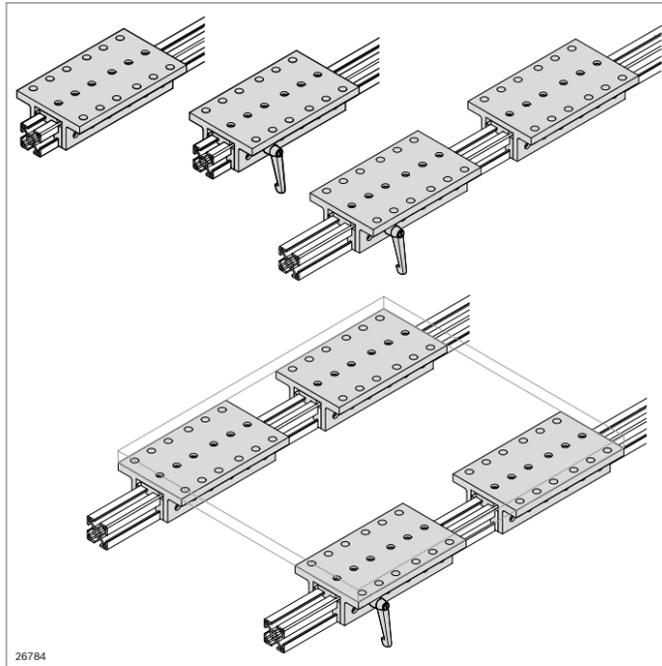
Material: Rubber; hardness 55° shore A
 Accessories: Bracket set R28x38 for fastening to strut profiles with 10 mm slot



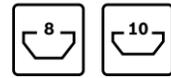
- Bracket for fastening the profile rail to strut profiles with 10 mm slot

Bracket	Slot	ESD	No.	FS
R28x38 Set (standard)	10 / 10		3 842 521 580	2xFS5, 4xFS6

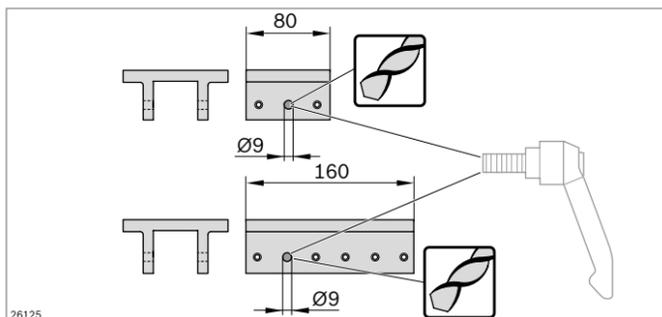
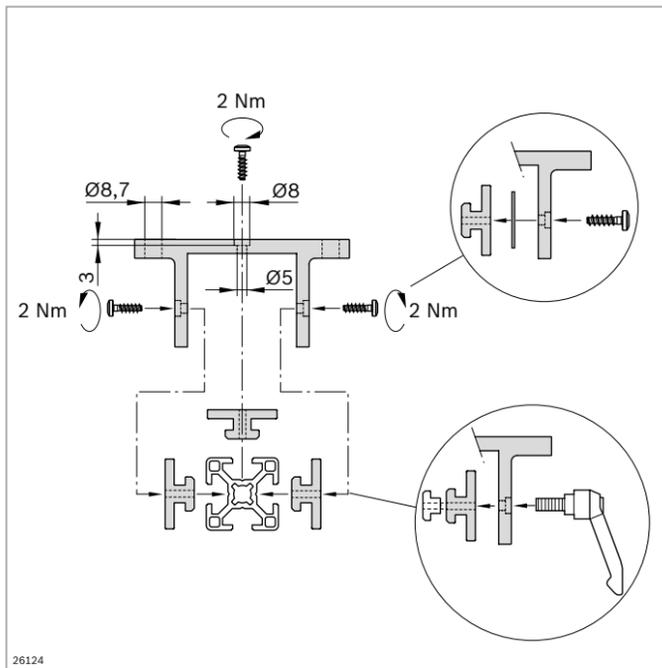
Material: Diecast zinc
 Fastening material: Steel; galvanized
 Scope of delivery: Incl. fastening material (FS)



EcoSlide

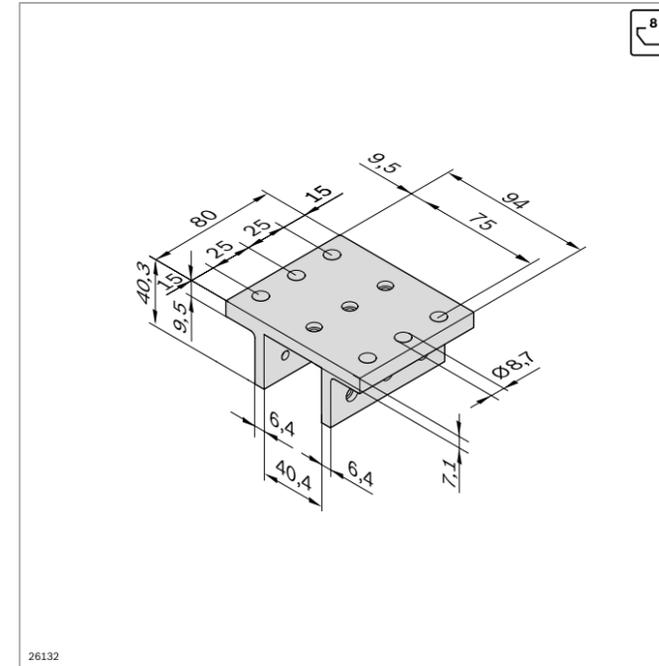


- ▶ Economical linear sliding carriage for horizontal applications
- ▶ Runs on sliders for maximal load capacity
- ▶ Slider with low moisture absorption, suitable for rough application conditions
- ▶ Available for profile widths of 30/45/60/90
- ▶ Clamping lever (optional) for arresting in any position
- ▶ Easy to assemble
- ▶ Spacer washer for tolerance adjustment (carriage/profile)

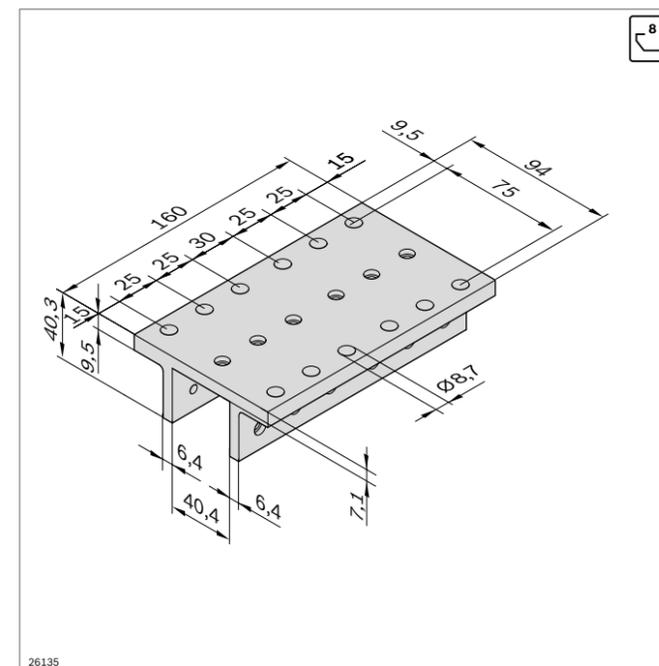


Machining tip

To install the clamping lever, the corresponding 9 mm hole must be drilled in the trolley.



750 N	325 N	10 Nm	150 Nm



1500 N	750 N	20 Nm	200 Nm

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.		Pcs	Pcs	Page
Slider, slot 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⁾		12-11
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	4-13
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

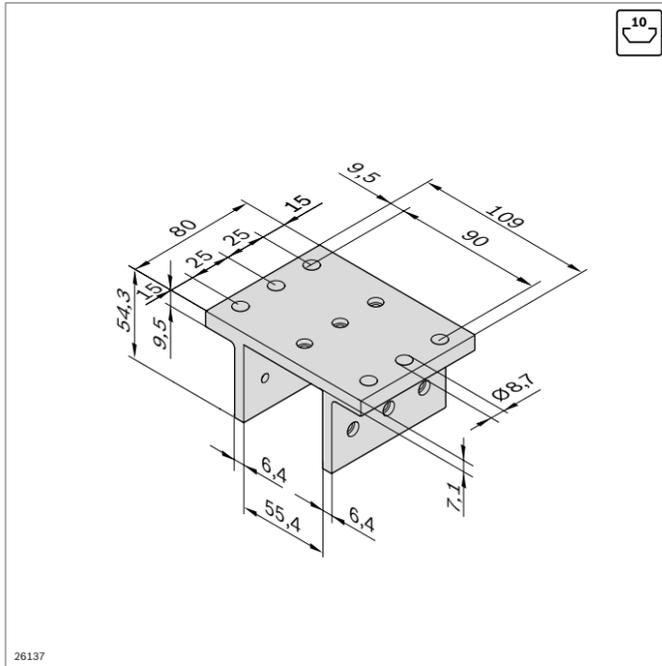
Trolley 30x30x160	No.
	1 8 981 535 477

Material: Aluminum; anodized

Accessories

	No.		Pcs	Pcs	Page
Slider, slot 8 mm flat	10 3 842 523 212		6	5	12-13
Slider, slot 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⁾		12-11
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	4-13
Sliding block Slot 8 mm; M8	100 3 842 514 931		—	1	3-7

¹⁾ If required



26137

EcoSlide 45x45x80

- For use with profile width 45 mm
- Maximum sliding speed: 12 m/min

Trolley 45x45x80	No.
	1 8 981 535 323

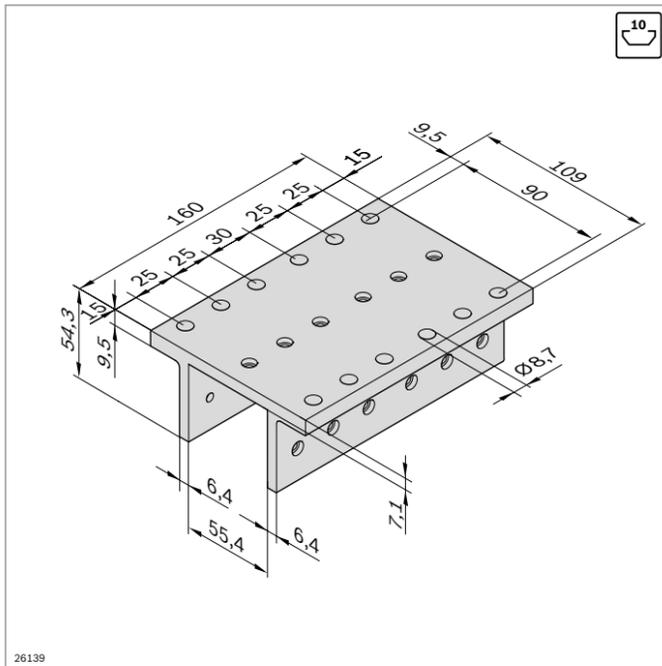
Material: Aluminum; anodized

Accessories

	No.		Pcs	Pcs	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	4-13
Sliding block Slot 10 mm, M8	100	3 842 528 735	—	1	3-7

¹⁾ If required

1250 N	625 N	40 Nm	150 Nm



26139

EcoSlide 45x45x160

- For use with profile width 45 mm
- Maximum sliding speed: 12 m/min

Trolley 45x45x160	No.
	1 8 981 535 324

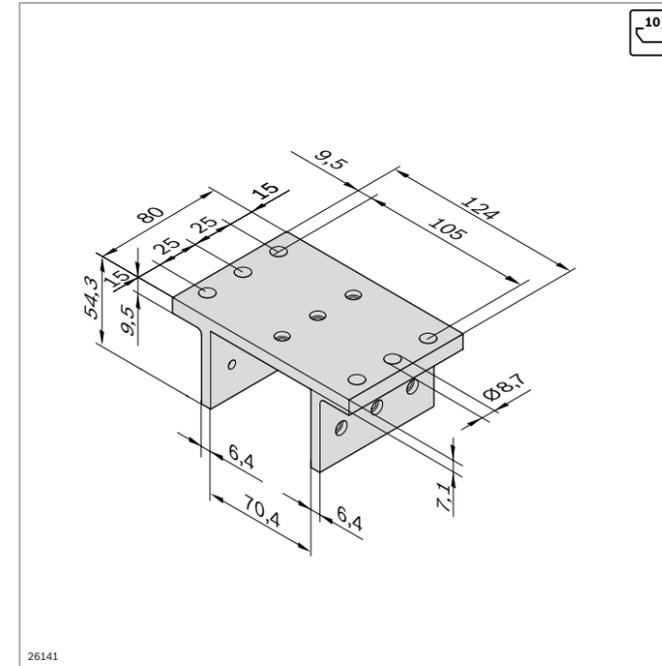
Material: Aluminum; anodized

Accessories

	No.		Pcs	Pcs	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	4-13
Sliding block Slot 10 mm, M8	100	3 842 528 735	—	1	3-7

¹⁾ If required

2500 N	1250 N	80 Nm	200 Nm



26141

EcoSlide 45x60x80

- For use with profile width 60 mm
- Maximum sliding speed: 12 m/min

Trolley 45x60x80	No.
	1 8 981 535 478

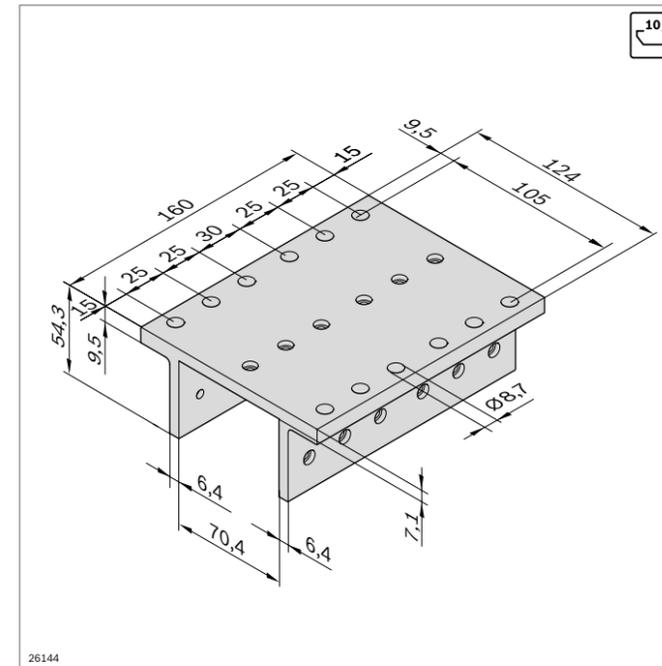
Material: Aluminum; anodized

Accessories

	No.		Pcs	Pcs	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	4-13
Sliding block Slot 10 mm, M8	100	3 842 528 735	—	1	3-7

¹⁾ If required

1250 N	625 N	40 Nm	150 Nm



26144

EcoSlide 45x60x160

- For use with profile width 60 mm
- Maximum sliding speed: 12 m/min

Trolley 45x60x160	No.
	1 8 981 535 479

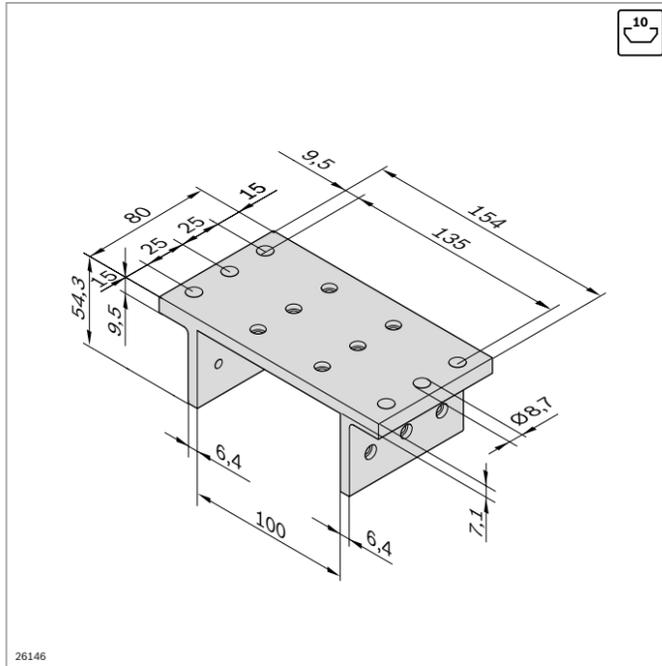
Material: Aluminum; anodized

Accessories

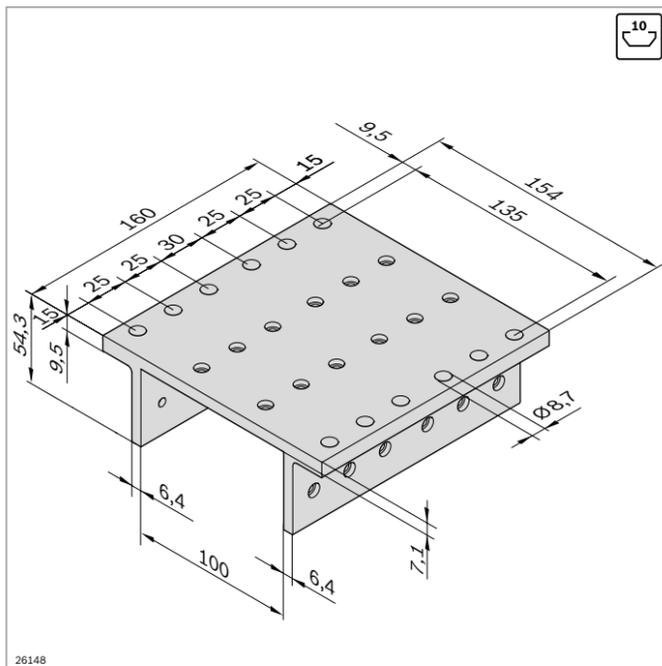
	No.		Pcs	Pcs	Page
Slider, slot 10 mm flat	10	3 842 530 329	6	5	12-13
Slider, slot 10 mm flat lockable	1	3 842 552 424	—	1	12-11
Spacer washer Slot 10 mm	4	8 981 535 890	X ¹⁾	X ¹⁾	12-12
Screw W1452 - 4x18 - 10.9	10	3 842 552 422	18	17	12-12
Clamping lever, 20 mm	1	3 842 516 846	—	1	4-13
Sliding block Slot 10 mm, M8	100	3 842 528 735	—	1	3-7

¹⁾ If required

2500 N	1250 N	80 Nm	200 Nm



2500 N	1250 N	50 Nm	150 Nm



5000 N	2500 N	100 Nm	200 Nm

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.		Pcs	Pcs	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	4-13
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

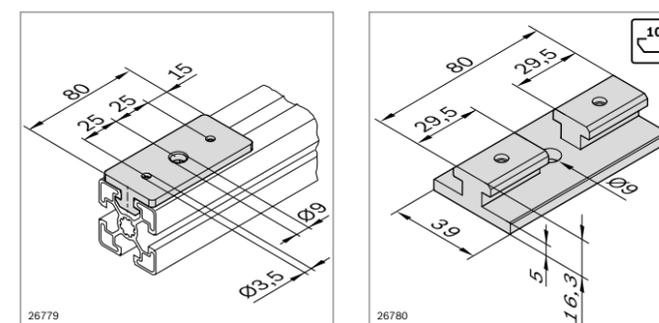
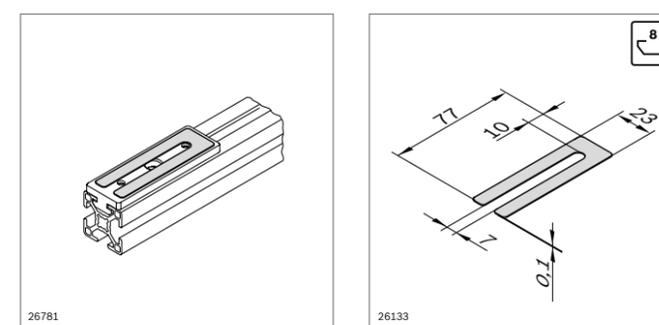
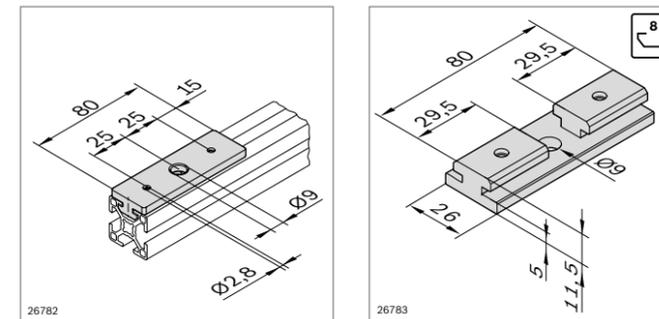
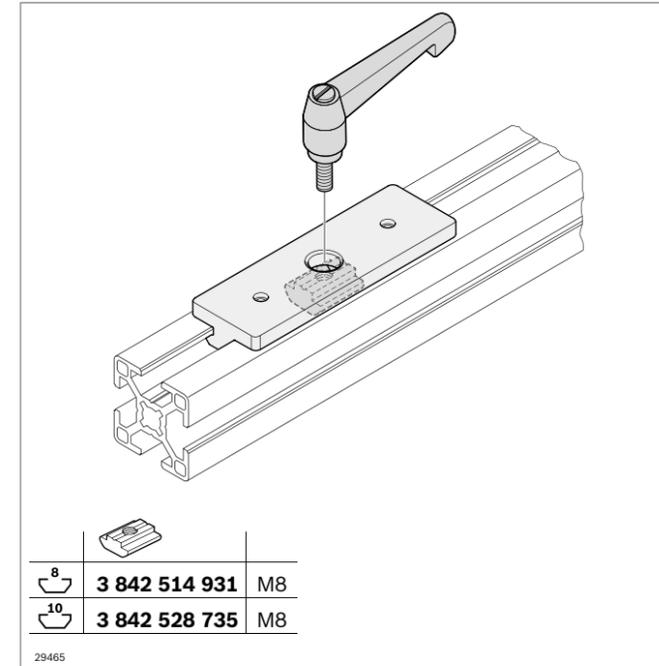
Trolley 45x90x160	No.
	1 8 981 535 326

Material: Aluminum; anodized

Accessories

	No.		Pcs	Pcs	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	4-13
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)
- Clamping lever (p. 4-13)

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

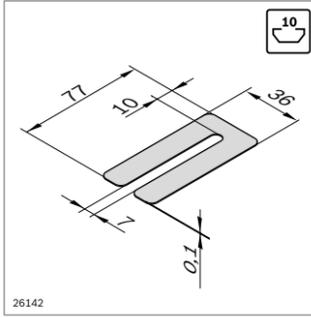
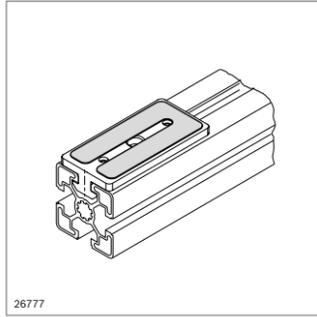
Spacer washer	Slot	No.
77x23	8	4 8 981 535 891

Material: Steel; plain

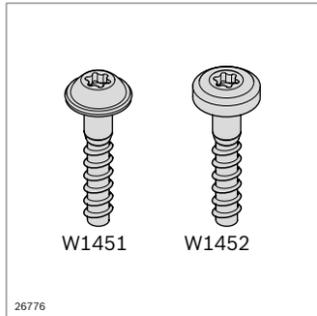
Slider, flat lockable	Slot	No.
	10	1 3 842 552 424

Material: POM; natural

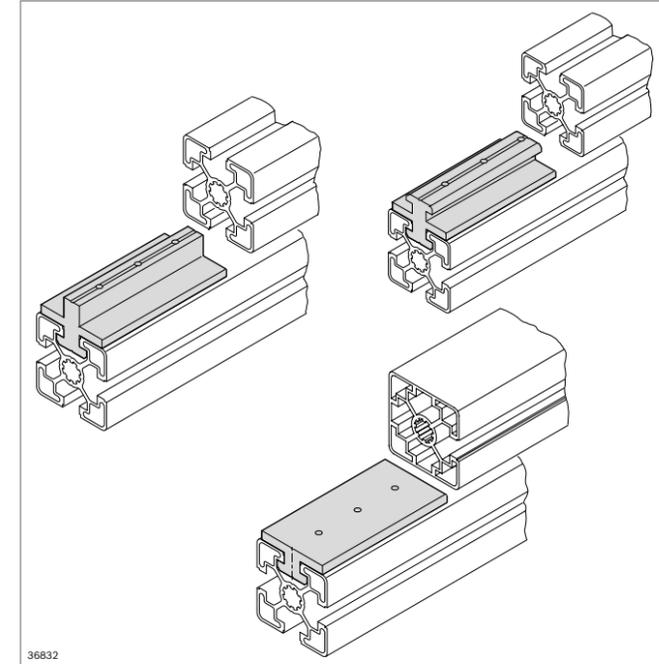
Accessories: Sliding block, T-nut, slot 10 (M8), 3 842 528 735, p. 3-7



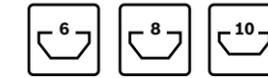
Spacer washer	Slot	No.
77x36	10 4	8 981 535 890
Material:	Steel; plain	



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	



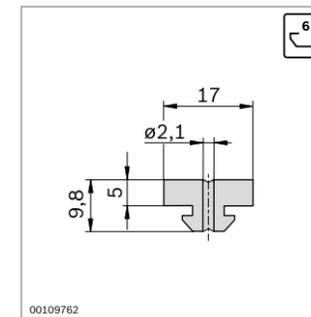
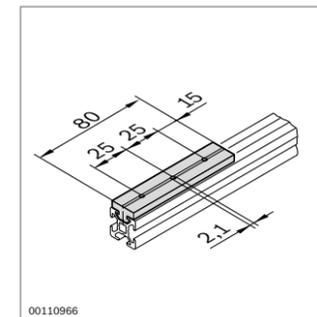
Slider for profiles



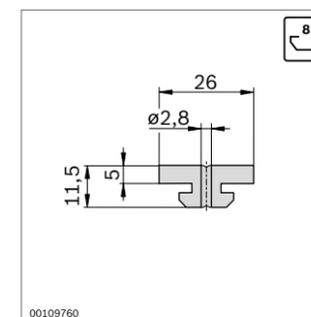
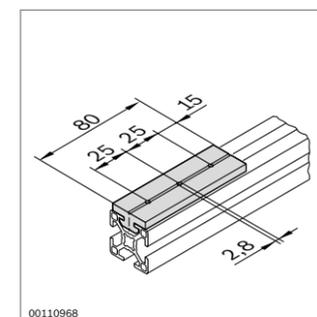
Slider

- For the construction of low-wear guides, e.g. for manual sliding and sliding and lifting doors, as well as drawer slides

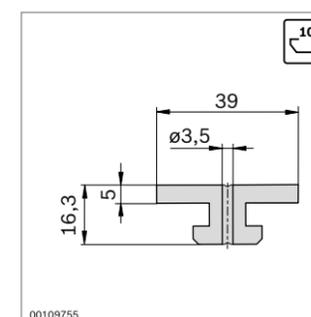
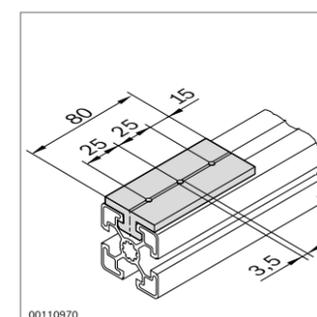
Optional accessories:
Self-tapping screws for fastening the slider in a profile slot



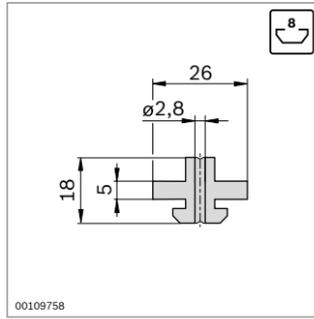
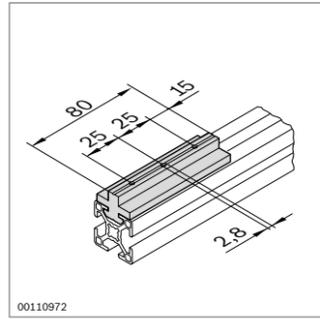
Slider, flat	No.
	10 3 842 523 213
Material:	POM; natural



Slider, flat	No.
	10 3 842 523 212
Material:	POM; natural



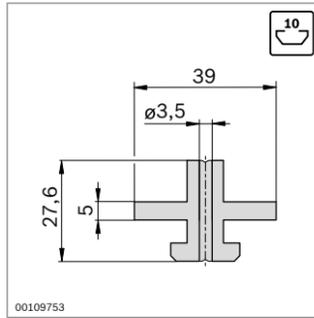
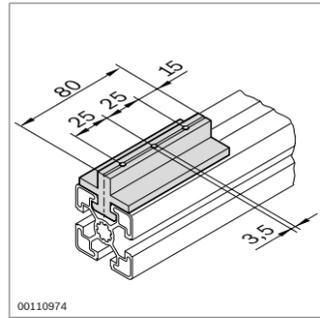
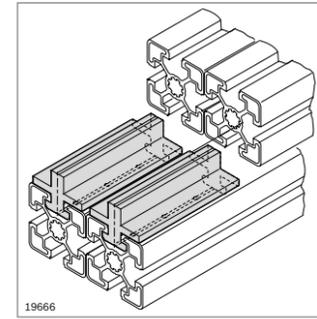
Slider, flat	No.
	10 3 842 530 329
Material:	POM; natural



Slider, center **No.**

10 **3 842 523 210**

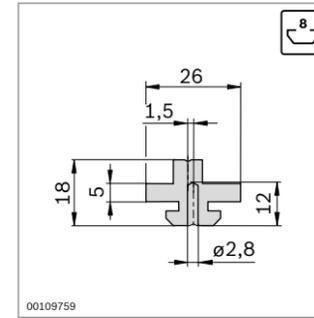
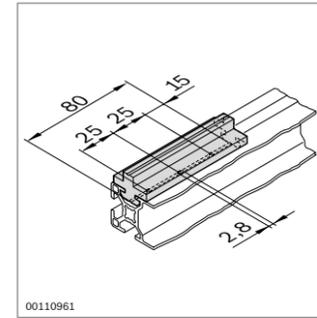
Material: POM; natural



Slider, center **No.**

10 **3 842 523 206**

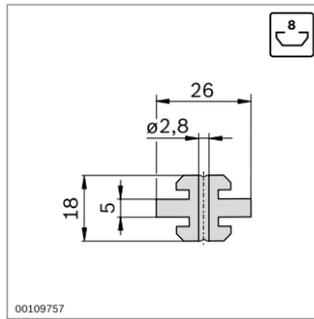
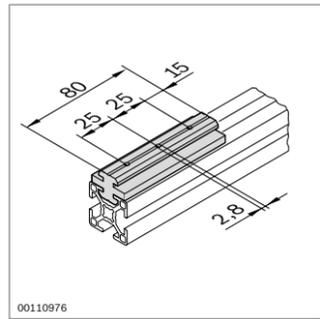
Material: POM; natural



Slider, offset **No.**

10 **3 842 523 211**

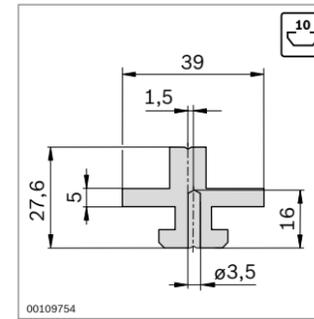
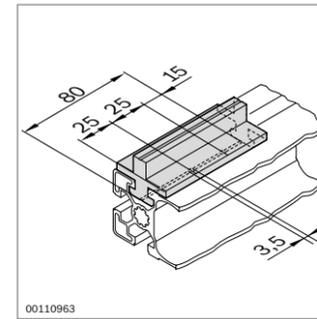
Material: POM; natural



Slider, center **No.**

10 **3 842 523 209**

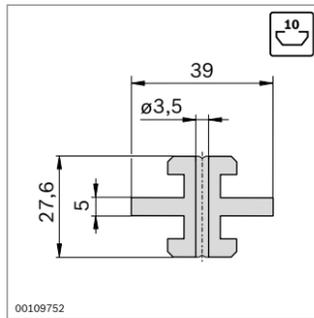
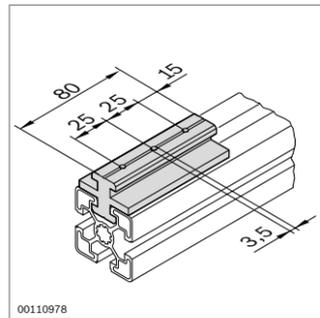
Material: POM; natural



Slider, offset **No.**

10 **3 842 523 207**

Material: POM; natural



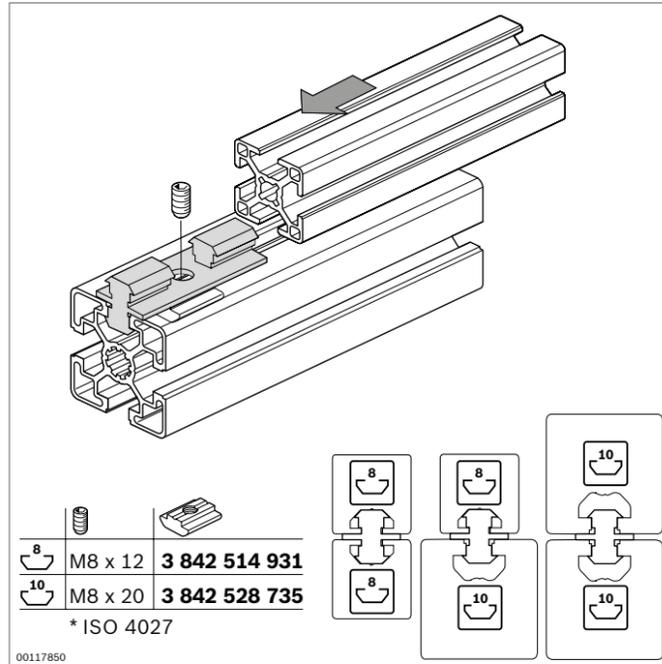
Slider, center **No.**

10 **3 842 523 205**

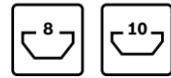
Material: POM; natural

Offset sliders

► For constructing multiple sliding doors

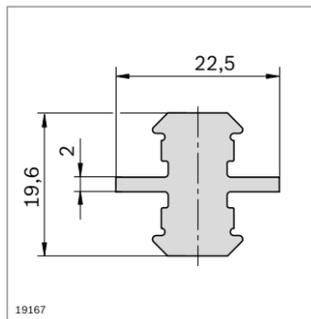
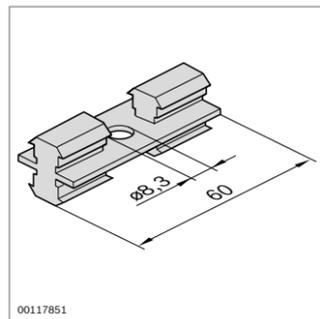


Multi-slider



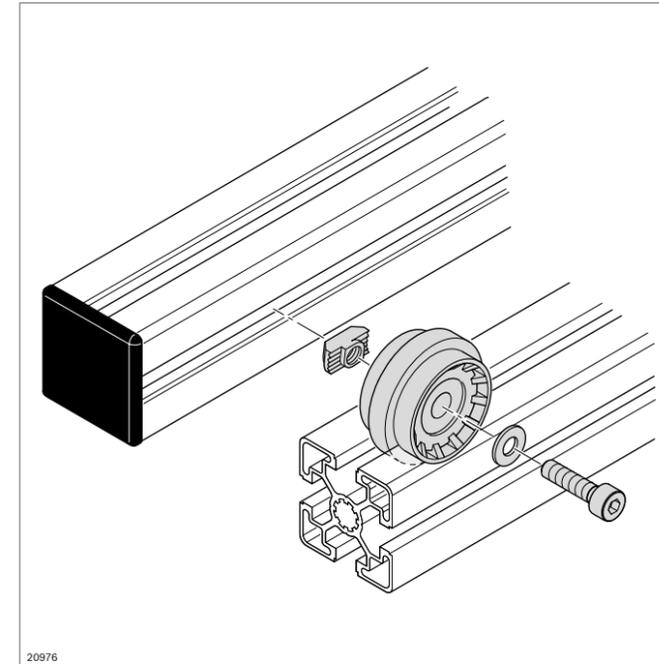
- ▶ Multi-slider for constructing low-wear guides
- ▶ Suitable for all profiles with 8 mm and 10 mm slot widths
- ▶ Combination of profiles with different slot widths possible

Accessories:
Headless setscrew (ISO 4027) and sliding block (p. 3-7) for fastening the slider in the profile slot



Multi-slider 8/10	ESD	No.
		10 3 842 513 517

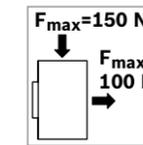
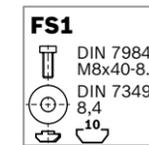
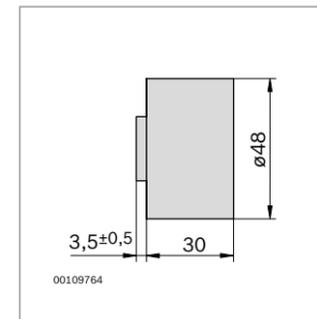
Material: POM; natural



Support wheels

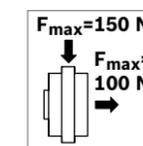
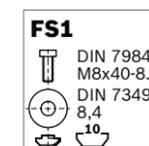
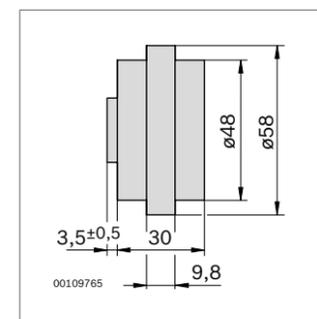


- ▶ Support wheel for constructing trolleys or roller sections
- ▶ Mounted on profiles with 10 mm slot
- ▶ Good running characteristics thanks to deep-groove ball bearing with large diameter
- ▶ Support wheel with rim can be guided in 10 mm slot
- ▶ ESD-conductive



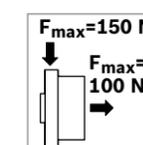
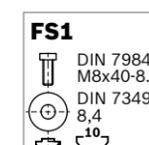
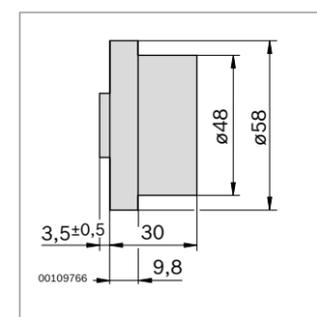
Support wheel	ESD	No.	FS
		10 3 842 218 942	FS1

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



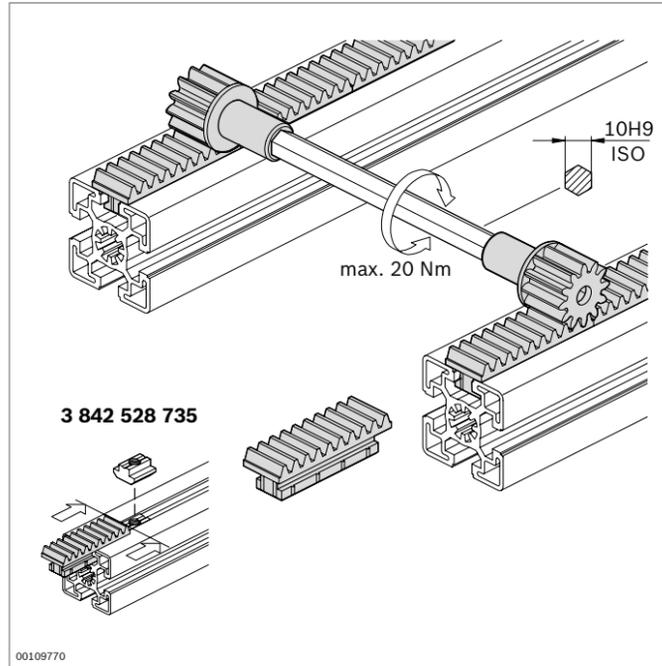
Support wheels with center rim	ESD	No.	FS
		10 3 842 218 940	FS1

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



Support wheels with side rim	ESD	No.	FS
		10 3 842 218 941	FS1

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



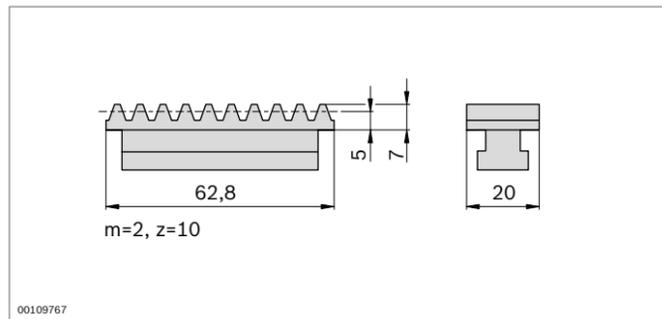
Rack Pinion



- For constructing synchronous shafts to prevent tilting in the case of large guide widths

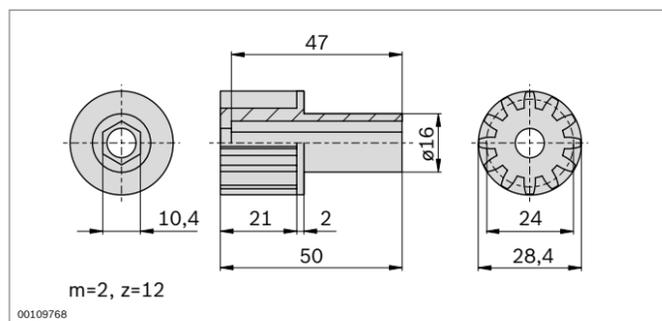
Required accessories:

- Standard commercially available hexagonal shaft 10H9
- Sliding block for fixing the rack in the slot (p. 3-7)



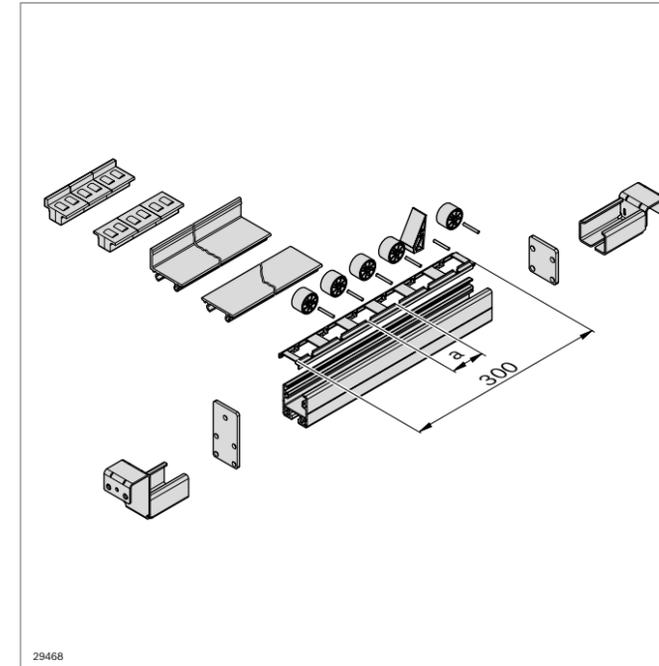
Rack	No.
	10 3 842 501 578

Material: PA; black



Pinion	No.
	3 842 501 576

Material: POM, white



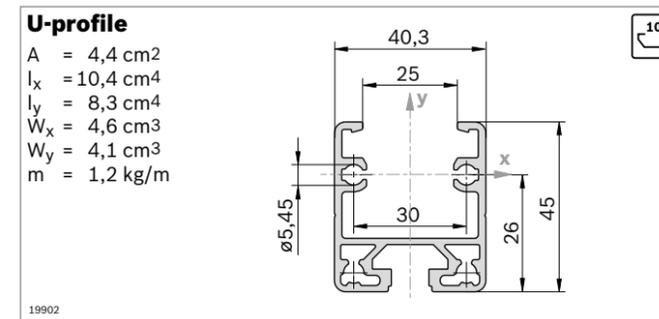
Elements for the construction of conveyor track Lean



- Components for constructing manual conveyor sections
- Based on multi-functional U-profile
- Clip-in conveyor elements for all requirements:
 - Rollers with or without flange; four colors to visually identify inventories (kanban) or to differentiate between good/reject parts
 - Slide rails with or without integrated lateral guide (GSSK, GS)
 - Roller elements with and without roller flange (RE45SK, RE45)

Accessories:

Round tube D28 (p. 2-70)

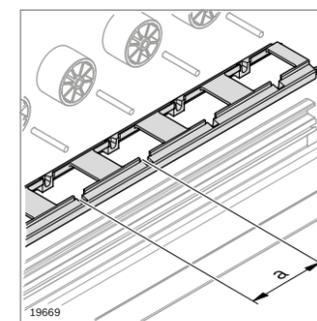


U-profile
 A = 4,4 cm²
 I_x = 10,4 cm⁴
 I_y = 8,3 cm⁴
 W_x = 4,6 cm³
 W_y = 4,1 cm³
 m = 1,2 kg/m

- U-profile with 10 mm slot

U-profile	L (mm)	ESD	No.
1 pc	30 ... 6070		3 842 993 316 / L
20 pcs	6070		3 842 535 115
1 pc	30 ... 6070	⚡	3 842 995 027 / L
20 pcs	6070	⚡	3 842 541 814

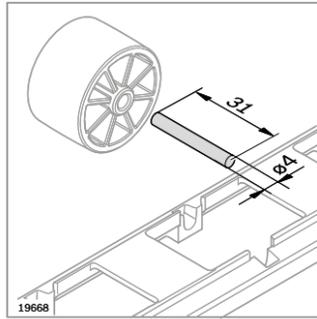
Material: U-profile: Aluminum, anodized
 U-profile ESD: Aluminum, untreated



- Roller carrier for rollers D32 and D32SK (p. 12-20)

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

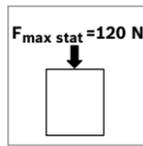
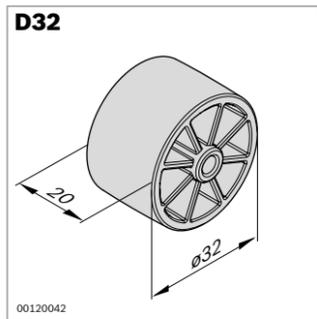
Material: ABS



► Steel axle for rollers D32, D32SK

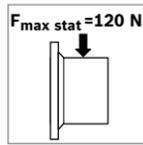
Steel axle	ESD	No.
	100	3 842 532 862

Material: Steel; stainless



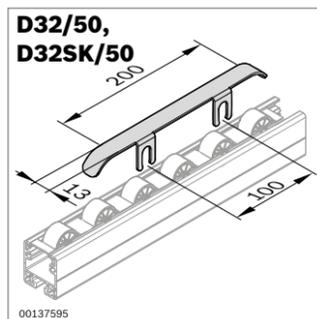
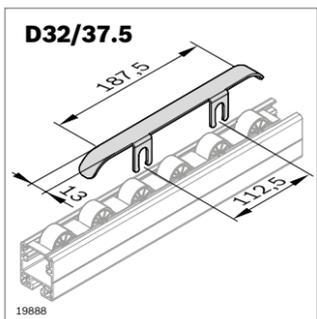
Roller	Color	ESD	No.
D32	Black	100	3 842 532 865
		100	3 842 537 961
	Red	100	3 842 532 866
		100	3 842 537 960
	Yellow	100	3 842 532 870
		100	3 842 537 959
	Green	100	3 842 532 752
		100	3 842 537 958

Material: PE; colored / ESD made of PA, colored



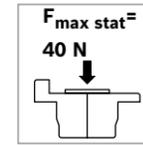
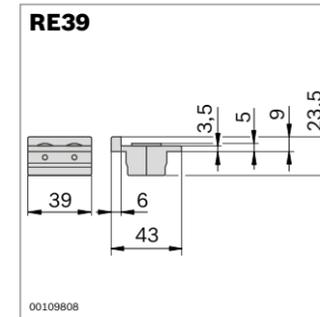
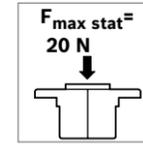
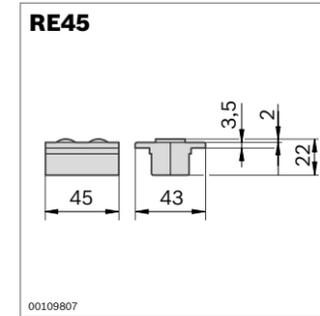
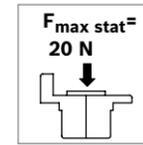
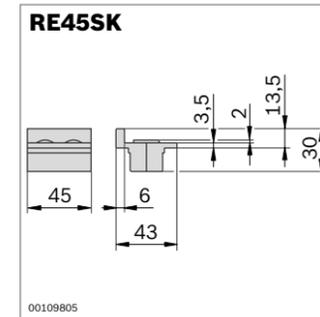
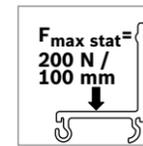
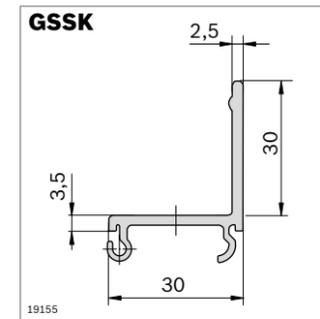
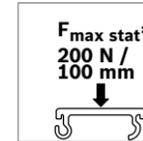
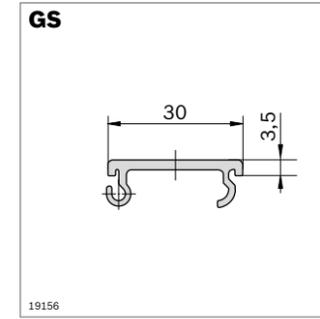
Roller	Color	ESD	No.
D32SK	Black	100	3 842 532 867
		100	3 842 537 965
	Red	100	3 842 532 883
		100	3 842 537 964
	Yellow	100	3 842 532 884
		100	3 842 537 963
	Green	100	3 842 532 880
		100	3 842 537 962

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

Slide rail	Color	L (mm)	ESD	No.
GS	Dust gray	3000	20	3 842 535 124
	Black	3000	20	3 842 537 803

Material: PVC

- Slide rail with lateral guide GSSK for constructing conveyor tracks with large gradients
- Slide rail for use with heavy containers

Slide rail	Color	L (mm)	ESD	No.
GSSK	Dust gray	3000	20	3 842 537 806
	Black	3000	20	3 842 537 807

Material: PVC

Roller element	Color	ESD	No.
RE45SK	Signal gray	100	3 842 554 748
	Black	100	3 842 538 065

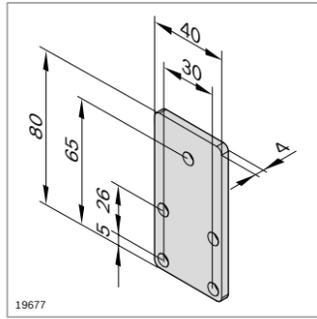
Material: PA

Roller element	Color	ESD	No.
RE45	Signal gray	100	3 842 554 746
	Black	100	3 842 538 064

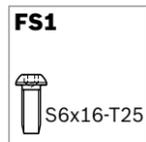
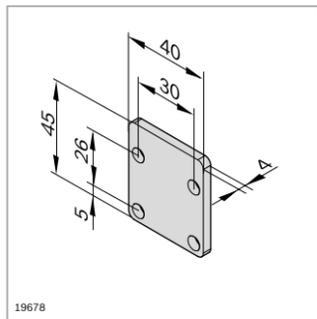
Material: PA

Roller element	Color	ESD	No.
RE39	Black	10	3 842 520 000
	Black	10	3 842 538 245

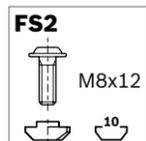
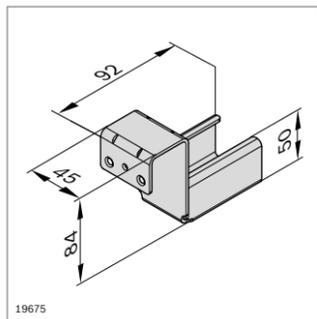
Material: PA



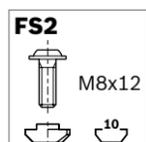
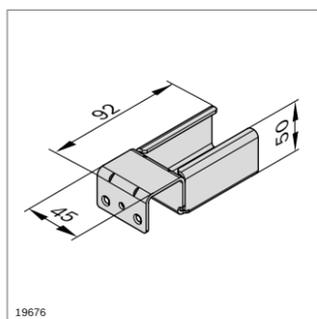
Stop plate with stop	ESD	No.	FS
40x80	20	3 842 535 121	4xFS1
Material: Steel; galvanized			
Scope of delivery: Incl. fastening material (FS)			



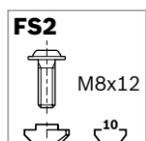
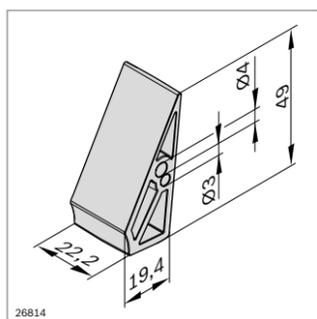
Stop plate without stop	ESD	No.	FS
40x45	20	3 842 535 122	4xFS1
Material: Steel; galvanized			
Scope of delivery: Incl. fastening material (FS)			



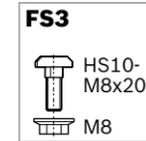
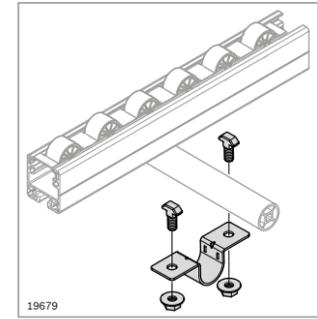
Rail holder with stop	ESD	No.	FS
	20	3 842 537 660	FS2
Material: Steel; galvanized			
Scope of delivery: Incl. fastening material (FS)			



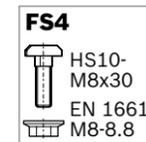
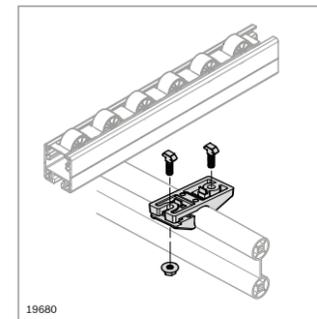
Rail holder without stop	ESD	No.	FS
	20	3 842 537 661	FS2
Material: Steel; galvanized			
Scope of delivery: Incl. fastening material (FS)			



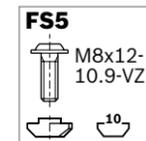
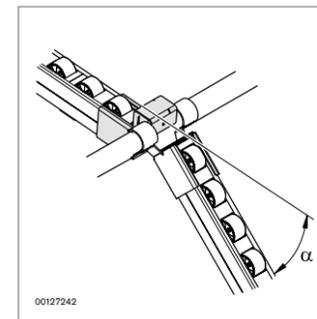
Stopper XLean/Lean	ESD	No.	FS
	10	3 842 552 151	FS2
Material: PP			
Fastening material: Steel; galvanized			
Scope of delivery: Incl. fastening material (FS)			



Tube clamp D28	No.	FS
	20	3 842 535 364 2xFS3
Material: Steel; galvanized		
Scope of delivery: Incl. fastening material (FS)		

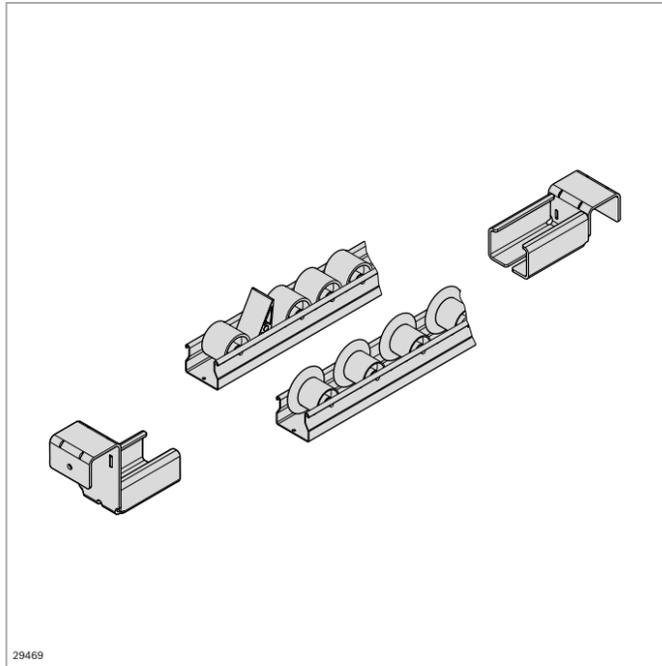


Holder for strut profile D28x55	No.	FS
	20	3 842 537 720 2xFS4
Material: Diecast aluminum		
Fastening material: Steel; galvanized		
Scope of delivery: Incl. fastening material (FS)		



- Flexible bridge with maximum tilt (α_{max}) from horizontal:
 - With round tube D28 (p. 2-70): $\alpha_{max} = 40^\circ$
 - With strut profile D28x55 (p. 2-71): $\alpha_{max} = 30^\circ$

Flexible bridge	No.	FS
	20	3 842 537 951 FS5
Material: Steel; galvanized		

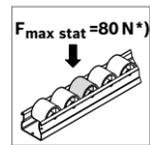
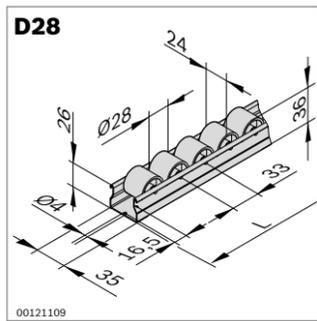


Elements for the construction of conveyor track XLean

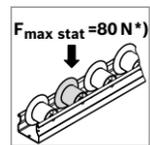
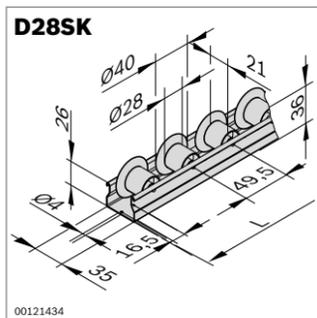


- ▶ Conveyor track made of steel profiles with plastic rollers and optional roller flange
- ▶ Available as ESD-conductive version.
- ▶ Self-supporting roller section
- ▶ Roller section with drill holes for fastening

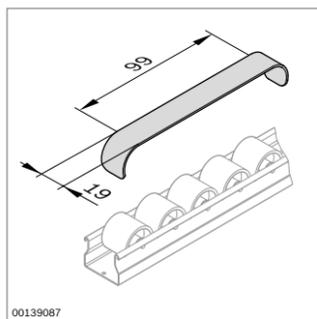
Accessories:
Round tube D28 (p. 2-70)



* per roller



* per roller



Roller section	Color	L (mm)	ESD	No.
D28	Gray	100 ... 4500	1	3 842 993 321 / L
		4500	50	3 842 537 776
	Black	100 ... 4500	1	3 842 993 431 / L
		4500	50	3 842 537 778

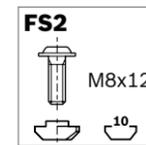
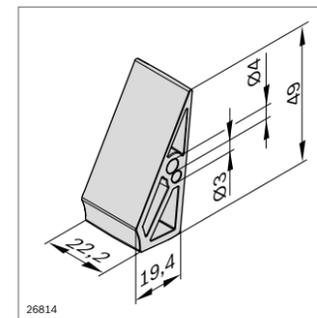
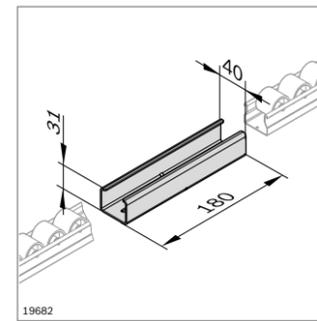
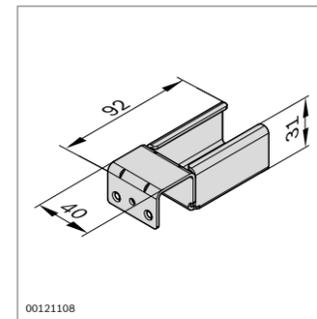
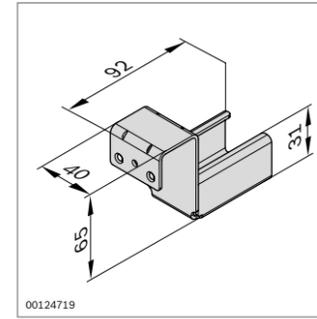
Material: Rail: Steel, galvanized
Roller: PP

Roller section	Color	L (mm)	ESD	No.
D28SK	Gray	100 ... 4500	1	3 842 993 322 / L
		4500	50	3 842 537 777
	Black	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: Steel; galvanized



Rail holder with stop	No.
	20 3 842 538 372

Material: Steel; galvanized

Rail holder without stop	No.
	20 3 842 537 687

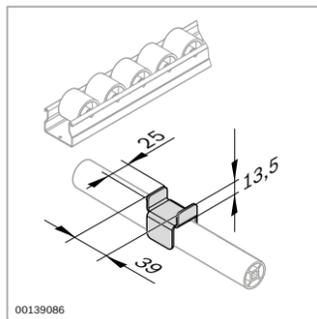
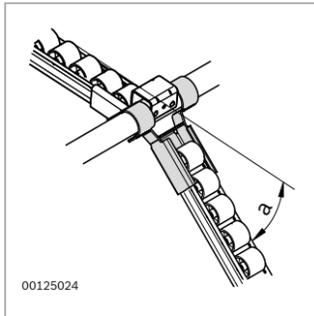
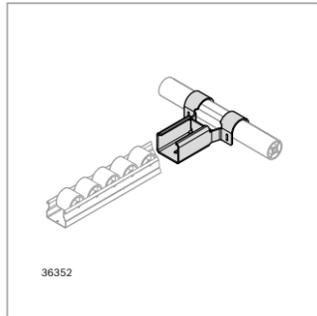
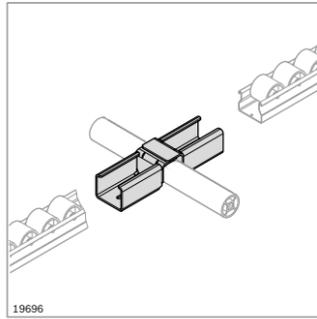
Material: Steel; galvanized

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

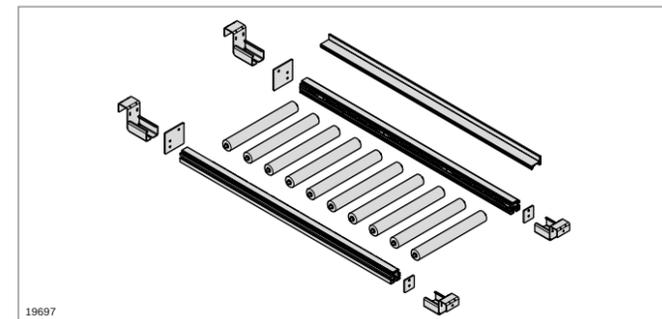
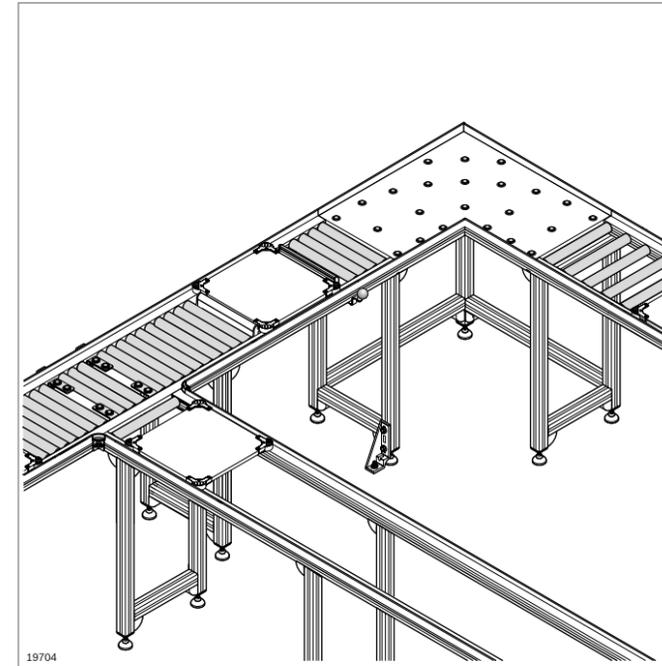
- Flexible bridge with maximum tilt (α_{max}) from horizontal:
 - With round tube D28 (p. 2-70): $\alpha_{max} = 40^\circ$
 - With strut profile D28x55 (p 2-71): $\alpha_{max} = 30^\circ$

Flexible bridge	No.
	20 3 842 537 911

Material: Steel; galvanized

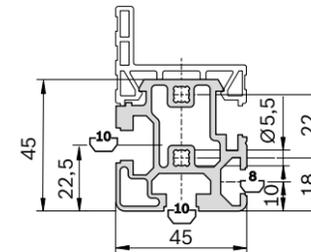
Mounting	No.
	20 3 842 537 657

Material: Steel; galvanized

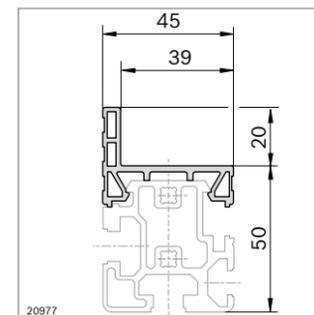


MV45x45

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



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Elements for the construction of conveyor track EcoFlow

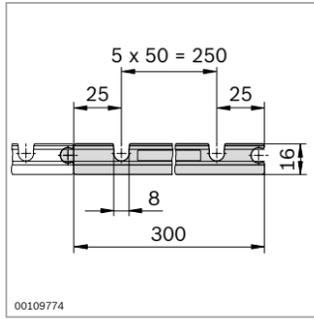
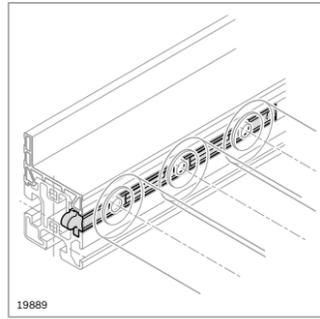
- Based on EcoFlow section profile
- For manual slide sections with rollers
- Clip-in guide profiles with lateral guide and clip-in conveyor rollers

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

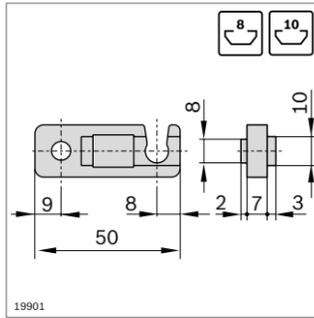
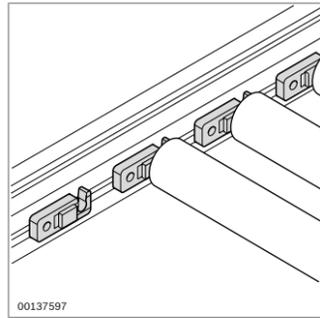
Guide profile MV45	Color	L (mm)	ESD	No.
	Dusty gray RAL 7037	30 ... 3000	1	3 842 993 511 / L
	Dusty gray RAL 7037	3000	10	3 842 525 443
	Black	30 ... 3000	1	3 842 993 512 / L
	Black	3000	10	3 842 526 034

Material: PVC



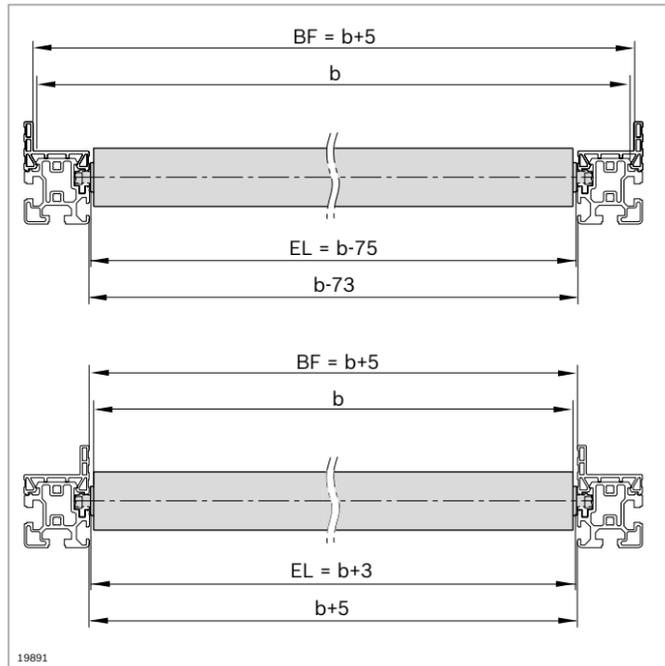
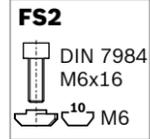
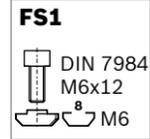
EcoFlow roller carrier	ESD	No.
	10	3 842 535 683

Material: ABS; black

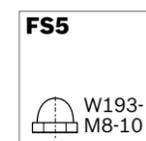
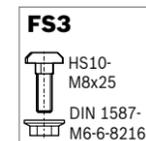
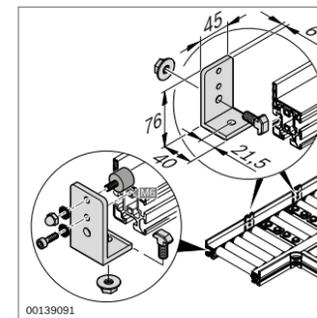
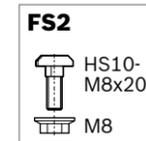
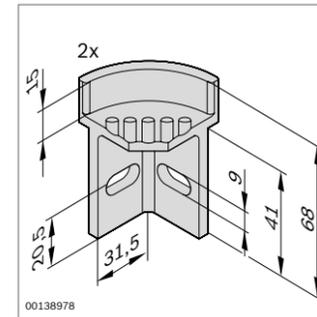
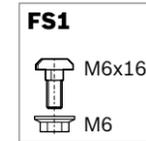
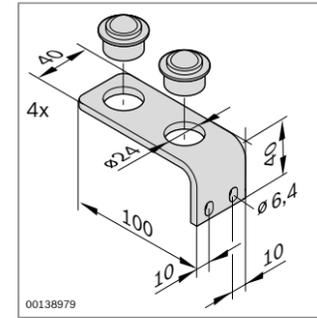
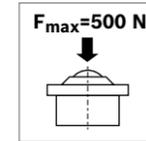
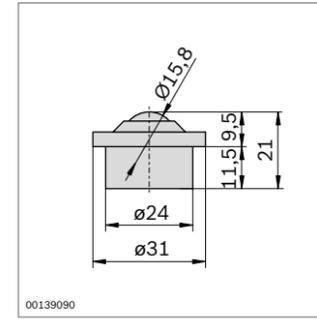
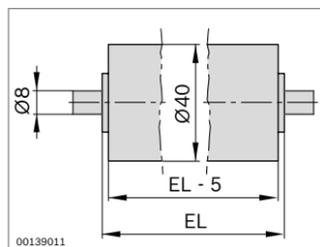


Roller fixation	Slot	No.	FS
	8	10	3 842 535 667 FS1
	10	10	3 842 535 668 FS2

Material: Roller fixation: 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 conveying	ESD	No.	FS
	Set	3 842 536 055	8xFS1

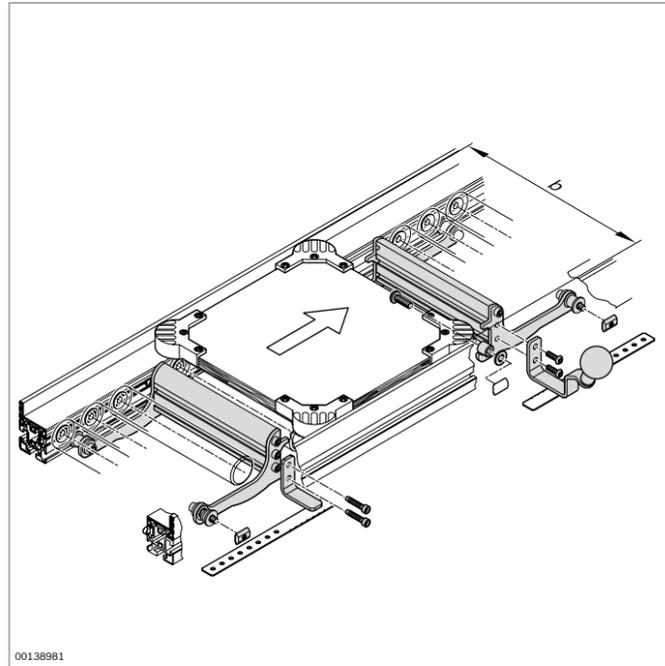
Material: Bracket Steel; galvanized
Ball: Stainless steel
Scope of delivery: Incl. 4 x bracket plate, fastening material (FS) for 10 mm slot

Corner piece	ESD	No.	FS
	Set	3 842 536 056	4xFS2

Material: PA; black
Scope of delivery: Incl. 2 x corner piece, fastening material (FS) for 10 mm slot

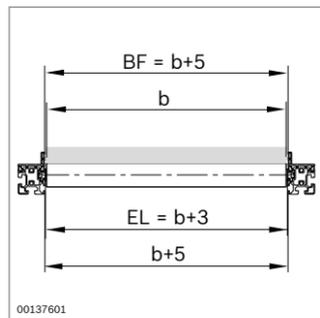
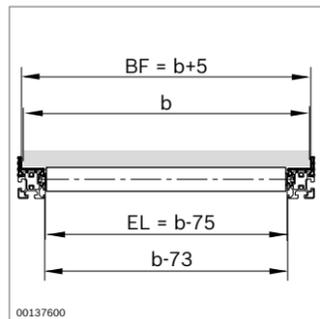
Stop	No.	FS
	Set	3 842 536 057 2xFS3, 4xFS4, 2xFS5, 2xFS6

Material: Aluminum; anodized
Scope of delivery: Incl. 2 x stop, fastening material (FS)



EcoFlow stop gates and return stops

- ▶ 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 require 45 mm more space below the bottom
- ▶ We recommend using a workpiece pallet with corner pieces (p. 12-31) to provide a defined stopping mechanism

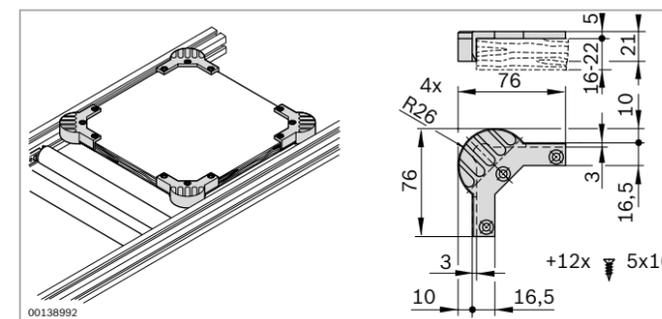
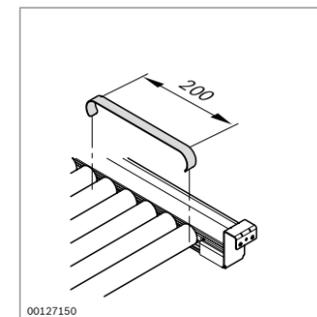
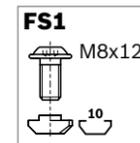
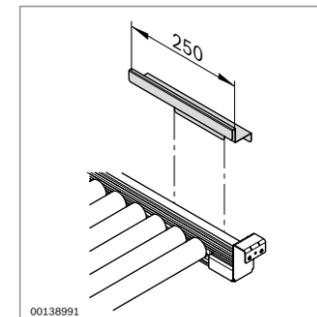
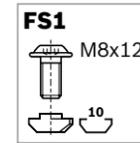
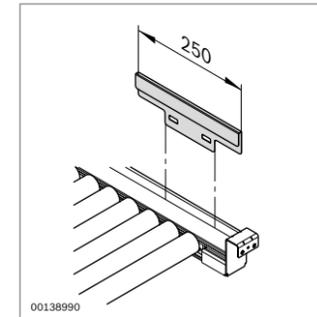


Stop gate	EL (mm)	No.
	105 ... 1005	3 842 995 007 / EL
	225	3 842 537 894
	325	3 842 537 895
	425	3 842 537 896
	525	3 842 537 897

Scope of delivery: Incl. Fastening material
 Condition on delivery: As components (pre-assembled)

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
 Condition on delivery: As components (pre-assembled)



EcoFlow accessories

- ▶ 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. 2 x 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

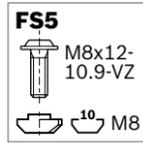
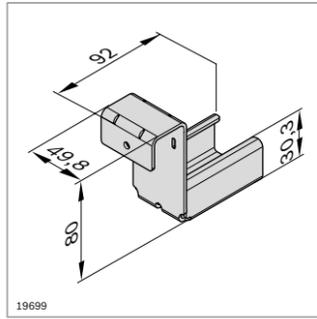
Brake	No.
	20 3 842 537 740

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

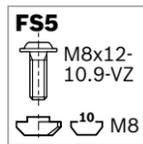
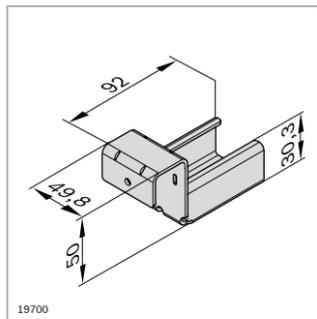
Corner pieces for workpiece pallets	ESD	No.
	Set	3 842 536 054

Material: PA; black



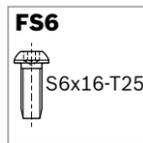
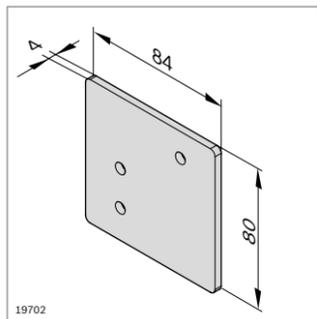
Rail holder with stop	No.	FS
	20 3 842 537 664	FS5

Material: Steel; galvanized
 Accessories: Round tube D28 (p. 2-70)
 Scope of delivery: Incl. fastening material (FS)



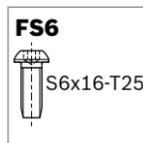
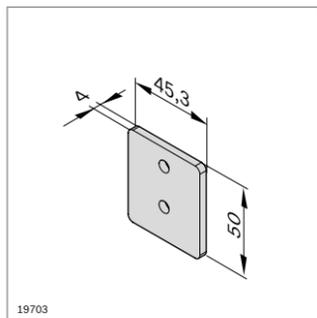
Rail holder without stop	No.	FS
	20 3 842 537 665	FS5

Material: Steel; galvanized
 Accessories: Round tube D28 (p. 2-70)
 Scope of delivery: Incl. fastening material (FS)



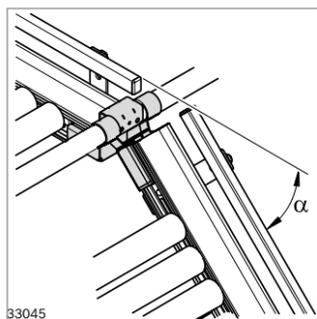
Stop plate with stop	No.	FS
	20 3 842 537 593	2xFS6

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



Stop plate without stop	No.	FS
	20 3 842 537 592	2xFS6

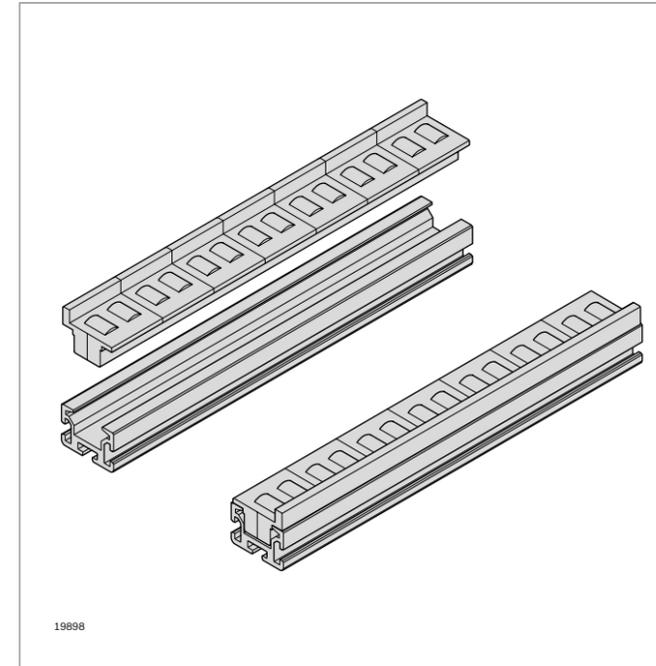
Material: Steel; galvanized
 Scope of delivery: Incl. fastening material (FS)



- Flexible bridge with maximum tilt (α_{max}) from horizontal:
 - With round tube D28 (p. 2-70): $\alpha_{max} = 40^\circ$
 - With strut profile D28x55 (p. 2-71): $\alpha_{max} = 30^\circ$

Flexible bridge	No.
	20 3 842 537 950

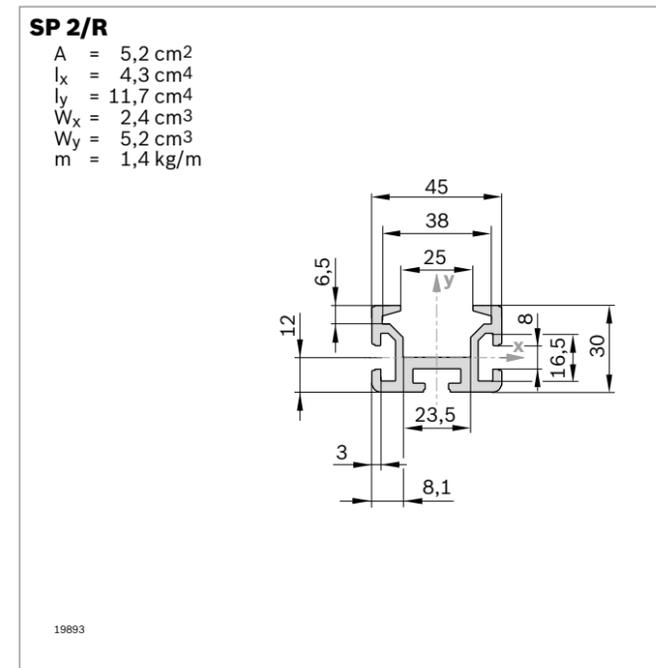
Material: Steel; galvanized



Conveyor track made of section profiles and roller elements

- Economical solution for manual slide sections
- Roller elements can be clipped in

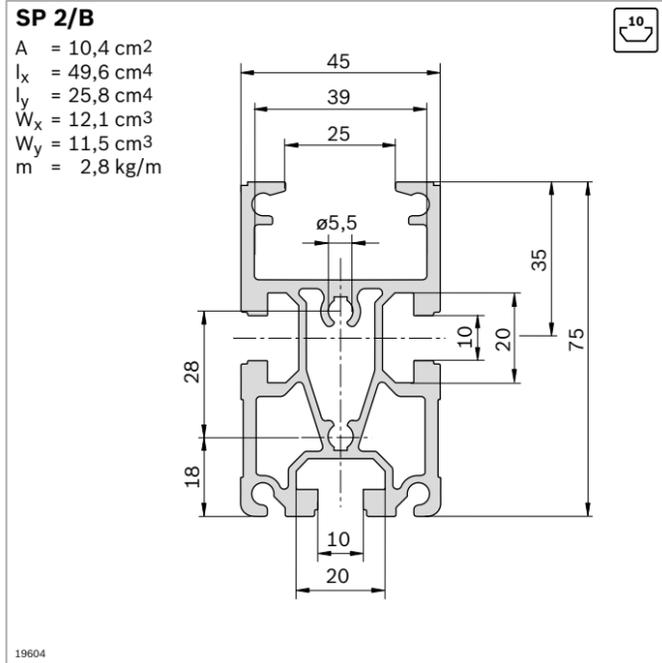
Accessories:
 Roller elements (p. 12-21)



SP 2/R
 A = 5,2 cm²
 I_x = 4,3 cm⁴
 I_y = 11,7 cm⁴
 W_x = 2,4 cm³
 W_y = 5,2 cm³
 m = 1,4 kg/m

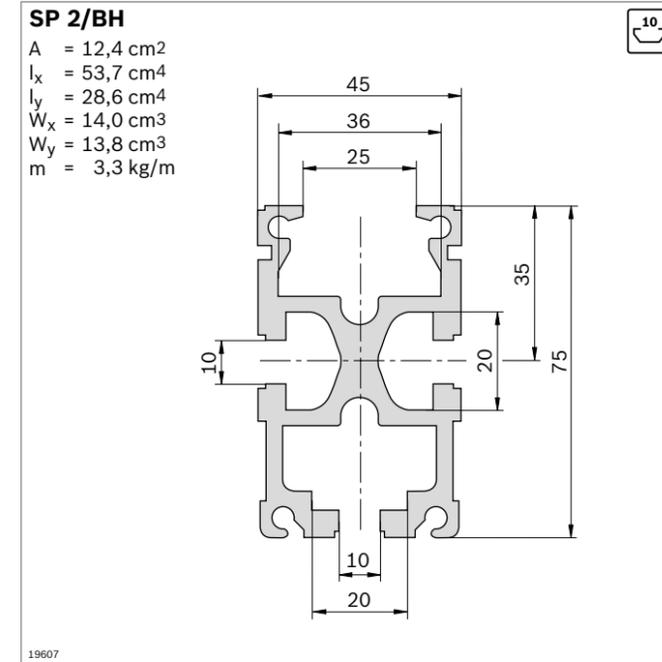
Section profile SP 2/R	L (mm)	No.
	50 ... 6000	3 842 992 676 / L

Material: Aluminum, natural-colored, anodized



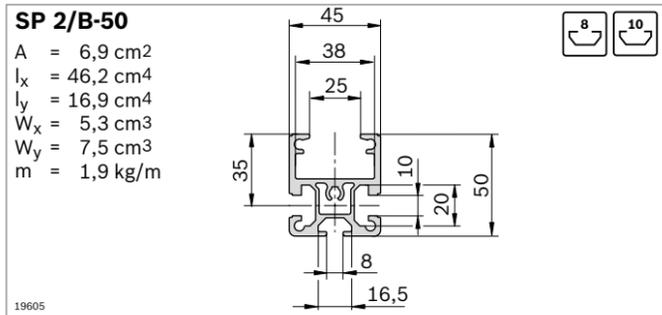
Section profile SP 2/B		Slot	L (mm)	No.
1 pc		10	200...6070	3 842 992 884 / L
16 pcs		10	6070	3 842 532 695

Material: Aluminum, natural-colored, anodized
 Accessories: Cross connector QV 2 (p. 12-42)



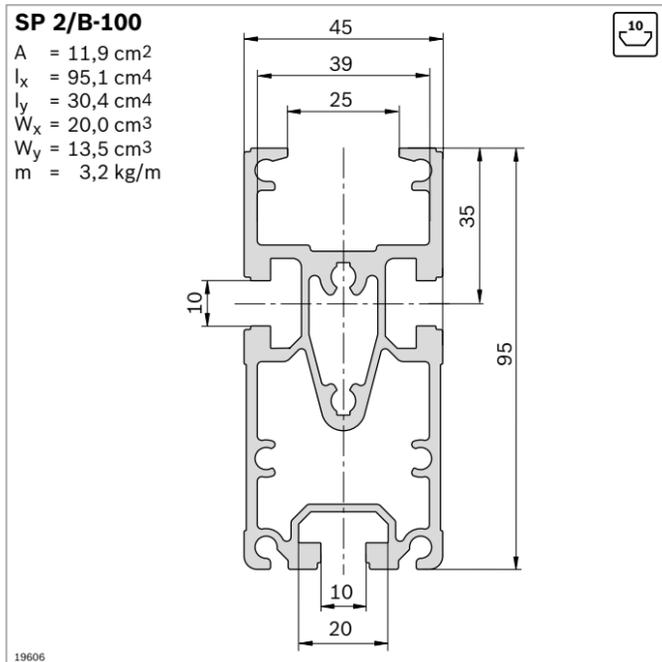
Section profile SP 2/BH		Slot	L (mm)	No.
1 pc		10	200...6070	3 842 990 409 / L
16 pcs		10	6070	3 842 532 696

Material: Aluminum, natural-colored, anodized
 Accessories: Cross connector QV 2 (p. 12-42)



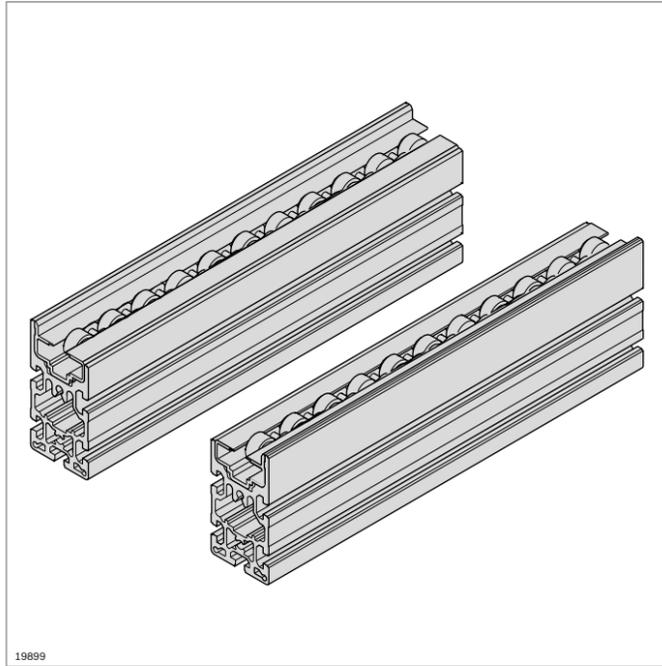
Section profile SP 2/B-50		Slot	L (mm)	No.
1 pc		8 / 10	200...6070	3 842 992 903 / L
20 pcs		8 / 10	6070	3 842 532 697

Material: Aluminum, natural-colored, anodized



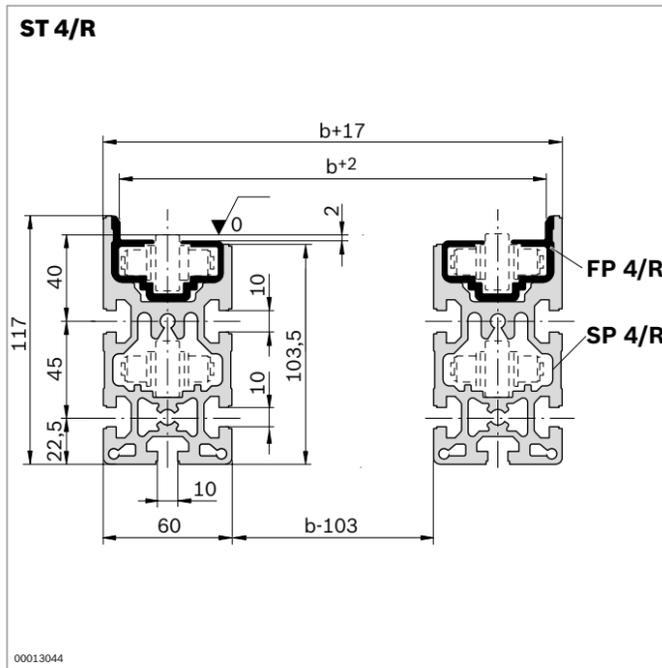
Section profile SP 2/B-100		Slot	L (mm)	No.
1 pc			200...6070	3 842 993 259 / L
16 pcs		10	6070	3 842 532 608

Material: Aluminum, natural-colored, anodized
 Accessories: Cross connector QV 2 (p. 12-42)



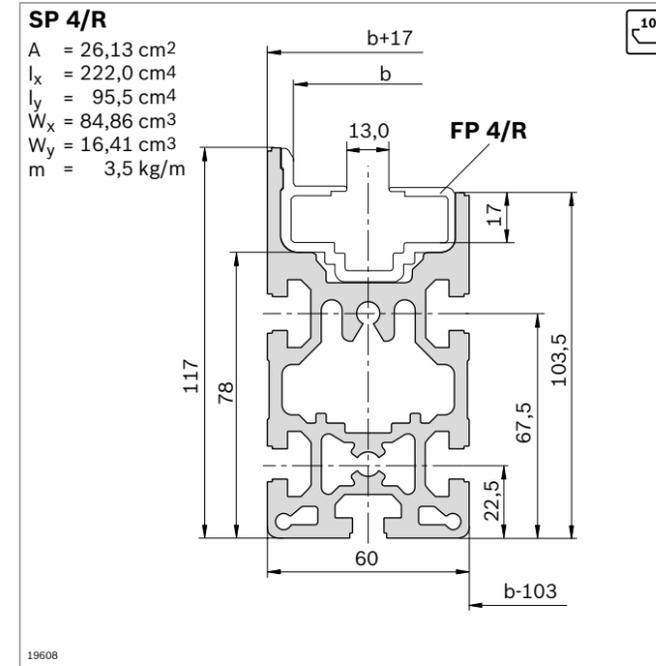
Conveyor sections made of SP 4/R section profiles and accumulation roller chains

- ▶ For constructing manual slide sections with high bearing loads (up to 2 kg/cm)
- ▶ For applications with and without workpiece pallets
- ▶ Low friction
- ▶ Steel chain with support wheels made of PA 12



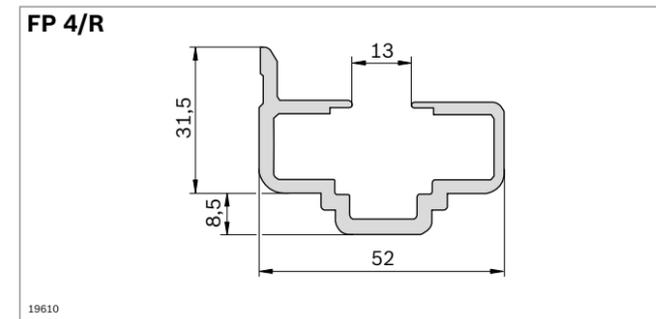
Section ST 4/R	L (mm)	No.
	200...6000	3 842 994 839 / L

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. 12-38)
 Cross connector QV 4 (p. 12-38)

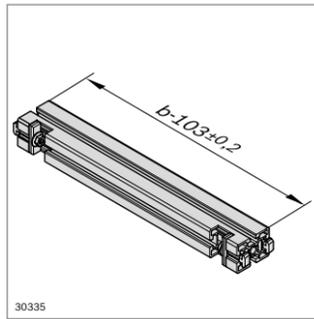
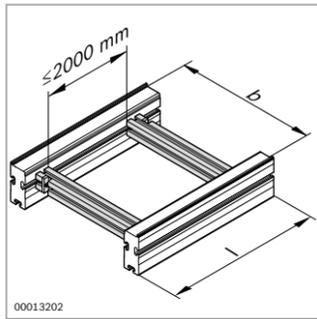
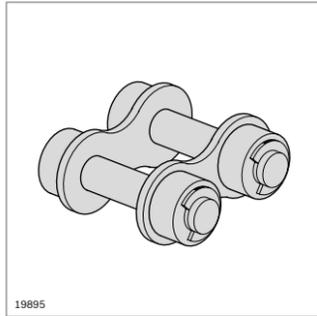
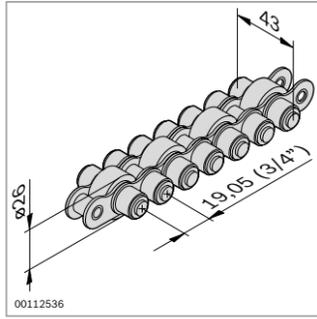


SP 4/R
 $A = 26,13 \text{ cm}^2$
 $I_x = 222,0 \text{ cm}^4$
 $I_y = 95,5 \text{ cm}^4$
 $W_x = 84,86 \text{ cm}^3$
 $W_y = 16,41 \text{ cm}^3$
 $m = 3,5 \text{ kg/m}$

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. 12-38) Cross connector QV 4 (p. 12-38)	



Guide profile FP 4/R	L (mm)	ESD	No.
10 pcs	6000	⚠	3 842 532 508
Material:	PA 12; black		



Accumulation roller chain	L (mm)	No.
Support wheel: PA 12	5000	3 842 508 967
Material:	Accumulation roller chain: Steel Support wheel: see ordering table	
Scope of delivery:	Incl. Chain lock	
Accessories:	Additional chain lock (3 842 071 941)	

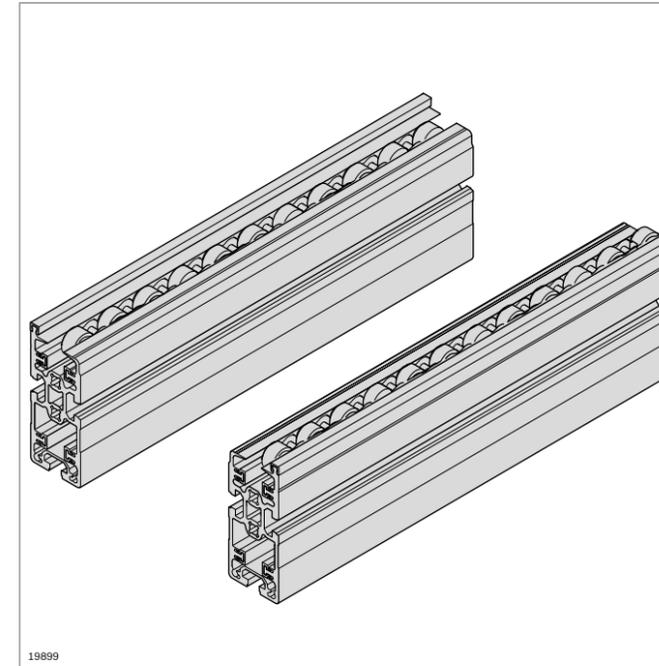
- ▶ Chain lock for extending accumulation roller chains

Chain lock	No.
	3 842 071 941

Material: Steel

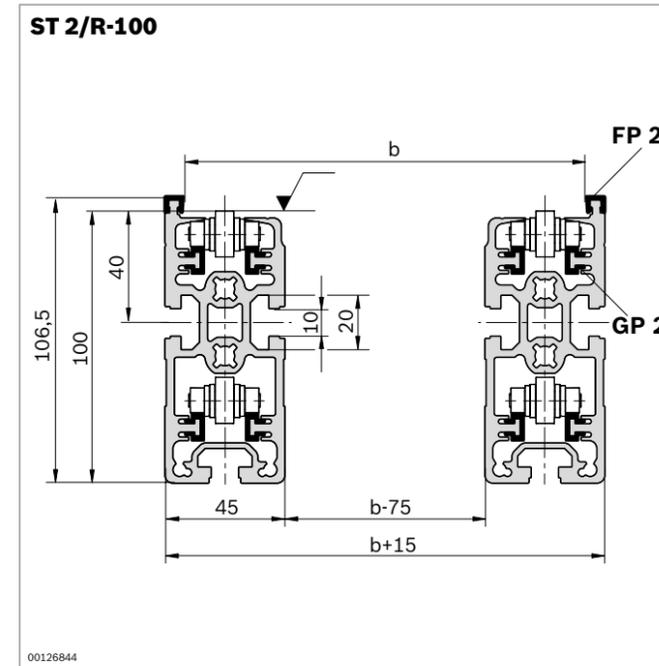
- ▶ Cross connector QV 4 for connecting two section profiles
- ▶ For defining the track width

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 protection



- ▶ Customizable section with plastic guide profile

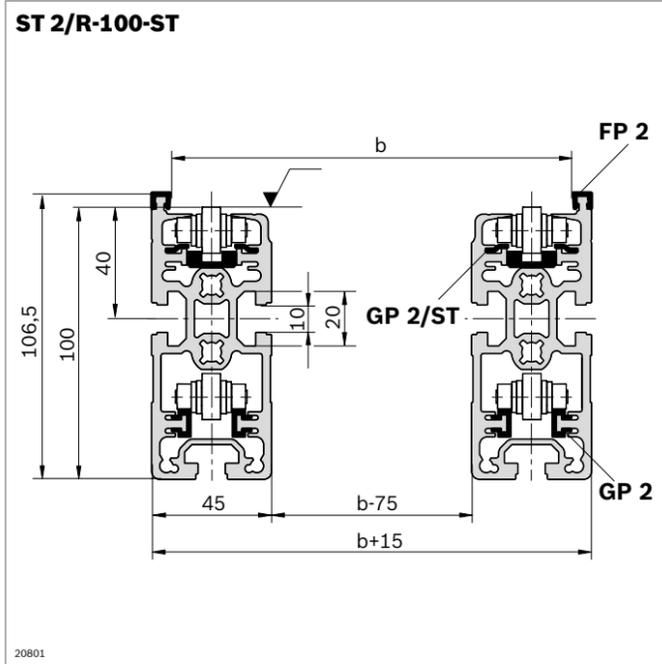
Section ST 2/R-100	ESD	L (mm)	No.
		60 ... 6000	3 842 994 889 /L

Material: Aluminum, natural-colored, anodized
Glide profile, guide profile: PA 12

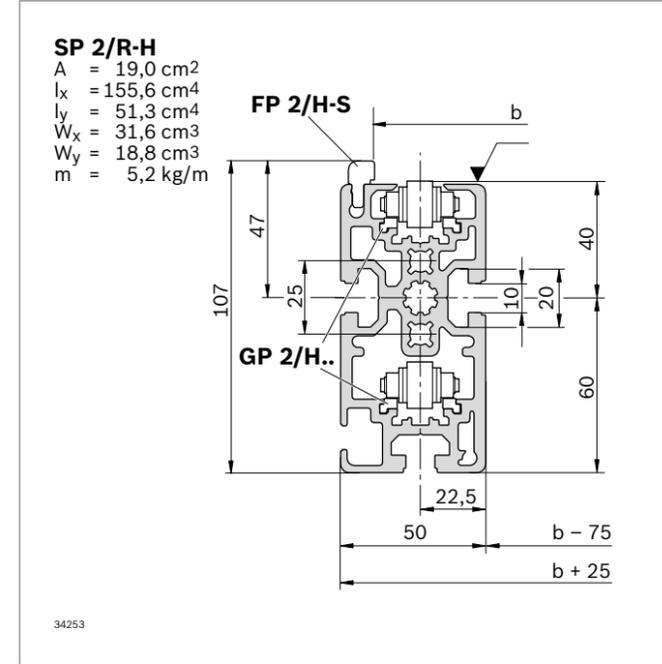
Scope of delivery: 2 x section profile SP 2/R-100
2 x guide profile FP 2
8 x glide profile GP 2

Condition on delivery: Assembled

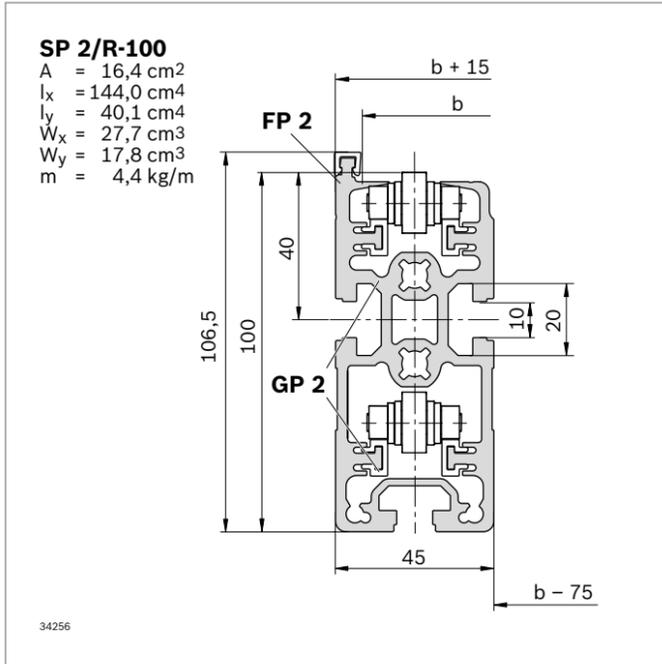
Accessories: Accumulation roller chain (p. 12-42)
Accumulation roller chain with small parts protection (p. 12-42)
Cross connector QV 2, QV 2-H (p. 12-42)



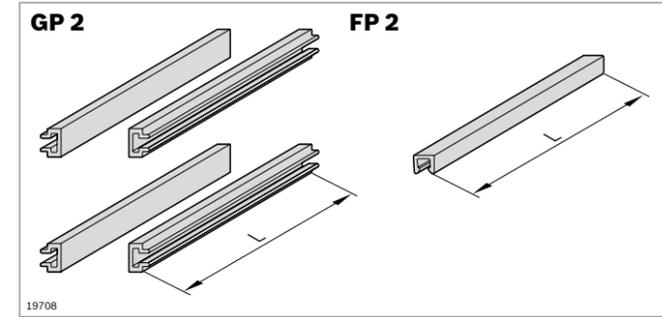
Section ST 2/R-100 ST	ESD	L (mm)	No.
		60 ... 6000	3 842 994 907 / L
Material:	Aluminum, natural-colored, anodized		
	Slide profile: Steel		
	Guide profile: PA 12		
	Accumulation roller chain guide profile PE		
Scope of delivery:	2 x section profile SP 2/R-100		
	2 x guide profile FP 2		
	4 x glide profile GP 2		
	4 x glide profile GP 2/ST		
	2 x guide profile for accumulation roller chain		
Condition on delivery:	Assembled		
Accessories:	Accumulation roller chain (p. 12-42)		
	Accumulation roller chain with small parts protection (p. 12-42)		
	Cross connector QV 2, QV 2-H (p. 12-42)		



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	
	Glide profile GP 2/H-KST	
	Glide profile GP 2/H-ST	



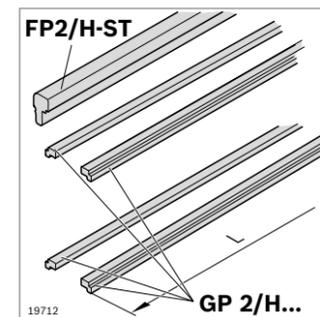
Section profile SP 2/R-100	L (mm)	No.
16 pcs	6070	3 842 529 931
Material:	Aluminum, natural-colored, anodized	
Accessories:	PA guide and glide profile (p. 12-41)	
	ST guide and glide profile (p. 12-41)	



Guide and glide profile PA	ESD	No.
		3 842 529 933
Material:	PA 12; black	
Scope of delivery:	64 x glide profile GP 2 (L = 6000 mm)	
	16 x guide profile FP 2 (L = 6000 mm)	

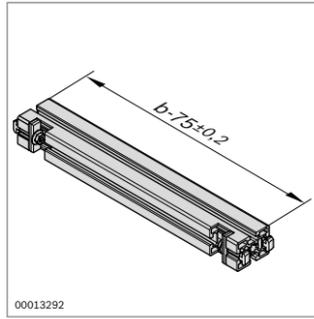
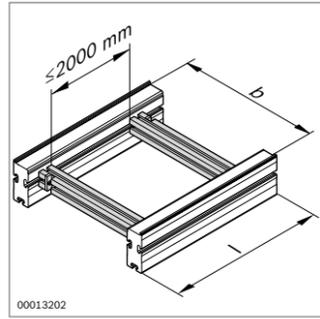


Guide and glide profile ST	ESD	No.
		3 842 532 676
Material:	GP 2/ST: Steel; corrosion-resistant	
	Accumulation roller chain guide profile PE	
Scope of delivery:	32 x glide profile GP 2/ST (L = 3000 mm)	
	24 x guide profile for accumulation roller chain (L = 2000 mm)	



Guide profile	L (mm)	ESD	No.
FP 2/H-ST	24 pcs		3000 3 842 537 890
Material:	Steel; corrosion-resistant		

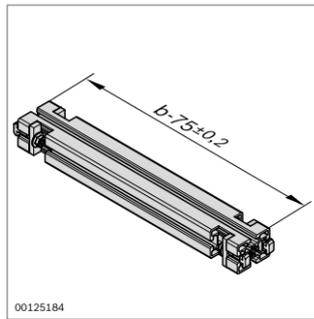
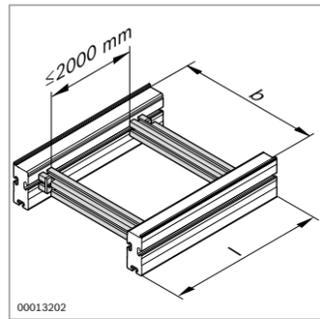
Glide profiles	L (mm)	ESD	No.
GP 2/H-ST	48 pcs		3000 3 842 537 888
GP 2/H-KST	48 pcs		3000 3 842 537 889
Material:	H-KST: PA		
	H-ST: Steel; corrosion-resistant		



- ▶ Cross connector QV 2 for connecting two section profiles
- ▶ For defining the track width

Cross connector QV 2	b (mm)	No.
	160...1200	3 842 994 635 / b

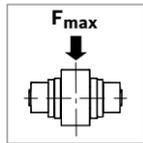
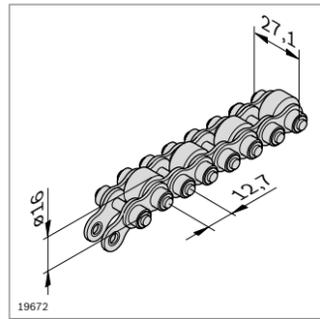
Material: Aluminum, natural-colored, anodized
 Fastening material: Steel
 Scope of delivery: Strut profile 45x60, 2 x QV mounting kit (p. 3-62)



- ▶ 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...1200	3 842 993 052 / b

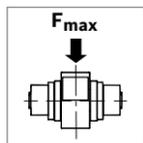
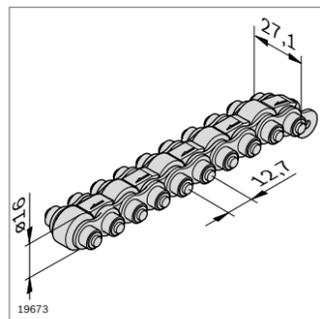
Material: Aluminum, natural-colored, anodized
 Fastening material: Steel
 Scope of delivery: Strut profile 45x60, 4 x QV mounting kit (p. 3-62)



Accumulation roller chain	F _{max} (kg/cm)	L (mm)	No.
Support wheel: PA 12	1.5	12000	3 842 523 918
Support wheel: Steel	2.0 ¹⁾ /1.5 ²⁾	12000	3 842 530 864

¹⁾ When using glide profile GP 2/ST
²⁾ When using glide profile GP 2

Material: Accumulation roller chain: Steel
 Support wheel: see ordering table
 Scope of delivery: Incl. Chain lock
 Accessories: Additional chain lock (**3 842 530 417**)



Accumulation roller chain with small parts trap	F _{max} (kg/cm)	L (mm)	No.
Support wheel: PA 12	1.5	12000	3 842 536 268
Support wheel: Steel	2.0 ¹⁾ /1.5 ²⁾	12000	3 842 536 270

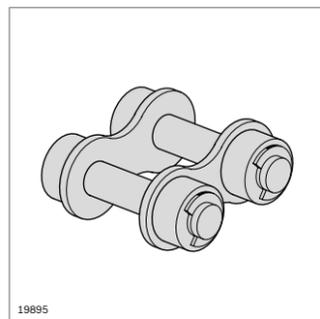
¹⁾ When using glide profile GP 2/ST
²⁾ When using glide profile GP 2

Material: Accumulation roller chain: Steel
 Support wheel: see ordering table
 Scope of delivery: Incl. Chain lock
 Accessories: Additional chain lock (**3 842 530 417**)

- ▶ Chain lock for extending accumulation roller chains

Chain lock	No.
	3 842 530 417

Material: Steel



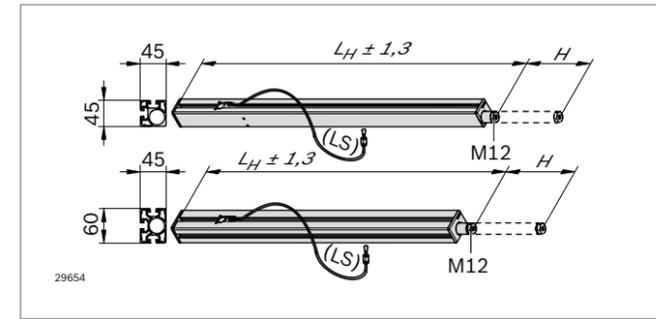
Components for height adjustment 45x45 and 45x60



- ▶ Infinitely variable hydraulic height adjustment with a crank handle, e.g. for work benches, tables or frames
- ▶ Max. bearing load 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
- ▶ Can be used for the implementation of EN 1570-1, taking other measures for integration into products into consideration

Optional accessories:

- ▶ Connection elements, e.g. bracket (p. 3-18),
- ▶ Leveling foot, e.g. **3 842 529 025** (p. 6-4)



Lifting module	L _H (mm)	L _S (mm)	No.
45x45 Adaptable	720 ... 2000 ¹⁾	1000 ... 4000 ²⁾	Set 3 842 994 000/L_H/L_S
Standard	770	2500	Set 3 842 552 131
45x60 Adaptable	720 ... 2000 ¹⁾	1000 ... 4000 ²⁾	Set 3 842 994 001/L_H/L_S
Standard	770	2500	Set 3 842 552 132

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

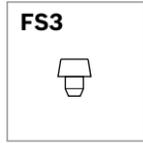
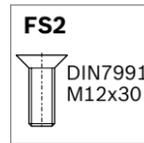
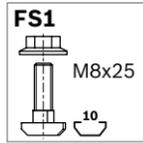
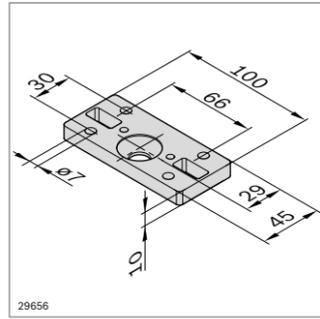
Scope of delivery: 2 x lifting module with integrated hydraulic cylinder incl. hose (bend radius min. 50 mm) and quick-release coupling; 2 x cover cap
 Condition on delivery: Assembled, filled with food-safe HPL oil of class NSF H1

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 stroke per rotation
- ▶ Crank handle, retractable

Pump	Max. Load (N)	No. Lift module	L _p (mm)	B _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 lifting 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 mounting a leveling foot (e.g. **3 842 529 025**) to the lifting module
- Max. screw-in depth of the spindle with $L_H = 720 \text{ mm}$: ~ 50 mm

Adapter plate	No.	FS
45x45	Set 3 842 552 174	4xFS4
45x60	Set 3 842 552 175	4xFS4

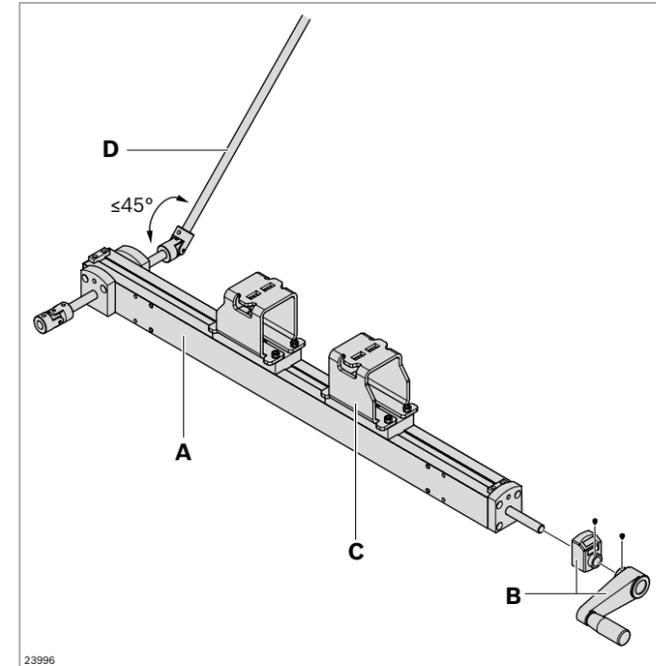
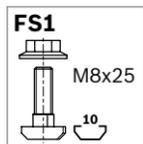
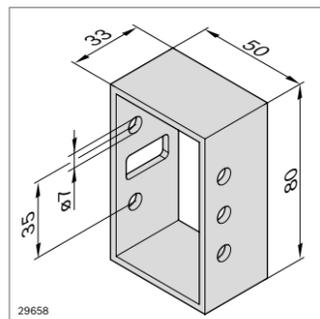
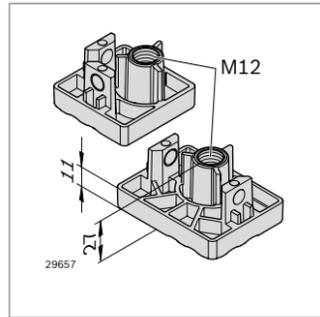
Material: Diecast zinc
 Fastening material: Steel; galvanized,
 Scope of delivery: 2 x adapter plate; incl. fastening material (FS)

Connection adapter

- For mounting the pump on a profile or a table top
- Independent of the pump size, mounting requires 3 countersunk screws (ISO 10642, M6, 8.8) in 40 mm (pump for 2 lifting modules) or 70 mm (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

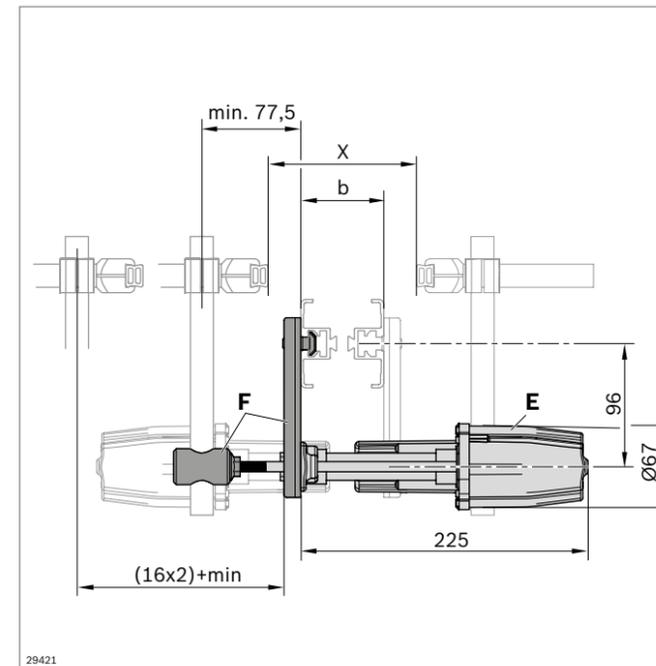
Connection kit (C)	No.
	3 842 547 729

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



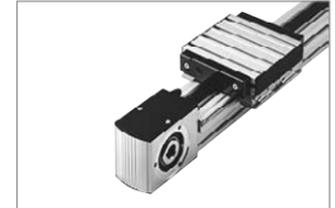
Cam roller guide LF6S
(p. 13-6)



Cam roller guide LF6C
(p. 13-11)



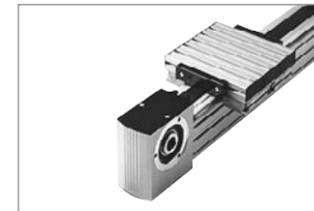
Cam roller guide LF12S
(p. 13-16)



Cam roller guide LF12C
(p. 13-23)



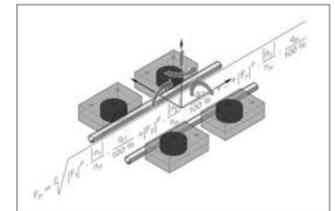
Cam roller guide LF20S
(p. 13-30)



Cam roller guide LF20C
(p. 13-37)



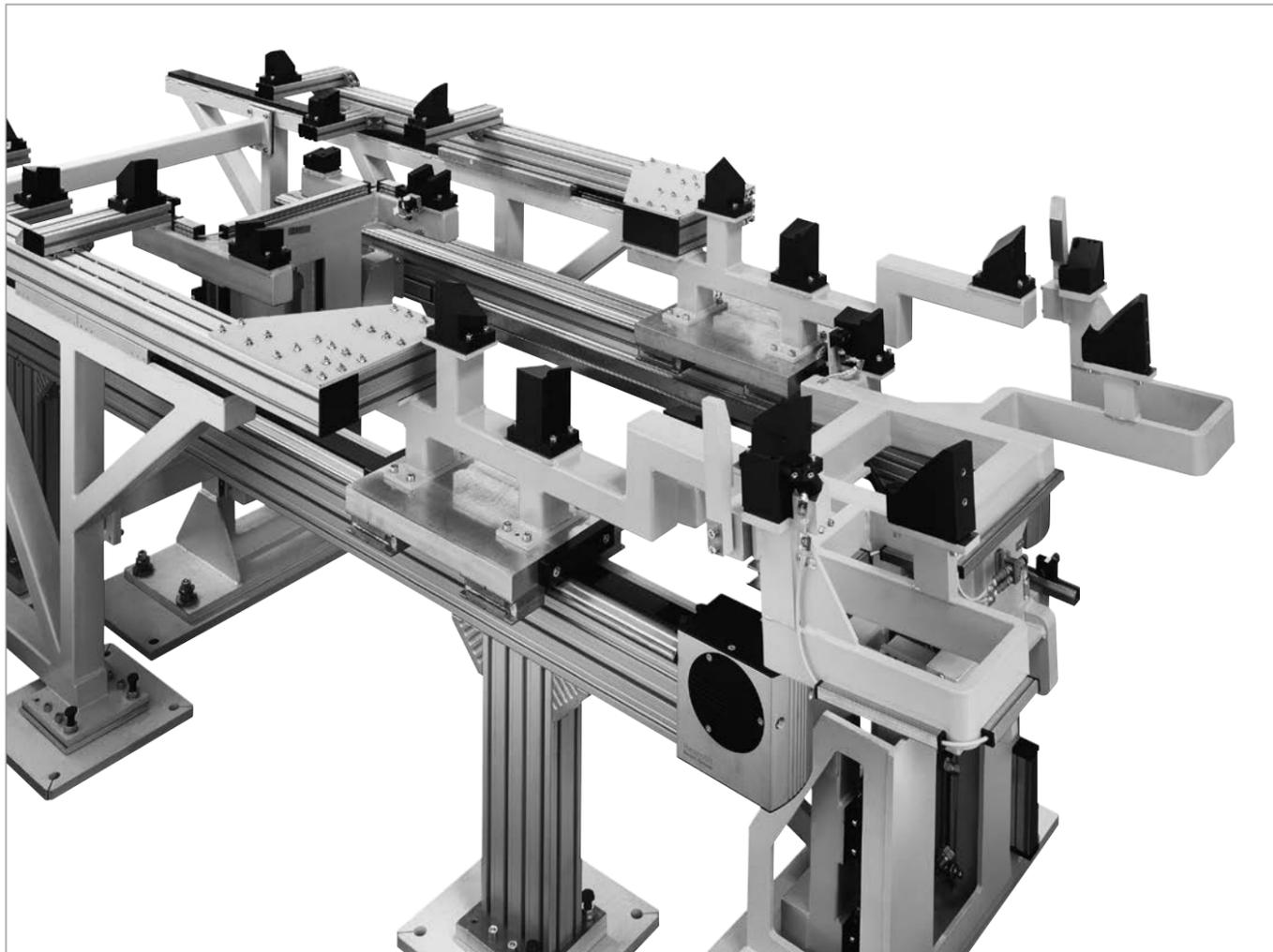
Plug-in shafts, synchronous shafts
(p. 13-47)



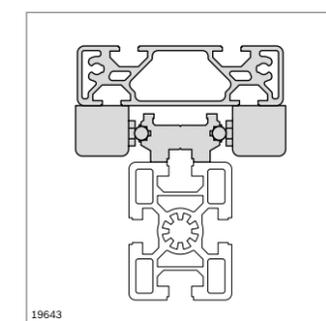
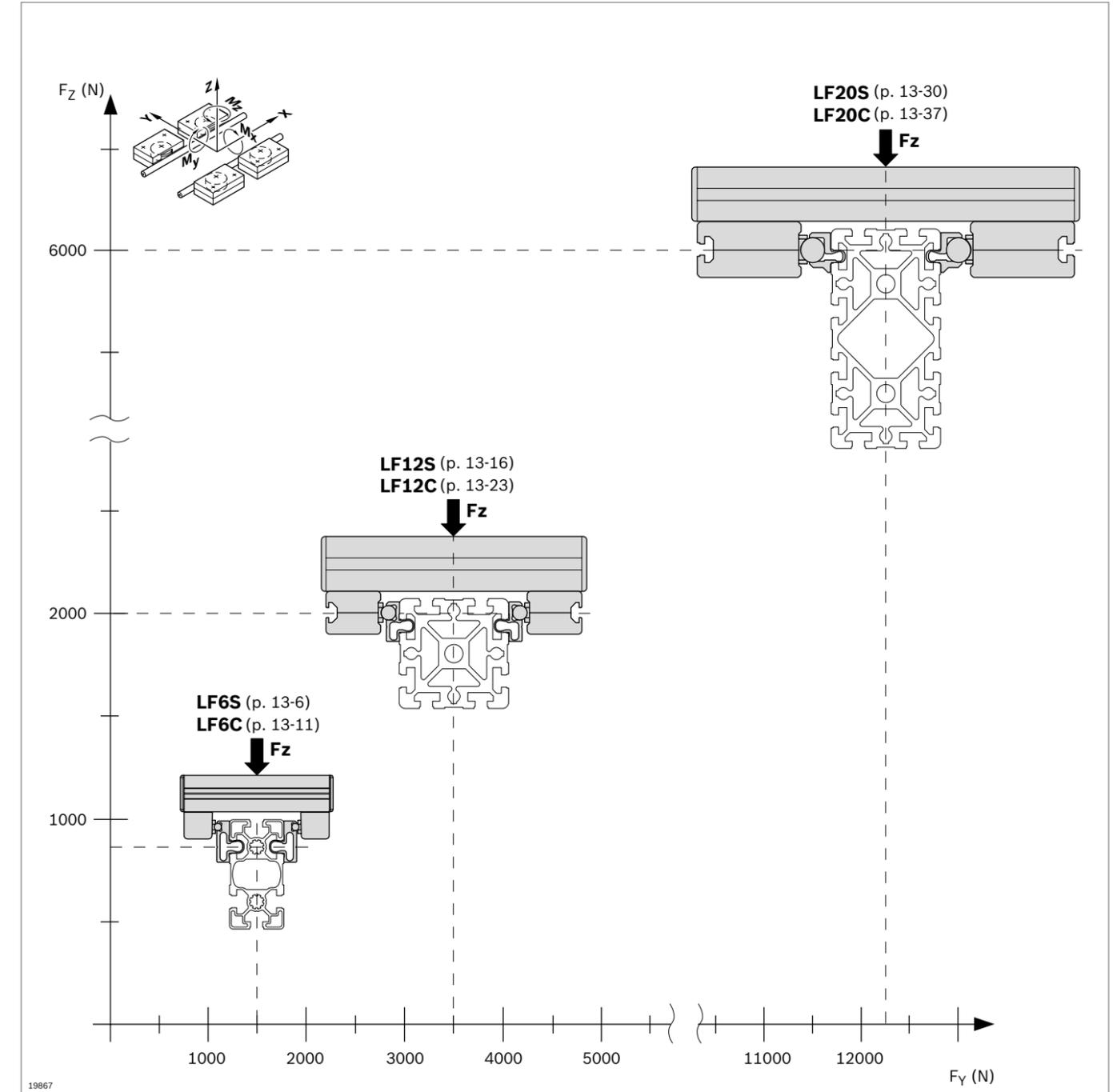
Design (p. 13-49)

Linear guides

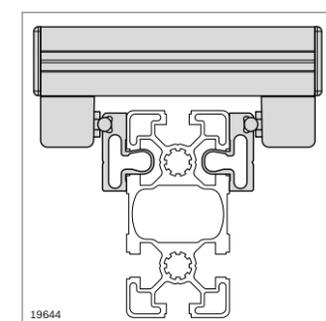
- ▶ For constructing linear guides based on cam roller guides
- ▶ Cam roller guides are suitable for applications with high speeds and medium loads, in particular for the construction of handling equipment, feed systems, guides in work machines, and many other applications
- ▶ Fully pre-assembled in any required length or as individual components for assembly on site
- ▶ Without drive or with toothed belt drive for attaching gears and motors



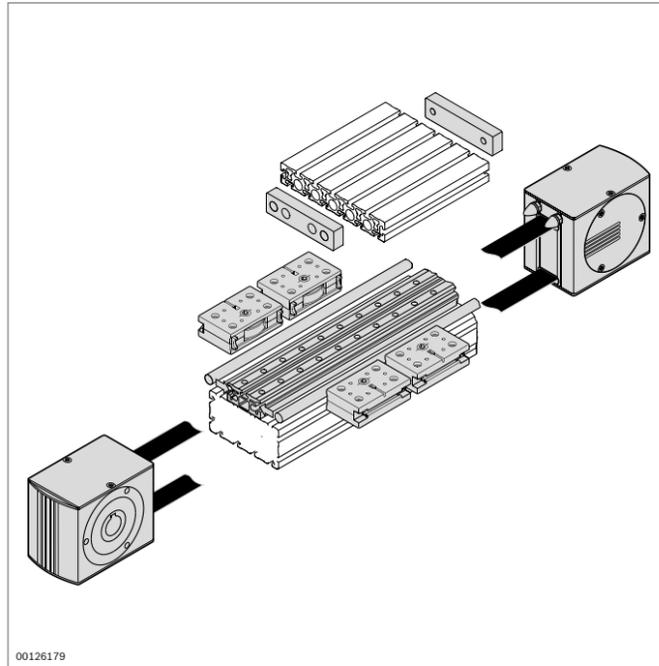
Linear guides – sizes, designs, and loads



- LF...S**
- ▶ Compact construction
 - ▶ Fixed track width
 - ▶ $v_{max} = 5 \text{ m/s}$

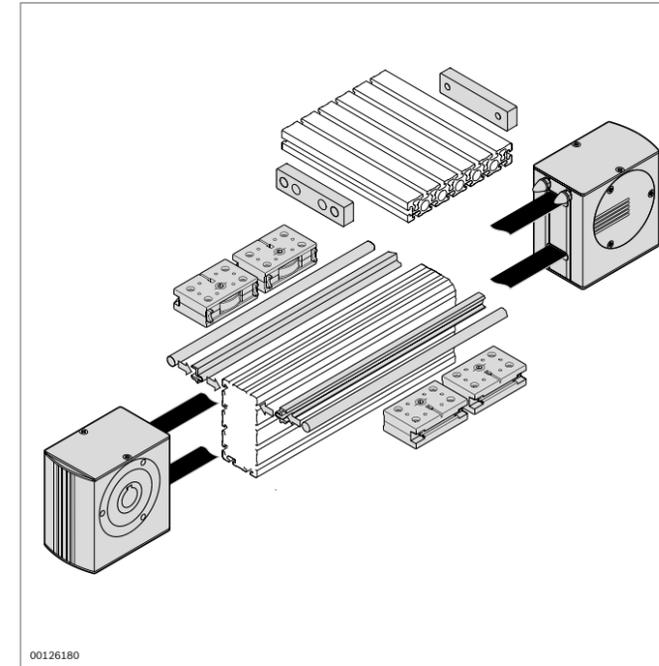
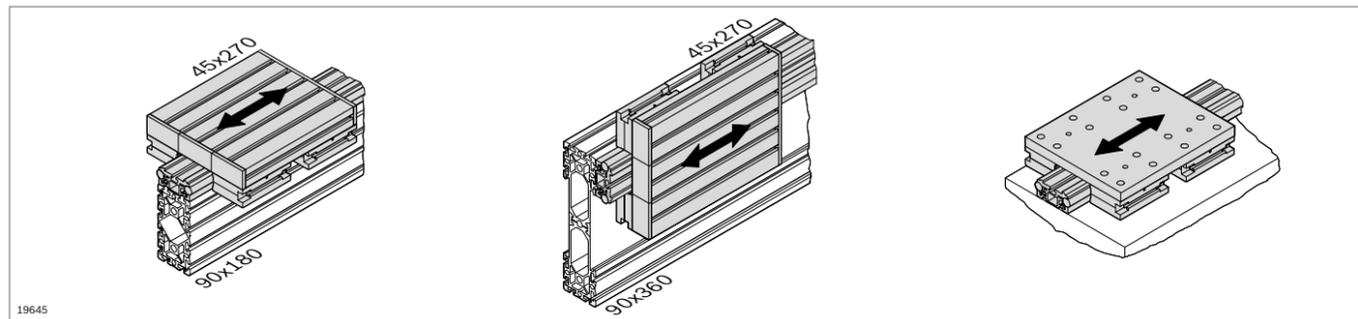


- LF...C**
- ▶ Freely selectable track width for greater torque absorption
 - ▶ $v_{max} = 5 \text{ m/s}$



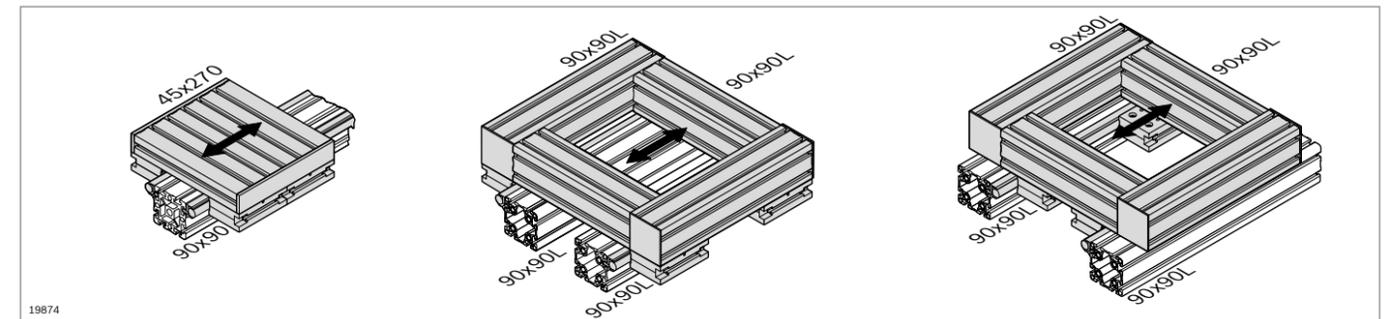
Cam roller guides LF...S

- ▶ 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

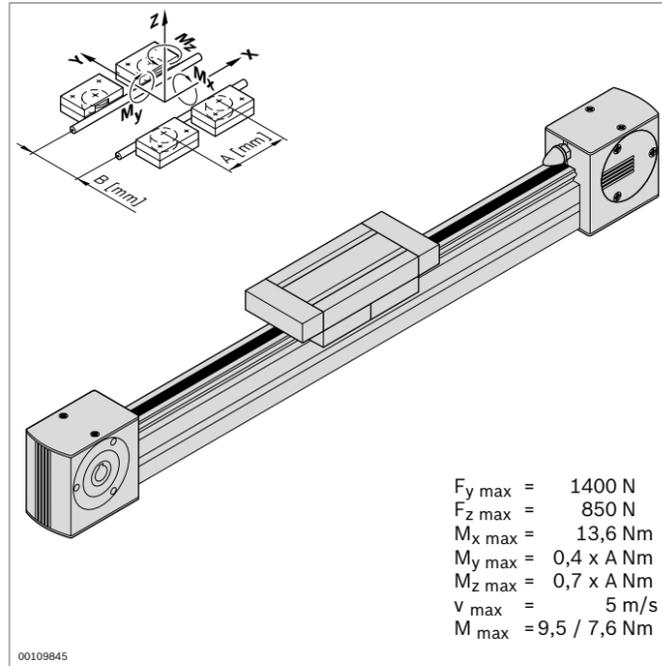


The support profiles shown here are examples

Profile	Dimensions	F_y max	F_z max	M_x max	v_{max}
LF6S	45x60, 90, 62,5, 110,5	1400 N	850 N	13,6 Nm	5 m/s
LF12S	90x90L, 180, 92,5, 172,5	3500 N	2000 N	78 Nm	5 m/s
LF20S	90x180, 270, 92,5, 182,5	12500 N	6000 N	240 Nm	5 m/s

The support profiles shown here are examples

Profile	Dimensions	F_y max	F_z max	M_x max	v_{max}
LF6C	45x90, 126, 120, 74, 126, B (=64)	1400 N	850 N	25,6 Nm (B=64mm)	5 m/s
LF12C	90x90, 218,5, 210,5, 61, 141, B (=108)	3500 N	2000 N	108 Nm (B=108mm)	5 m/s
LF20C	90x180, 318, 310, 141, 231, B (=120)	12500 N	6000 N	360 Nm (B=120 mm)	5 m/s

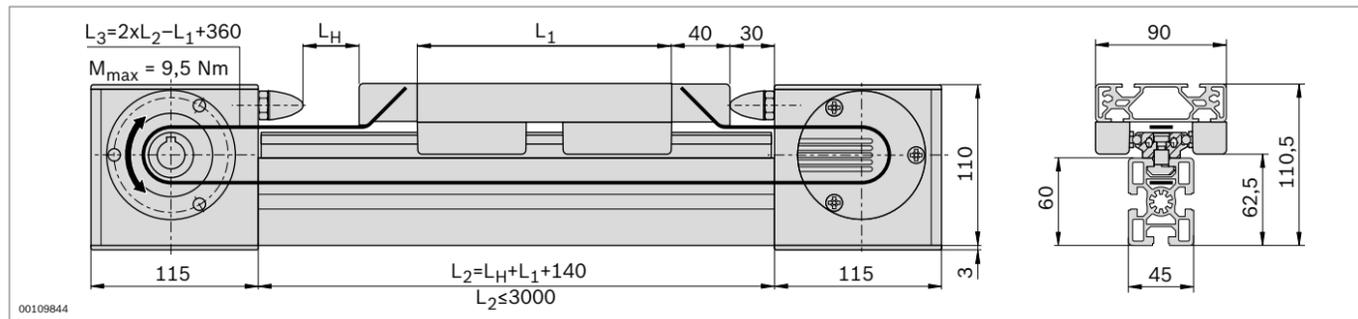


Cam roller guide LF6S – complete axis



- 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)

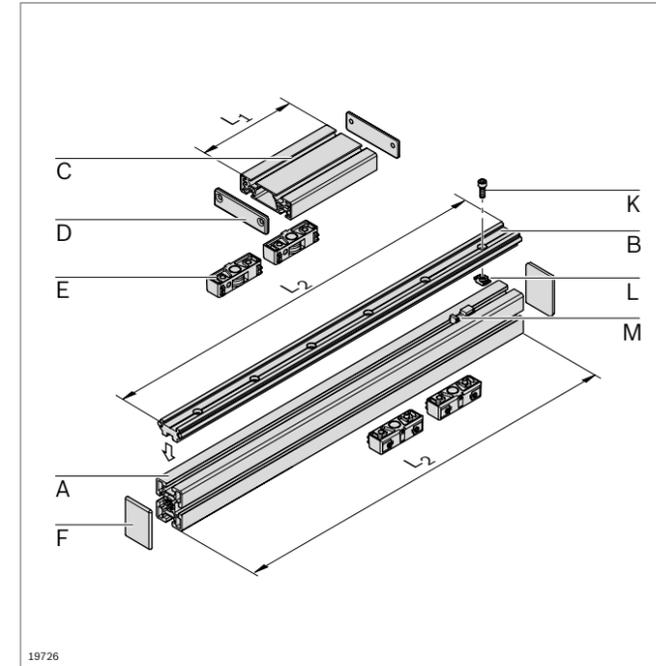
$F_{y \max} = 1400 \text{ N}$
 $F_{z \max} = 850 \text{ N}$
 $M_{x \max} = 13,6 \text{ Nm}$
 $M_{y \max} = 0,4 \times A \text{ Nm}$
 $M_{z \max} = 0,7 \times A \text{ Nm}$
 $v_{\max} = 5 \text{ m/s}$
 $M_{\max} = 9,5 / 7,6 \text{ Nm}$



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
	$150 \leq L_1 \leq 1000$	



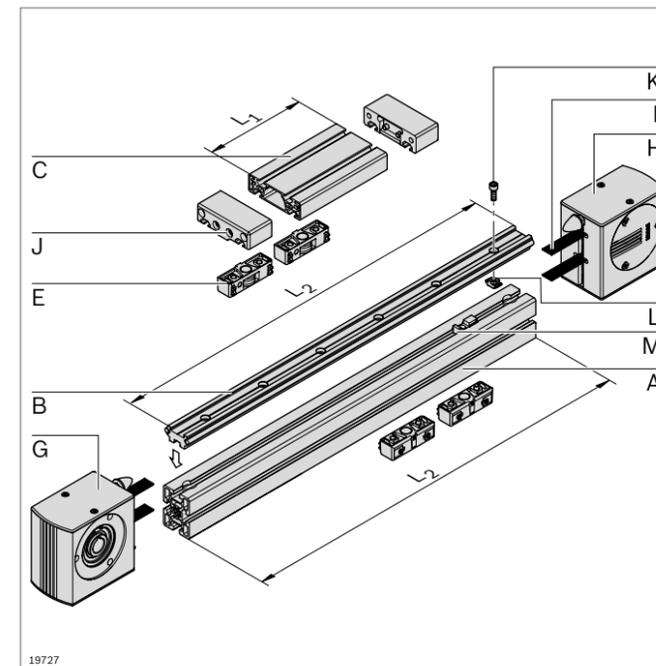
Cam roller guide LF6S – components

- Components for the individual assembly of cam roller guides, with or without drive

Parts list for cam roller guide LF6S without drive

Component	No.	Pcs	Page
A Profile 45x60	3 842 990 570 / L_2	1	2-40
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	2-40
K Cylinder bolt M6x20 – DIN 7984		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

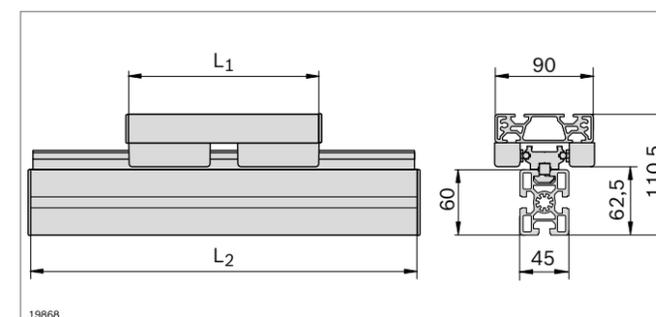


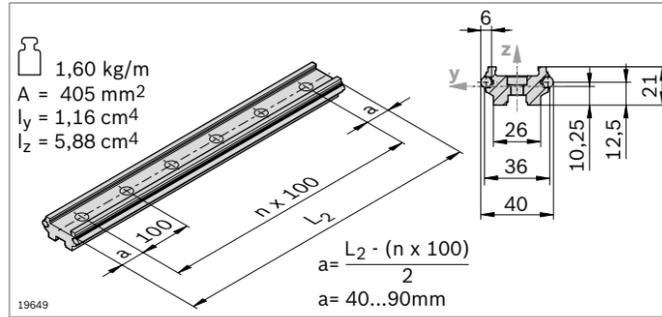
Parts list for cam roller guide LF6S with drive

Component	No.	Pcs	Page
A Profile 45x60 LF6S	3 842 993 085 / L_2	1	2-40
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 – DIN 7984		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⁾ $L_3 = 2xL_2 - L_1 + 360$

²⁾ For identification see page 13-8





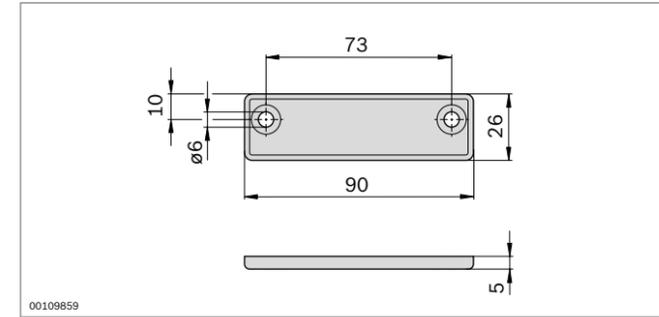
- ▶ Guide profile LF6S with integrated guide rods
- ▶ Installation on MGE strut profiles with 10 mm slot or directly on a flat surface

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**

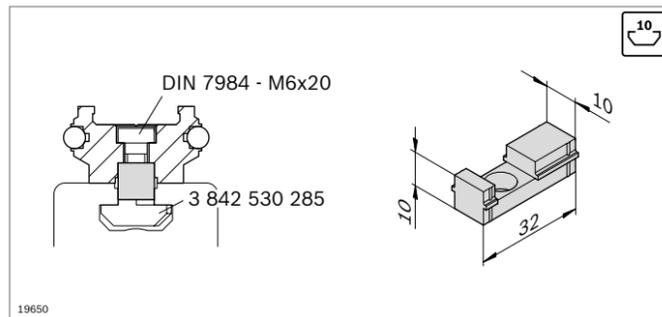
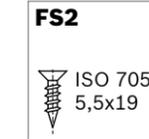
Required accessories: Cylinder bolt DIN 7984 – M6x20
 T-nut M6, 10 mm slot **3 842 530 285** (p. 3-4)



- ▶ 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

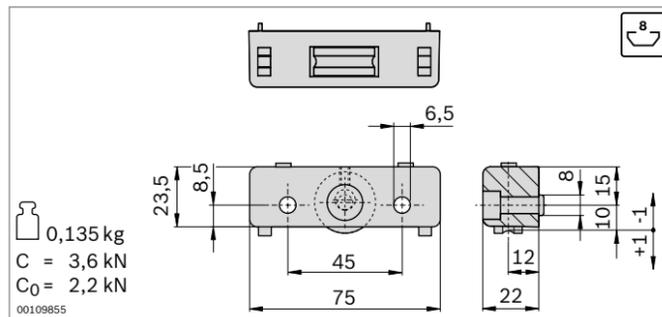
Material: PA; black



- ▶ 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



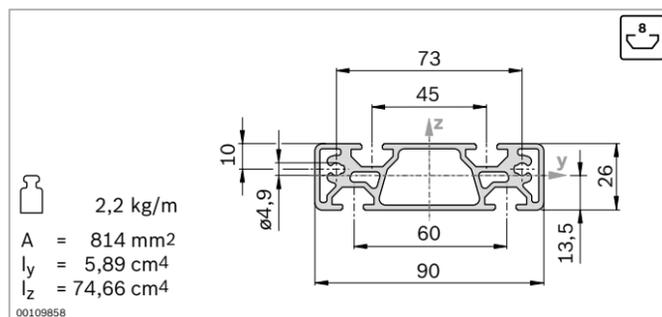
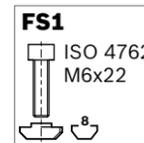
- ▶ Guide bearing for trolley construction
- ▶ Guiding via guide rod
- ▶ Cam rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free cam roller adjustment via eccentric bolts

Guide bearing	No.	FS
LF6	2 3 842 535 662	2xFS1

Material: Housing: Diecast aluminum
 Cam roller: Steel, hardened, polished

Scope of delivery: Incl. fastening material (FS)

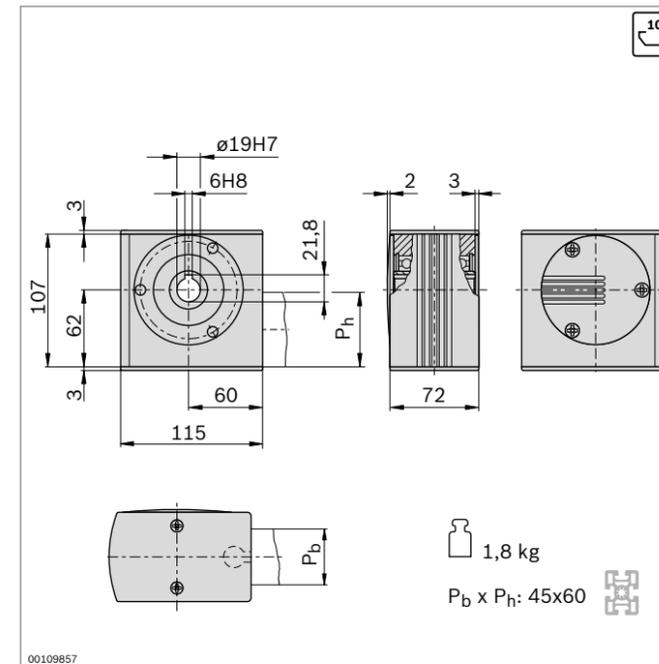
Condition on delivery: Lubricating felts ungreased; greasing according to assembly instructions **3 842 527 226**



- ▶ 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

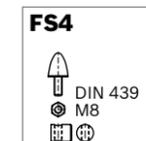
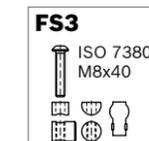


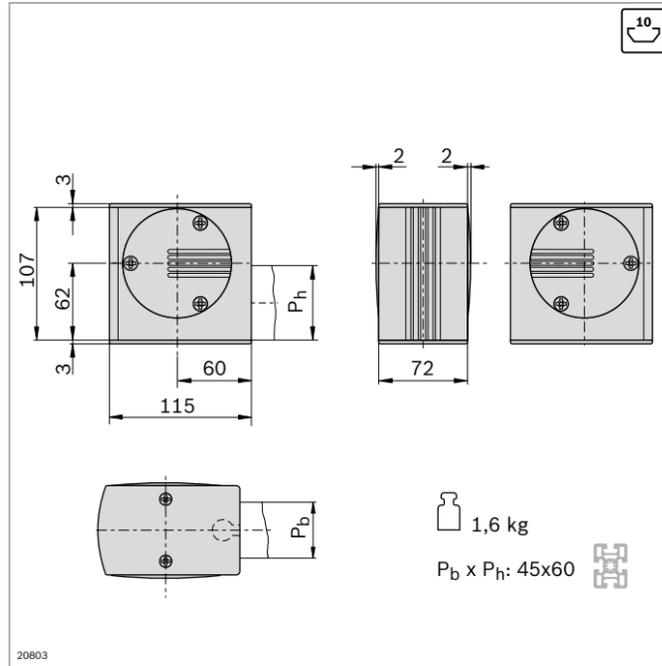
- ▶ Drive head for transferring drive torque to a toothed belt
- ▶ For direct mounting of a motor or (in conjunction with a plug-in shaft) for mounting a hollow shaft gear or a coupling (p. 13-46)
- ▶ Mounted with longitudinal end connector directly on profile 45x60
- ▶ Profile finishing: LF blind hole 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

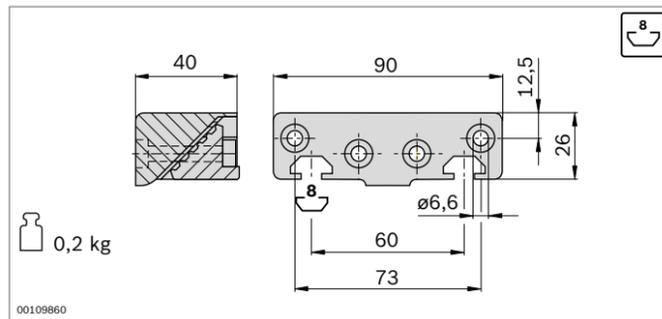
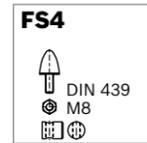
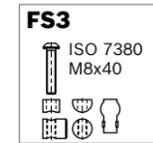




- ▶ Return head for tensioning the toothed belt and changing its direction
- ▶ Mounted directly on profile using longitudinal end connector
- ▶ Profile finishing: LF blind hole drilling for longitudinal end connector

Return head	No.	FS
LF6S	3 842 526 411	2xFS3, FS4

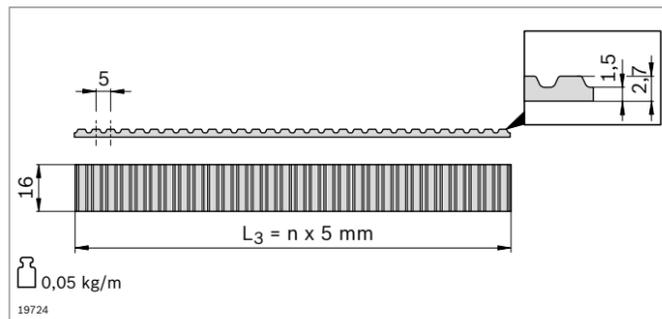
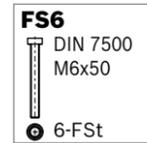
Material: Aluminum; anodized
Hollow shaft: Steel; galvanized
Cover caps: PA; black
Scope of delivery: Incl. Fastening material (FS), cover caps



- ▶ 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

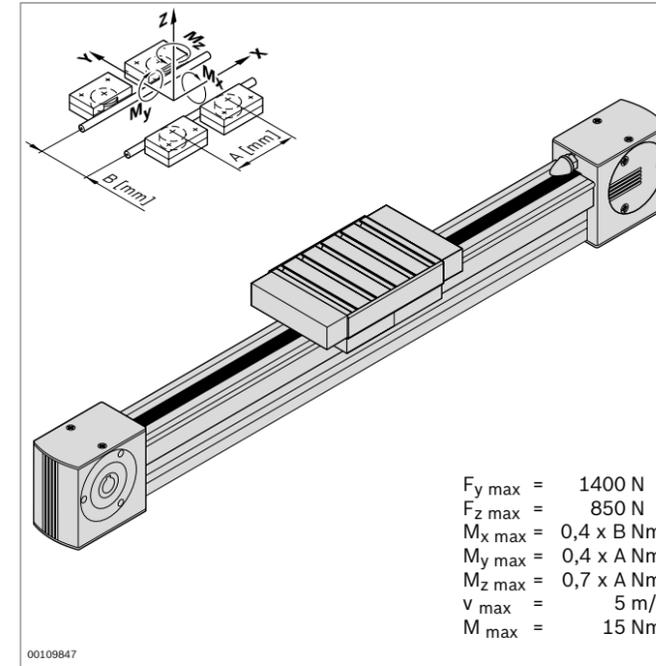
Material: Aluminum, painted black
Scope of delivery: Incl. fastening material (FS)



- ▶ 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

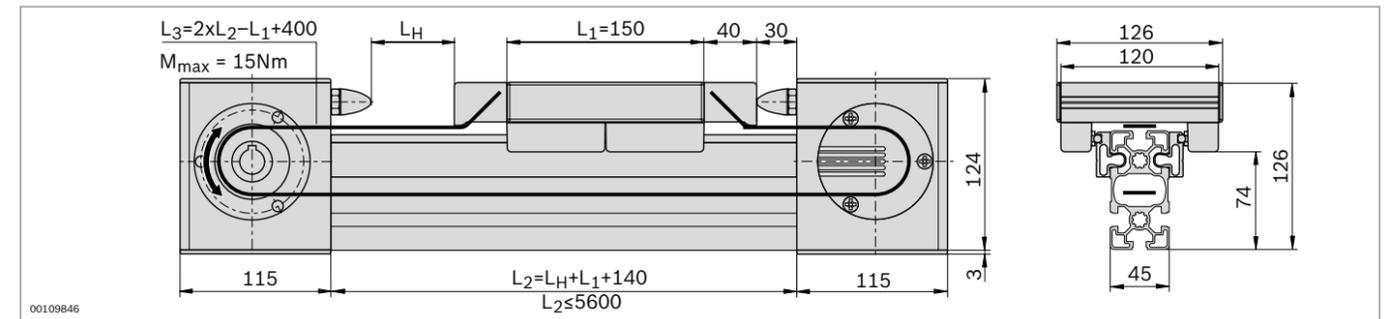


Cam roller guide LF6C - complete axis



- ▶ 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)

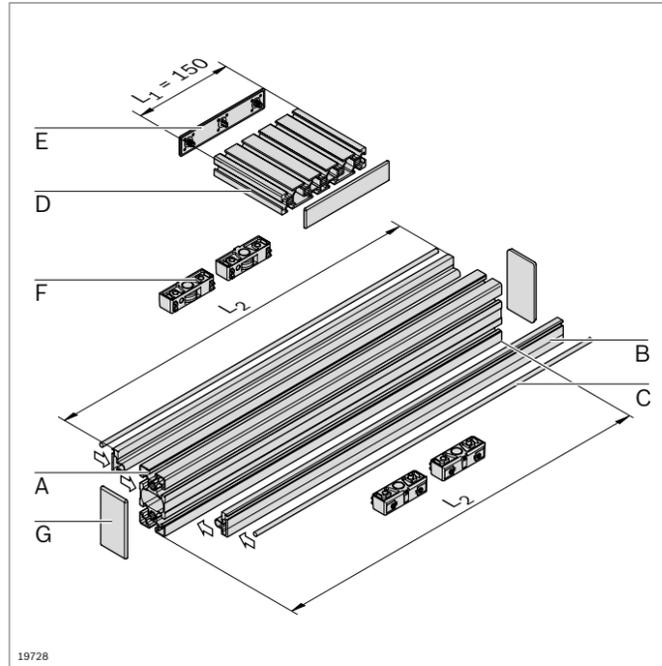
F_{y max} = 1400 N
F_{z max} = 850 N
M_{x max} = 0,4 x B Nm
M_{y max} = 0,4 x A Nm
M_{z max} = 0,7 x A Nm
v_{max} = 5 m/s
M_{max} = 15 Nm



Technical data

For notes on layout and drive, see page 13-50

Complete axis	L _H (mm)	No.
LF6C	50 ... 5310	3 842 998 496 / L _H

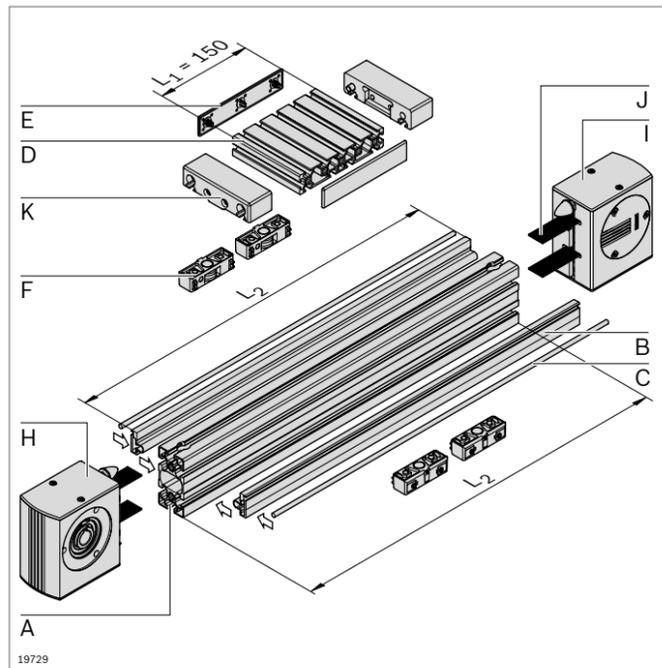


Cam roller guide LF6C – components

- Components for the individual assembly of cam roller guides, with or without drive

Parts list for cam roller guide LF6C without drive

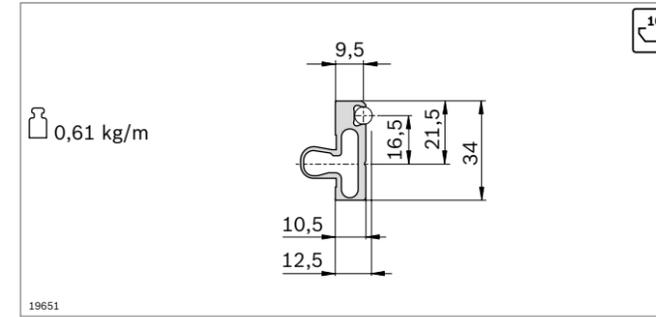
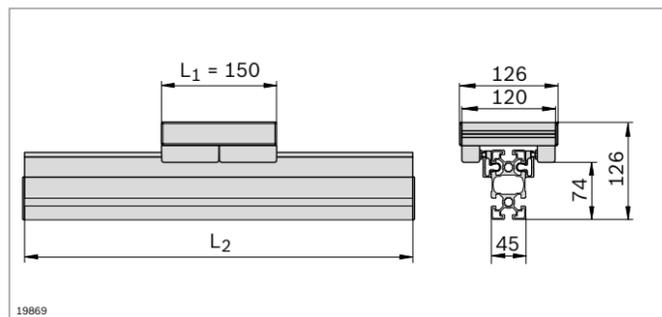
Component	No.	Pcs	Page
A Profile 45x90L	3 842 992 432 / L ₂	1	2-41
B Clamping profile LF6C	3 842 992 925 / L ₂	2	13-13
C Guide rod LF6	3 842 993 967 / L ₂	2	13-13
D Trolley profile LF6C	3 842 993 952 / 120 mm	1	13-13
E Cover cap LF6C	3 842 539 120	2	13-14
F Guide bearing LF6	3 842 535 662	4	13-13
G Cover cap 45x90	3 842 548 757	2	2-41



Parts list for cam roller guide LF6C with drive

Component	No.	Pcs	Page
A Profile 45x90L LF6C-LF	3 842 993 084 / L ₂	1	2-41
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

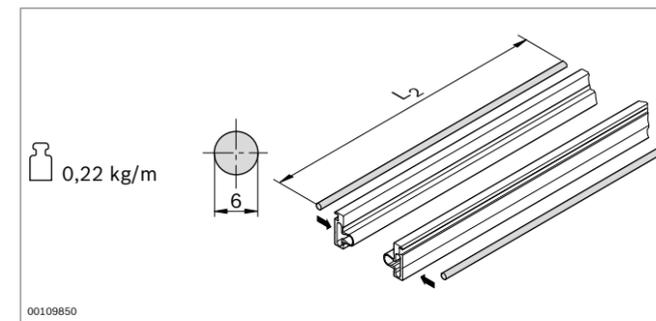
¹⁾ L₃ = 2xL₂ - L₁ + 400



- 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 / L ₂
	20 pcs 3000	3 842 518 896

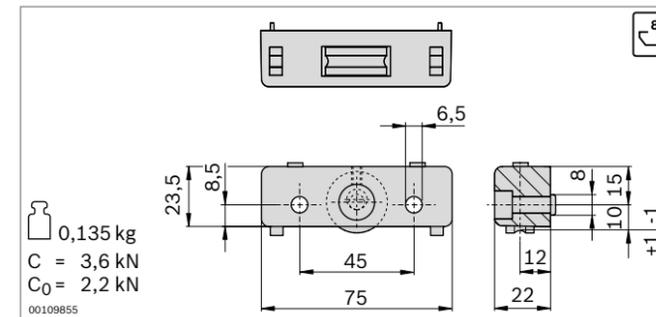
Material: Aluminum; anodized



- 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 / L ₂
	3000	20 3 842 539 414

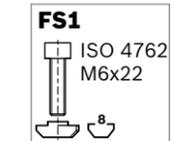
Material: Solid shaft VA, induction hardened, polished
Condition on delivery: Ungreased; greasing according to assembly instructions 3 842 527 226



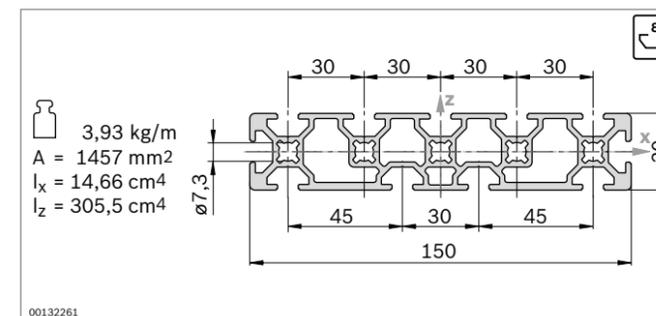
- Guide bearing for trolley construction
- Guiding via guide rod
- Cam rollers with ball bearings, permanently lubricated
- Lubricating felts with guide rod lubrication reservoir
- Play-free cam roller adjustment via eccentric bolts

Guide bearing	No.	FS
LF6	2 3 842 535 662	2xFS1

Material: Housing: Diecast aluminum
Cam 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

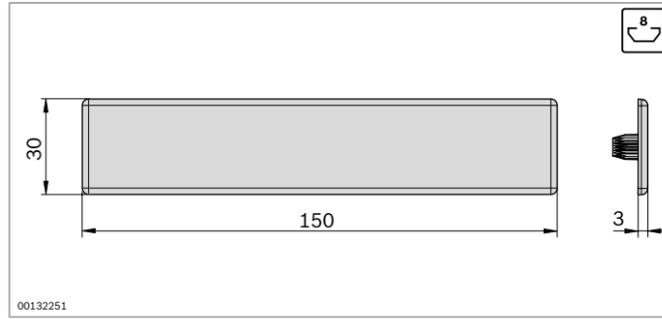


- Trolley profile for the construction of trolley LF6C



Trolley profile	L (mm)	No.
LF6C	150 ... 3000	3 842 993 952 / L

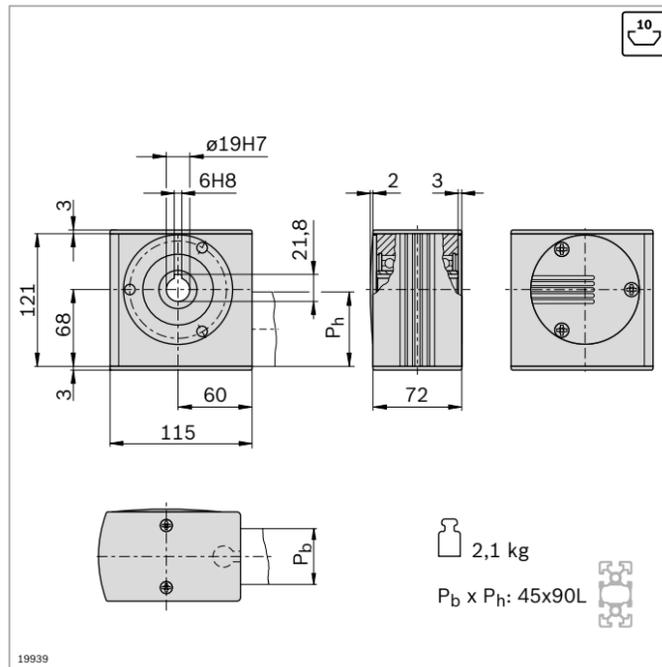
Material: Aluminum; anodized



- ▶ 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 plug-in shaft) for mounting a hollow shaft gear or a coupling (p. 13-46)
- ▶ Mounted directly on profile 45x90L using longitudinal end connector
- ▶ Profile finishing: 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

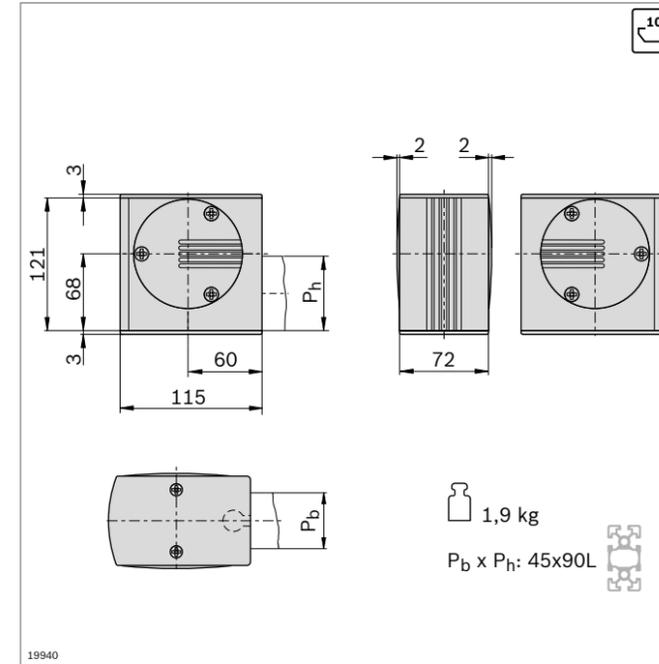
Scope of delivery: Incl. Fastening material (FS), cover caps

FS2

ISO 7380
M8x40

FS3

ISO 4035
M8-04



- ▶ Return head for tensioning the toothed belt and changing its direction
- ▶ Mounted directly on profile 45x90L using longitudinal end connector
- ▶ Profile finishing: 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

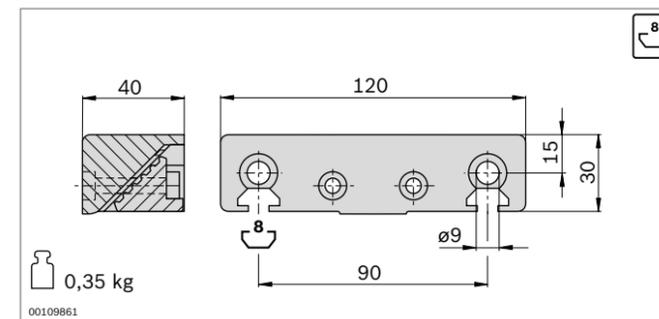
Scope of delivery: Incl. Fastening material (FS), cover caps

FS2

ISO 7380
M8x40

FS3

ISO 4035
M8-04



- ▶ 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)

FS4

DIN 7984
M6x35

FS5

DIN 7984
M8x50

FS6

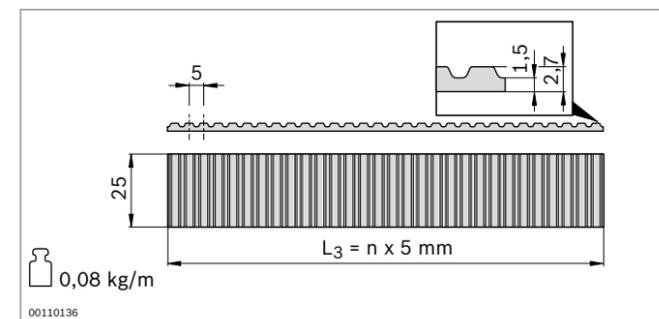
DIN 7984
M8x40

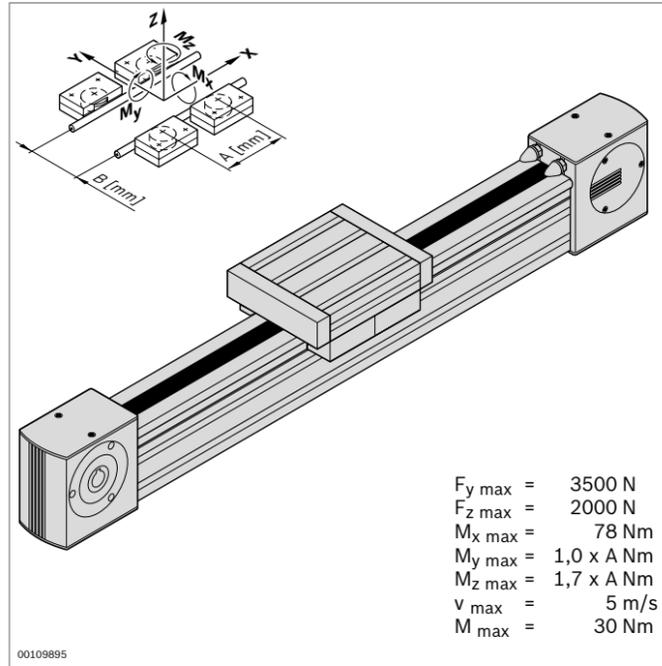
- ▶ Toothed belt as a trolley drive
- ▶ Pitch: AT5

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



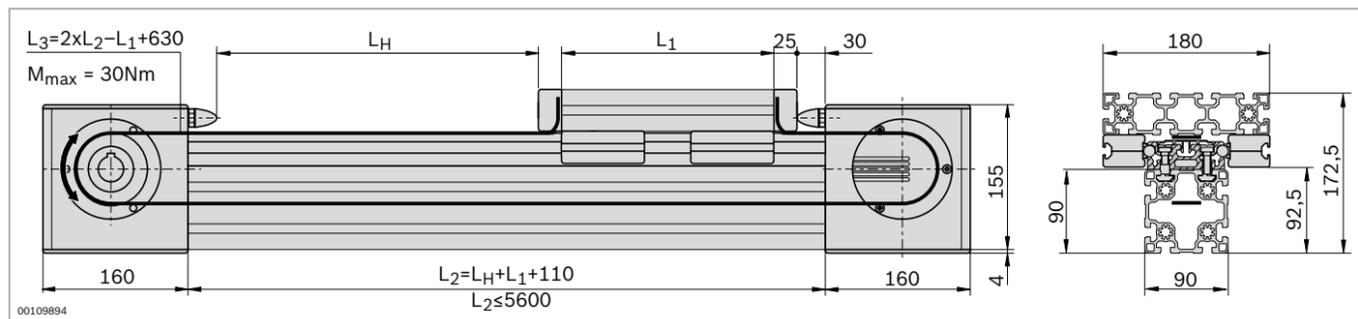


Cam roller guide LF12S – complete axis



- ▶ 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)

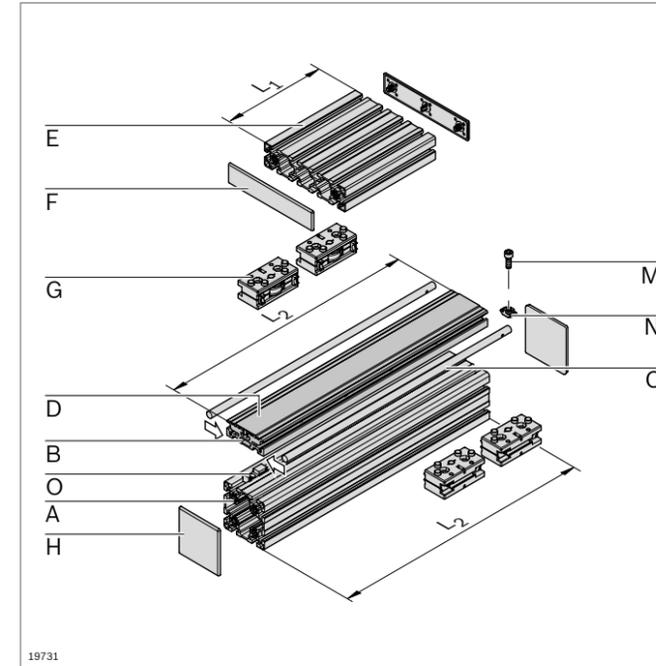
$F_{y \max} = 3500 \text{ N}$
 $F_{z \max} = 2000 \text{ N}$
 $M_{x \max} = 78 \text{ Nm}$
 $M_{y \max} = 1,0 \times A \text{ Nm}$
 $M_{z \max} = 1,7 \times A \text{ Nm}$
 $v_{\max} = 5 \text{ m/s}$
 $M_{\max} = 30 \text{ Nm}$



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.	Pcs	Page
A Profile 90x90L	3 842 992 415 / L_2	1	2-45
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	2-43
F Cover cap 45x180	3 842 548 795	2	2-43
G Guide bearing LF12	3 842 535 664	4	13-19
H Cover cap 90x90L	3 842 548 759	2	2-45
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

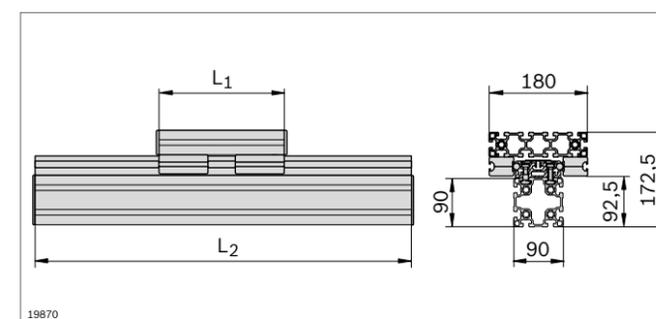
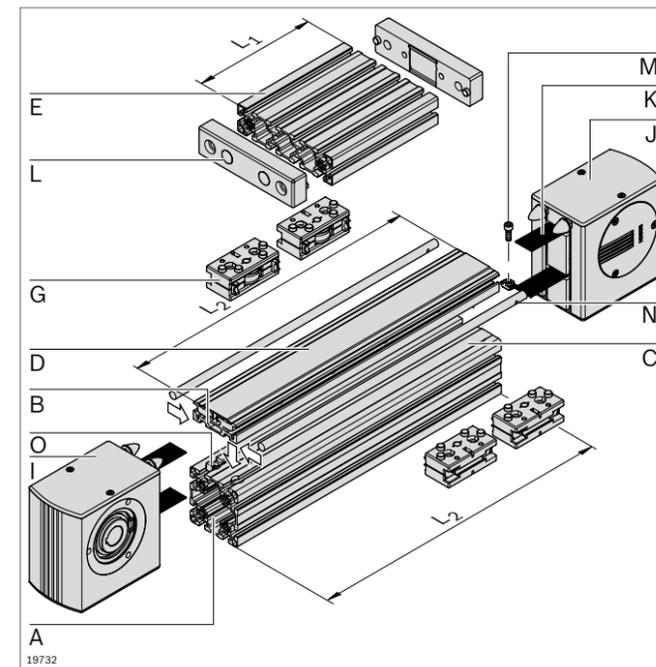
¹⁾ For identification see page 13-18

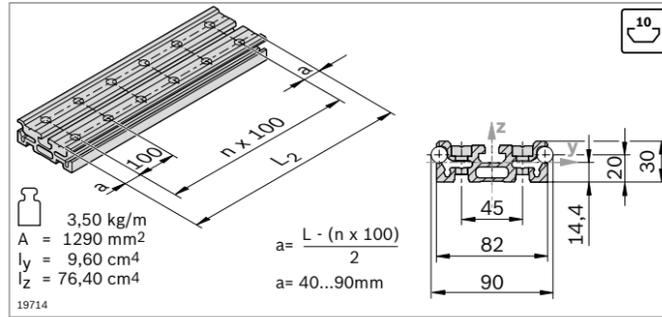
Parts list for cam roller guide LF12S with drive

Component	No.	Pcs	Page
A Profile 90x90L LF12S	3 842 992 418 / L_2	1	2-45
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	2-43
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⁾ $L_3 = 2 \times L_2 - L_1 + 630$

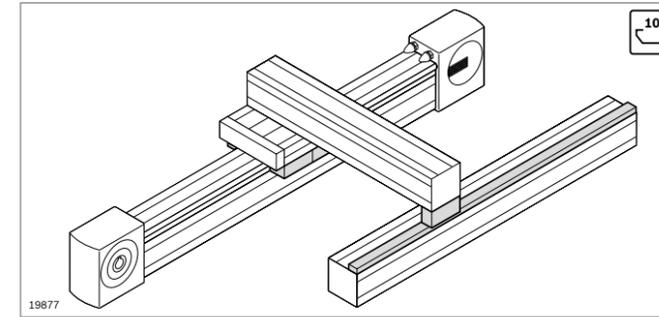
²⁾ For identification see page 13-18



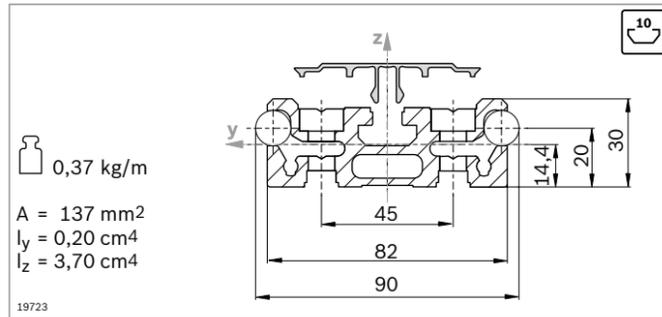


- ▶ Guide profile LF12S to hold the guide rods
- ▶ Installation on MGE strut profiles with 10 mm slot or directly on a flat surface

Guide profile	L ₂ (mm)	No.
LF12S	180 ... 6070	3 842 992 438 / L₂
	6 pcs	6070 3 842 557 945
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	

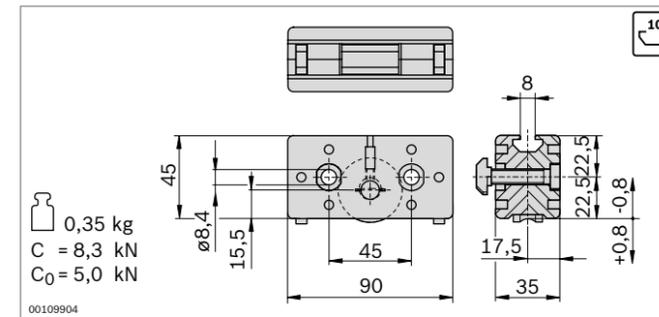


- ▶ Guide bearing for trolley construction
- ▶ Supporting bearing for brackets for bearing off-center forces
- ▶ Guide rail to hold supporting bearings (p. 13-20)



- ▶ Cover profile to prevent contamination on threaded connections

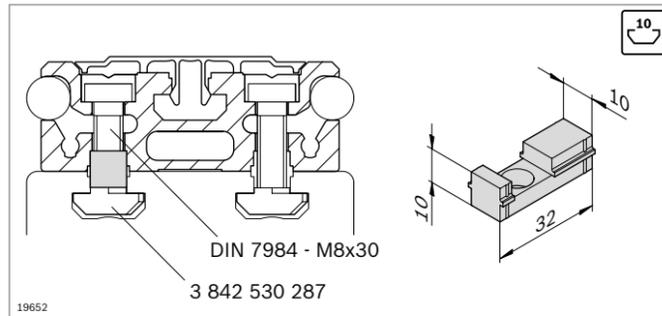
Cover profile	L ₂ (mm)	No.
LF12S	150 ... 5600	3 842 993 062 / L₂
Material:	Aluminum; anodized	



- ▶ Guide bearing for trolley construction
- ▶ Guiding via guide rod
- ▶ Cam rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free cam 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, 4xFS2

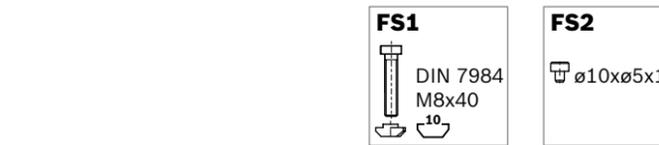
Material: Housing: Diecast aluminum
Cam roller: Steel, hardened, polished
Scope of delivery: Incl. fastening material (FS)
Condition on delivery: Lubricating felts ungreased; greasing according to assembly instructions
3 842 527 226



- ▶ Sliding block as a centering aid for mounting the guide profile in a 10 mm profile slot

Sliding block	No.
3 842 530 287	50 3 842 146 877

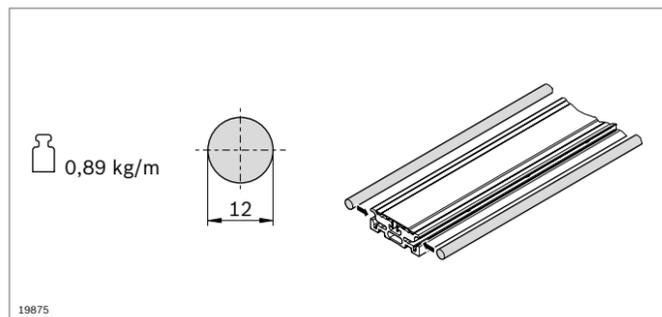
Material: PA; black



- ▶ Supporting bearing for brackets for bearing off-center forces
- ▶ For support on the guide rail
- ▶ Cam rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free cam 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	2xFS3 4xFS2

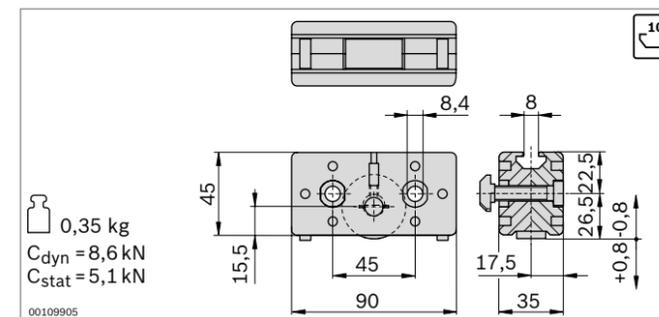
Material: Housing: Diecast aluminum
Cam roller: Steel, hardened, polished
Scope of delivery: Incl. fastening material (FS)
Condition on delivery: Lubricating felts ungreased; greasing according to assembly instructions
3 842 527 226



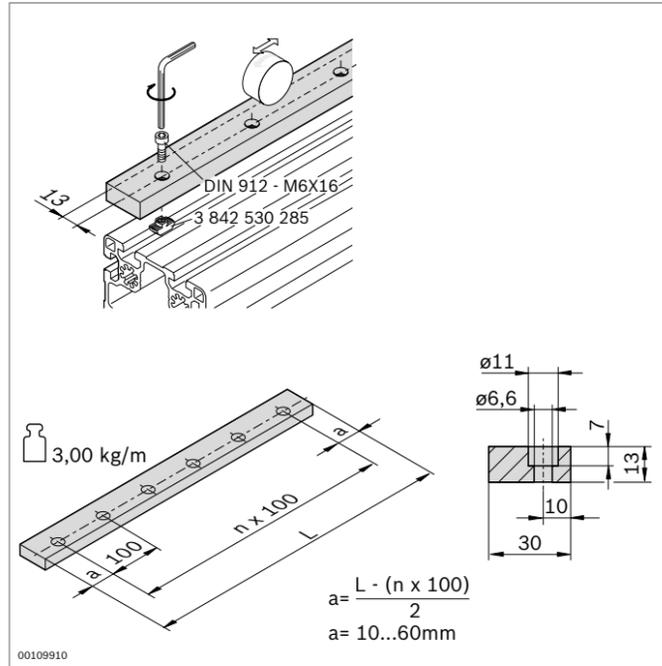
- ▶ The guide rod is pressed into the guide profile
- ▶ The guide rod guides the guide bearing

Guide rod	L ₂ (mm)	No.
LF12	150 ... 2900	1 3 842 993 968 / 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**

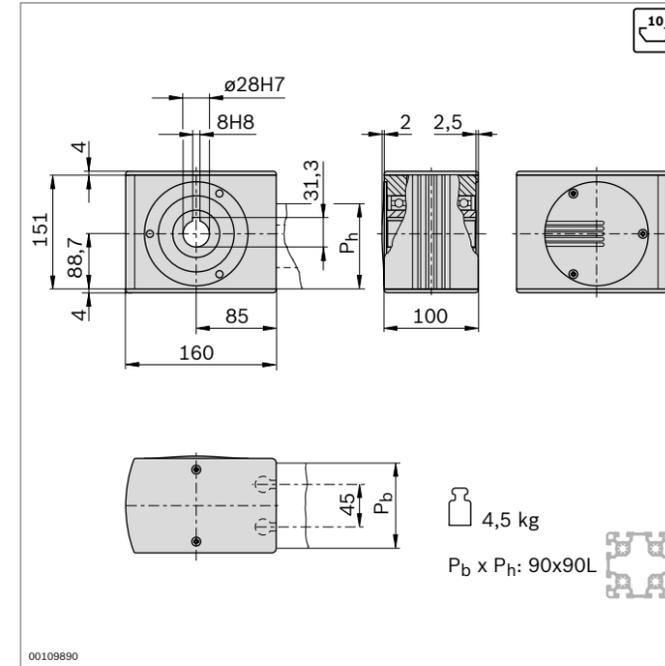


Material: Housing: Diecast aluminum
Cam roller: Steel, hardened, polished
Scope of delivery: Incl. fastening material (FS)
Condition on delivery: Lubricating felts ungreased; greasing according to assembly instructions
3 842 527 226



► 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)	

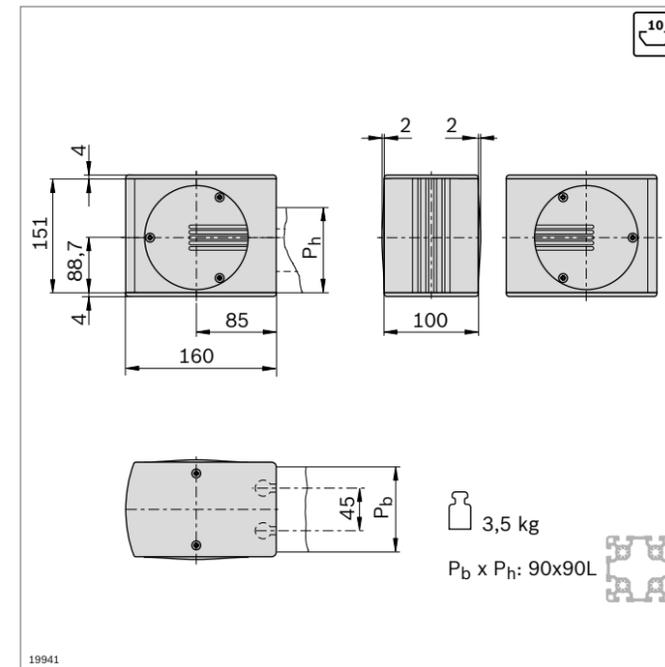
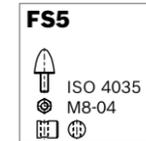
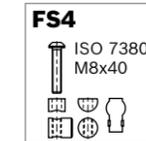


- Drive head for transferring drive torque to a toothed belt
- For direct mounting of a motor or (in conjunction with a plug-in shaft) for mounting a hollow shaft gear or a coupling (p. 13-46)
- Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- Profile finishing: LF blind hole drilling for longitudinal end connector

Drive head	No.	FS
LF12S	3 842 526 412	2xFS4, 2xFS5

Material: Drive head: Aluminum; anodized
Cover caps: PA; black
Hollow shaft: Steel; galvanized

Scope of delivery: Incl. Fastening material (FS), cover caps

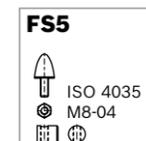


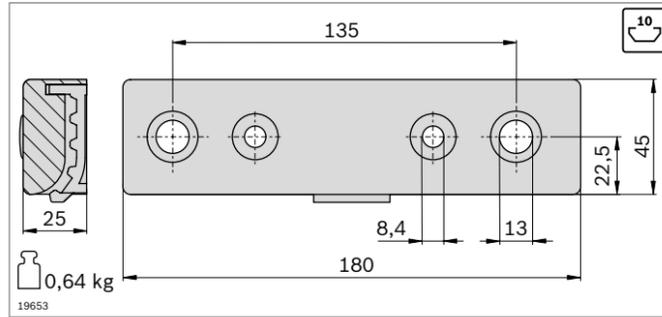
- Return head for tensioning the toothed belt and changing its direction
- Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- Profile finishing: LF blind hole drilling for longitudinal end connector

Return head	No.	FS
LF12S	3 842 526 413	2xFS4, 2xFS5

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	4xFS2, 2xFS6, 2xFS7, 2xFS8, 2xFS9

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

FS2 ø10xø5x11	FS6 DIN7984 M12x40	FS7 DIN 7984 M8x30 DIN 125 A8,4 10	FS8 DIN 7991 M8x30
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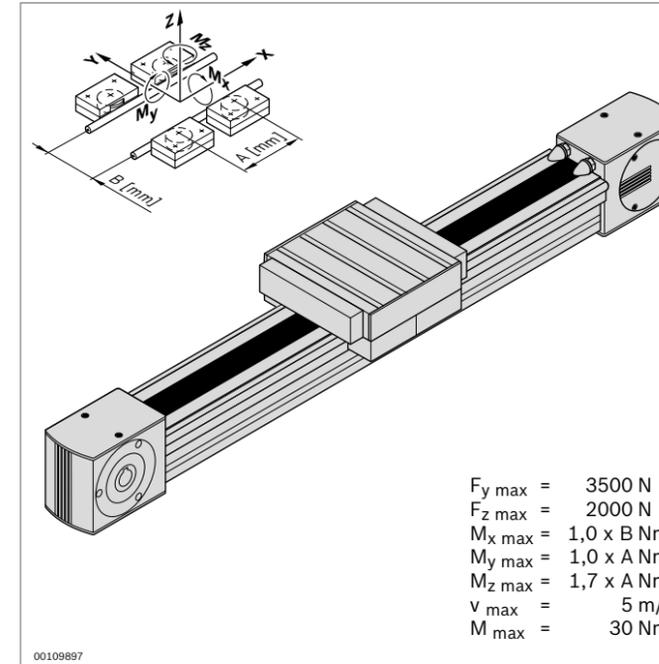
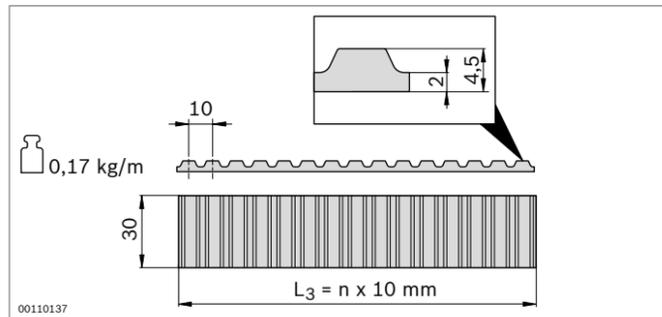
FS9

 ø18x7

- ▶ 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

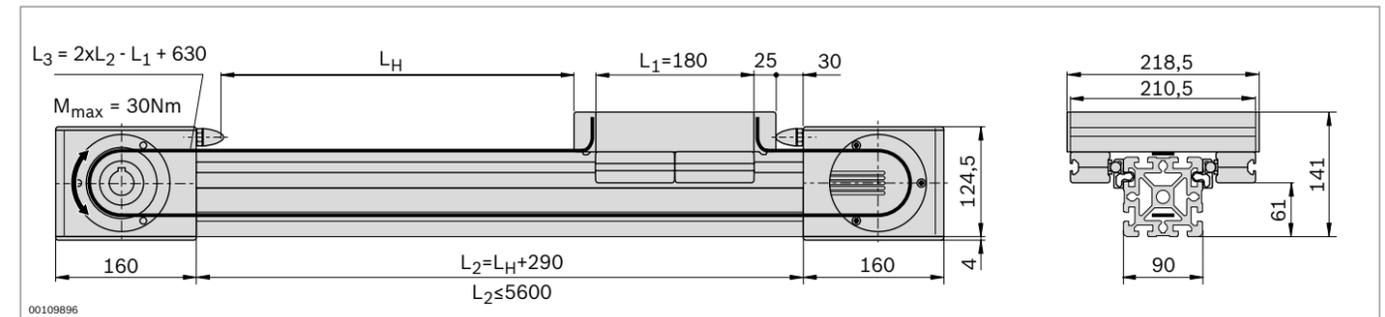
¹⁾ L₃ = 2xL₂ - L₁ + 630
 Material: PU with embedded steel wires



Cam roller guide LF12C – complete axis



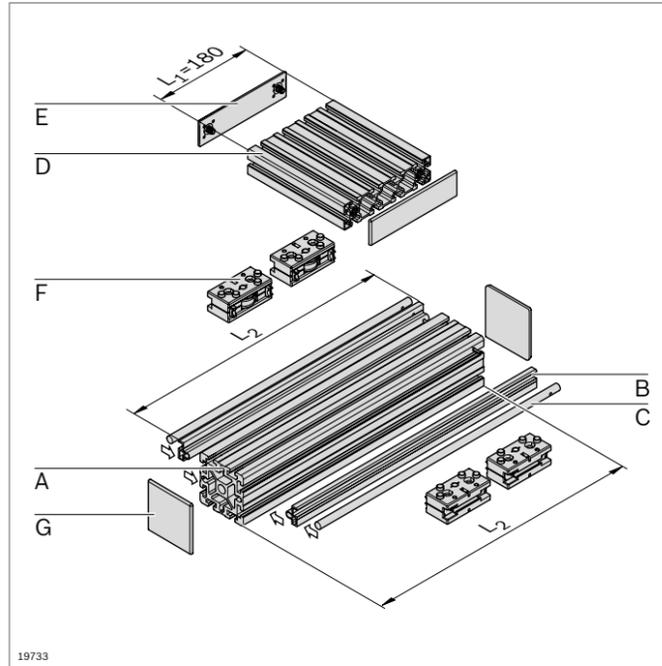
- ▶ Fully assembled cam roller guide
- ▶ Stroke can be individually selected
- ▶ Clamping profile clipped into strut profile 90x90
- ▶ Incl. toothed belt drive; additional notes on the drive concept (p. 13-44)



Technical data

For notes on layout and drive, see page 13-50

Complete axis	L _H (mm)	No.
LF12C	50 ... 5310	3 842 998 498 / L _H

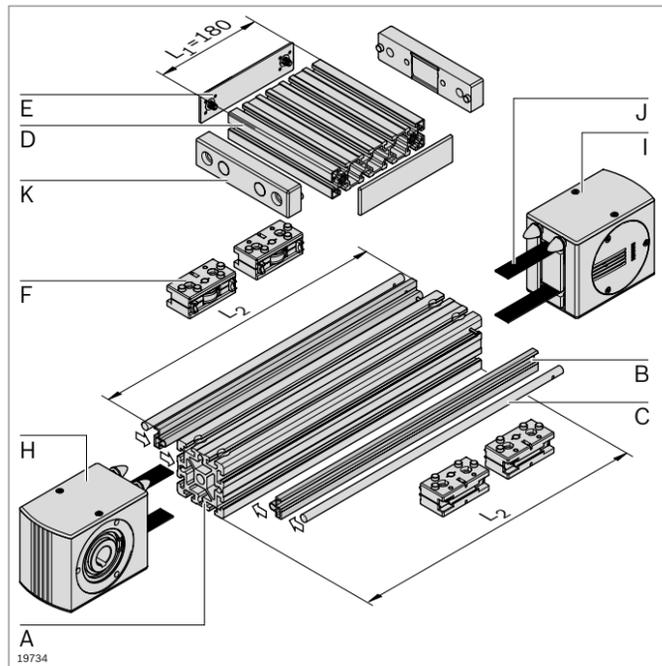


Cam roller guide LF12C – components

- Components for the individual assembly of cam roller guides, with or without drive

Parts list for cam roller guide LF12C without drive

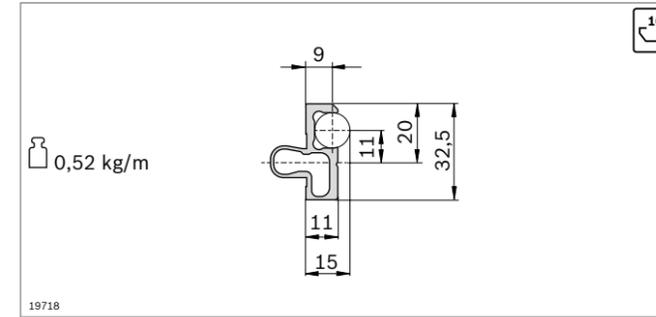
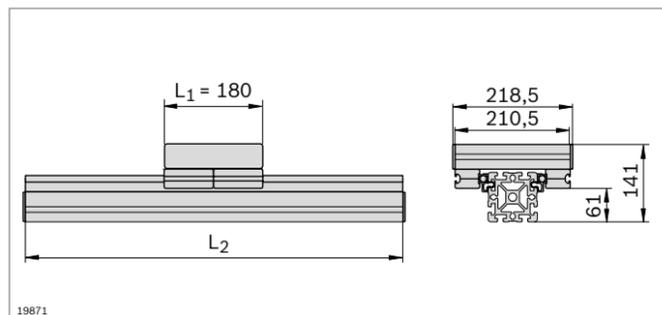
Component	No.	Pcs	Page
A Profile 90x90	3 842 990 500 / L ₂	1	2-46
B Clamping profile LF12C	3 842 992 440 / L ₂	2	13-25
C Guide rod LF12	3 842 993 968 / L ₂	2	13-25
D Profile 45x180	3 842 990 335 / 210.5 mm	1	2-43
E Cover cap 45x180	3 842 548 795	2	2-43
F Guide bearing LF12	3 842 535 664	4	13-26
G Cover cap 90x90	3 842 548 761	2	2-46



Parts list for cam roller guide LF12C with drive

Component	No.	Pcs	Page
A Profile 90x90 LF12C	3 842 993 082 / L ₂	1	2-46
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	2-43
E Cover cap 45x180	3 842 548 795	2	2-43
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

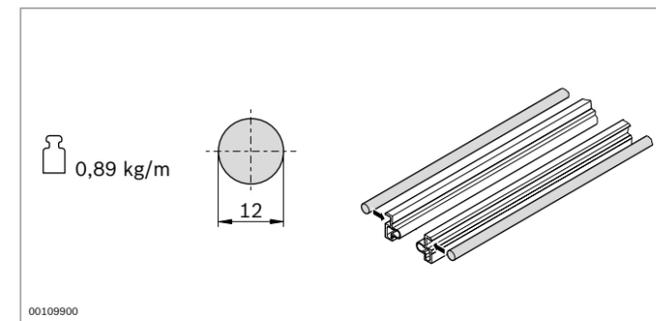
¹⁾ L₃ = 2xL₂ - L₁ + 630



- 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 / L ₂
	20 pcs 3000	3 842 518 897

Material: Aluminum; anodized

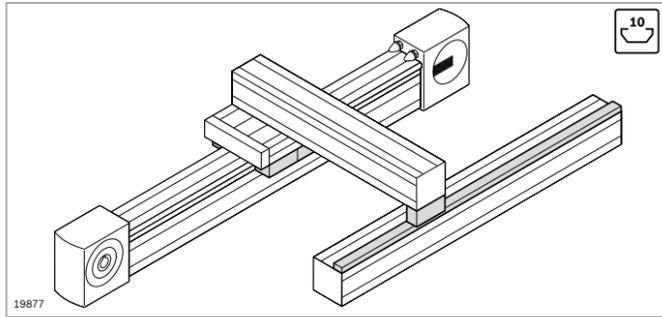


- The guide rod is pressed into the clamping profile
- The guide rod guides the guide bearing

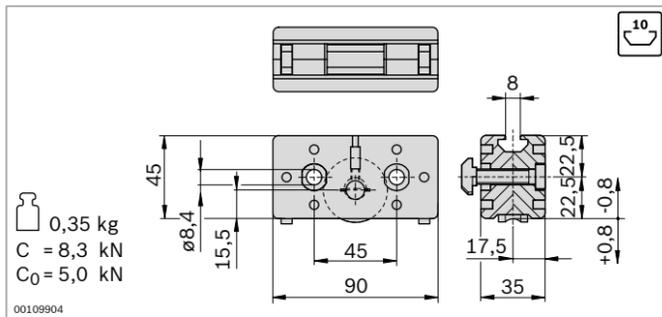
Guide rod	L ₂ (mm)	No.
LF12	150 ... 2900	1 3 842 993 968 / L ₂
	2900 20	3 842 539 415

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 for bearing off-center forces
- ▶ Guide rail to support supporting bearings (p. 13-27)



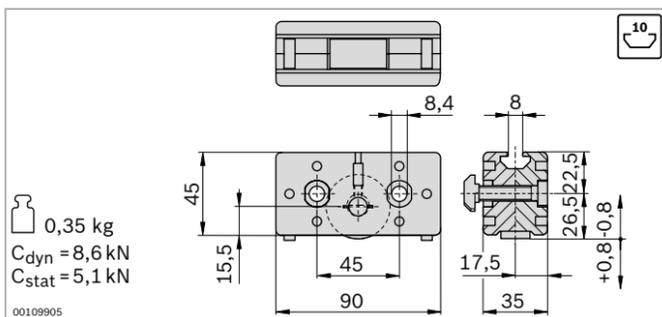
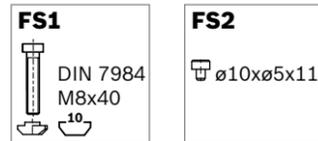
- ▶ Guide bearing for trolley construction
- ▶ Guiding via guide rod
- ▶ Cam rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free cam roller adjustment via eccentric bolts
- ▶ Replacement of the lubricating felts possible from rear in installed state

Guide bearing	No.	FS
LF12	2 3 842 535 664	2xFS1 4xFS2

Material: Guide bearing: Diecast aluminum
Cam 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



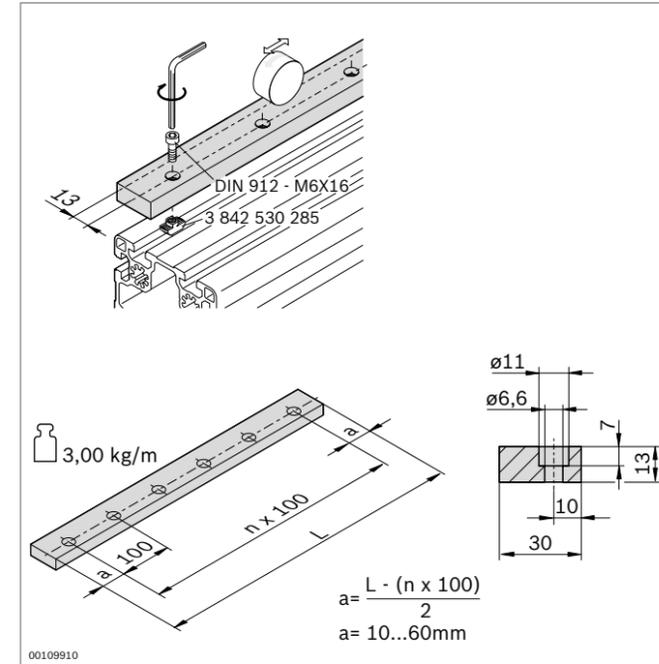
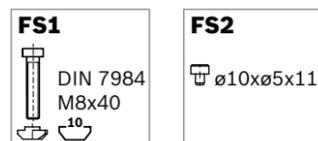
- ▶ Supporting bearing for brackets for bearing off-center forces
- ▶ For support on the guide rail
- ▶ Cam rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free cam roller adjustment via eccentric bolts
- ▶ Replacement of the lubricating felts possible from rear in installed state

Supporting bearing	No.	FS
LF12	2 3 842 535 666	2xFS1 4xFS2

Material: Guide bearing: Diecast aluminum
Cam 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



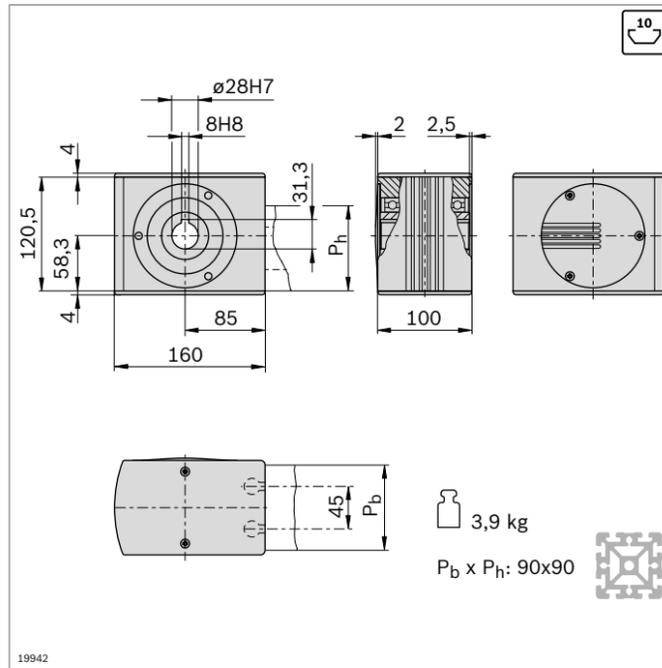
- ▶ Guide rail to hold supporting bearings

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**)

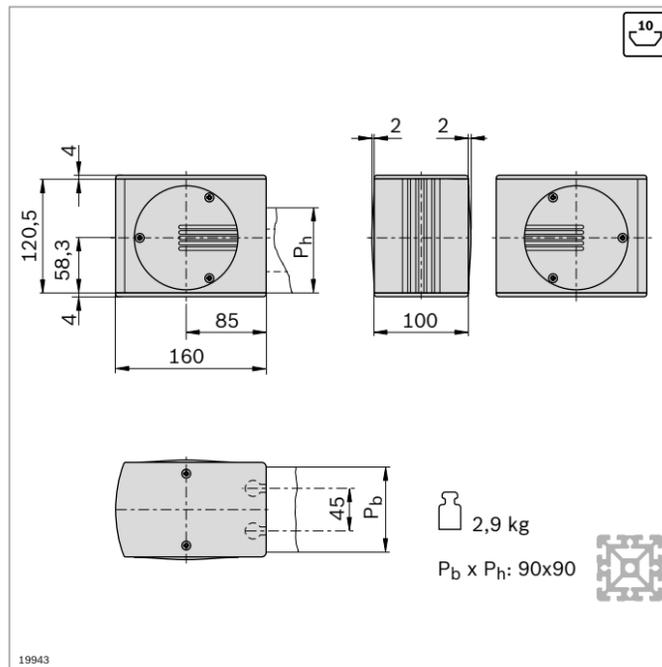
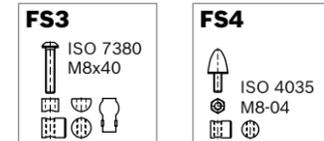


- ▶ Drive head for transferring drive torque to a toothed belt
- ▶ For direct mounting of a motor or (in conjunction with a plug-in shaft) for mounting a hollow shaft gear or a coupling (p. 13-46)
- ▶ Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- ▶ Profile finishing: LF blind hole drilling for longitudinal end connector

Drive head	No.	FS
LF12C	3 842 526 863	4xFS3, 2xFS4

Material: Drive head: Aluminum; anodized
Hollow shaft: Steel; galvanized
Cover caps: PA; black

Scope of delivery: Incl. Fastening material (FS), cover caps

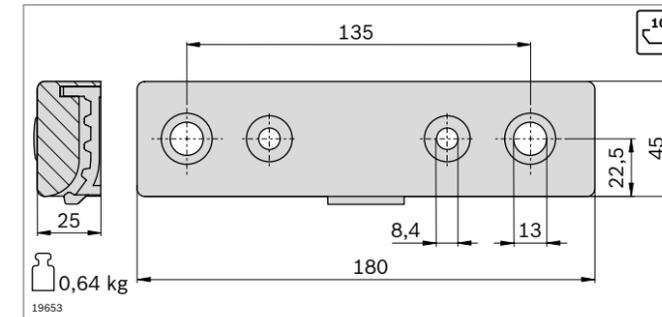
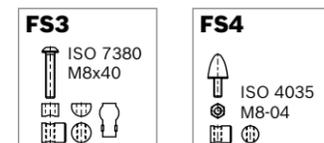


- ▶ Return head for tensioning the toothed belt and changing its direction
- ▶ Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- ▶ Profile finishing: LF blind hole drilling for longitudinal end connector

Return head	No.	FS
LF12C	3 842 526 865	4xFS3, 2xFS4

Material: Return head: Aluminum; anodized
Hollow shaft: Steel; galvanized
Cover caps: PA; black

Scope of delivery: Incl. Fastening material (FS), cover caps

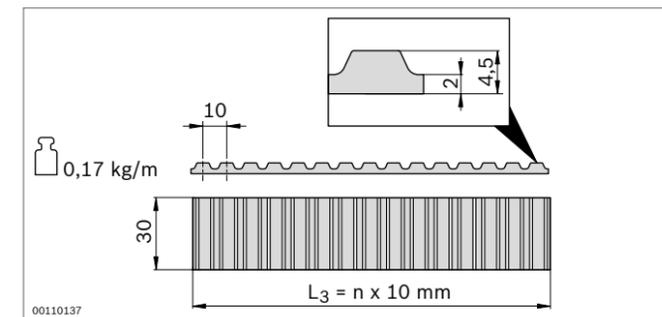
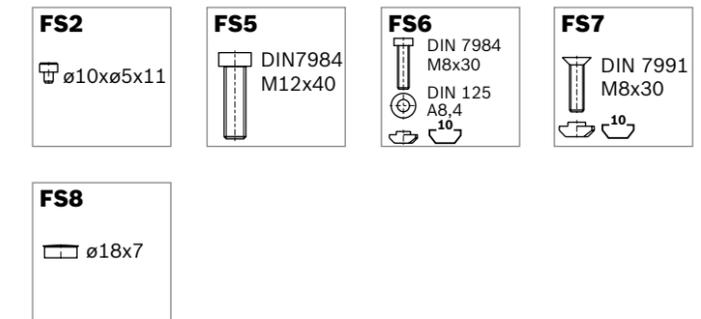


- ▶ Belt connector suitable for trolley built out of strut profiles 45x180
- ▶ All connecting parts included for mounting at the profile end (LF12S) or the slot (LF12C)
- ▶ Profile finishing for strut profile 45x180 for trolley LF12S: M12

Belt connector	No.	FS
LF12	2 3 842 535 680	4xFS2, 2xFS5, 2xFS6, 2xFS7, 2xFS8

Material: Aluminum, painted black

Scope of delivery: Incl. fastening material (FS)

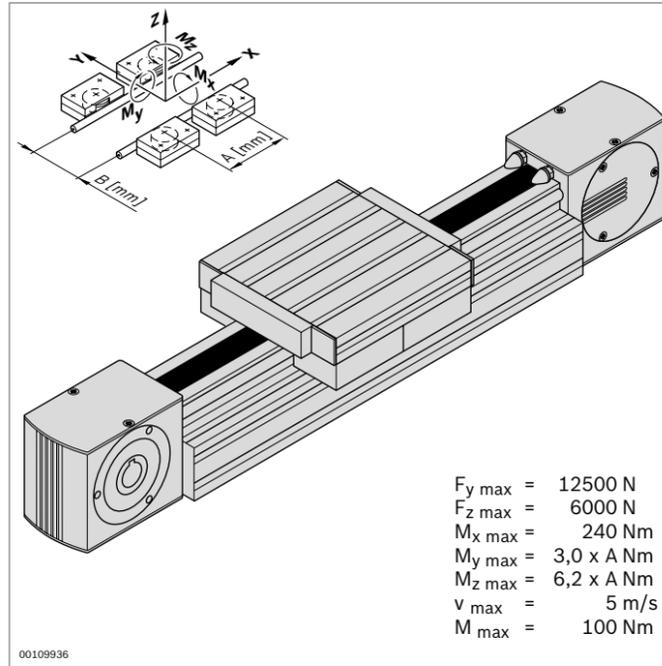


- ▶ Toothed belt as a trolley drive
- ▶ Pitch: AT10

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

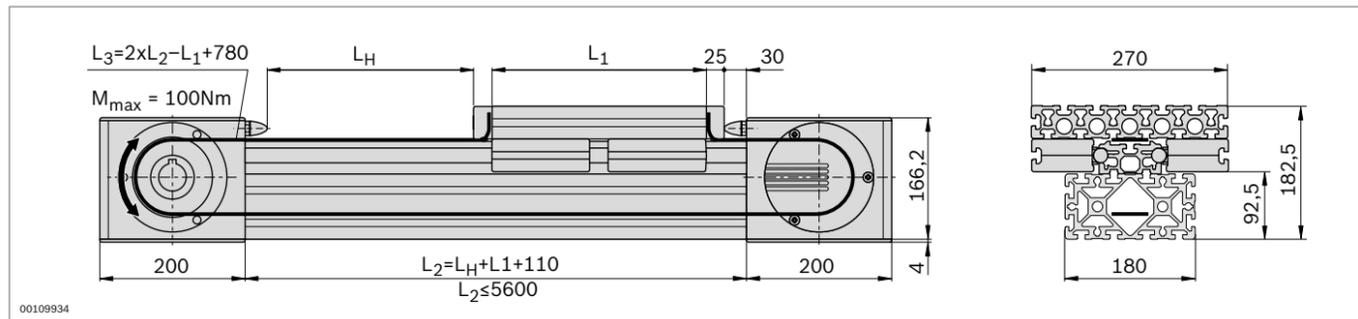


Cam roller guide LF20S – complete axis



- ▶ 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)

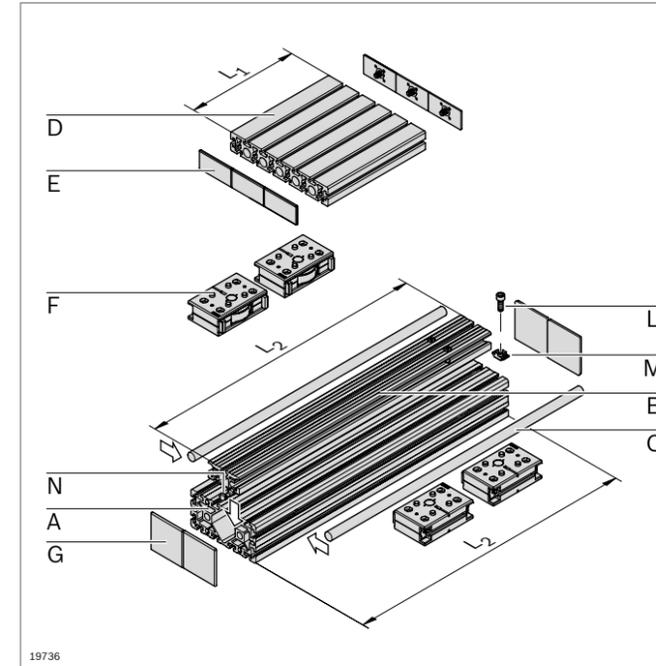
$F_{y \max} = 12500 \text{ N}$
 $F_{z \max} = 6000 \text{ N}$
 $M_{x \max} = 240 \text{ Nm}$
 $M_{y \max} = 3,0 \times A \text{ Nm}$
 $M_{z \max} = 6,2 \times A \text{ Nm}$
 $v_{\max} = 5 \text{ m/s}$
 $M_{\max} = 100 \text{ Nm}$



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



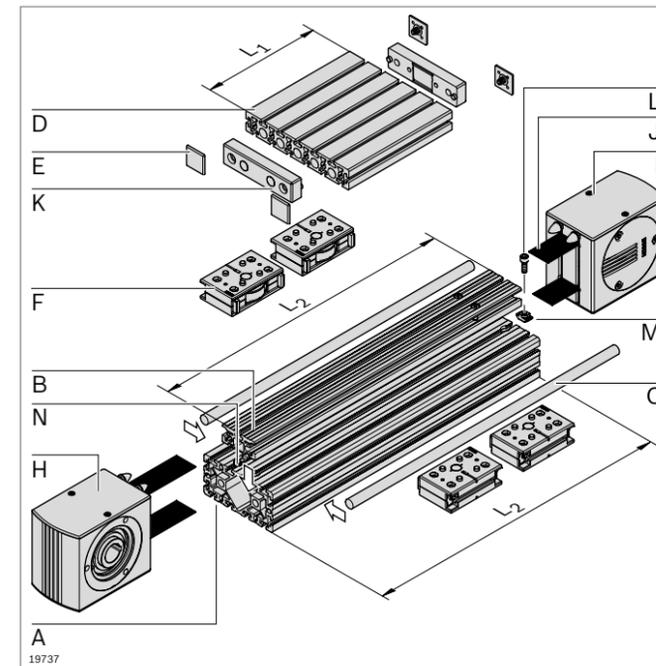
Cam roller guide LF20S – components

- ▶ Components for the individual assembly of cam roller guides, with or without drive

Parts list for cam roller guide LF20S without drive

Component	No.	Pcs	Page
A Profile 90x180	3 842 990 416 / L_2	1	2-47
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	2-44
E Cover cap 45x90	3 842 548 757	6	2-44
F Guide bearing LF20	3 842 535 663	4	13-33
G Cover cap 90x90	3 842 548 761	4	2-46
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

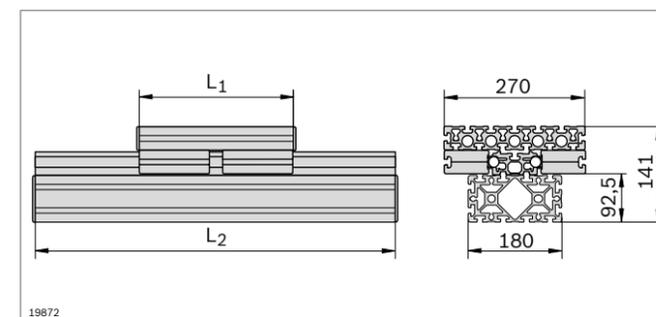


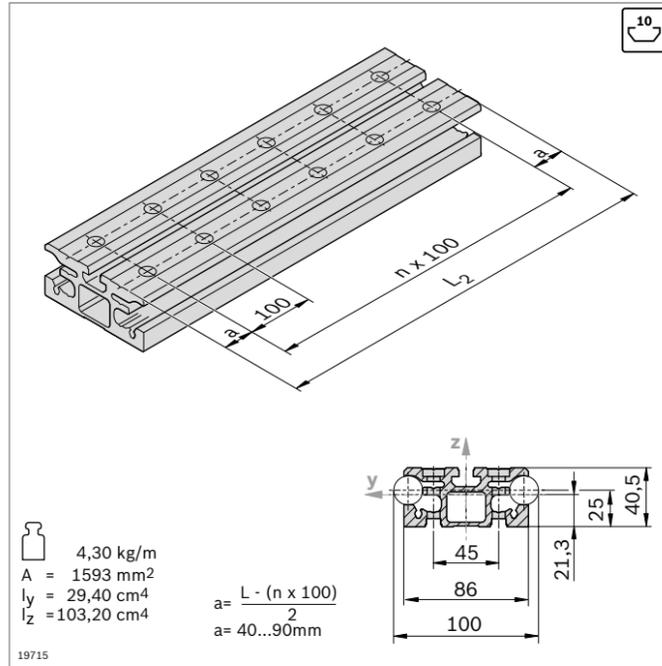
Parts list for cam roller guide LF20S with drive

Component	No.	Pcs	Page
A Profile 90x180 LF-S	3 842 993 081 / L_2	1	2-47
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	2-44
E Cover cap 45x45	3 842 548 753	4	2-39
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⁾ $L_3 = 2xL_2 - L_1 + 780$

²⁾ For identification see page 13-32

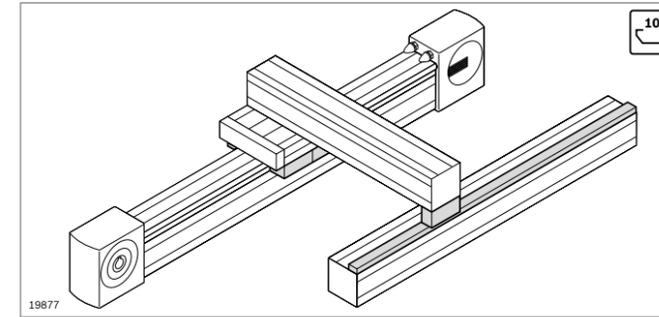




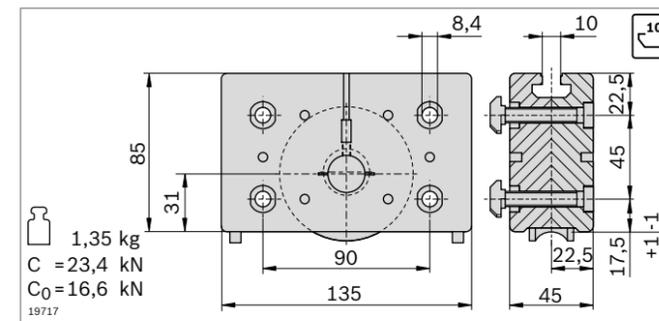
- ▶ Guide profile LF20S to hold the guide rods
- ▶ Installation on MGE strut profiles with 10 mm slot or directly on a flat surface

Guide profile	L_2 (mm)	No.
LF20S	1 pc 180 ... 6070	3 842 993 080 / L_2
	6 pcs	6070 3 842 557 958

Accessories: Cylinder screw DIN 7984 M8x45
 T-nut M8, 10 mm slot (p. 3-4)
 Sliding block



- ▶ Guide bearing for trolley construction
- ▶ Supporting bearing for brackets for bearing off-center forces
- ▶ Guide rail to support supporting bearings (p. 13-34)



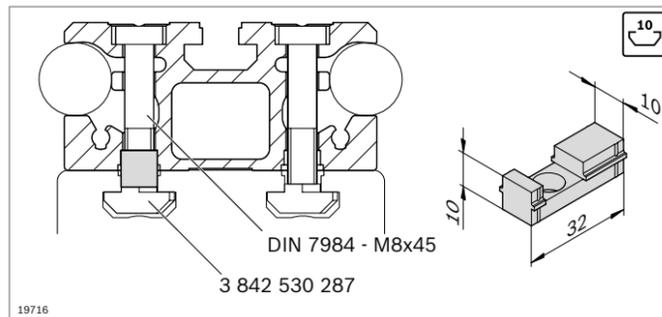
- ▶ Guide bearing for trolley construction
- ▶ Guiding via guide rod
- ▶ Cam rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free cam roller adjustment via eccentric bolts
- ▶ Replacement of the lubricating felts possible from rear in installed state

Guide bearing	No.	FS
LF20	2 3 842 535 663	4xFS1 4xFS2

Material: Housing: Diecast aluminum
 Cam roller: Steel, hardened, polished

Scope of delivery: Incl. fastening material (FS)

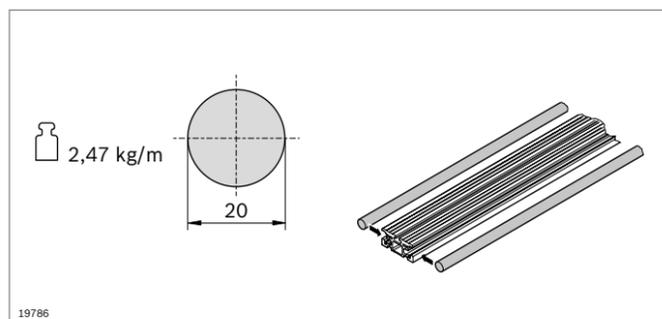
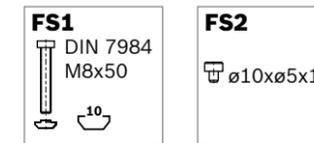
Condition on delivery: Lubricating felts ungreased; greasing according to assembly instructions
3 842 527 226



- ▶ 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

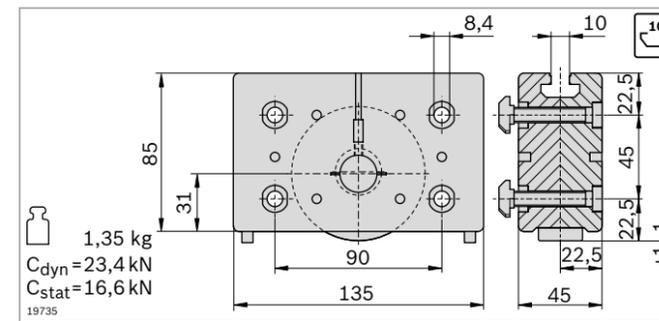


- ▶ The guide rod is pressed into the guide profile
- ▶ The guide rod guides the guide bearing

Guide rod	L_2 (mm)	No.
LF20	150 ... 2900	1 3 842 993 969 / L_2
	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



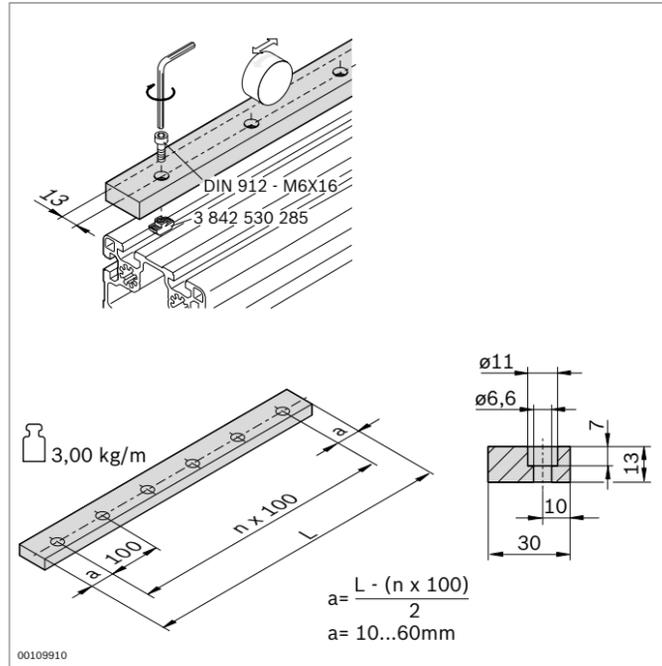
- ▶ Supporting bearing for brackets for bearing off-center forces
- ▶ For support on the guide rail
- ▶ Cam rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free cam roller adjustment via eccentric bolts
- ▶ Replacement of the lubricating felts possible from rear in installed state

Supporting bearing	No.	FS
LF20	2 3 842 535 665	4xFS1 4xFS2

Material: Housing: Diecast aluminum
 Cam roller: Steel, hardened, polished

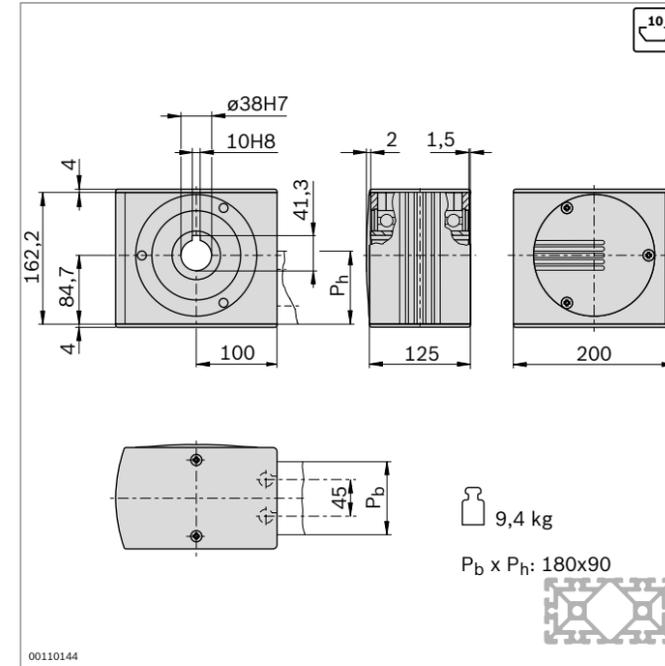
Scope of delivery: Incl. fastening material (FS)

Condition on delivery: Lubricating felts ungreased; greasing according to assembly instructions
3 842 527 226



► Guide rail to hold supporting bearings

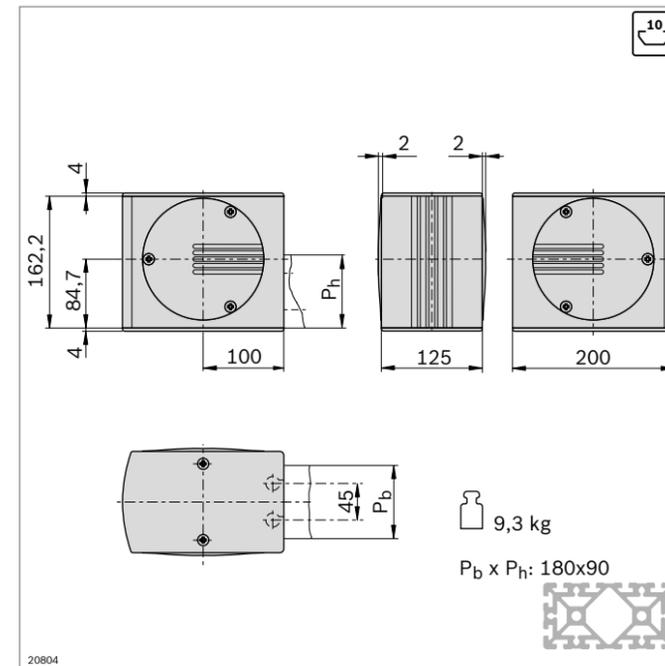
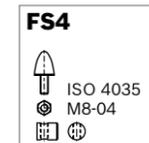
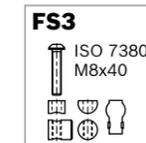
Guide rail	L (mm)	No.
LF20	120 ... 2000	3 842 994 702 / L
Material:	Steel, hardened, polished	
Condition on delivery:	Ungreased; greasing according to assembly instructions 3 842 527 226	
Accessories:	Cylinder bolt DIN 912 – M6x16 T-nut M6, 10 mm slot (3 842 530 285)	



- Drive head for transferring drive torque to a toothed belt
- For direct mounting of a motor or (in conjunction with a plug-in 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 finishing: LF-S blind hole drilling for longitudinal end connector

Drive head	No.	FS
LF20S	3 842 526 414	4xFS3, 2xFS4

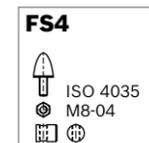
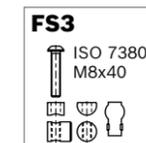
Material: Drive head: Aluminum; anodized
Hollow shaft: Steel; galvanized
Scope of delivery: Incl. Fastening material (FS), cover caps

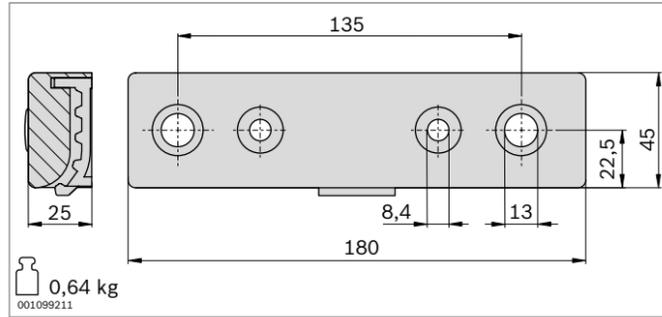


- Return head for tensioning the toothed belt and changing its direction
- Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- Profile finishing: LF-S blind hole drilling for longitudinal end connector

Return head	No.	FS
LF20S	3 842 526 415	4xFS3, 2xFS4

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 finishing 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	4xFS2, 2xFS5, 2xFS6, 2xFS7, 2xFS8

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

FS2 ø10xø5x11	FS5 DIN7984 M12x40	FS6 DIN 7984 M8x30 DIN 125 A8,4 10	FS7 DIN 7991 M8x30 10
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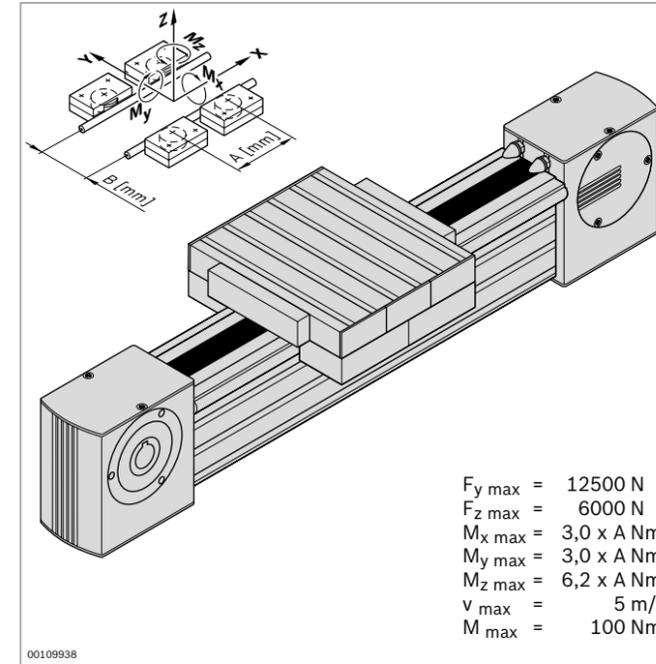
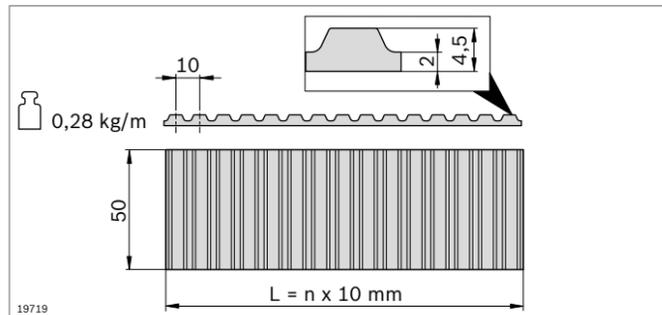
FS8

 ø18x7

- ▶ 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

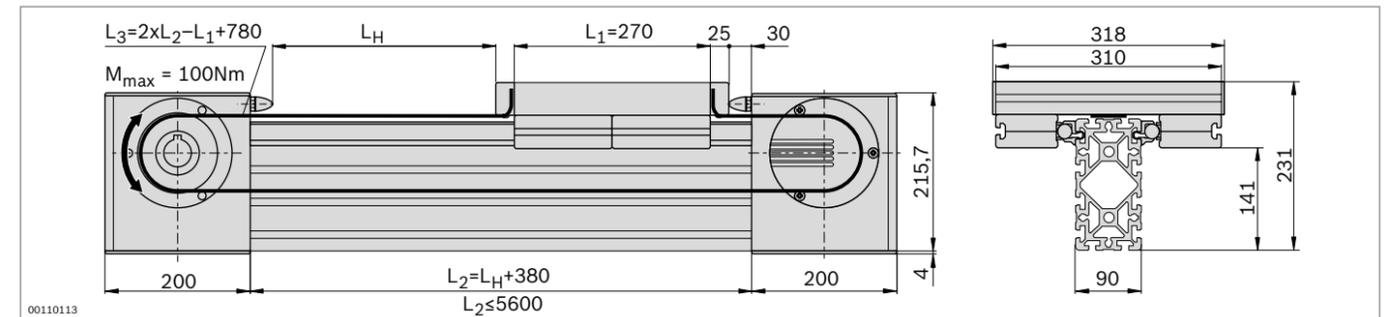


F_y max = 12500 N
 F_z max = 6000 N
 M_x max = 3,0 x A Nm
 M_y max = 3,0 x A Nm
 M_z max = 6,2 x A Nm
 v max = 5 m/s
 M max = 100 Nm

Cam roller guide LF20C – complete axis



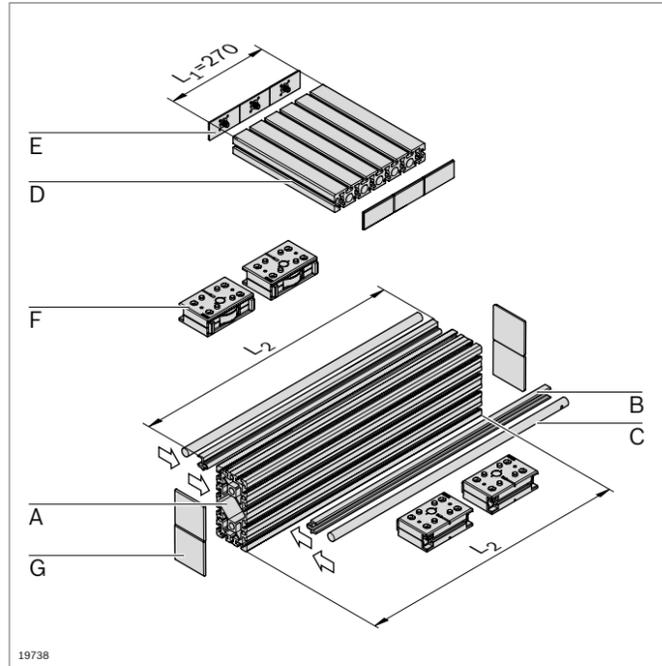
- ▶ Fully assembled cam roller guide
- ▶ Stroke can be individually selected
- ▶ Clamping profile clipped into strut profile 90x180
- ▶ Incl. toothed belt drive; additional notes on the drive concept (p. 13-44)



Technical data

For notes on layout and drive, see page 13-50

Complete axis	L _H (mm)	No.
LF20C	50 ... 5220	3 842 998 500 / L _H

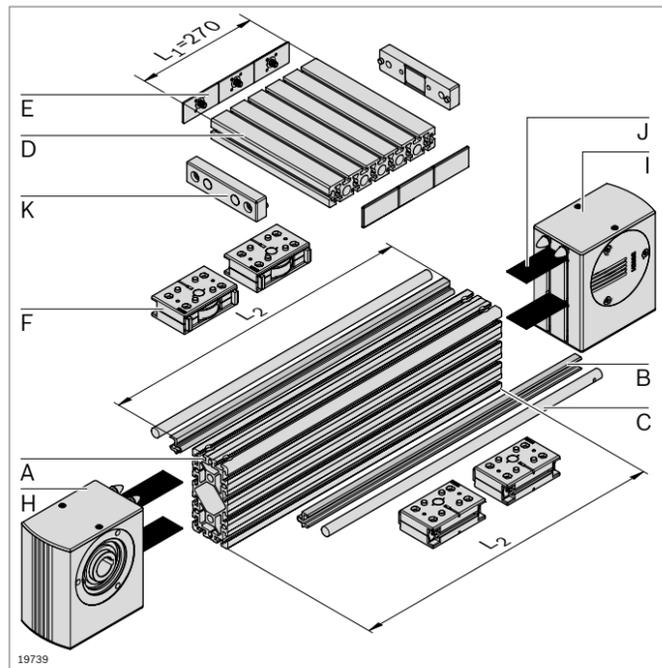


Cam roller guide LF20C – components

- Components for the individual assembly of cam roller guides, with or without drive

Parts list for cam roller guide LF20C without drive

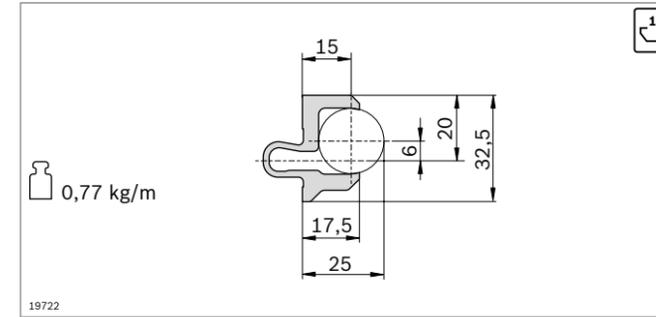
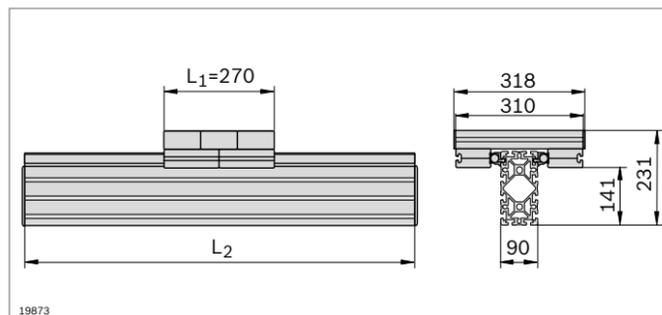
Component	No.	Pcs	Page
A Profile 90x180	3 842 990 416 / L ₂	1	2-47
B Clamping profile LF20C	3 842 992 441 / L ₂	2	13-39
C Guide rod LF20	3 842 993 969 / L ₂	2	13-39
D Profile 45x270	3 842 992 927 / 310 mm	1	2-44
E Cover cap 45x90	3 842 548 757	6	2-44
F Guide bearing LF20	3 842 535 663	4	13-40
G Cover cap 90x90	3 842 548 761	4	2-47



Parts list for cam roller guide LF20C with drive

Component	No.	Pcs	Page
A Profile 90x180 LF LF	3 842 992 898 / L ₂	1	2-47
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	2-44
E Cover cap 45x90	3 842 548 757	6	2-44
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

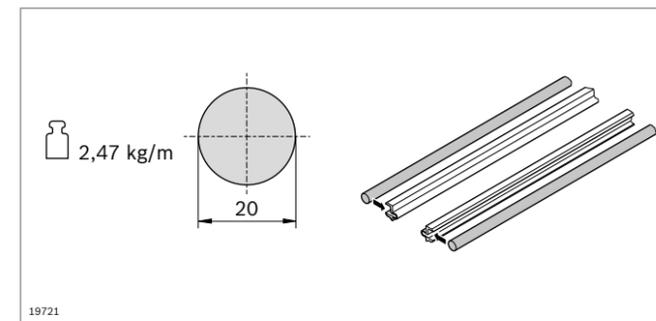
¹⁾ L₃ = 2xL₂ - L₁ + 780



- 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

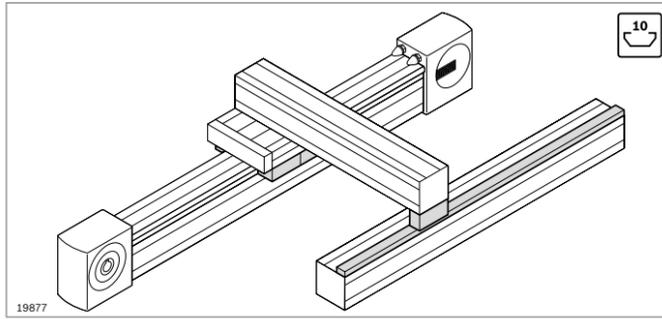
Material: Aluminum; anodized



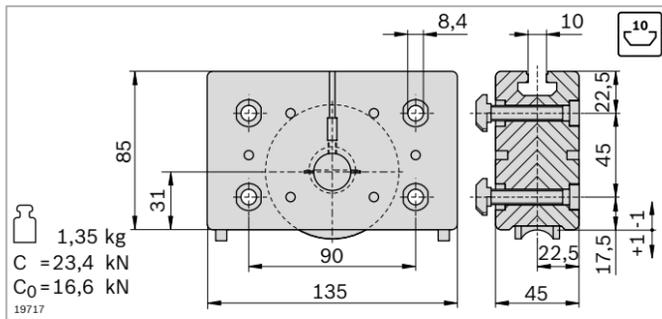
- The guide rod is pressed into the clamping profile
- The guide rod guides the guide bearing

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. 13-41)



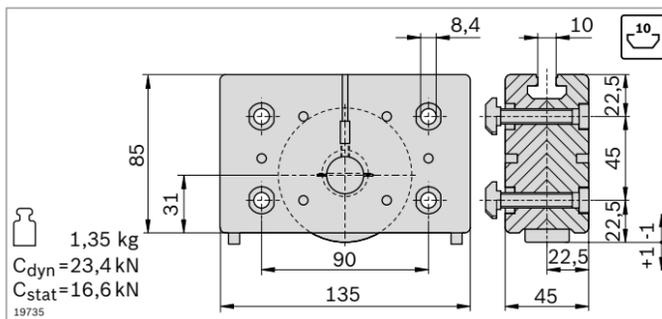
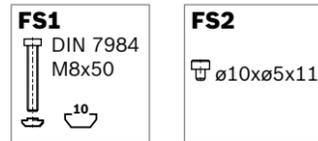
- ▶ Guide bearing for trolley construction
- ▶ Guiding via guide rod
- ▶ Cam rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free cam roller adjustment via eccentric bolts
- ▶ Replacement of the lubricating felts possible from rear in installed state

Guide bearing	No.	FS
LF20	2 3 842 535 663	4xFS1 4xFS2

Material: Housing: Diecast aluminum
Cam 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



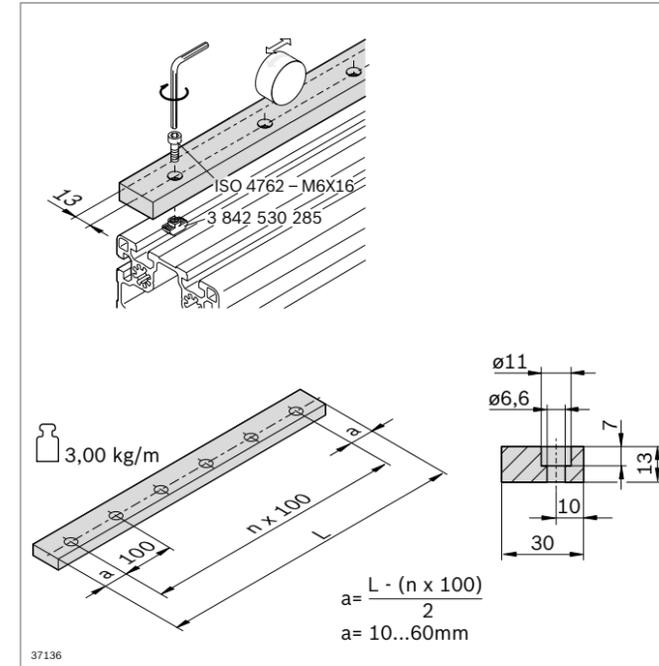
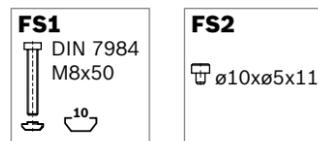
- ▶ Supporting bearing for brackets for bearing off-center forces
- ▶ For support on the guide rail
- ▶ Cam rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free cam roller adjustment via eccentric bolts
- ▶ Replacement of the lubricating felts possible from rear in installed state

Supporting bearing	No.	FS
LF20	2 3 842 535 665	4xFS1 4xFS2

Material: Housing: Diecast aluminum
Cam 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



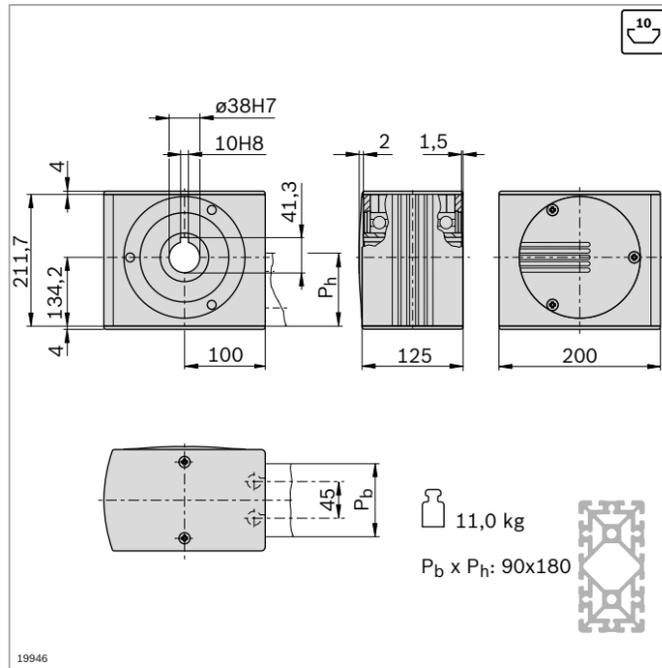
- ▶ Guide rail to hold supporting bearings

Guide rail	L (mm)	No.
LF20	120 ... 2000	3 842 994 702 / L

Material: Steel, hardened, polished

Accessories: Cap screw ISO 4762 – M6x16
T-nut M6, 10 mm slot (**3 842 530 285**)

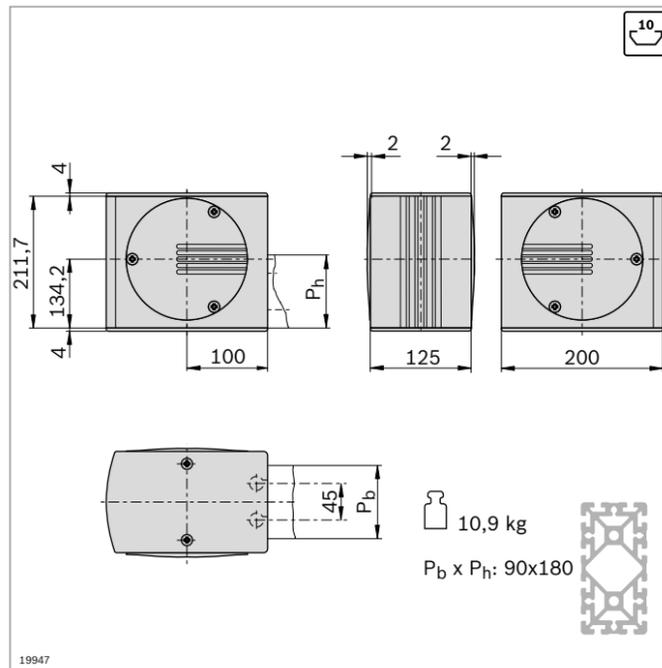
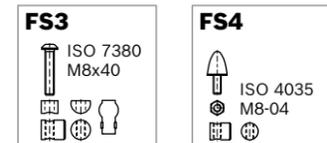
Condition on delivery: Ungreased; greasing according to assembly instructions **3 842 527 226**



- ▶ Drive head for transferring drive torque to a toothed belt
- ▶ For direct mounting of a motor or (in conjunction with a plug-in 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 finishing: LF blind hole drilling for longitudinal end connector

Drive head	No.	FS
LF20C	3 842 526 867	4xFS3, 2xFS4

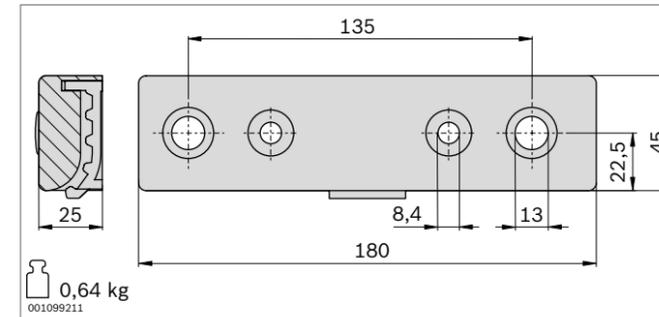
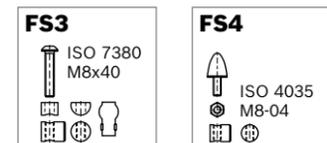
Material: Drive head: Aluminum; anodized
Hollow shaft: Steel; galvanized
Scope of delivery: Incl. Fastening material (FS), cover caps



- ▶ 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 finishing: LF blind hole drilling for longitudinal end connector

Return head	No.	FS
LF20C	3 842 526 869	4xFS3, 2xFS4

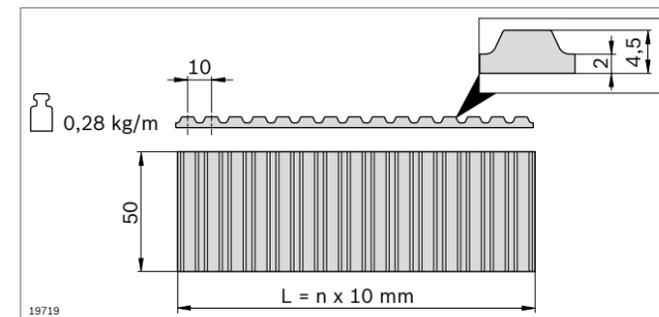
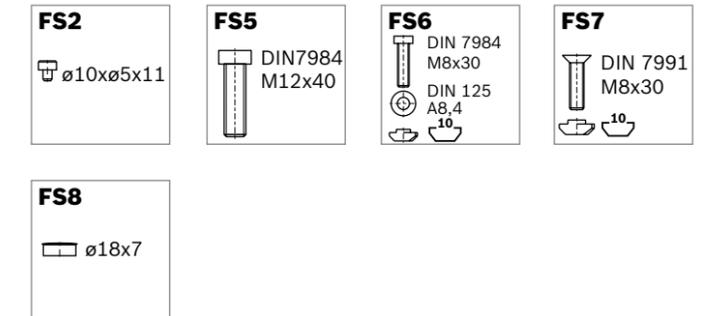
Material: Return head: Aluminum; anodized
Hollow shaft: Steel; galvanized
Cover caps: PA; black
Scope of delivery: Incl. Fastening material (FS), cover caps



- ▶ Belt connector for fastening the toothed belt to the trolley slot
- ▶ Profile finishing 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	4xFS2, 2xFS5, 2xFS6, 2xFS7, 2xFS8

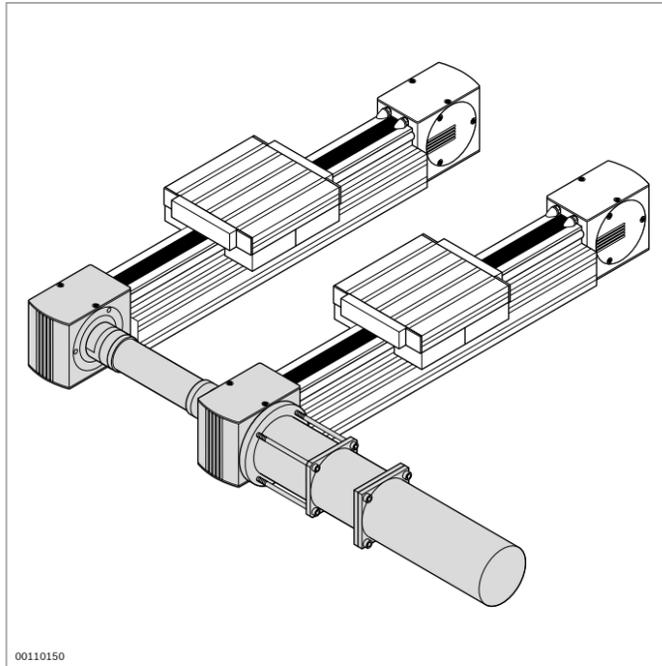
Material: Aluminum, painted black
Scope of delivery: Incl. fastening material (FS)



- ▶ 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 plug-in 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.

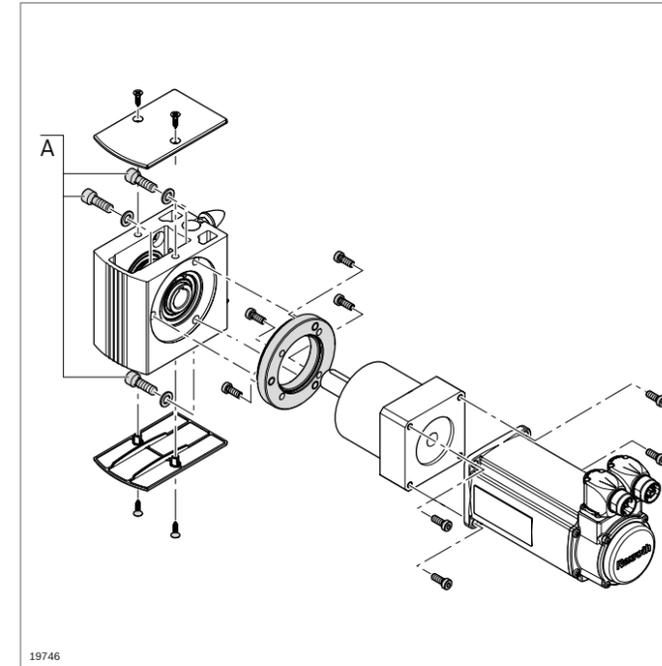
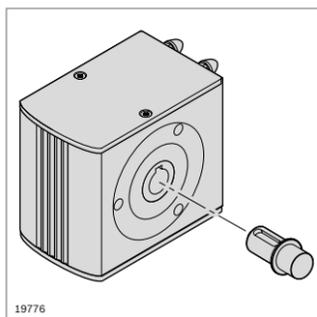
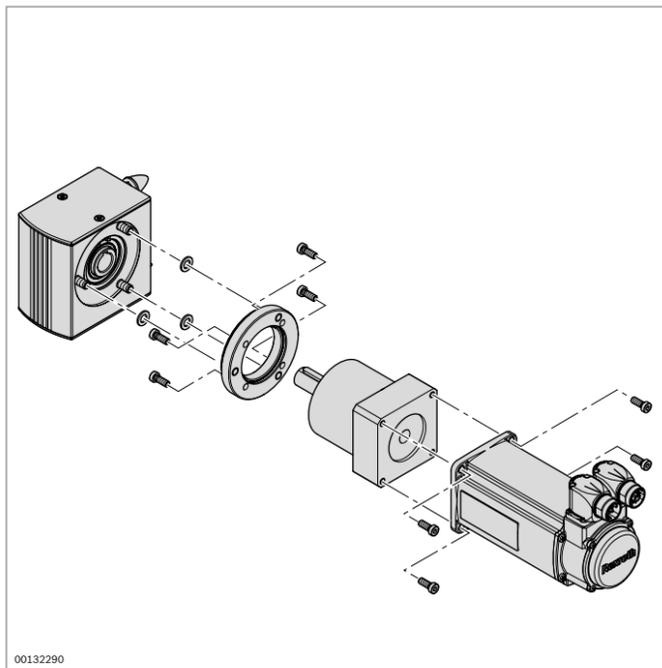
The motor, or the intermediate gear flange, can be screwed to the drive head as a complete unit from the left- or right-hand side.

Synchronous shafts

The use of synchronous shafts (p. 13-47) enables several linear axes to be operated with one drive.

Connection dimensions (flanges)

The connection dimensions for the size LF6, LF12 and LF20 linear guides are shown on pages 13-45.



Flange

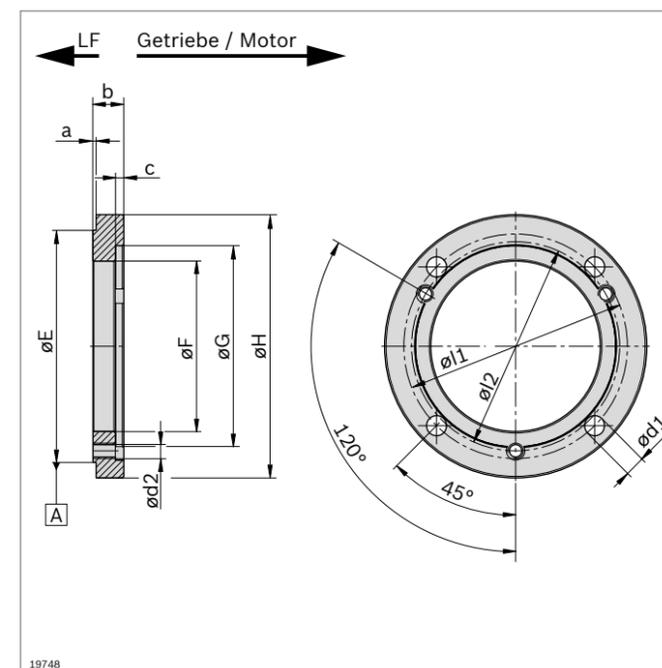
A flange is generally required for fixing the motor/gear unit in place. The connection dimensions for connection to the drive head are shown below. The connection to the motor/gear unit depends on the model chosen in each case.

Also see connection dimensions of 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)

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 4762 – M8x25 (3x)	ISO 4762 – M10x30 (3x)
	ISO 7092 – 8 (3x)	ISO 7092 – 8 (3x)	ISO 7092 – 10 (3x)



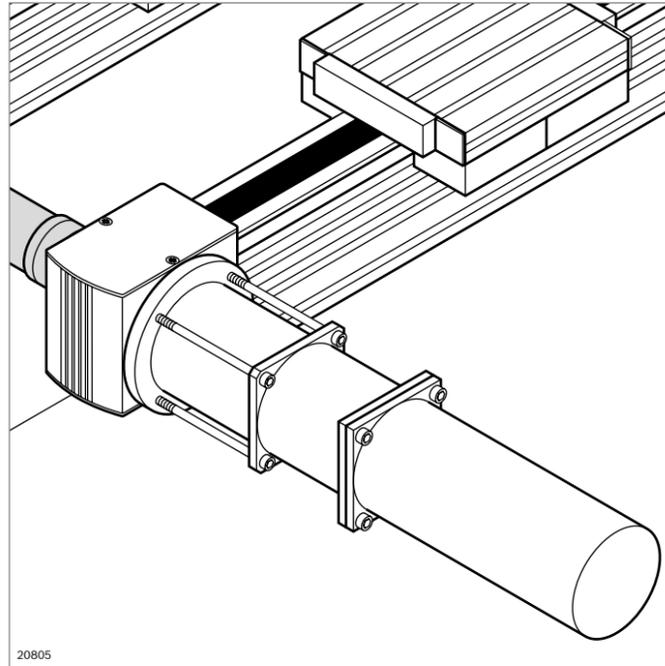
Drawing and dimensions for flange in self-build version. Customer-specific adjustment is necessary, depending on the motor and gear unit. The fastening material must be self-sourced.

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	∅ 88 -0.1/-0.3	∅ 111 -0.1/-0.3	∅ 150 -0.1/-0.3
F _{min} ^{*)}	∅ *)	∅ *)	∅ *)
G ^{*)} ⊙ 0.05 A	∅ *)	∅ *)	∅ *)
H ^{*)}	∅ *)	∅ *)	∅ *)
I1 ^{*)}	∅ *)	∅ *)	∅ *)
I2	∅ 78	∅ 100	∅ 135
d1 ^{*)}	∅ *)	∅ *)	∅ *)
d2	⊕ ∅ 0.25 M8	M8	M10

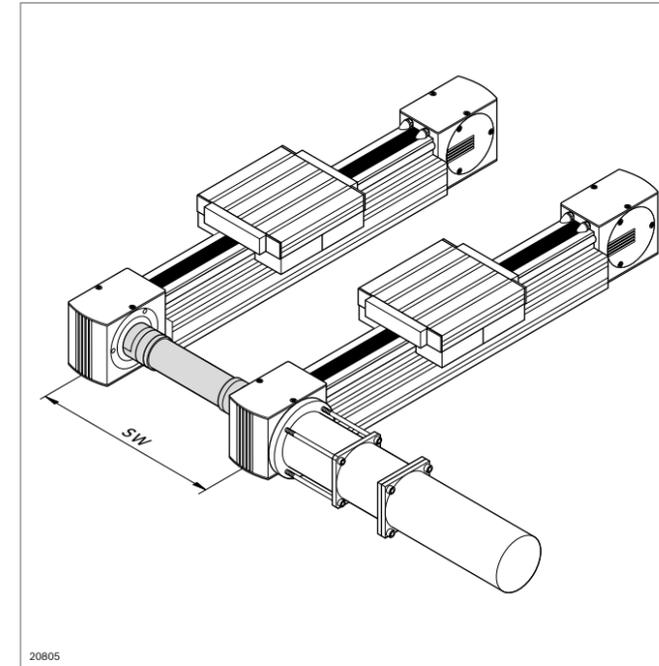
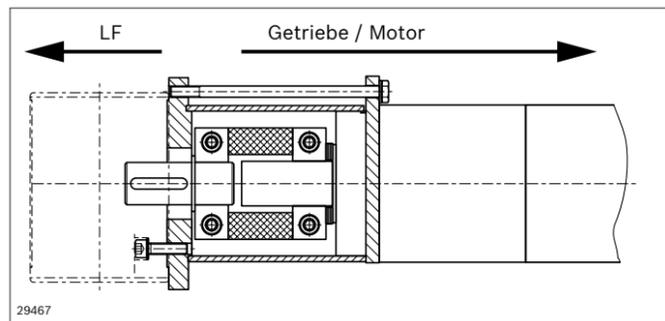
^{*)} Dimension according to customer drive.

Notice: 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.



Plug-in shafts, synchronous shafts

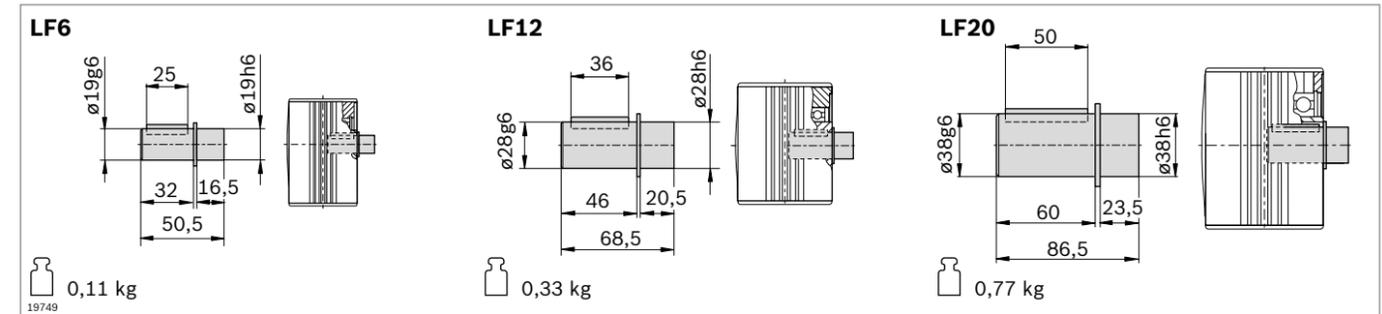
Plug-in shafts

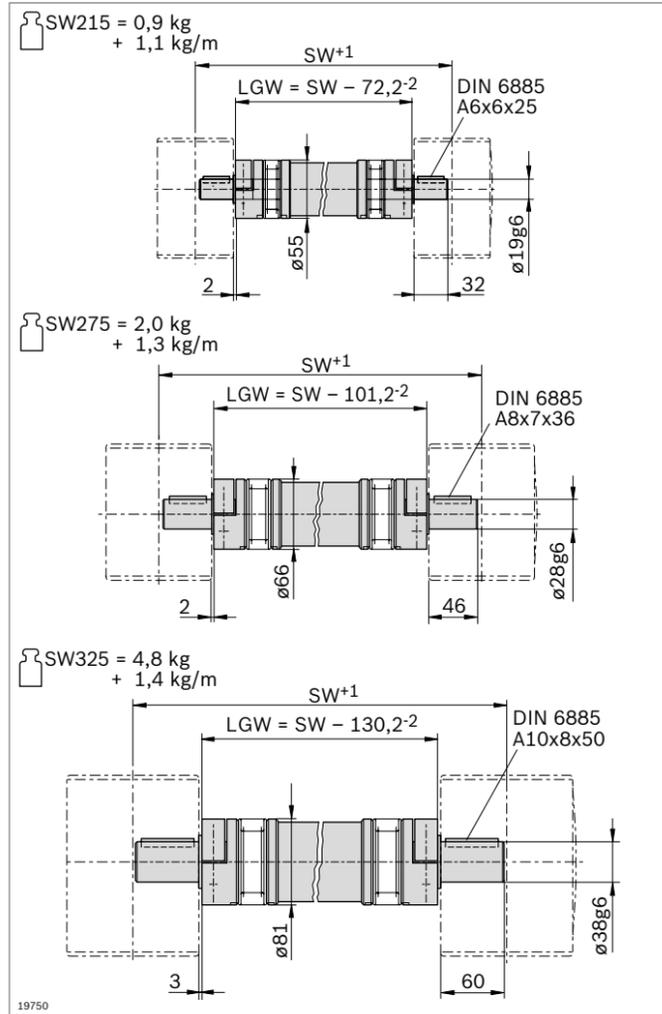
- ▶ Enable the installation of customized drive solutions

Plug-in shaft	No.
LF6	3 842 526 893
LF12	3 842 526 894
LF20	3 842 526 895

Material: Nickel-plated steel

SW = support separation





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 page 13-55, 13-56 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

SW = support separation
 LGW = length of synchronous shaft

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 bearings are delivered with built-in lubricating felts.

Condition on delivery

Ungreased (greasing with Klüber Isoflex Topas NCA 52; see assembly instructions **3 842 527 226**)
 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.

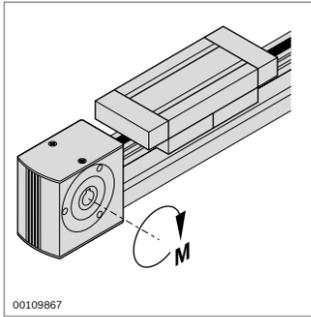
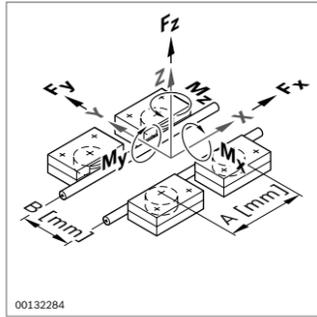
Nominal service life at constant speed

$$L = \left(\frac{C}{F} \right)^3 10^5$$

$$L_h = \left(\frac{L}{2 \cdot s \cdot n_s \cdot 60} \right)$$

- 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 $s < 2 \cdot L_1$ (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

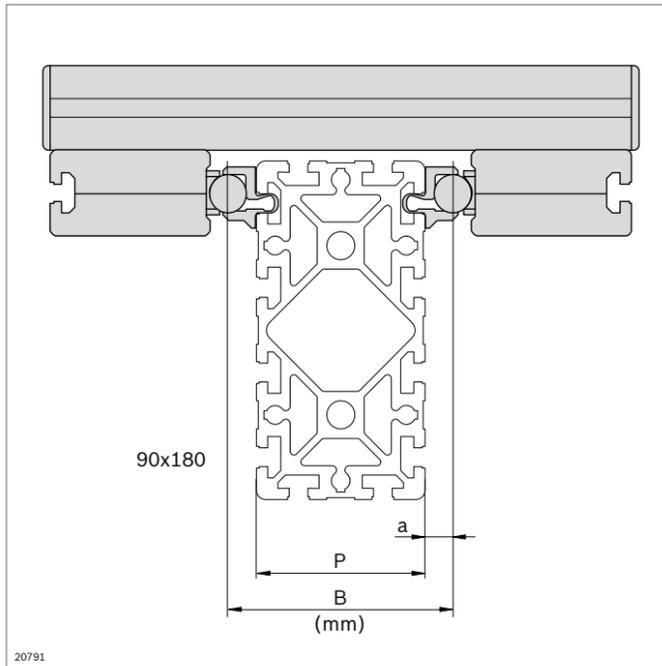
Notice: If cumulative forces and moments arise in your application and load limits may be reached, please contact your Rexroth representative for consultation in design.

	A _{min} ¹⁾ (mm)	F _z (N)	F _y (N)	M _x (Nm)	M _z (Nm)	M _y (Nm)	v _{max} (m/s)	M _{max} (Nm)
LF6S	75	850	1400	13.6	0.7 · A ²⁾	0.4 · A ²⁾	5	9.5 / 7.6
LF6C	75	850	1400	0.4 · B ²⁾	0.7 · A ²⁾	0.4 · A ²⁾	5	15
LF12S	90	2000	3500	78.0	1.7 · A ²⁾	1.0 · A ²⁾	5	30
LF12C	90	2000	3500	1.0 · B ²⁾	1.7 · A ²⁾	1.0 · A ²⁾	5	30
LF20S	135	6000	12500	240.0	6.2 · A ²⁾	3.0 · A ²⁾	5	100
LF20C³⁾	135	6000	12500	3.0 · B ²⁾	6.2 · A ²⁾	3.0 · A ²⁾	5	100

¹⁾ A_{min} = Length guide bearing
²⁾ Notice: A (spacing of support wheels, see image above) in mm; see below for calculation of B (track width)
³⁾ Maximum values (profile slot load-bearing capacity) are only reached with the following profiles: 45x270; 60x90; 90x90; 90x180; 90x360 (see p. 18-15)

Do not exceed the maximum loading of the screwed connections for rails, carriages and fastenings. Ensure sufficiently stable basic profile and respective substructure.

Take account of the general service life of lubricants!



Calculating the track width B

$$B = P + 2 \cdot a$$

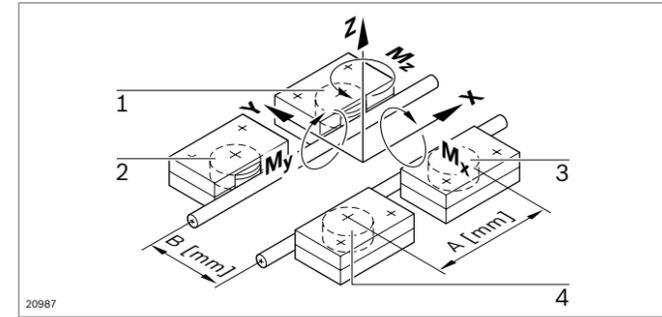
B = track width (in mm)
 P = profile width (in mm)
 a = rod spacing (in mm)

LF ... C

Values for a: for LF6C = 9.5 mm (p. 13-13)
 for LF12C = 9 mm (p. 13-25)
 for LF20C = 15 mm (p. 13-39)

LF ... S

Values for a: for LF6S = 40 - 6 = 34 mm (p. 13-8)
 for LF12S = 90 - 12 = 78 mm (p. 13-18)
 for LF20S = 100 - 20 = 80 mm (p. 13-32)



<p>Cam roller 1:</p> $F_r = -\left(\frac{F_y}{2}\right) - \left(\frac{M_z}{A}\right)$ $F_a = \left(\frac{F_z}{4}\right) + \left(\frac{M_x}{2 \cdot B}\right) - \left(\frac{M_y}{2 \cdot A}\right)$	<p>Cam roller 3:</p> $F_r = +\left(\frac{F_y}{2}\right) + \left(\frac{M_z}{A}\right)$ $F_a = \left(\frac{F_z}{4}\right) - \left(\frac{M_x}{2 \cdot B}\right) - \left(\frac{M_y}{2 \cdot A}\right)$
<p>Cam roller 2:</p> $F_r = -\left(\frac{F_y}{2}\right) + \left(\frac{M_z}{A}\right)$ $F_a = \left(\frac{F_z}{4}\right) + \left(\frac{M_x}{2 \cdot B}\right) + \left(\frac{M_y}{2 \cdot A}\right)$	<p>Cam roller 4:</p> $F_r = +\left(\frac{F_y}{2}\right) - \left(\frac{M_z}{A}\right)$ $F_a = \left(\frac{F_z}{4}\right) - \left(\frac{M_x}{2 \cdot B}\right) + \left(\frac{M_y}{2 \cdot A}\right)$

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 cam rollers and guide rods in the radial direction. The following therefore applies in respect of radial forces:
 $F_r \leq 0; F_r = 0$
- Cam rollers can be loaded equally in both directions. Therefore force F_a is sufficient for calculating P and P₀

Table 1: Load factors for cam rollers

	Load case: F _r ≥ 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: Cam 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 P₀

$$P_0 = x_0 \cdot |F_r| + y_0 \cdot |F_a|$$

F_r (N): radial load of the roller

The following applies: F_r ≤ 0; F_r = 0

F_a (N): axial load of the roller

x, x₀: Radial factor (table 1)

y, y₀: Axial factor (table 1)

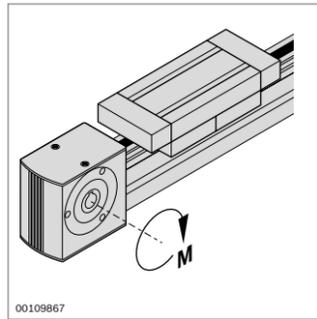
C: dynamic load capacity (table 2)

C₀: static load capacity (table 2)

Static safety values: $S_0 = \left(\frac{C_0}{P_0}\right)$

S₀ ≥ 4 recommended!

Size selection



Determining the forces and moments which arise

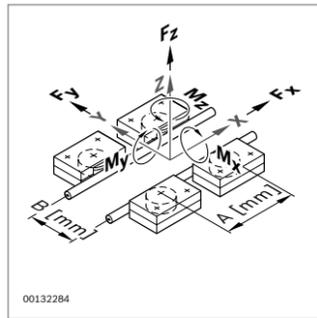
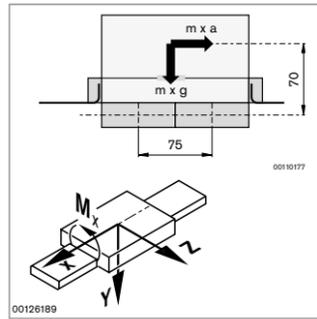
$$F_{x\ dyn}, F_{y\ dyn}, F_{z\ dyn}^{1)}$$

$$M_{x\ dyn}, M_{y\ dyn}, M_{z\ dyn}$$

¹⁾ $F_{z\ dyn}$ 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

Selection of the suitable size

$$F_{x, y, z\ dyn} < F_{x, y, z\ dyn\ zul} !$$

$$M_{x, y, z\ dyn} < M_{x, y, z\ dyn\ zul} !$$

If F and M are cumulative:

In case of higher load, the next size is to be used. In case of doubt, please contact your Rexroth representative for consultation in design.

Example

$$m = 30\ kg \quad a = 2.5\ m/s^2;$$

$$L_1 = 150\ mm \quad L_2 = 5000\ mm$$

$$g = 9.81\ m/s^2$$

$$F_{z\ dyn} = m \cdot g = 294\ N$$

$$M_{y\ dyn} = m \cdot a \cdot 70\ mm = 5.25\ Nm$$

Example of LF 6 S, LF 6 C

$$F_{z\ dyn\ zul} = 850\ N > F_{z\ dyn} = 294\ N$$

$$M_{y\ dyn\ zul} = 0.4 \cdot A = 0.4 \cdot 75\ mm$$

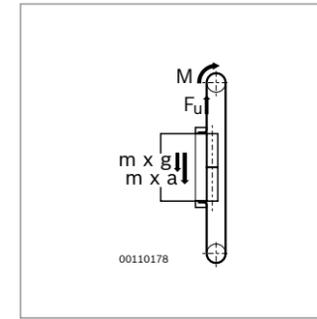
$$= 30\ Nm > M_{y\ dyn} = 5.25\ Nm$$

Example

$$F_{z\ dyn} = 294\ N < F_{z\ dyn\ zul} = 850\ N !$$

$$M_{y\ dyn} = 5.25\ Nm < M_{y\ dyn\ zul} = 30\ Nm !$$

Calculating the drive



Peripheral force F_u

$$F_u = m \cdot a + m \cdot g + F_0 + \mu \cdot m \cdot g$$

$$F_u \leq F_{u\ zul} !$$

F_0 : frictional force on return units
 μ : coefficient of friction of the guide
 see table below.

Alternative calculation formula

$$F_u = m \cdot a + F_0 + \mu \cdot m \cdot g \leq F_{u\ zul} !$$

Example of LF6C

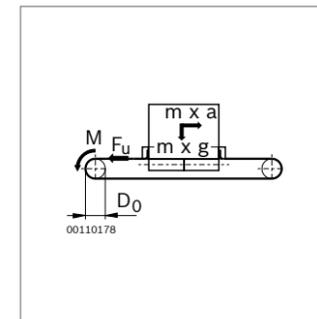
$$m = 30\ kg; \quad a = 2.5\ m/s^2$$

$$F_u = (30 \cdot 2.5)N + 10\ N$$

$$+ (0.025 \cdot 30 \cdot 9.81)N$$

$$F_u = 75\ N + 10\ N + 0.025 \cdot 294\ N$$

$$F_u = 92.35\ N < F_{u\ zul} = 600\ N !$$



Required drive torque M

$$M = \frac{1}{2} \cdot D_0 \cdot F_u \leq M_{zul} !$$

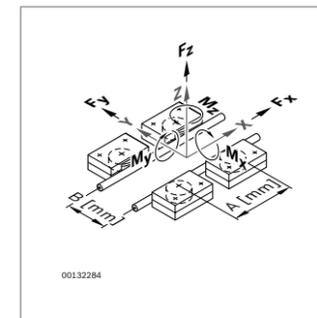
Example

$$M = \frac{1}{2} \cdot 50.94\ mm \cdot 92.35\ N$$

$$= 2.4\ Nm$$

$$M = 2.35\ Nm \leq M_{zul}$$

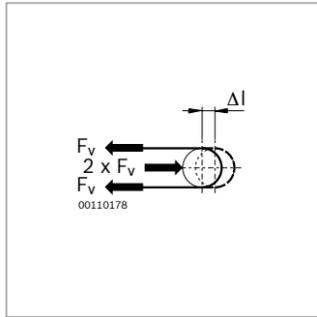
$$= 15\ Nm !$$



	v (m/s)	$F_{u\ zul}$ (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

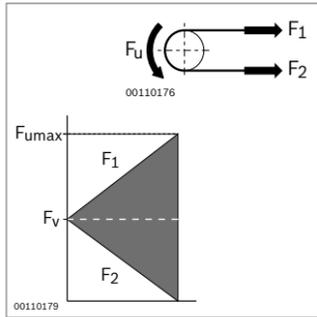


Preload force F_v of toothed belt

$0.5 \cdot F_u \leq F_v \leq F_u$
 Recommendation: $F_v = 0.5 \cdot F_u$

Example

$F_u = 92.35 \text{ N}$
 $F_v = 50 \text{ N}$

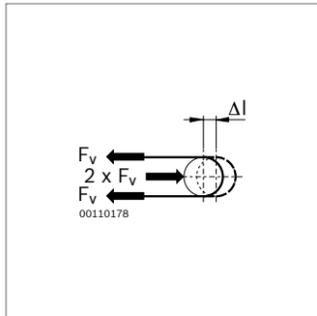


Maximum toothed belt force $F_{1 \max}$

$F_{1 \max} = F_v + 0.5 \cdot F_u \leq F_{1 \text{zul}}$!
 $F_{2 \min} = F_v - 0.5 \cdot F_u > 0$!

Example of LF6C

$F_{1 \max} = 50 \text{ N} + 0.5 \cdot 92.35 \text{ N}$
 $F_{1 \max} = 96.18 \text{ N} < F_{1 \text{zul}} = 900 \text{ N}$!
 $F_{2 \min} = 50 \text{ N} - 0.5 \cdot 92.35 \text{ N}$
 $F_{2 \min} = 3.825 \text{ N} > 0$!



Required preload length Δl

$\Delta l = 0.5 \cdot F_v \cdot L / C_{\text{spez}} \leq \Delta l_{\max}$!

Example

$L = 2 \cdot L_2 - L_1 + 400 \text{ mm}$
 $L = 10250 \text{ mm}$
 $\Delta l = 0.5 \cdot 50 \text{ N} \cdot 10\,250 \text{ mm}$
 $\quad / 420000 \text{ N}$
 $\Delta l = 0.8 \text{ mm} < \Delta l_{\max} = 13 \text{ mm}$!

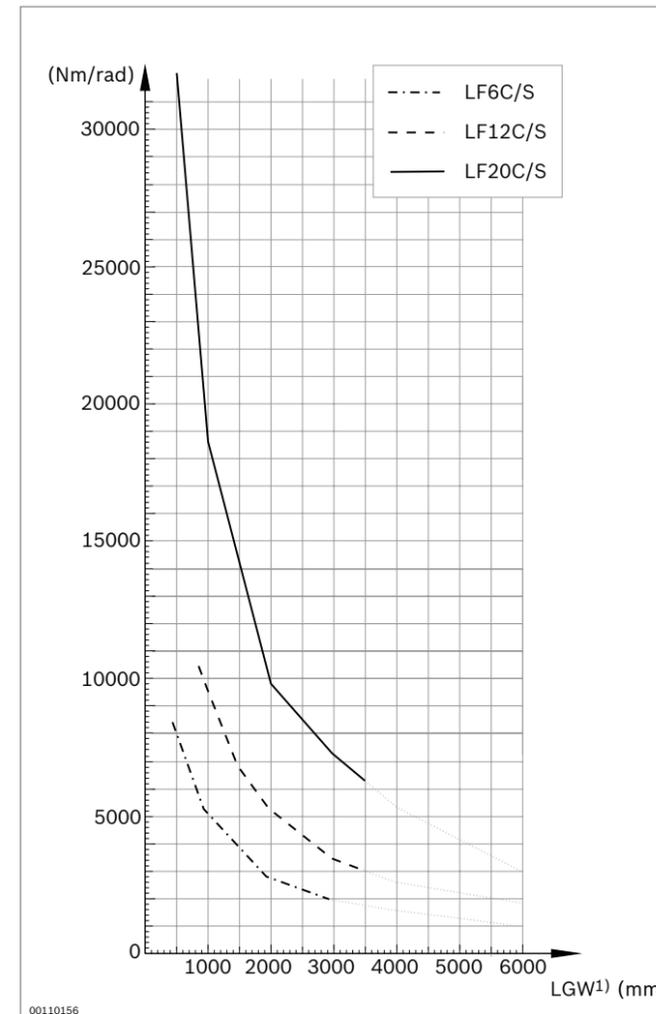
	$F_{1 \text{zul}}$ (N)	C_{spez} (N)	Δl_{\max} (mm)	L (mm)	Page
LF6S	750	315000	11	$2 \cdot L_2 - L_1 + 360$	13-6
LF6C	900	420000	13	$2 \cdot L_2 - L_1 + 400$	13-11
LF12S	1230	1250000	16	$2 \cdot L_2 - L_1 + 630$	13-16
LF12C	1230	1250000	16	$2 \cdot L_2 - L_1 + 630$	13-23
LF20S	3000	1870000	23	$2 \cdot L_2 - L_1 + 780$	13-30
LF20C	3000	1870000	23	$2 \cdot L_2 - L_1 + 780$	13-37

C_{spez} : Belt stiffness;
 L: Toothed belt,
 see also LF6S (p. 13-6), LF6C (p. 13-11),
 LF12S (p. 13-16), LF12C (p. 13-23),
 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. 13-56)	Diagram 3 (p. 13-56)	Diagram 3 (p. 13-56)
		max. $0.7 \cdot n_k$	max. $0.7 \cdot n_k$	max. $0.7 \cdot n_k$
Elasticity	axial	max. 2 mm	max. 3 mm	max. 4 mm
	lateral	Diagram 4 (p. 13-56)	Diagram 4 (p. 13-56)	Diagram 4 (p. 13-56)
	Rotation angle	Diagram 5 (p. 13-56)	Diagram 5 (p. 13-56)	Diagram 5 (p. 13-56)

Diagram 1: Torsion stiffness



1) Length synchronous shaft LGW

- LF6 LGW = SW - 72
- LF12 LGW = SW - 101
- LF20 LGW = SW - 130

Diagram 2: Mass inertia

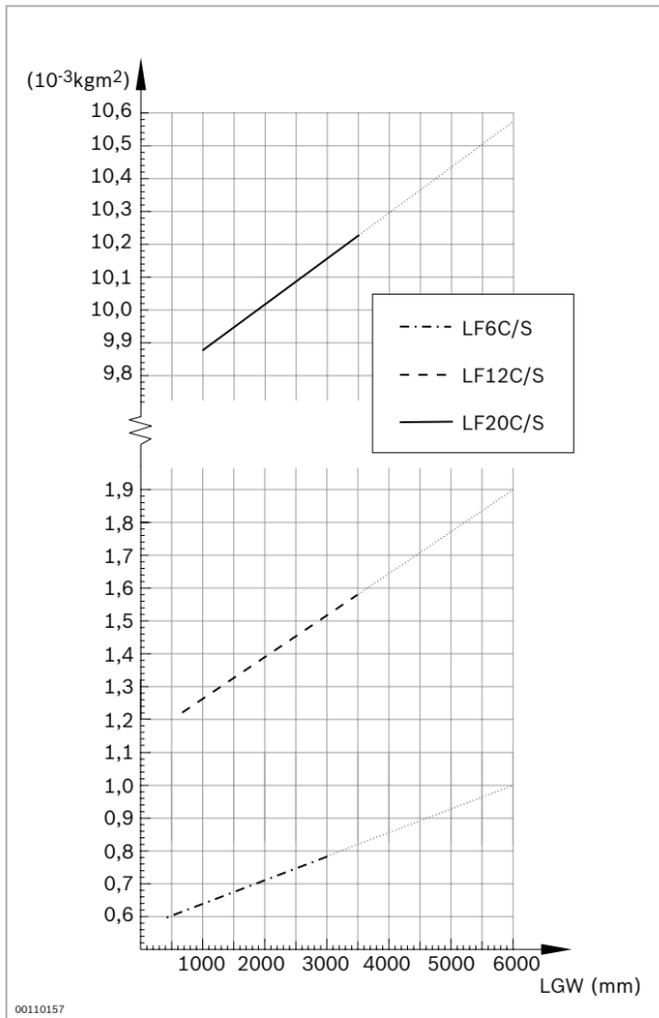


Diagram 3: Critical rpm due to bending n_k

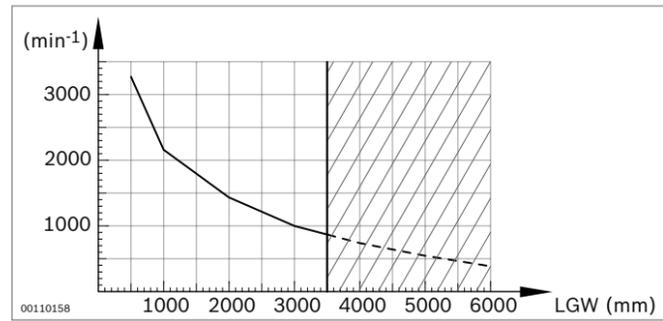
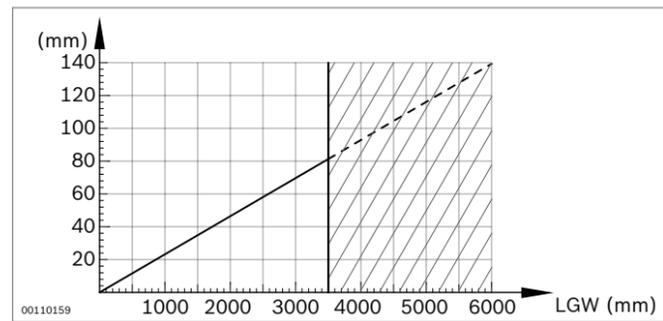
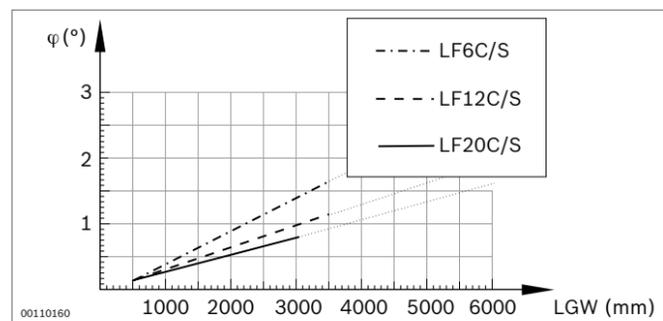


Diagram 4: Lateral offset

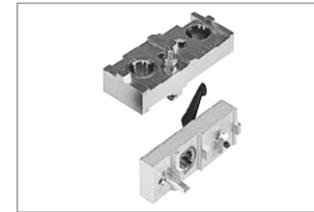


Aligned shafts are recommended.

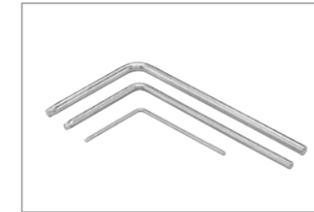
Diagram 5: Rotation angle



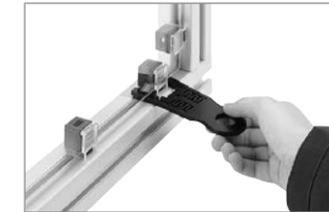
Tools



Drilling jigs (p. 14-2)



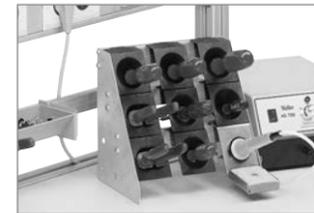
Torx® offset screwdriver (p. 14-5)



Variofix remover, Flexible grinder (p. 14-6)



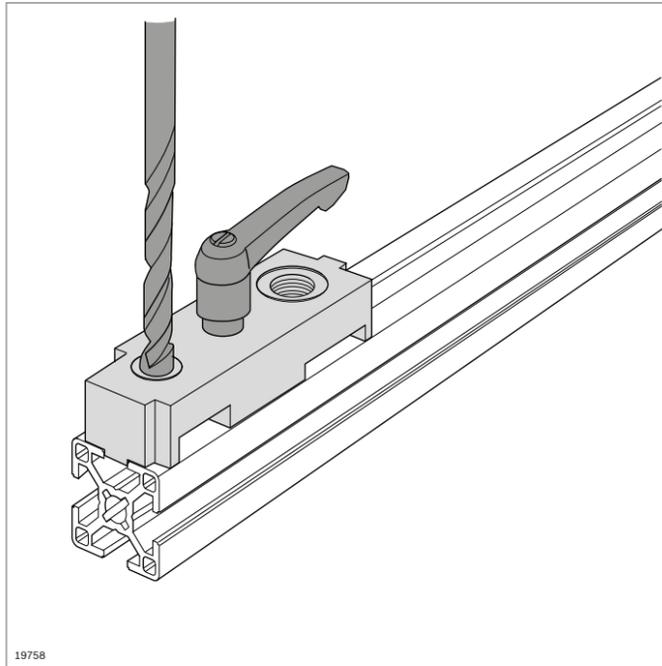
Beveling shears (p. 14-6)



Tool shelf, tool holder (p. 14-7)

Let us send you information on the complete product range of Bosch power tools!

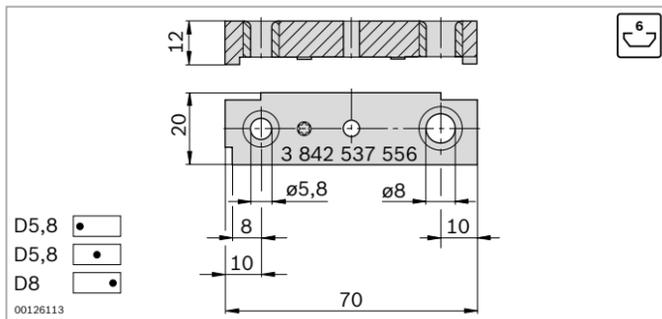
Robert Bosch GmbH
Geschäftsbereich Elektrowerkzeuge
PO Box 10 01 56
D-70745 Leinfelden-Echterdingen
<http://www.bosch-pt.com>



Drilling jigs



- ▶ For simple drilling of standard holes for the Rexroth range of connectors
- ▶ Stopping surfaces and edges for precise hole positioning
- ▶ Lockable

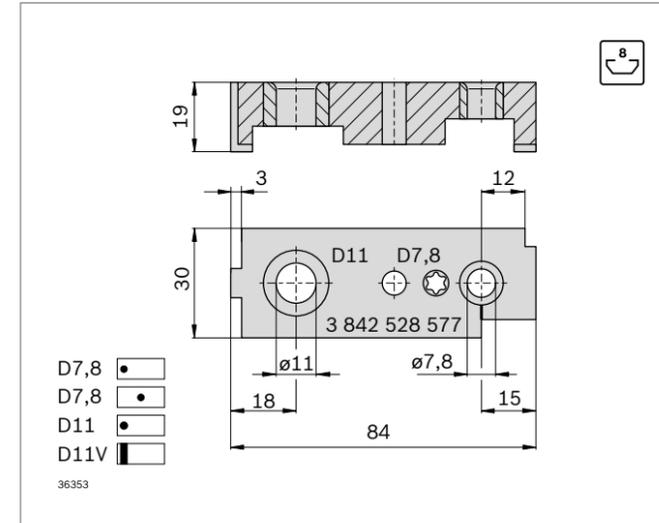
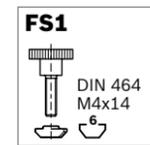


Drilling jigs – slot 6 mm

- ▶ For through-holes (ø5.8) for hexagonal-star socket screwdrivers T25
- ▶ For fastening holes (ø8) for quick connectors

Drilling jig	No.	FS
Slot 6 mm	3 842 537 556	FS1

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



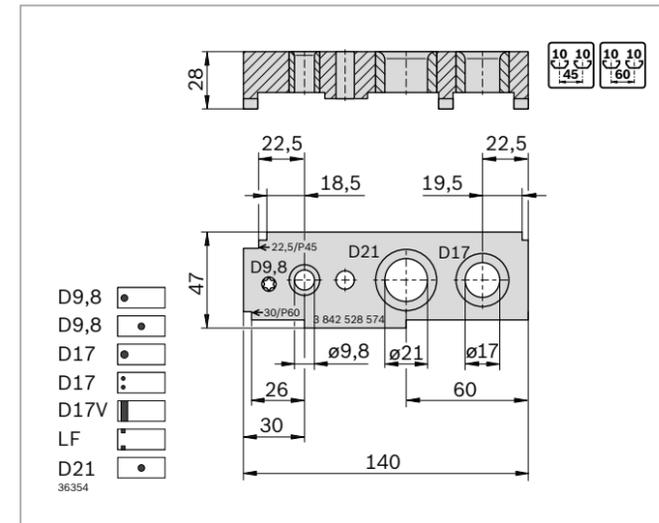
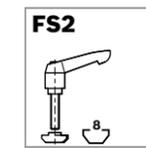
- D7,8
- D7,8
- D11
- D11V

Drilling jigs – slot 8 mm

- ▶ For through-holes (ø7.8) for hexagonal-star socket screwdrivers T40
- ▶ For fastening holes (ø11) 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)



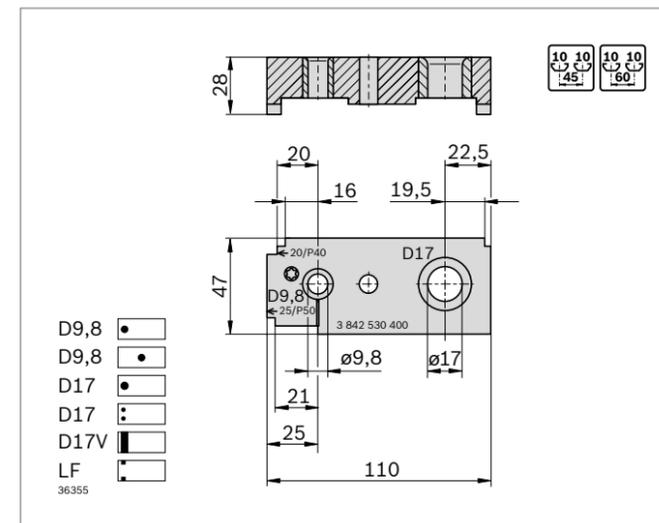
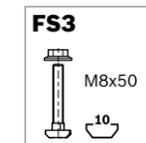
- D9,8
- D9,8
- D17
- D17
- D17V
- LF
- D21

Drilling jigs – slot 10 mm, modular dimensions 45, 60

- ▶ For fastening holes (ø17) for bolt connectors, quick connectors, and threaded sleeves
- ▶ For through-holes (ø9.8) for hexagonal-star socket screwdrivers T50
- ▶ For counterbores (ø21) 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)



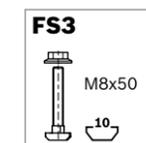
- D9,8
- D9,8
- D17
- D17
- D17V
- LF

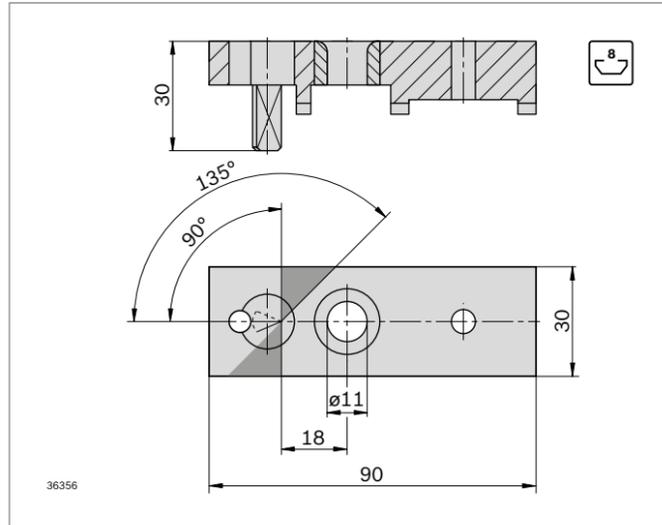
Drilling jigs – slot 10 mm, modular dimensions 40, 50

- ▶ For through-holes (ø9.8) for hexagonal-star socket screwdrivers T50
- ▶ For fastening holes (ø17) for bolt connectors, quick connectors, and threaded sleeves

Drilling jig	No.	FS
Slot 10 mm, modular dimensions 40, 50	3 842 530 400	FS3

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



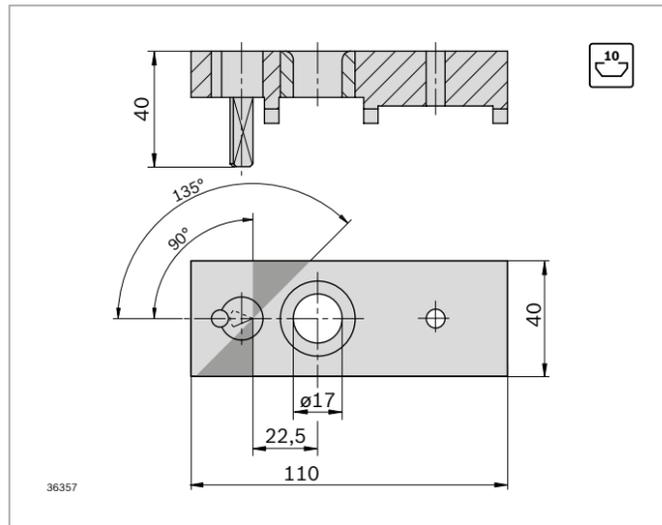
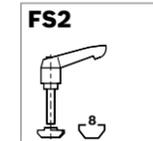


Drilling jig for diagonally sawn profiles – slot 8 mm

► For fastening holes (ø11) 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. 3-57)

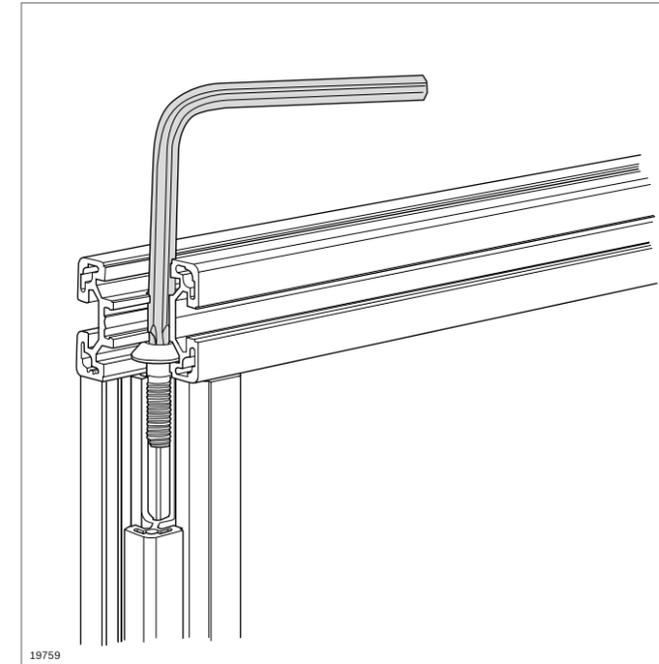
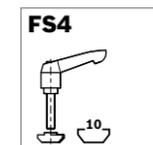


Drilling jig for diagonally sawn profiles – slot 10 mm

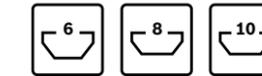
► For fastening holes (ø17) for bendable quick connectors

Drilling jig	No.	FS
Slot 10 mm – diagonally sawn profiles	3 842 516 731	FS4

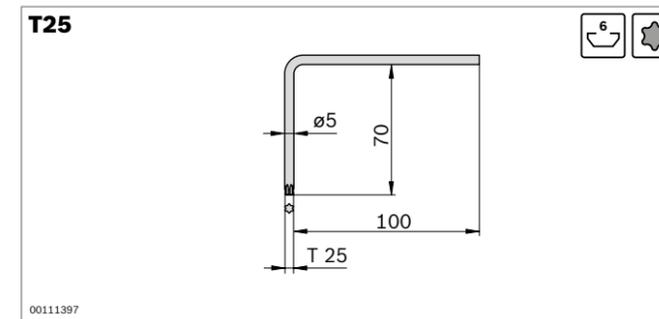
Material: Aluminum
 Scope of delivery: Incl. fastening material (FS)
 Also see bendable quick connector (p. 3-57)



Torx® offset screwdriver

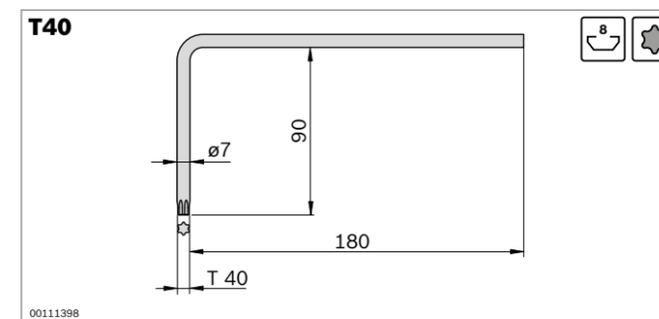


- Offset screwdriver for the central bolts (p. 3-41):
 - S6x16-T25
 - S8x25-T40
 - S12x30-T50, M12x30-T50
- Long shank for easy screw head access



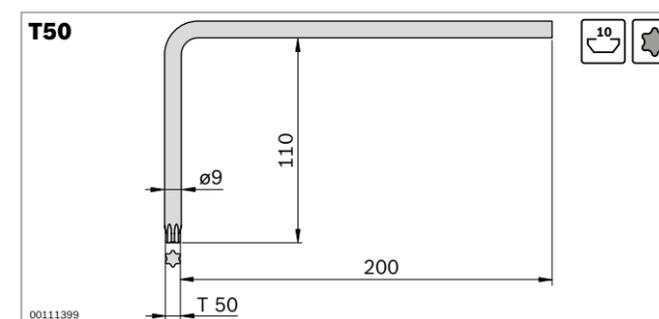
Offset screwdriver T25	No.
	5 3 842 528 590

Material: Chrome vanadium steel



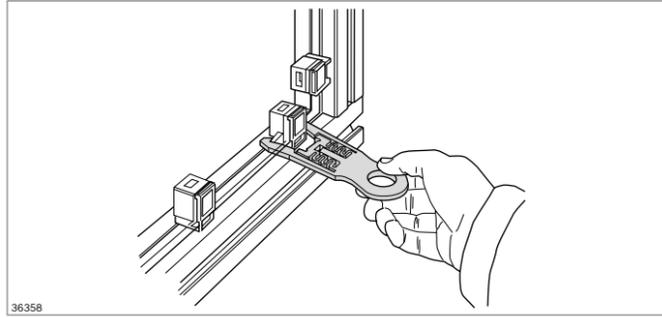
Offset screwdriver T40	No.
	5 3 842 528 588

Material: Chrome vanadium steel



Offset screwdriver T50	No.
	5 3 842 528 586

Material: Chrome vanadium steel

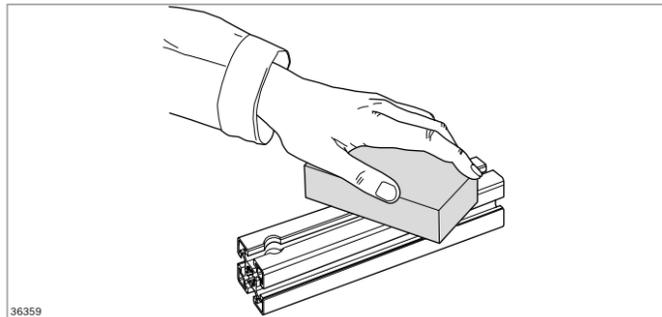


Variofix remover

- ▶ For fast, easy removal of the Variofix snap-in clip (p. 7-6), even in hard-to-reach places
- ▶ The Variofix 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

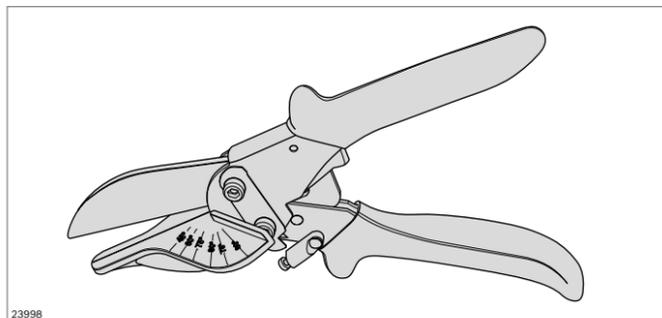


Flexible grinder for anodized surfaces

- ▶ 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

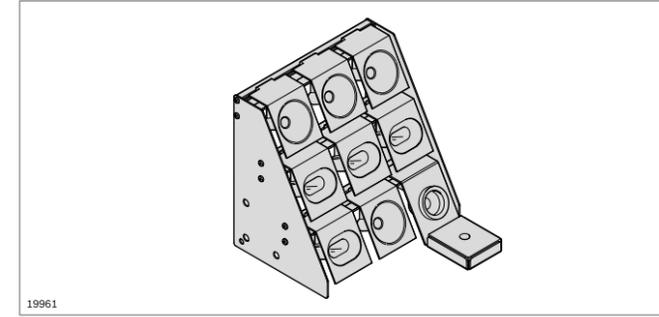
Material: Silicon carbide 60 %
polyurethane 40 %



Miter cutter

- ▶ For length-trimming of plastic profiles, e.g. slot cover profiles

Miter cutter	No.
	3 842 547 982



Tool shelf Tool holder

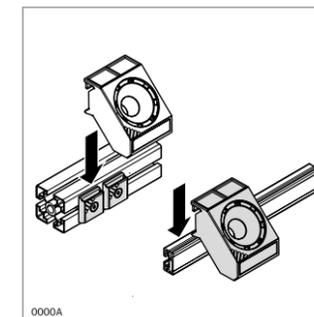
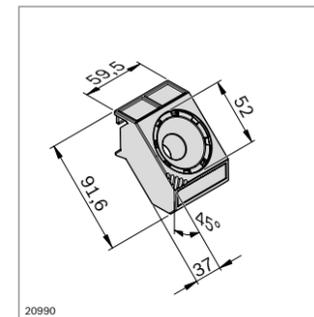
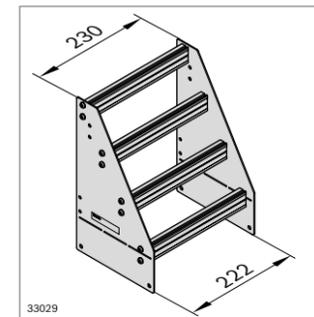


- ▶ Tool shelf and tool holder for ergonomic and handy positioning of tools at the workstation

- ▶ Tool shelf can be individually equipped
- ▶ Accessories: Container mount (p. 2-61)

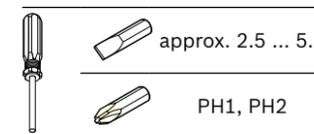
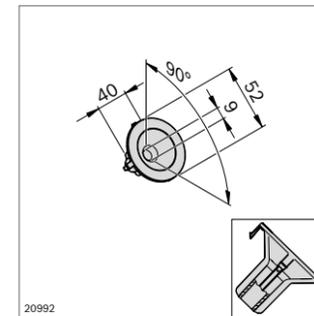
Tool shelf	ESD No.
	3 842 554 909

Material: Side parts: Sheet aluminum
Suspension profile: Aluminum; anodized

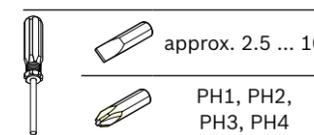
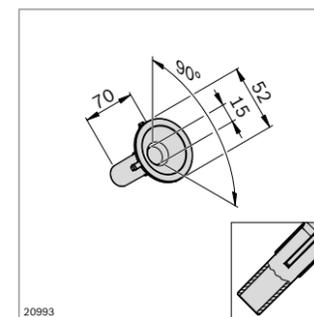


Tool holder D52 for bucket trays D52-9 and D52-15

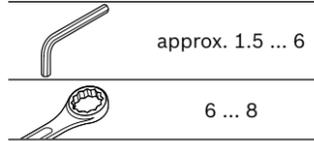
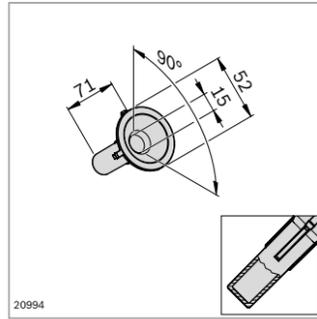
Tool holder D52	ESD No.
	3 842 544 832



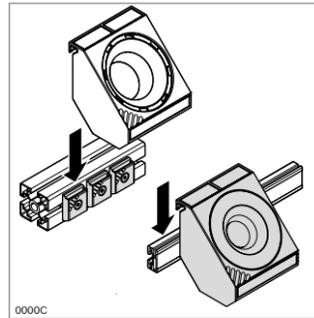
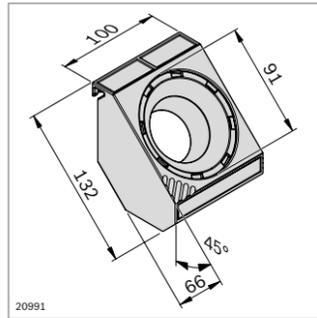
Bucket tray D52-9 (without base)	ESD No.
	3 842 544 834



Bucket-tray D52-15 (with base)	ESD No.
	3 842 544 835

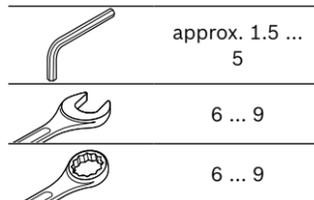
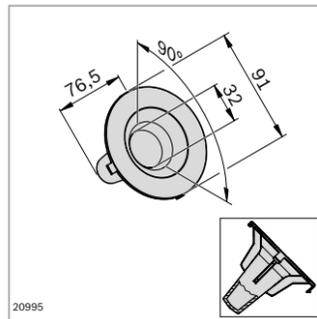


Bucket-tray D52-15 (with base)	ESD No.
	⚡ 3 842 544 836

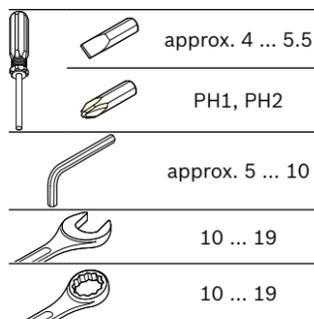
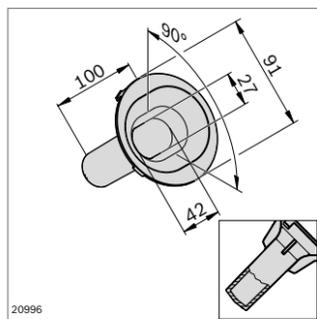


Tool holder D91 for bucket trays D91-32, D91 Oval53 L100 and D91 Oval53 L136

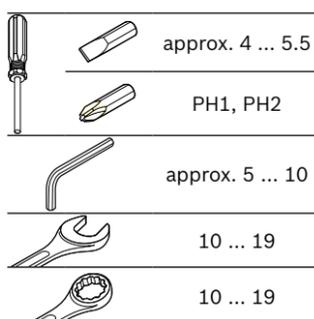
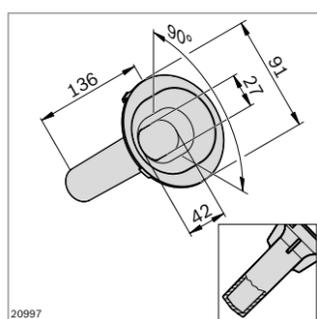
Tool holder D91	ESD No.
	⚡ 3 842 544 833



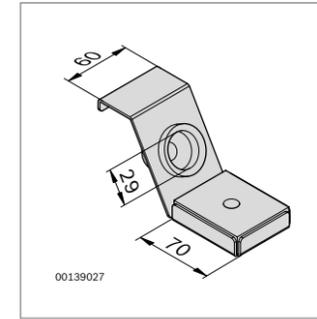
Bucket-tray D91-32 (with base)	ESD No.
	⚡ 3 842 544 837



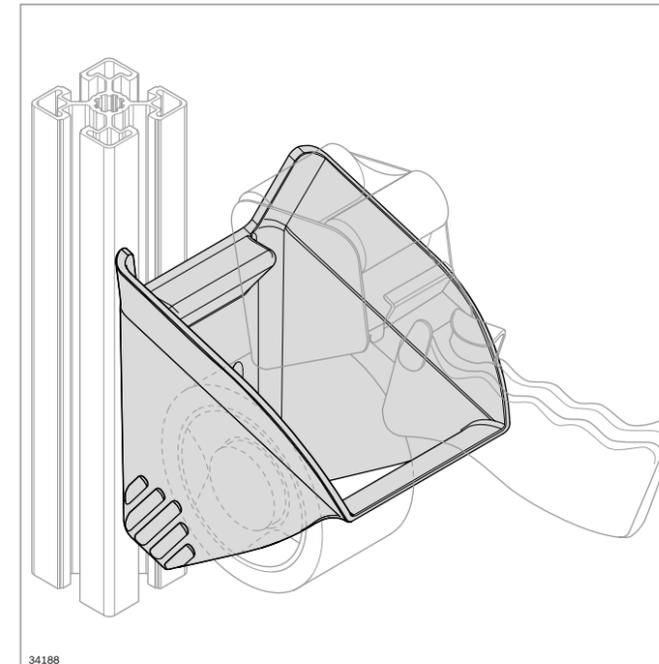
Bucket-tray D91 Oval53 L100 (with base)	ESD No.
	⚡ 3 842 546 744



Bucket-tray D91 Oval53 L136 (with base)	ESD No.
	⚡ 3 842 546 745



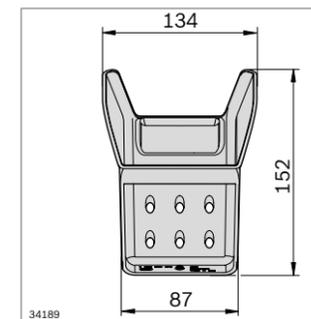
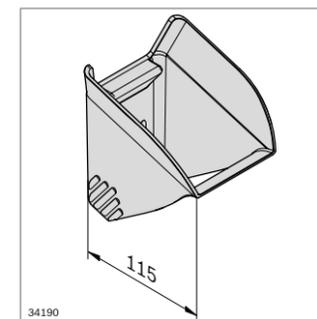
Tool holder for soldering irons	ESD No.
	⚡ 3 842 514 524



Tool holder TAPE 50 mm



- ▶ Tool holder for tape dispenser with a width of 50 mm
- ▶ Time savings of 10 % to 20 % based on MTM, achievable with
 - Defined place for faster reaching and picking
 - Docking aids for easy, ergonomic depositing
- ▶ Supports 5S principles for order and cleanliness at the workstation via defined place



Tool holder TAPE 50 mm	ESD No.
	⚡ 3 842 555 673

Material: PA 6; black
 Scope of delivery: Incl. fastening material for fastening in 8 mm or 10 mm slots

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)

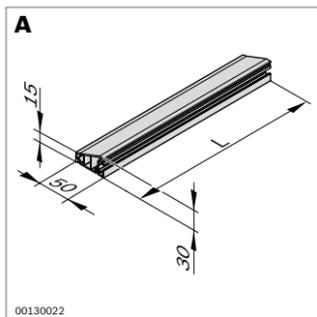


End cap, large (p. 15-3)



FiFo station

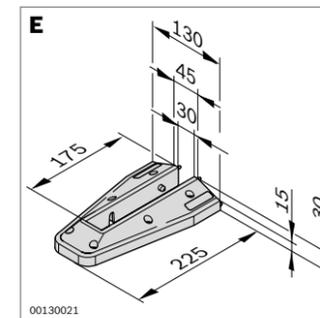
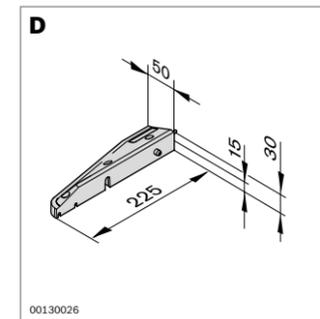
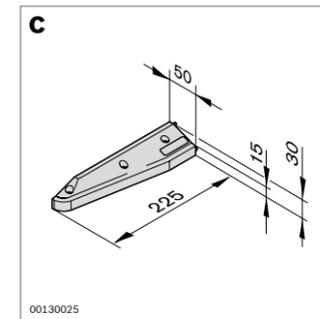
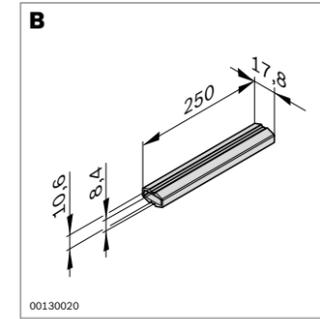
- ▶ Components for constructing a FiFo station for material shuttles
- ▶ Clearly organized and highly transparent production operations through having standardized delivery routes
- ▶ Modular system lets you adapt the layout to your needs and to your available space



- ▶ 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 30 mm 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. 2-16)

End cap, large	No.
E	10 3 842 539 897

Material: PA 6; black

Components for lateral guides



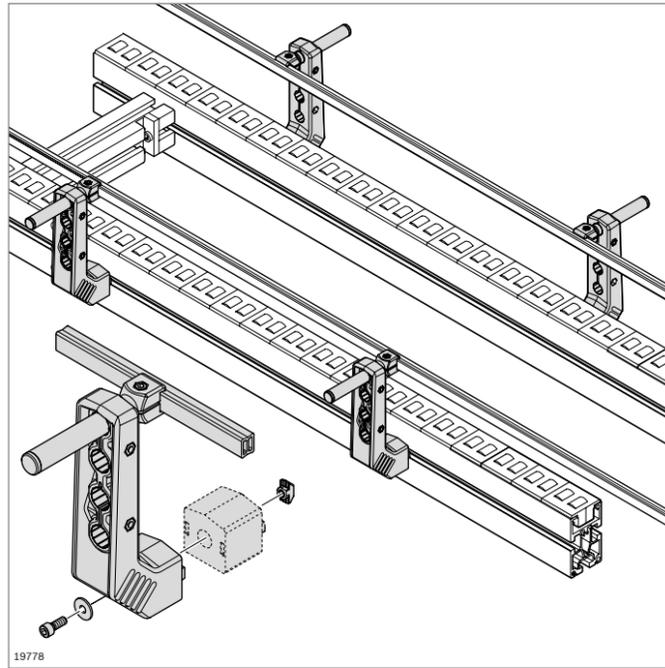
Profile rails, slide rails
(p. 16-3)



Holder, fixed (p. 16-6)

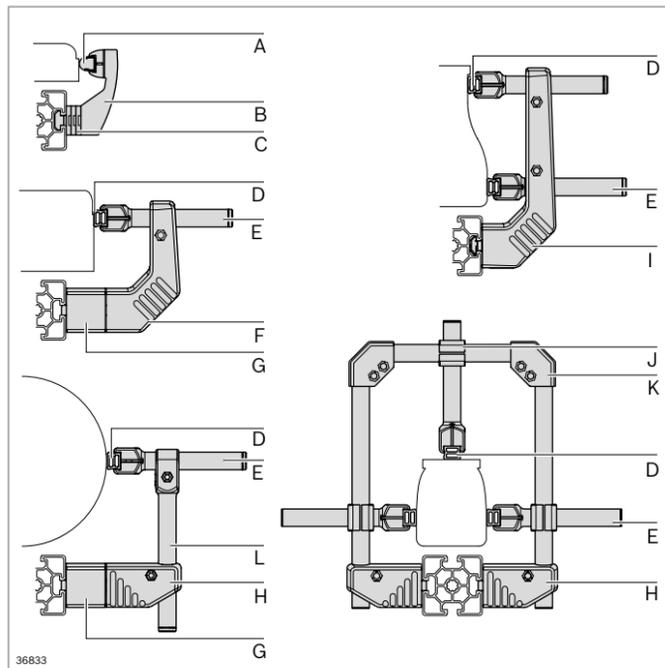


Holder, variable (p. 16-8)

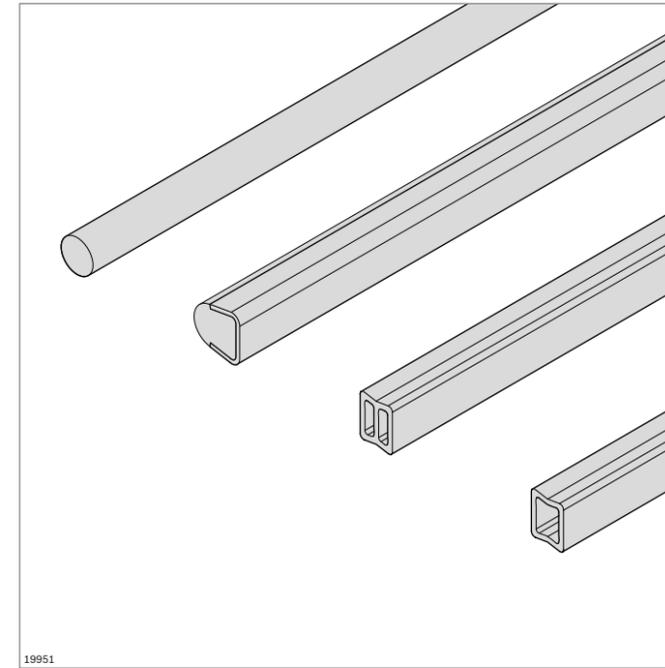


Components for lateral guides

- ▶ Wide variety of profile rail and holder combinations for individual solutions
- ▶ Easy to clean
- ▶ Robust
- ▶ Only one tool required for adjustment
- ▶ Interface slot 10 mm

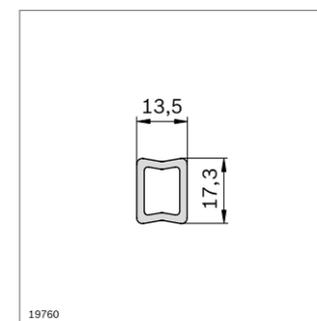
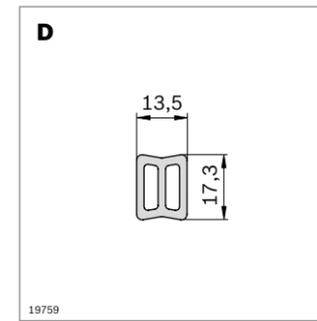


Components	Page
A Profile rail 17x17.5	16-4
B Holder, fixed	16-6
C Spacer plate	16-6
D Aluminum profile rail	16-3
E Clamping holder C L100	16-9
F Holder L134	16-10
G Spacer	16-11
H Holder L45	16-11
I Holder L204	16-10
J Cross piece	16-12
K Corner piece	16-12
L Vertical clamping holder D18 L160	16-11



Profile rails and accessories for lateral guides

- ▶ Profile rails for lateral guiding of 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 (p. 16-3, 16-4)
- ▶ Slide rails for secure guiding of transport material (p. 16-4)
- ▶ Profile connector for profile rail extension (p. 16-5)



- ▶ Aluminum profile rail for robust lateral guides

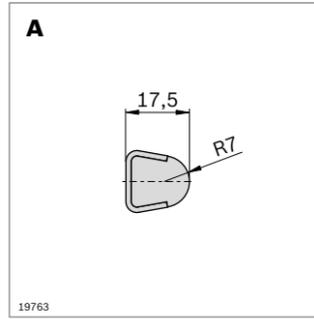
Aluminum profile rail	L (mm)	No.
1 pc	200 ... 3000	3 842 993 887 / L
20 pcs	3000	3 842 538 829

Material: Aluminum; natural, anodized
 Accessories: Narrow slide rail; high slide rail; outer profile connector; inner profile connector; cover cap; clamping holder C L100; holder; clamping head

- ▶ HDPE profile rail for light applications
- ▶ Bendable

HDPE profile rail	L (mm)	No.
1 pc	3000	3 842 538 388

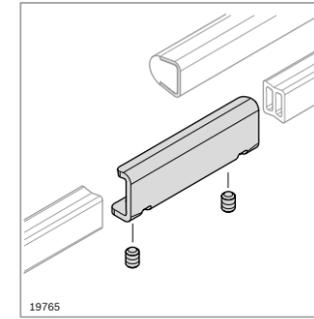
Material: HDPE; gray
 Accessories: Narrow slide rail; high slide rail; outer profile connector; inner profile connector; cover cap; clamping holder C L100; holder; clamping head



- ▶ Profile rail 17x17.5 in 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

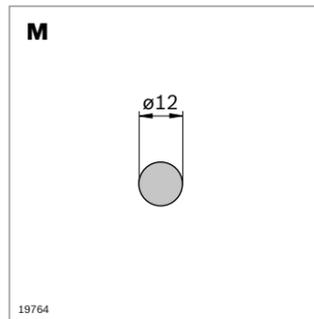
Material: Steel, stainless / PE; natural
 Accessories: Outer profile connector; clamping holder C L100; holder; clamping head; clamping head



- ▶ Outer profile connector for aluminum profile rails, HDPE profile rail, 17x17.5 profile rail

Outer profile connector	ESD	No.
	10	3 842 539 613

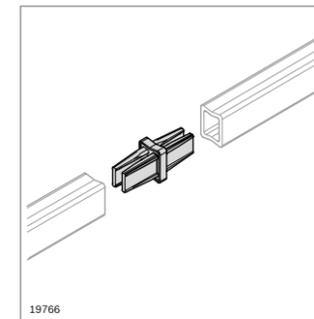
Material: Steel; stainless
 Scope of delivery: Incl. 2 x headless setscrew



- ▶ Profile rail D12 in 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

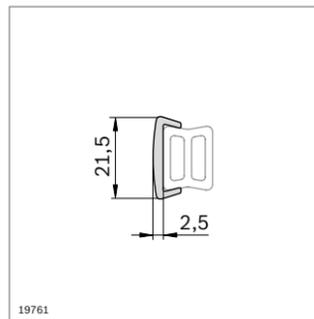
Material: Steel; stainless
 Accessories: Clamping holder D12 L100



- ▶ Inner profile connector for profile rail in aluminum, HDPE

Internal profile connector	ESD	No.
	10	3 842 539 345

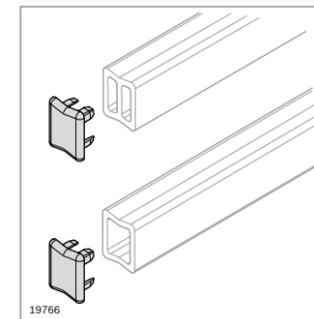
Material: PA; black, conductive



- ▶ Clip-on slide rail for aluminum or HDPE profile rail
- ▶ For gentle product transport and minimum wear to HDPE profile rail

Slide rail, narrow		L (mm)	ESD	No.
1 pc		3000		3 842 538 209
1 pc		3000	10	3 842 539 340

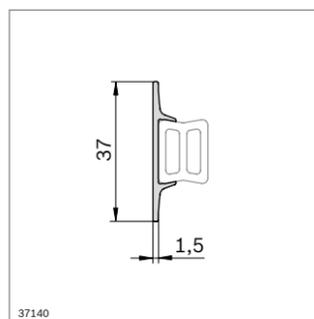
Material: HDPE; gray
 ESD: PE-UHMW, conductive, black



- ▶ Cover cap for profile rail in aluminum, HDPE

Cover cap	ESD	No.
	10	3 842 538 208

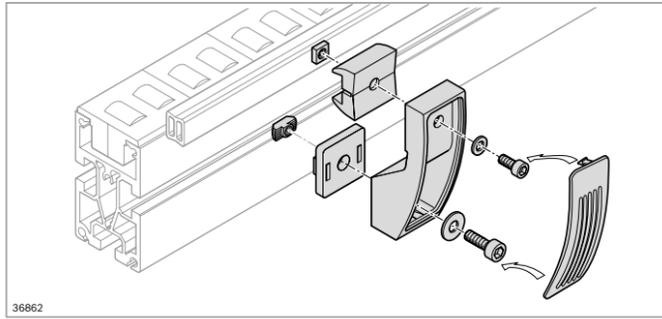
Material: PA; black, conductive



- ▶ Clip-on slide rail for aluminum or HDPE profile rail
- ▶ Wide guiding surface
- ▶ For gentle product transport and minimum wear to HDPE profile rail

Slide rail, high		L (mm)	No.
1 pc		3000	3 842 538 389

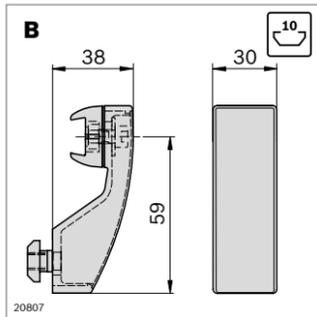
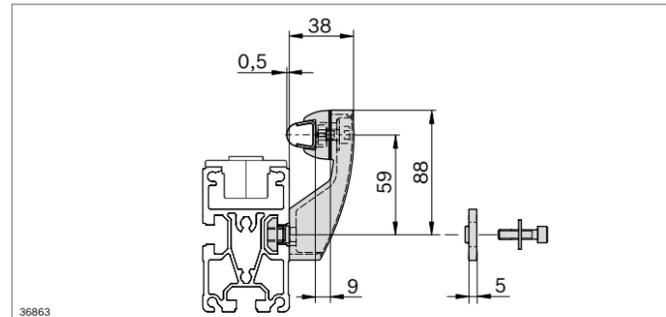
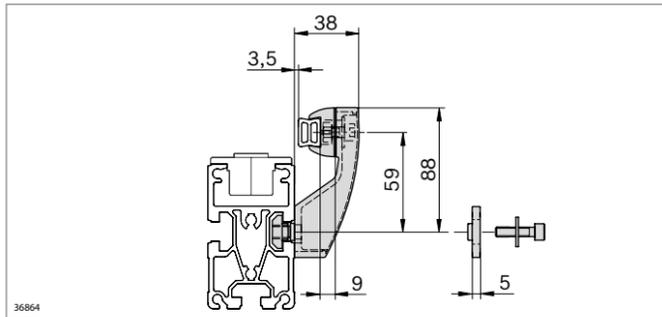
Material: HDPE; gray



Holder for lateral guide, fixed



- ▶ Holders for lateral guides with fixed installation height and fixed guide width
- ▶ Easy to clean
- ▶ Robust



FS1

- ISO4762 M8x16
- DIN 125 A 8,4

- ▶ Holder, fixed, for profile rail in aluminum, HDPE and 17x17.5
- ▶ For fixed guide width
- ▶ Spacer plate for guide width enlargement

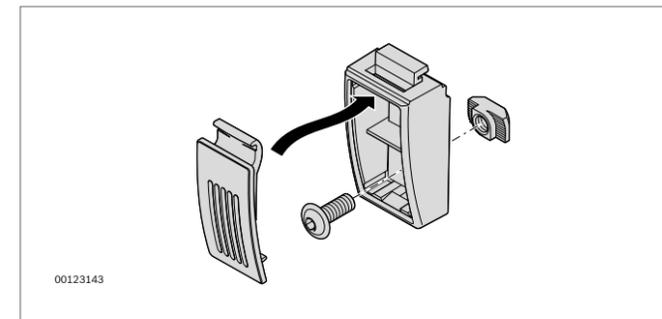
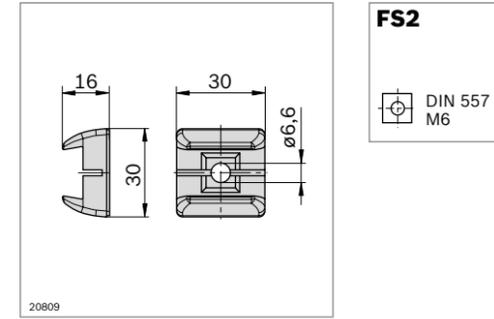
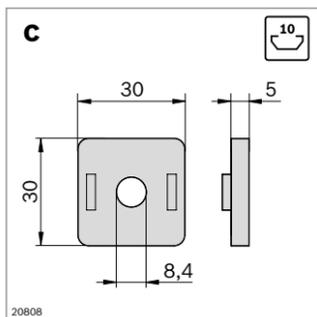
Holder, fixed	No.	FS
Set	3 842 527 851	FS1

Material: PA; black
Fastening material: Steel; galvanized
Scope of delivery: Incl. clamping head, fastening material (FS)

- ▶ Spacer plate for holders, fixed, to enlarge the guide width

Spacer plate	No.
Set	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)

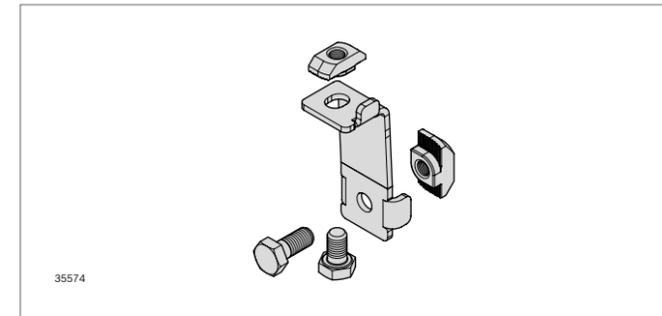
- ▶ Holder for simple installation in straight sections.

Holder for lateral guide	No.	FS
Set	10 3 842 531 552	FS3

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

FS3

- MLF-M6x16
- M6



- ▶ Holder HD in sturdy design for straight sections and in the curve area

Lateral guide holder HD	No.	FS
Set	10 3 842 557 005	FS4, FS5

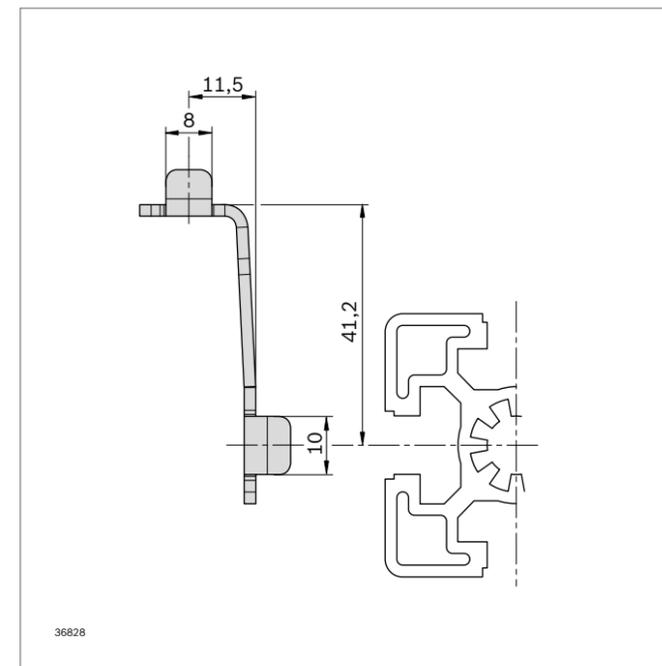
Material: Stainless steel
Fastening parts: Steel; galvanized
Scope of delivery: Incl. fastening material (FS)

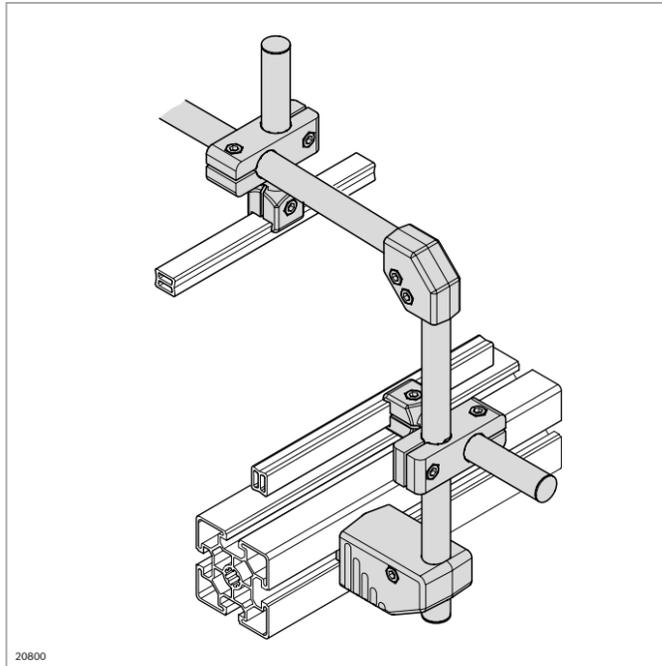
FS4

- ISO 4017 M6x14
- M6

FS5

- ISO 4017 M6x10
- M6



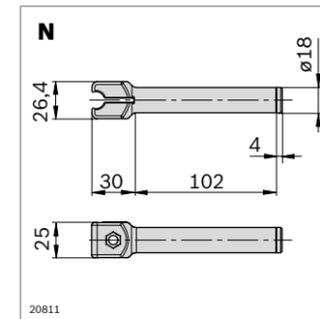
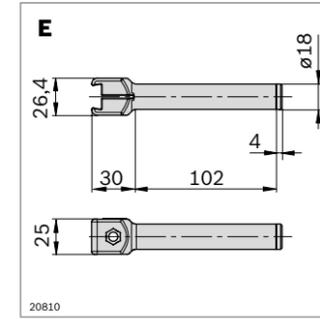


Holder for lateral guide, variable



- ▶ Holder and clamping holder allow for the variable adjustment of the guide height and width
- ▶ Easy to clean

Notice: For stability in the rotational direction, at least 2 holders must be connected with a continuous profile rail.



- ▶ Clamping holder C L100 for accommodating aluminum, HDPE, or 17x17.5 profile rails
- ▶ Scaling in mm and inch for simple alignment

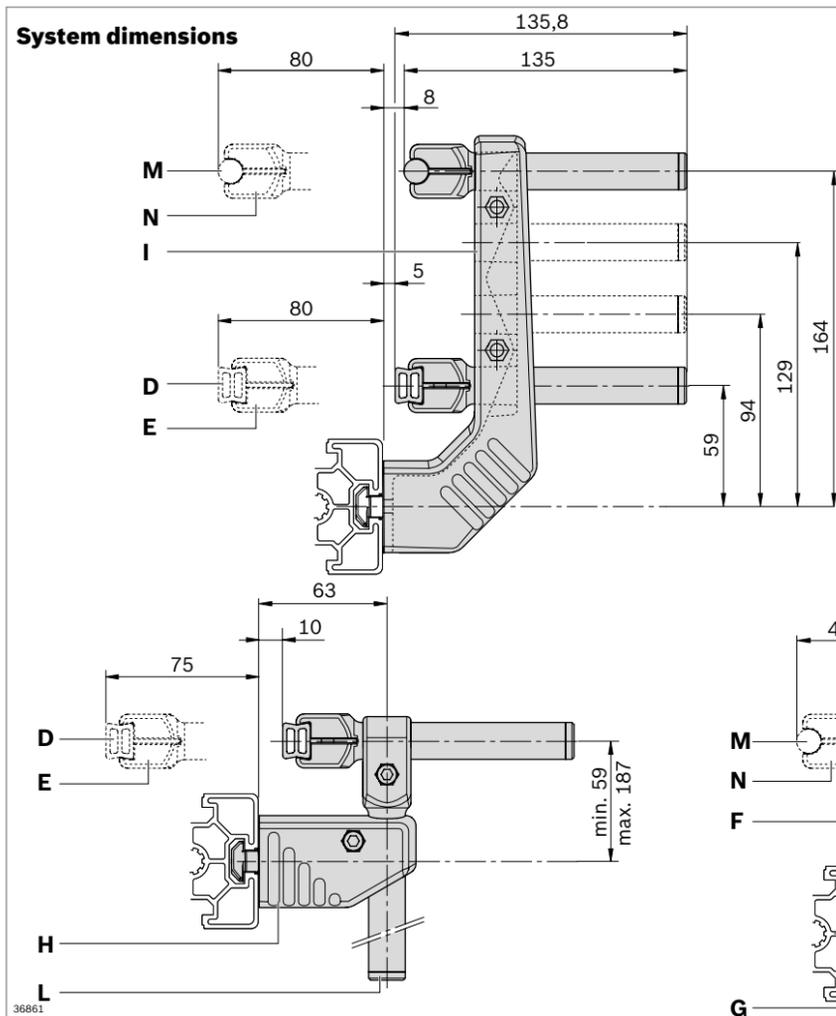
Clamping holder C L100	No.
	10 3 842 539 499

Material: Clamping holder: PA; black
Nut, screw: Steel; stainless
Accessories: Plug

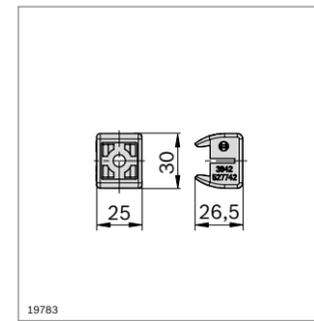
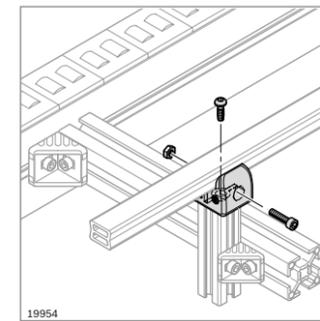
- ▶ Clamping holder D12 for accommodating D12 profile rails
- ▶ Scaling in mm and inch for simple alignment

Clamping holder D12 L100	No.
	10 3 842 539 498

Material: Clamping holder: PA; black
Nut, screw: Steel; stainless
Accessories: Plug



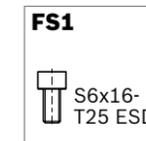
Components	Page
D Aluminum profile rail	16-3
E Clamping holder C L100	16-9
F Holder L134	16-10
G Spacer	16-11
H Holder L45	16-11
I Holder L204	16-10
L Vertical clamping holder D18 L160	16-11
M Profile rail D12	16-4
N Clamping holder D12 L100	16-9



- ▶ Clamping head for accommodating aluminum, HDPE, or stainless steel profile rails with PE guide
- ▶ Direct mounting on profiles with 10 mm slot

Clamping head	No.	FS
Set	10 3 842 528 009	FS1

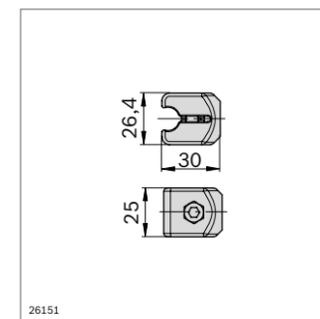
Material: Clamping holder: PA; black
Fastening material: Steel; galvanized
Scope of delivery: Incl. fastening material (FS)

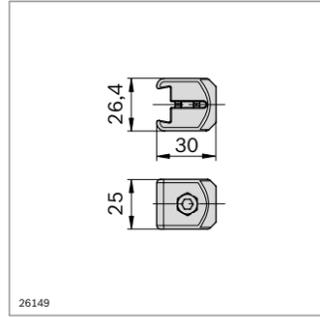


- ▶ Clamping holder D12 for accommodating D12 profile rails
- ▶ In conjunction with tube 18 for constructing longer clamping holders

Clamping holder D12	No.
	10 3 842 547 227

Material: Clamping holder: PA; black
Nut, screw: Steel; stainless
Accessories: Plug, tube D18

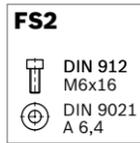
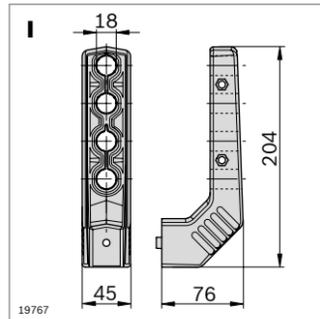




- ▶ Clamping holder C for accommodating aluminum, HDPE, or 17x17.5 profile rails
- ▶ In conjunction with tube D18 for constructing longer clamping holders

Clamping holder C	No.
	10 3 842 547 228

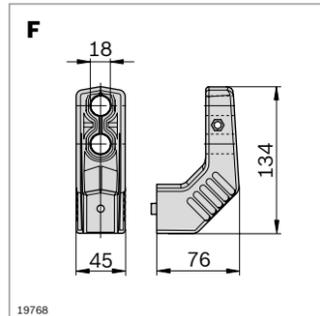
Material: Clamping holder: PA; black
Nut, screw: Steel; stainless
Accessories: Plug, tube D18



- ▶ Holder for fastening clamping holders C L100 or D12 L100
- ▶ Various installation heights possible for clamping holders
- ▶ Variable guide widths possible
- ▶ Additionally enlarge the guide width with the spacer
- ▶ Optional accessories: Clamping lever M6x40 (p. 4-13)

Holder L204	No.	FS
Set	3 842 539 494	FS2

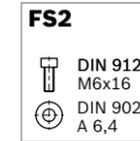
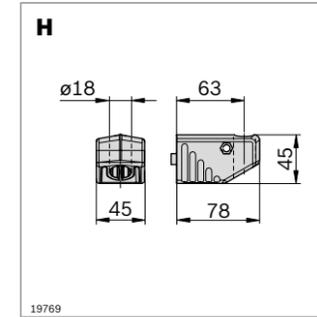
Material: PA; black
Fastening material: Steel; stainless
Scope of delivery: Incl. fastening material (FS)
Accessories: T-nut M6, 10 mm slot (p. 3-4)
Spacer



- ▶ Holder for fastening clamping holders C L100 or D12 L100
- ▶ Various installation heights possible for clamping holders
- ▶ Variable guide widths possible
- ▶ Additionally enlarge the guide width with the spacer
- ▶ Optional accessories: Clamping lever M6x40 (p. 4-13)

Holder L134	No.	FS
Set	3 842 539 495	FS2

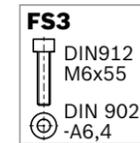
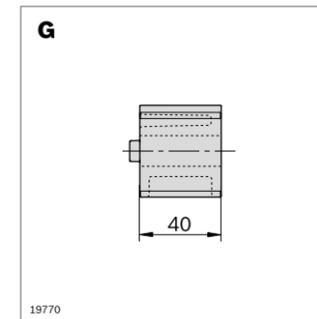
Material: PA; black
Fastening material: Steel; stainless
Scope of delivery: Incl. fastening material (FS)
Accessories: T-nut M6, 10 mm slot (p. 3-4)
Spacer



- ▶ Holder L45 for fastening vertical clamping holders or tube D18
- ▶ For infinitely height-adjustable lateral guides
- ▶ Enlarge the guide width with the spacer
- ▶ Optional accessories: Clamping lever M6x40 (p. 4-13)

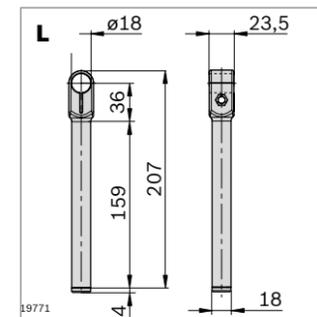
Holder L45	No.	FS
Set	10 3 842 539 496	FS2

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



Spacer	No.	FS
Set	10 3 842 539 497	FS3

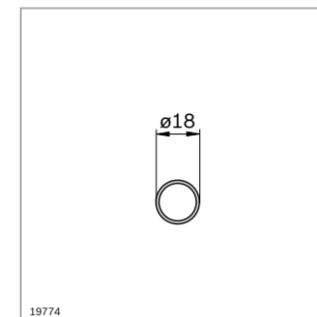
Material: PA; black
Fastening material: Steel; stainless
Scope of delivery: Incl. fastening material (FS)



- ▶ Vertical clamping holder for constructing height-adjustable guides
- ▶ Optional accessories: Clamping lever M6x40 (p. 4-13)

Vertical clamping holder D18 L160	No.
	10 3 842 539 500

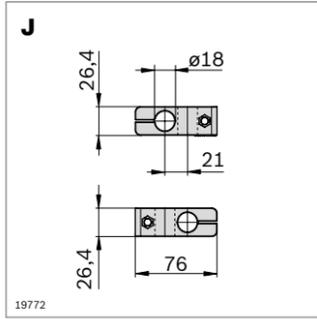
Material: PA; black
Nut, screw: Steel; stainless
Accessories: Plug



- ▶ Tube D18 for constructing height-adjustable vertical holders or cross members for upper guides

Tube D18	L (mm)	No.
	3000	3 842 539 339

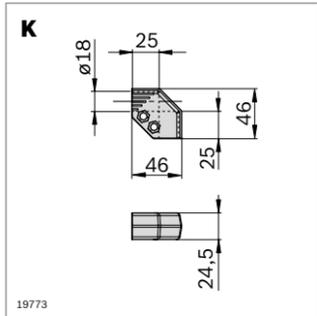
Material: Stainless steel
Accessories: Plug



- ▶ Cross piece for the intersecting, right-angled joining of tubes D18 and clamping holders C L100 or D12 L100
- ▶ Optional accessories: Clamping lever M6x40 (p. 4-13)

Cross piece	No.
	10 3 842 539 501

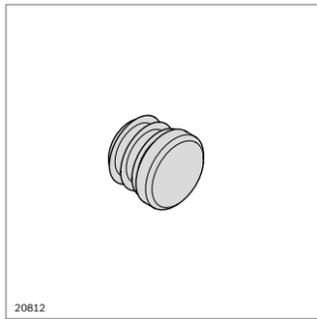
Material: Cross piece: PA; black
Nut, screw: Steel; stainless



- ▶ Corner piece for the end face, right-angled joining of tubes D18 and clamping holders C L100 or D12 L100

Corner piece	No.
	10 3 842 539 505

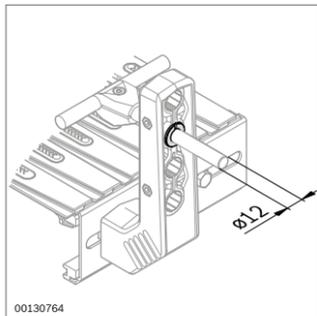
Material: Corner piece PA; black
Nut, screw: Steel; stainless



- ▶ Plug for sealing the clamping holder C L100, clamping holder D12 L100, vertical clamping holder D18 L160 or tube D18

Plug	No.
	10 3 842 539 826

Material: PE; black



- ▶ Reducing adapter for mounting round profiles $\varnothing 12$ in attachments D18

Reducing adapter	No.
	20 3 842 539 344

Material: PA; black

Components for ESD applications



Set of grounding components (p. 17-2)



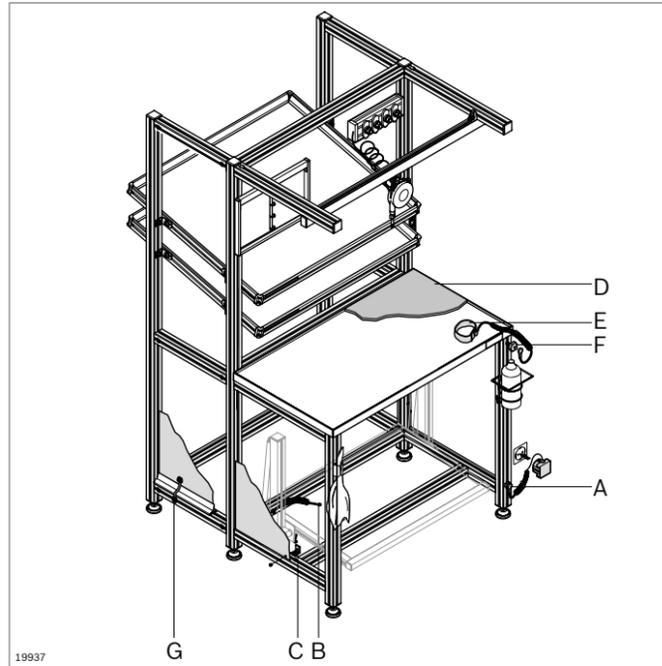
Grounding cable (p. 17-2)



Potentialfix (p. 17-3)



Wrist band, connection piece (p. 17-3)



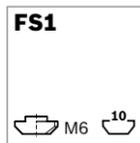
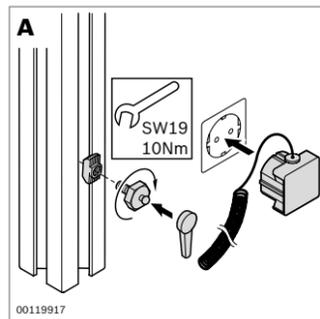
Components for ESD applications



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 (⚡).



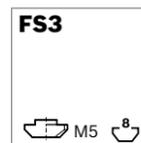
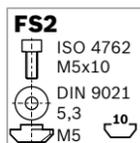
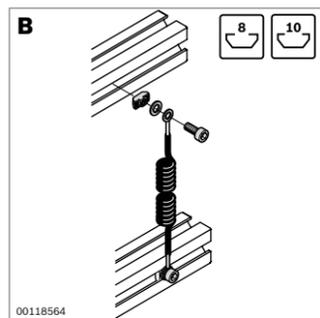
- ▶ Set of grounding components for defined grounding of ESD workstations
- ▶ Conduction resistance $R = 1 \times 10^6 \Omega$

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

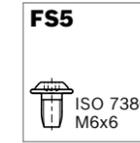
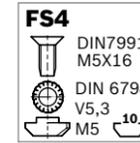
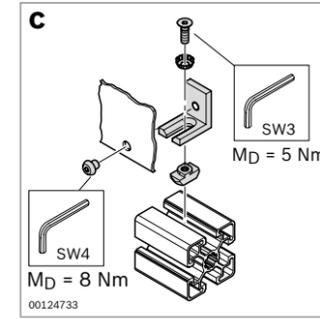
Material: Fastening material: Steel; galvanized
Scope of delivery: Incl. fastening material (FS)



- ▶ 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

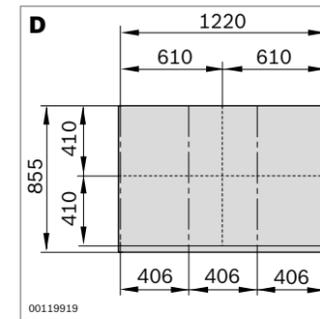
Material: Fastening material: Steel; galvanized
Scope of delivery: Incl. fastening material (FS)



- ▶ Potentialfix for defined grounding of panel elements such as side panels

Potentialfix	ESD No.	FS
C	⚡ 3 842 536 320	FS4, FS5

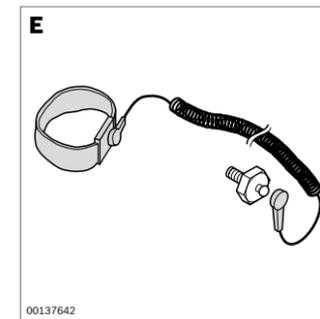
Material: Bracket: Aluminum
Fastening material: Steel; galvanized
Scope of delivery: Incl. fastening material (FS)



- ▶ 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 $R = 10^4 \dots 10^9 \Omega$

ESD mat insert	ESD No.
D 1220 mm x 855 mm	⚡ 3 842 522 012

Material: Rubber (thickness: 2 mm)



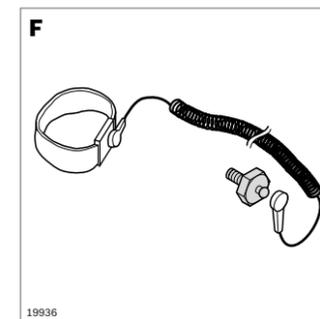
- ▶ Wrist band for defined grounding of people and protection of ESD-sensitive components

Required accessories:

- ▶ Connection piece
- ▶ T-nut M6, or swivel-in sliding block, with spring, M6

Wrist band	ESD No.
E	⚡ 3 842 516 908

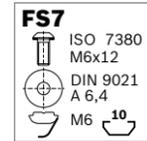
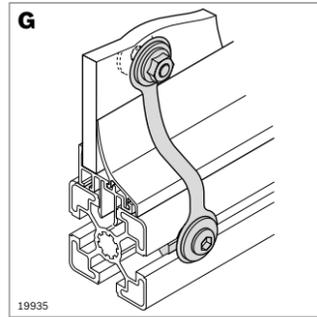
Material: Textile with woven-in conductive plastic; navy blue



- ▶ Connection piece for connecting the wrist band to the profile construction

Connection piece	ESD No.
F	⚡ 10 3 842 516 905

Material: Steel; galvanized



► Potential equalizer for creating electrostatic conduction between panel 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)

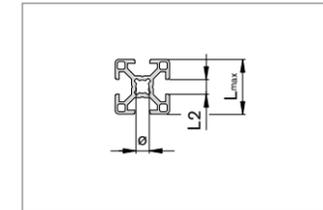
Technical data



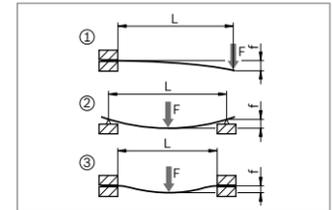
Standard profile finishing (Quick & Easy) (p. 18-2)



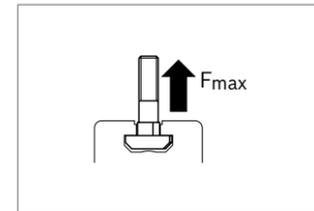
Individual profile finishing (Quick & Easy) (p. 18-7)



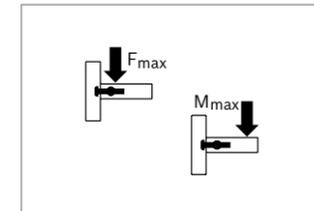
Technical data for strut profiles (p. 18-12)



Profile deflection (p. 18-14)



Profile slot load-bearing capacity (p. 18-15)



Load-bearing capacity of profile connection (p. 18-16)



Load-bearing capacity data for EcoSafe protective frame and EcoSafe support (p. 18-21)

Standard profile finishing (Quick & Easy)

Standard profile finishing is used for Rexroth connection technology and attachment of accessories:

- ▶ Central bolt (corner connection)
- ▶ Quick connector
- ▶ Bolt connector
- ▶ Cross connector
- ▶ Feet and wheels

It offers decisive advantages:

- ▶ One general material number for all finishing processes at profile cross-sections
- ▶ Available for all profiles
- ▶ Any combinations possible
- ▶ Drilling of blind holes possible

This opens up completely new possibilities!

The order key has a simple structure:

There are fixed specifications for the parameters for exact finishing of each profile. See table.

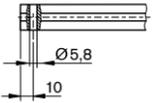
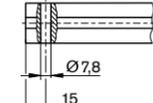
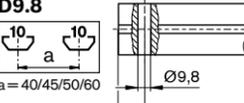
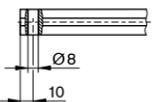
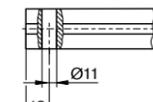
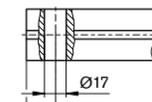
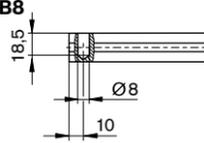
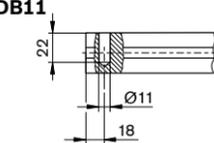
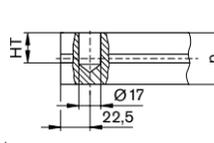
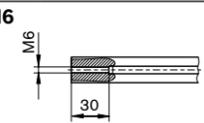
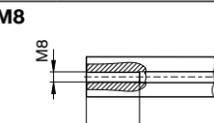
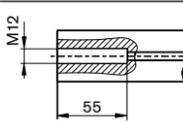
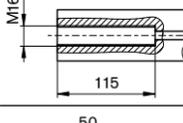
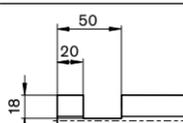
For information on slot designations and available standard profile finishing, please refer to chapter 2.

Order key for through-holes, blind holes, standard milling:

Material number / length / slot designation = finishing at profile start / finishing at profile end; ...

Order key for threads:

Material number / length / Z = Mx at profile start / Mx at profile end

Standard profile finishing			
Through-hole for corner connections with central bolt			
Through-hole for bolt connectors and quick connectors			
Blind hole For longitudinal end connectors and quick connectors in closed profiles			
Threads in all core holes for accessories			
			
Standard milling for cross connectors			



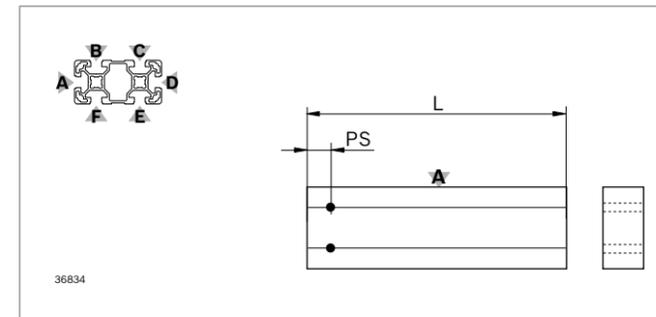
Through-hole Dx

Use:

- ▶ **D5.8; D7.8; D9.8** for corner connections with central bolt
- ▶ **D8; D11; D17** for bolt connectors and quick connectors

Fixed specifications:

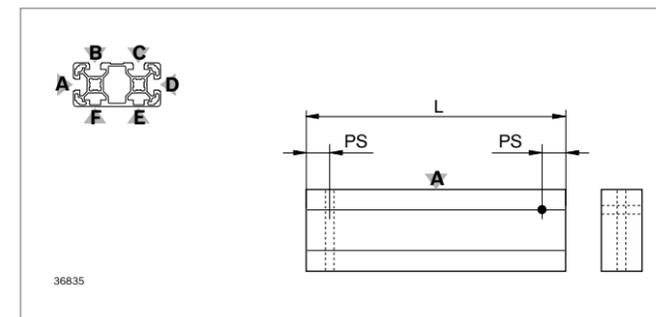
Distance from profile end (PS)



Example:

3 842 993 728 / 255 / B=D17/-; C=D17/-

Profile 40x80L / L = 255 mm /
Slot B: Through-hole D17 at profile start / without finishing at profile end;
Slot C: Through-hole D17 at profile start / without finishing at profile end
Fixed: PS = 22.5 mm (p. 18-2)

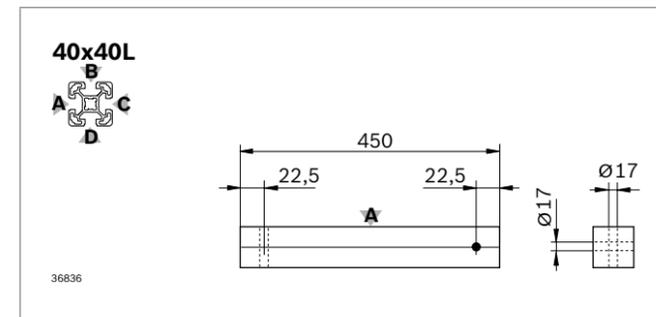


Example:

3 842 993 729 / 255 / B=-/D17; D=D17/-

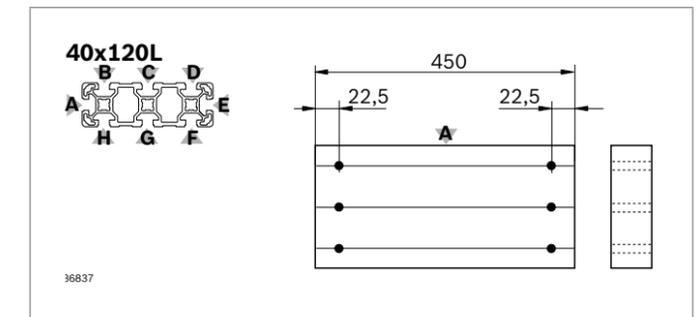
Profile 40x80L 4N / L = 255 mm /
Slot B: Without finishing at profile start / Through-hole D17 at profile end;
Slot D: Through-hole D17 at profile start / without finishing at profile end
Fixed: PS = 22.5 mm (p. 18-2)

Other examples



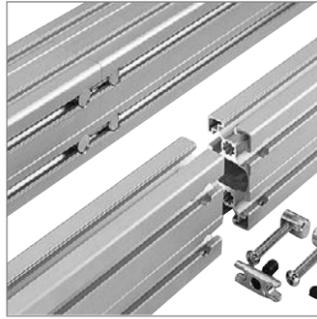
Example:

3 842 993 724 / 450 / A=D17/-; B=-/D17



Example:

3 842 993 716 / 450 / B=D17/D17; C=D17/D17; D=D17/D17



Blind hole DBx

Use:
DB8; DB11; DB17 for quick connectors in closed profiles and longitudinal end connectors

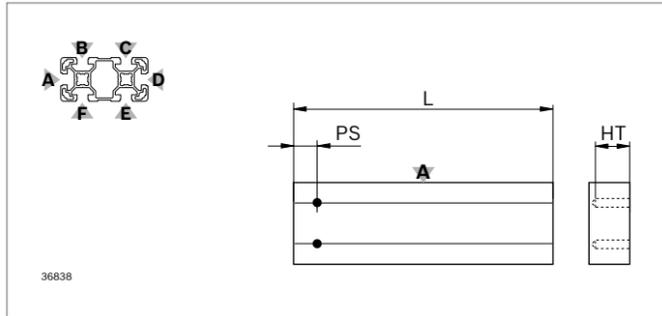
Advantages:
 In case of closed slots, the profile surface is not broken.

Fixed specifications:

- ▶ Distance from profile end (PS)
- ▶ Depth of blind hole (HT)

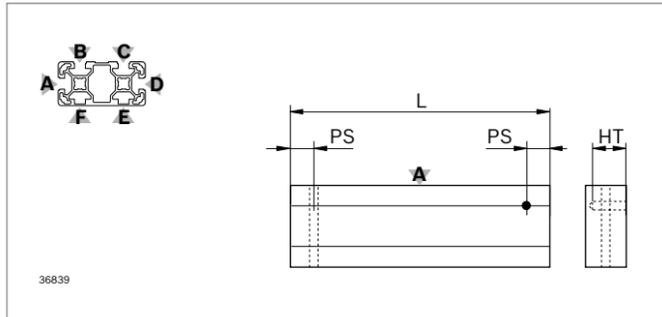
Example:
3 842 993 728 / 255 / B=DB17/-; C=DB17/-

Profile 40x80L / L = 255 mm /
 Slot B: Blind hole DB17 at profile start /
 without finishing at profile end;
 Slot C: Blind hole DB17 at profile start /
 without finishing at profile end
 Fixed: PS = 22.5 mm, HT = 34 mm (p. 18-2)



Example:
3 842 993 729 / 255 / B=-/DB17; D=D17/-

Profile 40x80L 4N / L = 255 mm /
 Slot B: Without finishing at profile start /
 Blind hole DB17 at profile end;
 Slot D: Through-hole D17 at profile start /
 without finishing at profile end
 Fixed: PS = 22.5 mm, HT = 34 mm (p. 18-2)



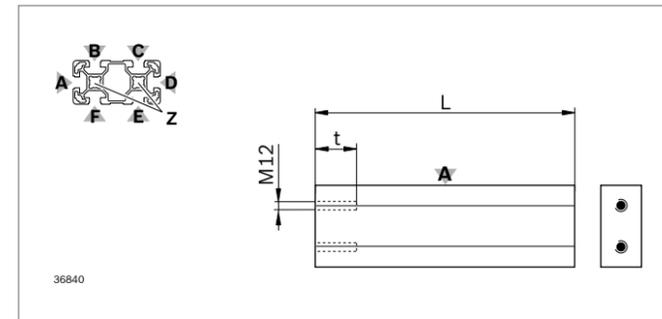
Thread Mx

Use:
M6; M8; M12; M16 in all core holes of the profile, e.g. for screw fitting of feet and wheels

Fixed specifications:
 Thread depth

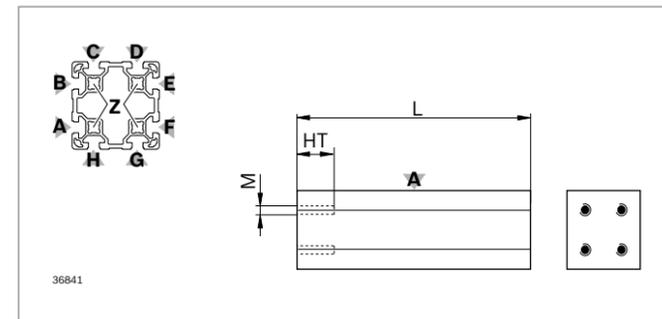
Example:
3 842 993 728 / 255 / Z=M12/-

Profile 40x80L / L = 255 mm /
 Thread M12 in all core holes at profile start /
 no finishing at profile end
 Fixed: Thread depth HT = 55 mm (p. 18-2)

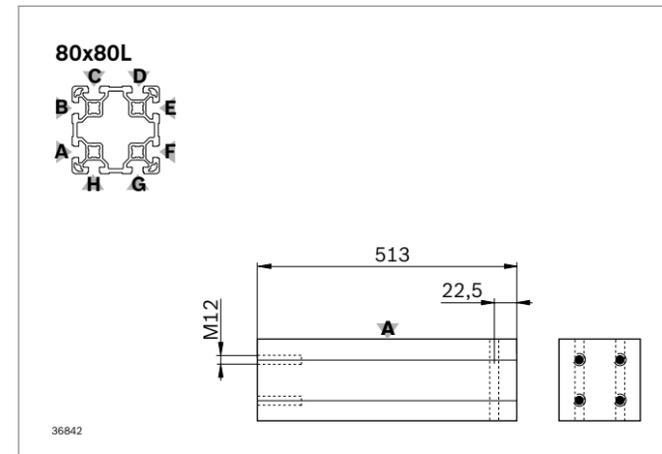


Example:
3 842 993 674 / 255 / Z=M12/-

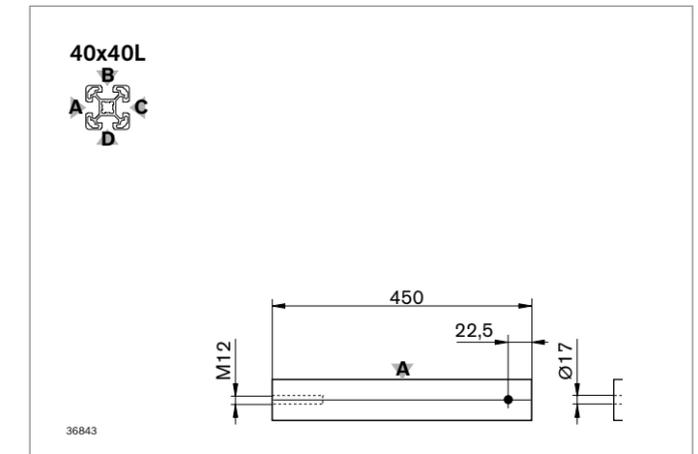
Profile 80x80L / L = 255 mm /
 Thread M12 in all core holes at profile start /
 no finishing at profile end
 Fixed: Thread depth HT = 55 mm (p. 18-2)



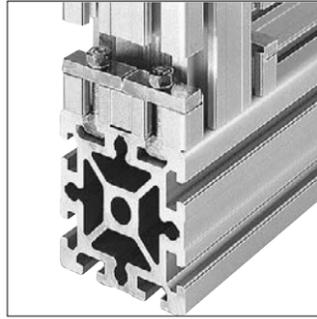
Other examples



Example:
3 842 993 674 / 513 / Z=M12/-; A=-/D17; B=-/D17



Example:
3 842 993 724 / 450 / Z=M12/-; B=-/D17



Standard milling F1

Use:
F1 for cross connectors

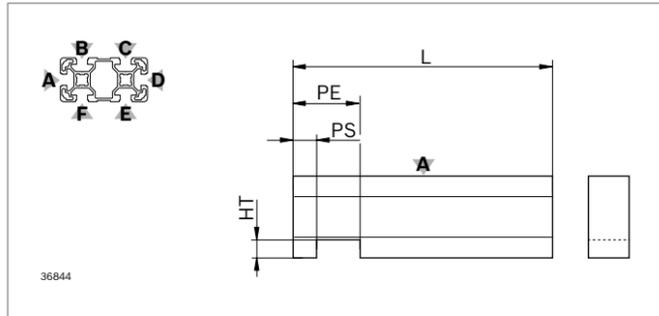
Fixed specifications:

- ▶ Start point of milling (PS)
- ▶ End point of milling (PE)
- ▶ Depth of milling (HT)

Example:

3 842 993 728 / 383 / D=F1/-

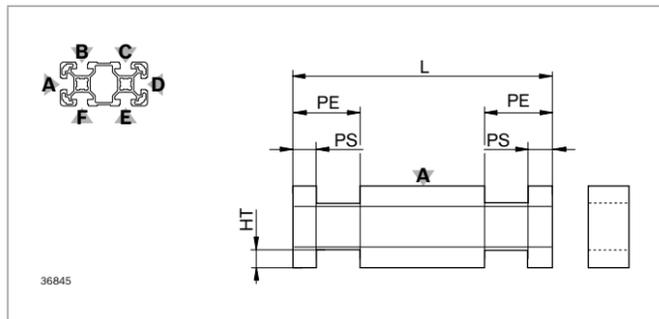
Profile 40x80L / L = 383 mm /
Slot D: Cross milling at profile start /
without finishing at profile end
Fixed: PS = 20 mm; PE = 50 mm; HT = 18 mm (p. 18-2)



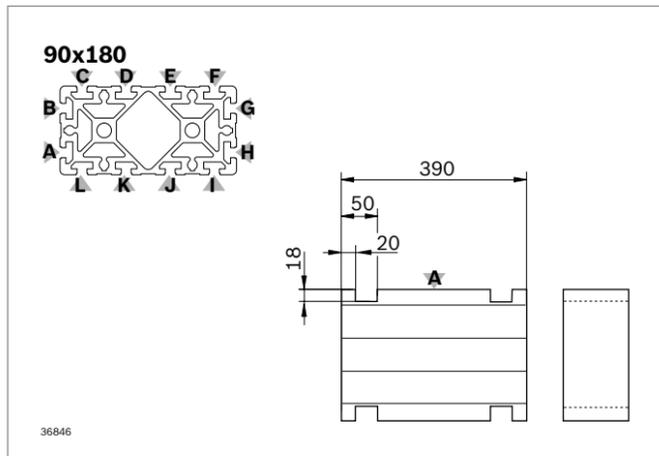
Example:

3 842 993 729 / 383 / A=F1/F1; D=F1/F1

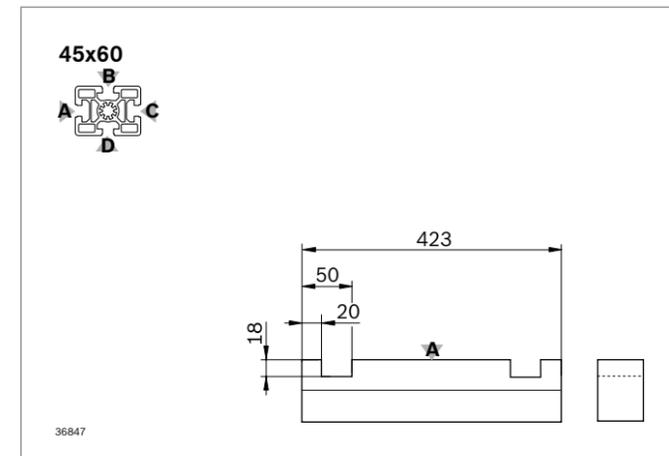
Profile 40x80L 4N / L = 383 mm /
Slot A: Cross milling at profile start / cross milling at profile end
Slot D: Cross milling at profile start / cross milling at profile end
Fixed: PS = 20 mm; PE = 50 mm; HT = 18 mm (p. 18-2)



Other examples



Example:
3 842 993 676 / 390 / A=F1/F1; G=F1/F1



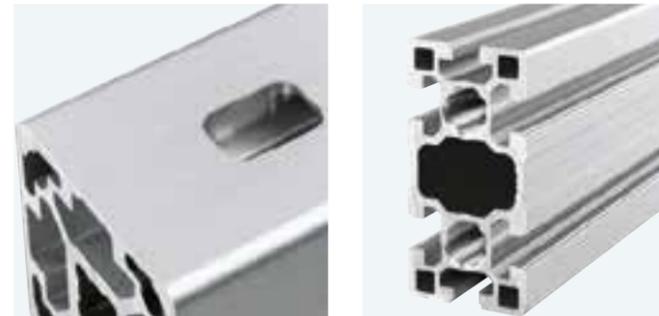
Example:
3 842 993 743 / 423 / A=F1/F1

Individual profile finishing (Quick & Easy)



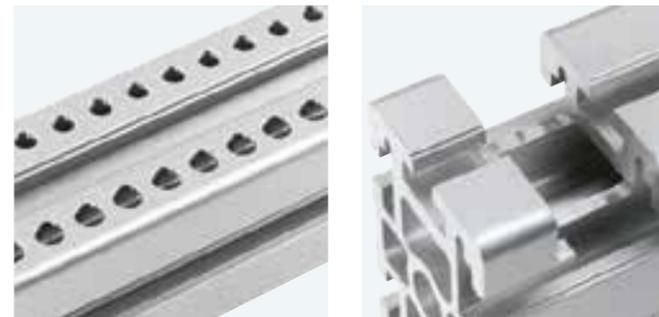
With individual profile finishing, Quick & Easy offers the following advantages:

- ▶ Precise finishing at virtually every point along the profile
- ▶ Maximum variance of available finishing procedures
- ▶ Available for numerous profiles
- ▶ Finishing possible in almost any combination including sequential finishing
- ▶ Variable finishing options from one source



The following finishing options are available:

- ▶ Through-hole
- ▶ Blind holes
- ▶ Stepped drilling
- ▶ Cross milling (transversely to the longitudinal axis)
- ▶ Lengthwise milling (in longitudinal axis)
- ▶ Miter cuts



Notice:

Depending on the selected finishing options, minimum and maximum lengths must be observed when ordering.

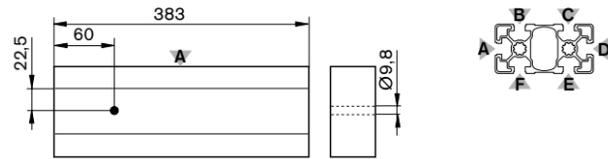




Order examples for profile 45x90, L = 383 mm

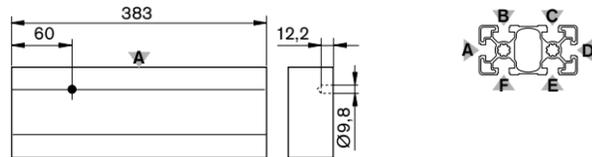
DI Through-hole next to the slot

3 842 993 661 / 383 / [B=DI; PS=60; OS=22.5; DM=9.8]



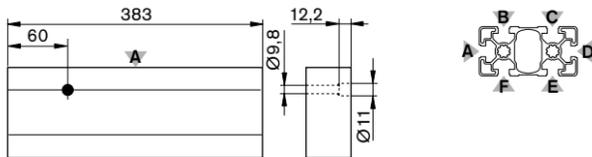
Blind hole

3 842 993 661 / 383 / [B=DI; PS=60; DM=9.8; HT=12.2]



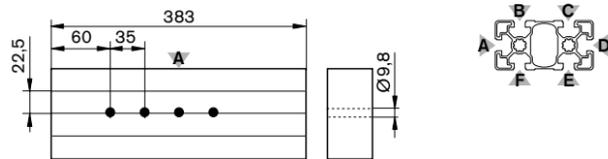
Stepped drilling

3 842 993 661 / 383 / [B=DI; PS=60; DM=11.0; HT=12.2];
[B=DI; PS=60; DM=9.8]



DIS Sequence of through-holes

3 842 993 661 / 383 / [B=DIS; PS=60; OS=22.5; DM=9.8; SN=4; SD=35]



Drill hole

Drill hole DI

- ▶ Through-hole with diameter (**DM**) at any points of the profile (**PS, OS**). Please note the information on OS in the table.
- ▶ Blind hole by additional specification of drilling depth (**HT**)
- ▶ Stepped drilling by two drill holes at the same position of the profile
- ▶ Observe required minimum wall thickness (PS_{min}, PS_{max})!

Drilling sequence DIS

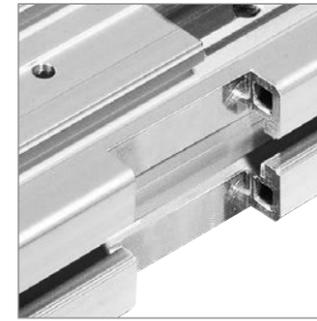
- ▶ Regular sequence of identical drilling (**SN, SD**)
- ▶ Observe required minimum wall thickness (SD_{min})!

End finishing	Abbreviation	Parameter
Drill hole	DI	Center point of hole $PS_{min} = DM/2 + 3 \text{ mm};$ $PS_{max} = L - (DM/2 + 3 \text{ mm})$
	OS (optional)	Offset starting point Select OS so that the hole does not cut through any slot edges
	DM	Hole diameter DM, see table
	HT (optional)	Depth of drilling. Through-holes made if no information provided. HT_{max} , see table
Drilling sequence	DIS	As for drill hole DI
	PS, OS, DM, HT	
	SN	Number of finishes $SN_{max} = \text{INT}((L - 3 - PS - DM/2)/SD) + 1$
	SD	Distance between adjacent finishes $SD_{min} = DM + 3$

Admissible drilling diameters and 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

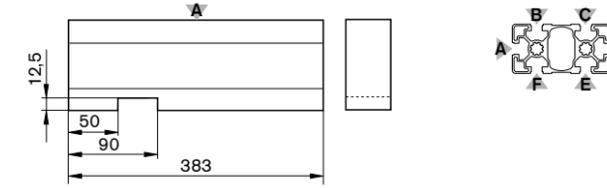
ATTENTION: If HT_{max} is not sufficient to drill through the profile, you must order two opposite bores!



Order examples for profile 45x90, L = 383 mm

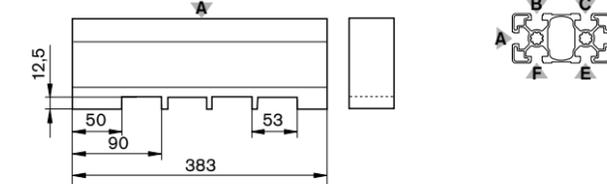
MT Cross milling on profile side slot D

3 842 993 661 / 383 / [D=MT; PS=50; HT=12.5; PE=90]



MTS Cross milling sequence on profile side slot D

3 842 993 661 / 383 / [D=MTS; PS=50; HT=12.5; PE=90; SN=4; SD=53]



Cross milling

Cross milling MT

- ▶ Cross milling at any point of the profile (slot designation **PS**) with variable depth (**HT**) and length (**PE - PS**); the width corresponds to the profile width.
- ▶ Observe required minimum wall thickness (PS_{min}, PS_{max})!

Cross milling sequence MTS

- ▶ Regular sequence of identical cross milling (**SN, SD**)
- ▶ Observe required minimum wall thickness (SD_{min})!

End finishing	Abbreviation	Parameter
Cross milling	MT	Starting point of milling (Profile cut surface distance - Cross milling leading edge) $PS_{min} = 8 \text{ mm}$ $PS_{min} = 60 \text{ mm}$ 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	Starting point of milling (Profile cut surface distance - Cross milling trailing edge) $PE_{max} = L - 8 \text{ mm}$ $8 \text{ mm} \leq PE - PS \leq 100 \text{ mm}$
	MTS	As for cross milling MT
Cross milling sequence	MTS	As for cross milling MT
	PS, HT, PE	
	SN	Number of finishes $SN_{max} = \text{INT}((L - 8 - PE)/SD) + 1$
	SD	Distance between adjacent finishes $SD_{min} = (PE - PS) + 10$

Order key:

Material number / length / [slot designation=DI; PS=...; OS=...; DM=...; HT=...]; [...]

Material number / length / [slot designation=DIS; PS=...; OS=...; DM=...; HT=...; SN=...; SD=...]; [...]

Order key:

Material number / length / [slot designation=MT; PS=...; HT=...; PE=...]; [...]

Material number / length / [slot designation=MTS; PS=...; HT=...; PE=...; SN=...; SD=...]; [...]



Lengthwise milling

Lengthwise milling MI

- ▶ Lengthwise milling at any point of the profile (slot designation **PS, OS**) with variable depth (**HT**), width (**DM**) and length (**PE - PS**). The milling corner radius is defined by the radius of the milling tool (**RG**).
- ▶ Observe required minimum distances (PS_{min} , PS_{max} , DM_{max})!

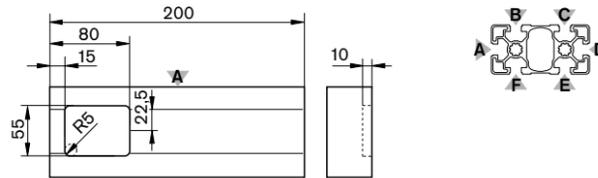
Lengthwise milling sequence MIS

- ▶ Regular sequence of identical lengthwise milling (**SN, SD**)
- ▶ Observe required minimum wall thickness! (SD_{min})

Order examples for profile 45x90, L = 200 mm

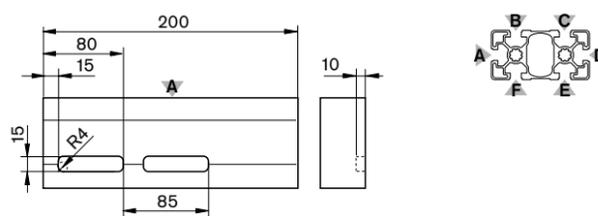
MI Lengthwise milling

3 842 993 661 / 200 / [B=MI; PS=15; OS=22.5; DM=55; HT=10; PE=80; RG=5]

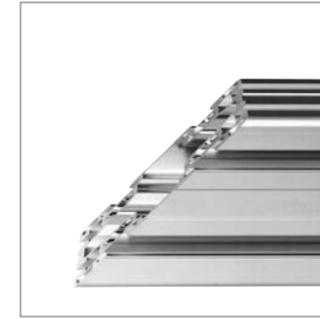


MIS Sequence of lengthwise milling

3 842 993 661 / 200 / [C=MIS; PS=15; DM=15; HT=10; PE=80; RG=4; SN=2; SD=85]



End finishing	Abbreviation	Parameter		
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 mm; 4 mm; 5 mm; 8 mm		
		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 $SD_{min} = (PE - PS) + 10$



Miter cut

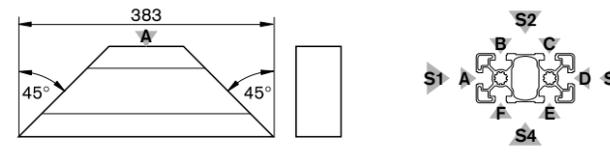
Miter cut

- ▶ Cutting of profiles at any angle
- ▶ Profile sides are numbered in clockwise direction. S1 is the left profile side according to the illustrated position on the ordered side; the following sides are designated with S2, S3 and S4.
- ▶ Miter cut is started at the indicated side. Possible sides: S1 and S3.
- ▶ Observe the maximum admissible miter bracket and minimum length

Order examples for profile 45x90, L = 383 mm

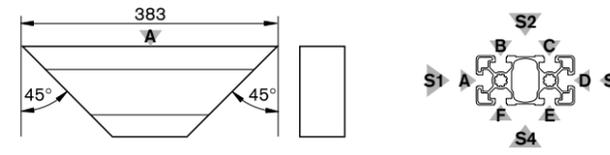
MT Miter cut on both sides through side S3 (side with slot D)

3 842 993 661 / 383 / [FS=S3; DG=45]; [BS=S3; DG=45]



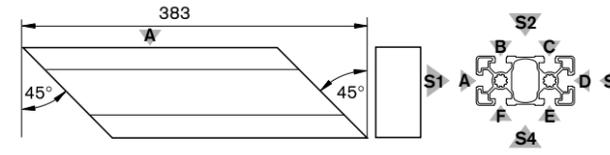
Miter cut on both sides through side S1 (side with slot A)

3 842 993 661 / 383 / [FS=S1; DG=45]; [BS=S1; DG=45]



Miter cut on through side S1 (FS) and S3 (BS)

3 842 993 661 / 383 / [FS=S1; DG=45]; [BS=S3; DG=45]



End finishing	Abbreviation	Parameter
Miter cut	-	FS Front side: Designation of the profile end the miter cut is to be performed at S1, S3: Profile side on which the miter cut begins $FS = S1; FS = S3$
		BS Back side: Opposite profile end S1, S3: Profile side on which the miter cut begins $BS = S1; BS = S3$
		DG Miter bracket $DG > 0$ The angle is always specified as a positive value; orientation results from FS/BS and the side on which the miter cut begins. Note the maximum permissible miter angle.

Order key:

Material number / length / [slot designation=MI; PS=...; OS=...; DM=...; HT=...; PE=...; RG=R..]; [...]

Material number / length / [slot designation=MIS; PS=...; OS=...; DM=...; HT=...; PE=...; RG=R..; SN=...; SD=...]; [...]

Order key:

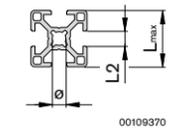
Material number / length / [FS=side; DG=miter angle]; [BS=side; DG=miter angle]

Technical data for strut profiles

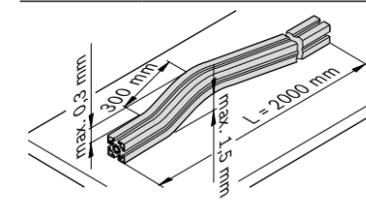
EN AW – Al MgSi	Material designation according to DIN EN 573 for Rexroth strut profiles
EN AW – 6060	Material number according to DIN EN 573
R_m = 245 N/mm ²	Minimum tensile strength (in direction of pressure)
$R_{p0.2}$ = 195 N/mm ²	0.2 % proof stress (in direction of pressure)
A_5 = 10 % A_{10} = 8 %	Ductile yield A_5 or A_{10}
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 $\alpha_{(+20...100\text{ °C})}$ = 23.4 x 10 ⁻⁶ 1/K	Longitudinal expansion coefficient

μ = 0.34	Poisson's ratio
E6/EV1 – 12 μ m – 300 HV	Anodizing process – layer thickness – layer hardness

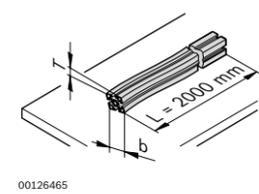
Permitted dimensional tolerance t (mm) for profiles from different deliveries				
L_{max}	11–20	22,5–30	40	45–60
t	±0.15	±0.2	+0.6	±0.3
L_{max}	80	90	120	160
t	+0.8	±0.4	+1.0	+1.6
L_{max}	180	270	360	
t	±0.6	±1.0	±1.5	
L_2	6	8	10	
t	+0.3	+0.3	+0.4	
\emptyset	5.5	7.3	10	15
t	-0.1	-0.1	±0.15	±0.15
	+0.2	+0.2		



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

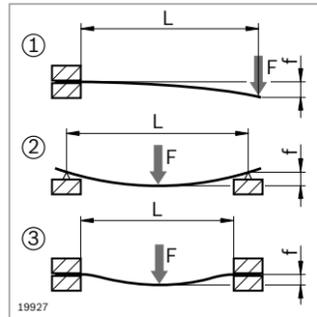


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Longitudinal torsional tolerance of profile

b (mm)	T (mm)
≤ 100	1.2
100 ... 150	1.5
150 ... 200	1.8
200 ... 350	2.5

Profile deflection



Profile deflection due to force F for static load cases ①②③

$$f_{①} = \frac{F \times L^3}{3 E \times I \times 10^4}$$

$$f_{②} = \frac{F \times L^3}{48 E \times I \times 10^4}$$

$$f_{③} = \frac{F \times L^3}{192 E \times I \times 10^4}$$

Profile deflection due to the profile's own weight

$$f_{①} = \frac{m' \times g \times L^4}{8 E \times I \times 10^4}$$

$$f_{②} = \frac{5 \times m' \times g \times L^4}{384 E \times I \times 10^4}$$

$$f_{③} = \frac{m' \times g \times L^4}{384 E \times I \times 10^4}$$

Control of max. occurring bending stress $\sigma_{b \max}$

$$\sigma_{①} = \frac{(m' \times g \times L + F) \times L}{W \times 10^3}$$

$$\sigma_{②} = \frac{(m' \times g \times L + F) \times L}{4 W \times 10^3}$$

$$\sigma_{③} = \frac{(m' \times g \times L + F) \times L}{8 W \times 10^3}$$

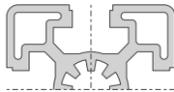
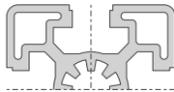
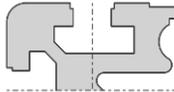
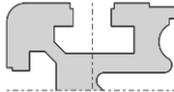
$\sigma_{b \max} < \sigma_{b \text{ zul.}}$ $S_{F \text{ req}}$: Safety value required to avoid deformation (flow)

$\sigma_{b \text{ zul.}} = \frac{R_{p0,2}}{S_{F \text{ erf.}}}$ $\sigma_{b \text{ zul.}}$: Max. permissible bending stress

f (mm)	W (cm ³)
F (N)	E = 70000 N/mm ²
L (mm)	m' (kg/mm); m' = m/1000; m (p. 2-3 ... 2-6)
I (cm ⁴)	g = 9.81 m/s ² ≈ 10 m/s ²

Profile slot load-bearing capacity

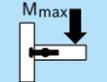
Static load limit values of slot (beginning of plastic deformation) **for connectors with the largest thread in each case**

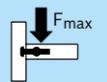
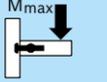
							
			T-bolt	T-nut	Central bolt	Swivel-in sliding block	Sliding block
		20x20, 20x20R 10x40 20x40, 20x60 20x40x40	1700 N	1700 N	2000 N	—	3000 N
		30x30, 30x30R 30x30°, 30x45°, 30x60° 11x20, 15x120 30x45, 30x60, 30x60x60 30x90, 30x120	4000 N	4000 N	5000 N	2200 N	6000 N
		90x90SL 40x40L, 40x40L R 40x30°, 40x45°, 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

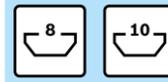
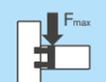
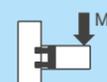
Load-bearing capacity of profile connection

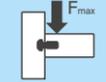
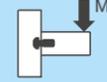
The specified tightening and loading limit values were determined as an example in (dry) trials. Safety factors and building regulations in accordance with the law and accepted engineering practices must be observed.

Static load limit values of the connection (beginning of plastic deformation)

	D	Slot	 		
			Tightening	Force	Moment
 Quick connector (p. 3-54)	8	6 / 6	2.5 Nm	450 N	18 Nm
	11	8 / 8	12 Nm	500 N	40 Nm
	11	8 / 10	12 Nm	2000 N	70 Nm
	17	10 / 10	25 Nm	4000 N	140 Nm
	9.8	10 / 10	6 Nm	800 N	50 Nm

	Slot	    						
		Tightening	Force	Moment	Force	Moment		
 Quick connector, bendable (p. 3-57)	30x30	8	12 Nm	1100 N	35 Nm	24 Nm	650 N	40 Nm
	40x40L	10	25 Nm	1500 N	110 Nm	100 Nm	1000 N	80 Nm
	45x45L	10	25 Nm	1500 N	120 Nm	110 Nm	1000 N	95 Nm
	45x45	10	25 Nm	1500 N	140 Nm	145 Nm	1100 N	180 Nm
	50x50L	10	25 Nm	1500 N	150 Nm	160 Nm	1100 N	180 Nm

	Slot	  				
		Tightening	Force	Moment	Force	Moment
 Bolt connector (p. 3-60)	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
	ø28, L=22.5	10	25 Nm	2000 N	-	-

	Slot	 			
		Tightening	Force	Moment	
 Central bolt (p. 3-41)	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

		Slot						
		6	8	10				
	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	45x45L	10	↻	35 Nm	150 Nm		
		45x45				200 Nm		
	45/3	45x45L	10	↻	35 Nm		170 Nm	
		45x45					240 Nm	
Cubic connector (p. 3-43)	50/2	10	↻	35 Nm	120 Nm			
	50/3	10	↻	35 Nm		140 Nm		

		Profile		Slot						
		8	10							
	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...	60x...	10	↻	25 Nm (M8) 5 Nm (M5)	3500 N	110 Nm	30 Nm		
			10	↻	15 Nm	3500 N	195 Nm	60 Nm		
Tensioning connector (p. 3-12)										

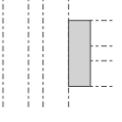
		Slot							
		8	10						
	Slot connector (p. 3-13)	8 / 8	↻	2.5 Nm (M4) 10 Nm (M8)	1000 N	35 Nm	15 Nm		
		8 / 10	↻	2.5 Nm (M4) 10 Nm (M8)	1000 N	35 Nm	15 Nm		
		10 / 10	↻	7 Nm (M6) 12 Nm (M10)	3000 N	110 Nm	30 Nm		

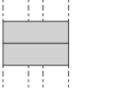
		Slot					
		8	10				
	Inner bracket (p. 3-14)	8 / 8	↻	12 Nm	2200 N	50 Nm	
		10 / 10	↻	15 Nm	2800 N	100 Nm	

		Slot					
		6	8	10			
	Inner bracket R (p. 3-15)	6 / 6	↻	3 Nm	600 N	10 Nm	
		8 / 8	↻	12 Nm	2500 N	50 Nm	
		10 / 10	↻	15 Nm	3000 N	100 Nm	

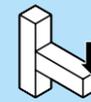
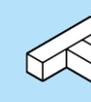
		Slot							
		6	8	10					
	Bracket (p. 3-18)	20/20	6	↻	3 Nm	700 N	6 Nm	25 Nm	-
		20/40	6	↻	3 Nm	1400 N	15 Nm	50 Nm	8 Nm
		30/30	8	↻	10 Nm	1250 N	25 Nm	75 Nm	-
		30/60	8	↻	10 Nm	2500 N	100 Nm	170 Nm	25 Nm
		30/120	8	↻	10 Nm	3750 N	100 Nm		47 Nm
		60/60-8	8	↻	10 Nm	5000 N	320 Nm	370 Nm	110 Nm
		60/60-10	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

		Slot							
		6	8	10					
	Bracket S (p. 7-8)	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	

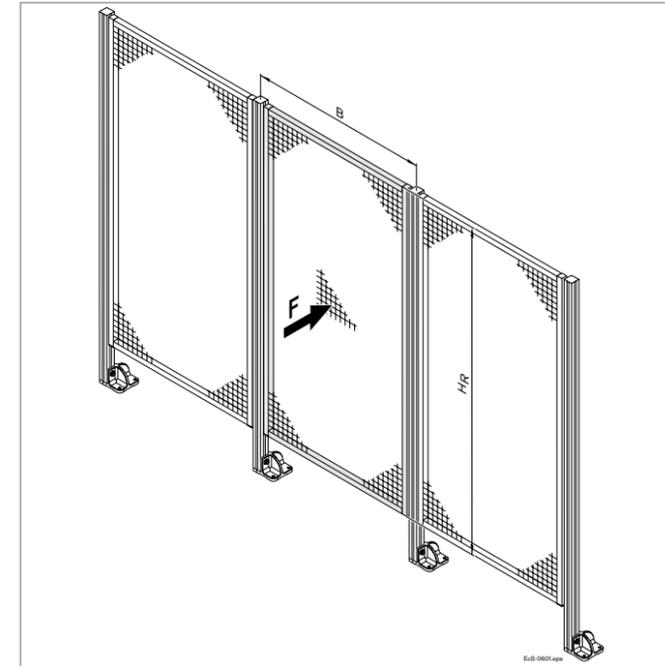
Slot			
			
	30x30	8	25 Nm (M8) / 5 Nm (M5)
	40x40	10	35 Nm (S12) / 10 Nm (M6)
	45x45	10	35 Nm (S12) / 10 Nm (M6)
	50x50	10	35 Nm (S12) / 10 Nm (M6)
T-connector (p. 3-51)			

Slot		
		
	30x30	8
	40x40	10
	45x45	10
	50x50	10
End connector (p. 3-49)		

Profile connection load-bearing capacity with radial compensation (p. 2-85)

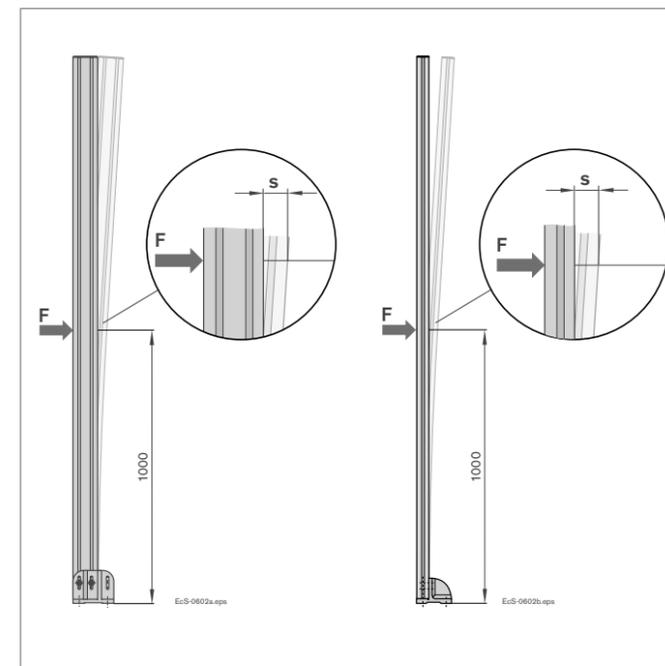
Slot				
	30x30	S8	8	25 Nm
			8 / 8	12 Nm
	40x40	M12 S12	10	30 Nm
			10 / 10	22 Nm
	45x45	S12 M12	10	35 Nm
			10 / 10	25 Nm

Load-bearing capacity data for EcoSafe protective frame and EcoSafe support



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	2-81, 12-2	3 842 514 929	3-7	3 842 522 303	6-5	3 842 523 920	3-6
1 845 719 000	2-87	3 842 514 930	3-7	3 842 522 345	10-9	3 842 523 921	3-6
3 842 071 941	12-38	3 842 514 931	3-7, 12-7	3 842 522 475	10-20	3 842 523 922	3-6
3 842 146 813	3-33	3 842 515 244	7-13	3 842 522 476	10-20	3 842 523 925	3-6
3 842 146 815	3-34	3 842 515 366	6-19	3 842 522 477	10-20	3 842 524 012	3-5
3 842 146 848	3-34	3 842 515 367	6-19	3 842 522 479	8-12	3 842 524 025	7-5
3 842 146 877	13-7, 13-8, 13-17, 13-18, 13-31, 13-32	3 842 515 457	6-16	3 842 522 481	10-10	3 842 524 027	7-5
		3 842 515 459	6-16	3 842 523 014	11-2	3 842 524 058	2-55
3 842 146 920	11-11	3 842 515 473	3-30	3 842 523 092	5-4	3 842 524 061	2-55
3 842 146 972	3-62	3 842 515 531	10-22	3 842 523 093	5-6	3 842 524 064	2-55
3 842 184 738	2-80, 7-6	3 842 515 547	3-30	3 842 523 094	5-6	3 842 524 067	2-55
3 842 191 175	3-50	3 842 515 863	10-22	3 842 523 097	5-3	3 842 524 153	2-65, 12-5
3 842 191 182	2-84	3 842 516 175	6-10	3 842 523 098	5-3	3 842 524 163	10-14
3 842 191 194	8-31	3 842 516 598	8-26	3 842 523 102	5-6	3 842 524 164	10-14
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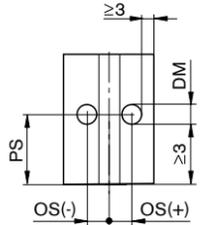
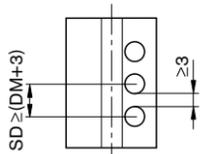
Notes

Easy configuration in the eShop or with MTpro
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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
Drill hole DI 	PS	Center point of hole $PS_{min} = DM/2 + 3 \text{ mm};$ $PS_{max} = L - (DM/2 + 3 \text{ mm})$
	OS	Offset starting 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 drilling (optional) Through-holes made if no information provided. HT_{max} see table
Drilling sequence DIS 	PS, OS, DM, HT	As for drill hole DI
	SN	Number of finishes $SN_{max} = INT((L - 3 \cdot PS - DM/2) / SD) + 1$
	SD	Distance between adjacent finishes $SD_{min} = DM + 3$
		3 842 993 662 / 393 / [B=DI; PS=60; OS=22.5; DM=9.8]
		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)

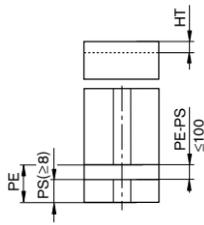
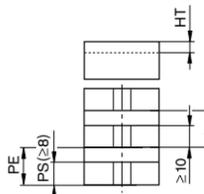
DM	5.8	6.4	7.8	8.0	8.4	9.8	11.0	17.0
HT_{max}	40.0	45.0	45.0	45.0	45.0	50.0	60.0	75.0

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=...]; [...]

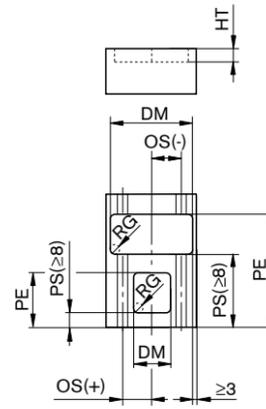
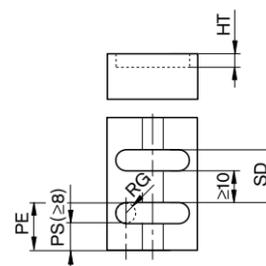
Material number / length / [slot designation=MTS; PS=...; HT=...; PE=...; SN=...; SD=...]; [...]

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 $SN_{max} = INT((L - 8 \cdot PE) / SD) + 1$
	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

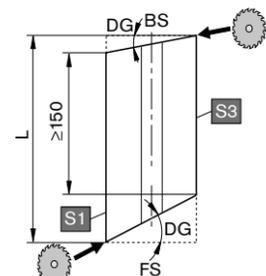
Material number / length / [slot designation=MI; PS=...; OS=...; DM=...; HT=...; PE=...; RG=...]; [...]

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 $RG = 3 \text{ mm}; 4 \text{ mm}; 5 \text{ mm}; 8 \text{ mm}$
Lengthwise milling sequence MIS 	PS, OS, DM, HT, PE, RG	As for lengthwise milling MI
	SN	Number of finishes $SN_{max} = INT(L - 8 \cdot PE / SD) + 1$
	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 cut

Material number / length / [FS=side; DG=miter angle]; [BS=side; DG=miter angle]

End finishing	Parameter	Order example for profile 45x90L
Miter cut 	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]

Easy configuration in the eShop or with MTpro
www.boschrexroth.com/shop

Standard profile finishing

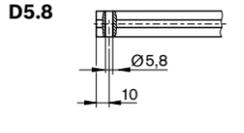
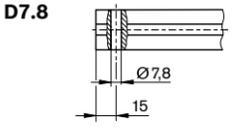
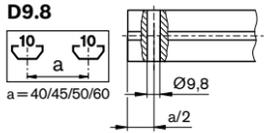
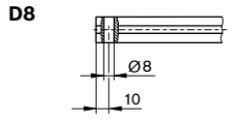
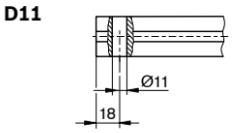
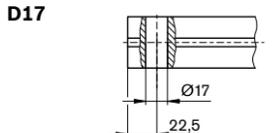
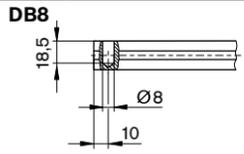
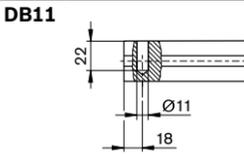
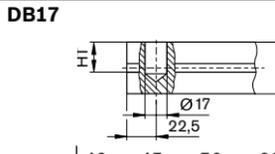
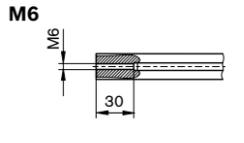
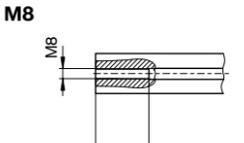
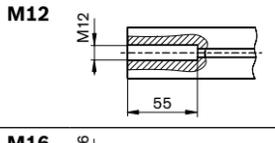
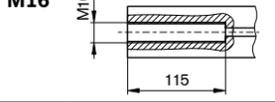
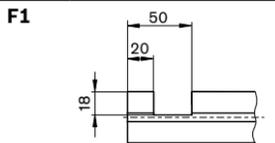
Order key for through-holes, blind holes, standard milling:

Material number / length / slot designation = finishing at profile start / finishing at profile end; ...

Order key for threads:

Material number / length / Z = Mx at profile start / Mx at profile end

Standard profile finishing

Standard profile finishing													
Through-hole for corner connections with central bolt													
Through-hole for bolt connectors and quick connectors													
Blind hole For longitudinal end connectors and quick connectors in closed profiles			 <table border="1"> <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									
Threads in all core holes for accessories			 										
Standard milling for cross connectors													

Minimum profile lengths (mm) for standard profile finishing on one or both sides

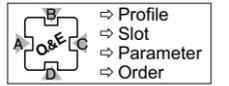
	-	M6	D5.8	D8/ DB8		-	M8	D7.8	D11/ DB11		-	M12	M16	D9.8	D17/ DB17	F1
-	50	50	50	50	-	50	50	50	50	-	50	60	120	50	60	60
M6	50	70	50	70	M8	50	80	62	70	M12	60	110	180	90	60	110
D5.8	50	50	50	50	D7.8	50	62	60	50	M16	120	180	240	150	170	170
D8/ DB8	50	50	50	50	D11/ DB11	50	70	50	60	D9.8	50	90	150	80	70	90
										D17/ DB17	60	90	170	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.

Profile finishing – Quick & Easy

Logical structure of the order key

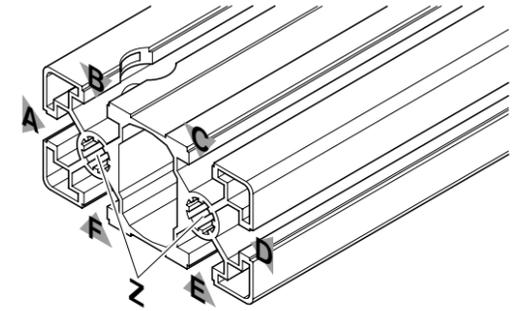
Material number/length/[slot designation = finishing; parameter set]



Example: Profile 45x90L with through-hole D17 in slot B

3 842 993 662 / 393 / B = D17/-

Material number / Length / Standard profile finishing
Through-hole D17 in slot B



Standard profile finishing

- ▶ Through-hole D
- ▶ Blind hole DB
- ▶ Thread cutting M
- ▶ Standard milling F1

Individual profile finishing

- ▶ Drill hole DI
- ▶ Drilling sequence DIS
- ▶ Cross milling MT
- ▶ Cross milling sequence MTS
- ▶ Lengthwise milling MI
- ▶ Lengthwise milling sequence MIS
- ▶ Miter cut S1 / S3



You can configure your profile really quickly and easily in the Rexroth eShop or with the profile configurator in MTpro



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