

Movable joints



Joint 45x45 lockable
(p. 4-2)



Joints (p. 4-3)



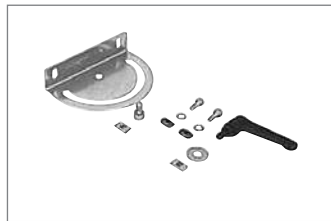
Swivel bearing (p. 4-7)



Supporting arm joint
(p. 4-8)



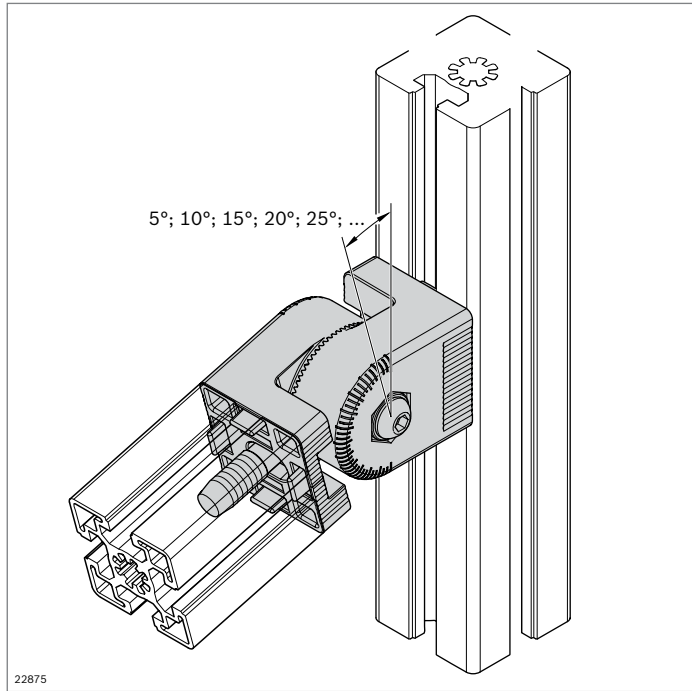
Bearing pedestal (p. 4-9)



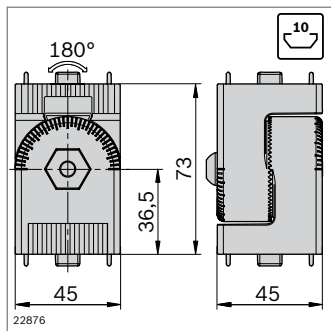
Swivel fastening (p. 4-10)



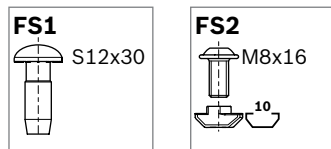
Clamping lever, star knob
(p. 4-11)



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Joint 45x45 lockable



- ▶ For adjustable or rigid profile connections
- ▶ For high loads up to 100 Nm in the swivel direction
- ▶ Positive interlocking thanks to Hirth toothed coupling
- ▶ 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-tapping screw for front end-to-end connections)
- ▶ Compatible with joint 45x45 and joint 45x45 support (p. 4-4)

Optional accessories:

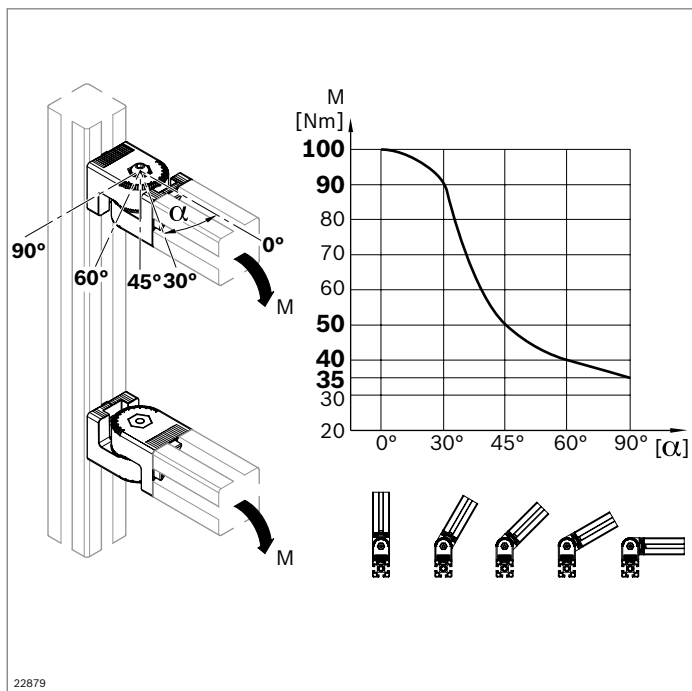
Clamping element (p. 4-11)

Joint 45x45 lockable	Slot	ESD No.	FS
	10	3 842 546 564	2xFS1, 2xFS2

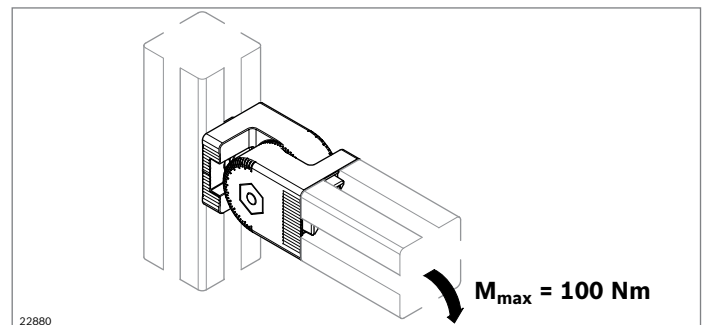
Material: diecast zinc

Fastening material: steel; galvanized

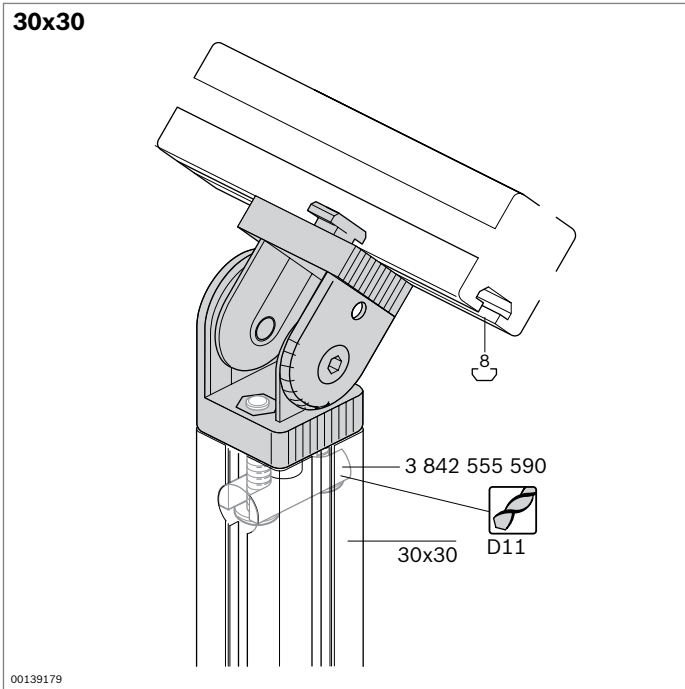
Scope of delivery: incl. fastening material (FS)



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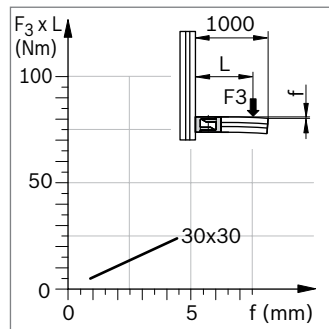
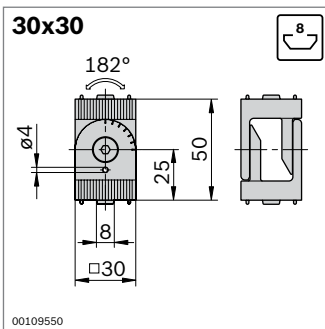


Joint 30x30



- ▶ For movable or rigid profile connections at any angle
- ▶ Swivel range 182°
- ▶ With marking in 15° increments
- ▶ 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

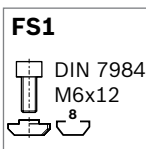
Required accessories:
bolt connector D11 for end face connections



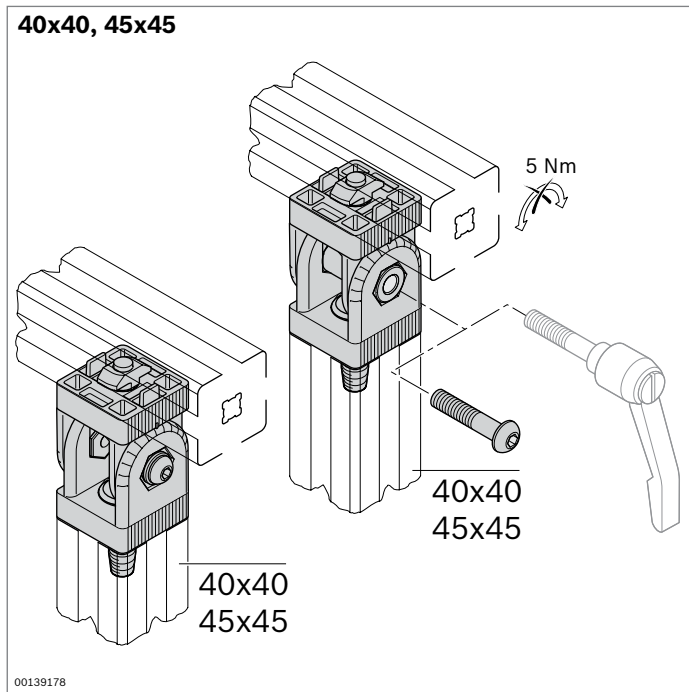
Joint 30x30	Slot	ESD	No.	FS
Standard	8		3 842 502 683	2xFS1, 4xFS2
<i>designLINE</i>	8		3 842 538 683	2xFS1, 4xFS2

Material: Standard: diecast zinc
designLINE: painted, RAL 9006
Fastening material: steel; galvanized

Scope of delivery: incl. fastening material (FS)



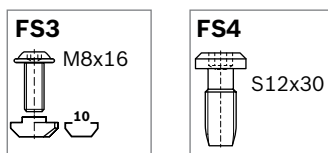
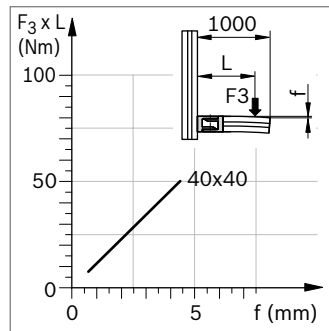
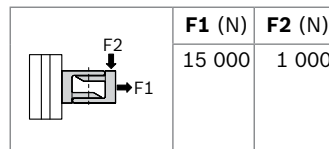
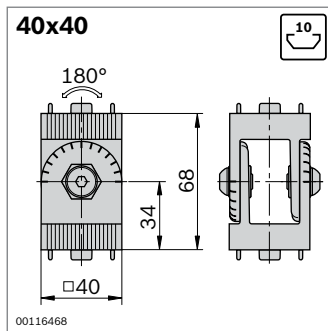
F1 (N)	F2 (N)
10 000	600



Joint 40x40, 40x40 support, 45x45, 45x45 support

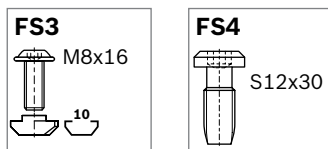
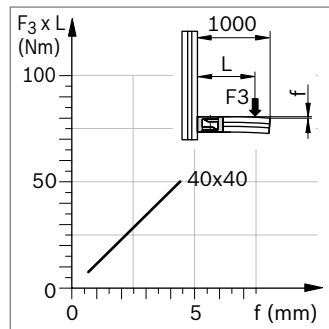
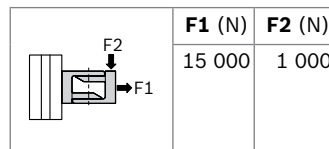
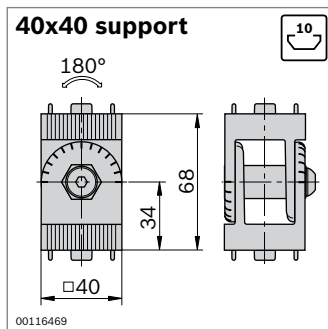


- ▶ For movable or rigid profile connections at any angle
- ▶ Swivel range 180°
- ▶ With marking in 15° increments
- ▶ Joint support can be clamped using a clamping lever (5 Nm) and conveniently adjusted
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design



Joint 40x40	Slot	ESD	No.	FS
Standard	10		3 842 543 401	2xFS3, 2xFS4
designLINE	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)

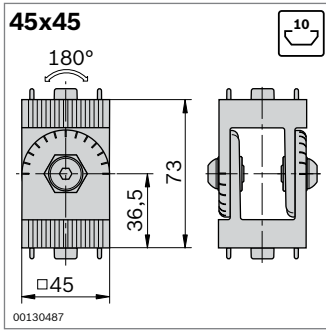


Joint 40x40 support	Slot	ESD	No.	FS
Standard	10		3 842 543 402	2xFS3, 2xFS4
designLINE	10		3 842 538 685	2xFS3, 2xFS4

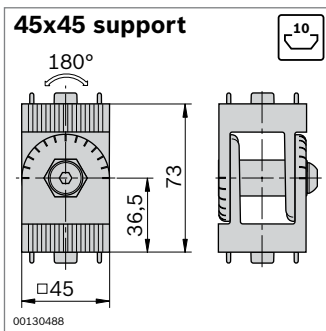
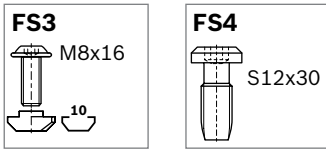
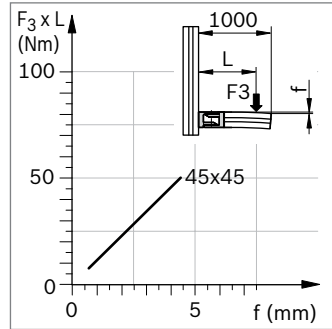
Material: Standard: Die-cast aluminum
designLINE: painted, RAL 9006
Fastening material: steel; galvanized
Scope of delivery: incl. fastening material (FS)

Clamping lever	No.
for joint 40x40 support	3 842 516 847

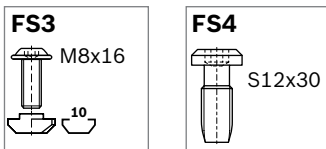
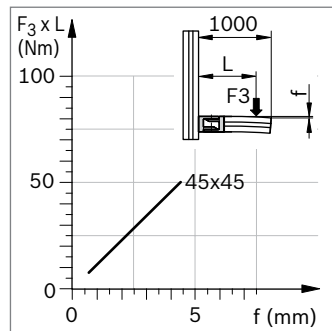
Material: diecast zinc, black polymer coating



	F1 (N)	F2 (N)
	15 000	1 000



	F1 (N)	F2 (N)
	15 000	1 000



Joint 45x45	Slot	ESD	No.	FS
Standard	10		3 842 543 403	2xFS3, 2xFS4
designLINE	10		3 842 538 686	2xFS3, 2xFS4

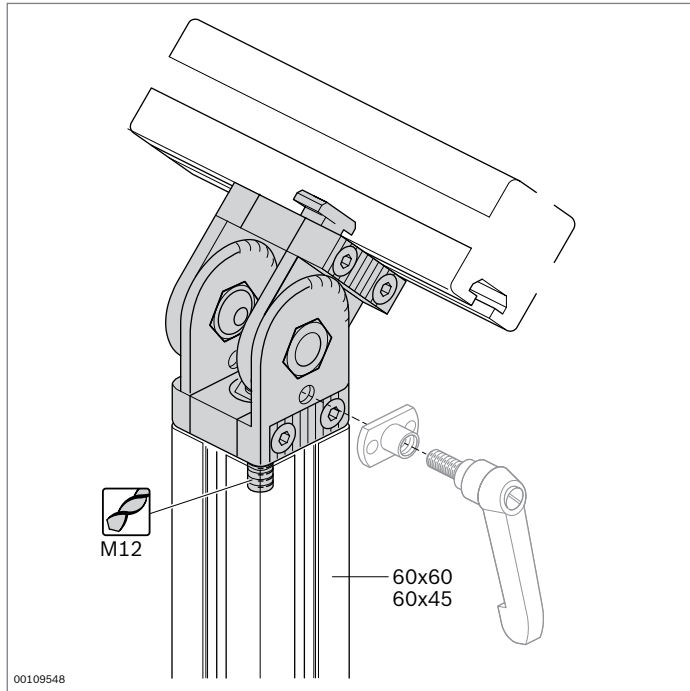
Material: Standard: diecast aluminum
designLINE: painted, RAL 9006
 Fastening material: steel; galvanized
 Scope of delivery: incl. fastening material (FS)

Joint 45x45 support	Slot	ESD	No.	FS
Standard	10		3 842 543 404	2xFS3, 2xFS4
designLINE	10		3 842 538 687	2xFS3, 2xFS4

Material: Standard: diecast aluminum
designLINE: painted, RAL 9006
 Fastening material: steel; galvanized
 Scope of delivery: incl. fastening material (FS)

Clamping lever	No.
for joint 45x45 support	3 842 538 607

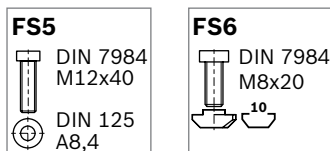
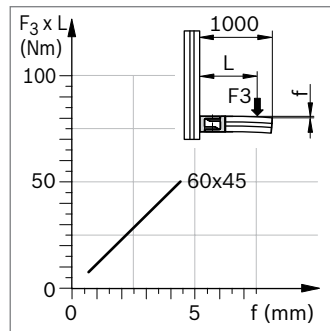
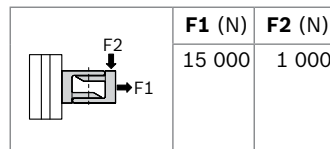
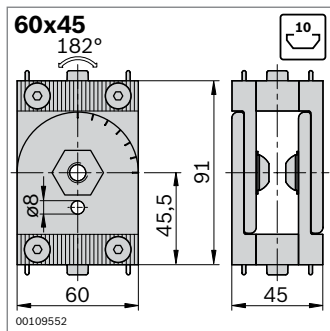
Material: diecast zinc, black polymer coating



Joint 60x45, 60x60



- ▶ For movable or rigid profile connections at any angle
- ▶ Swivel range 182°
- ▶ With marking in 15° increments
- ▶ 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 cutting (M12) in core for end connection

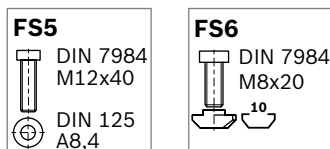
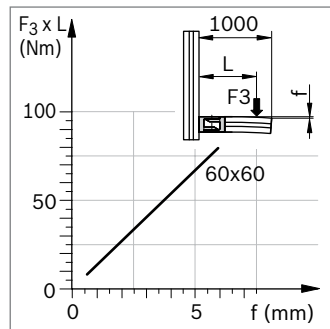
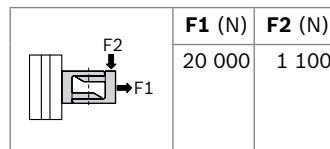
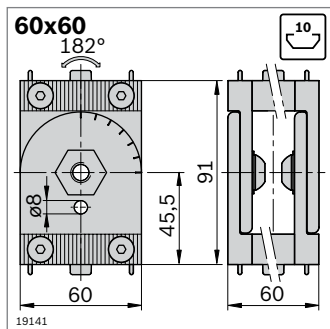


Joint 60x45	Slot	ESD	No.	FS
Standard	10		3 842 502 688	2xFS5, 2xFS6
designLINE	10		3 842 539 799	2xFS5, 2xFS6

Material: Standard: diecast zinc
designLINE: painted, RAL 9006
Fastening material: steel; galvanized
Scope of delivery: incl. fastening material (FS)

Clamping lever	No.
for joint 60x45	3 842 505 144

Material: diecast zinc, black polymer coating

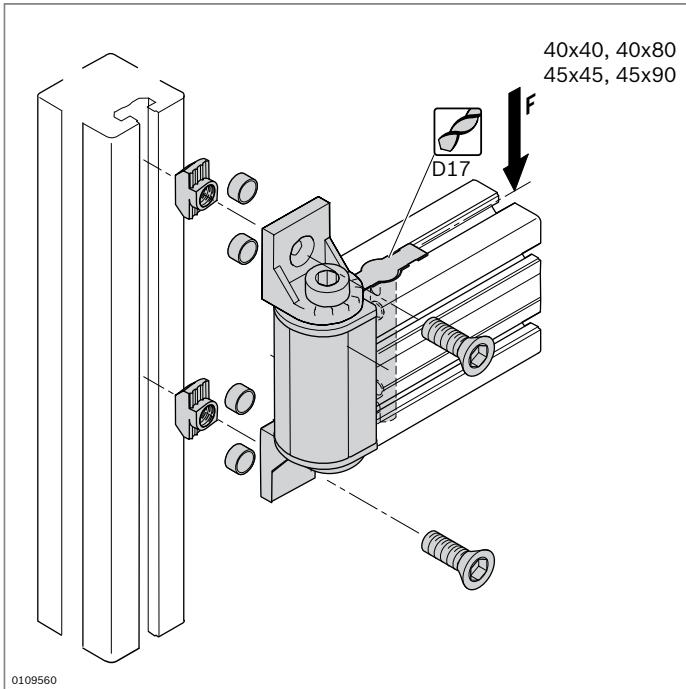


Joint 60x60	Slot	ESD	No.	FS
Standard	10		3 842 502 687	2xFS5, 2xFS6
designLINE	10		3 842 539 800	2xFS5, 2xFS6

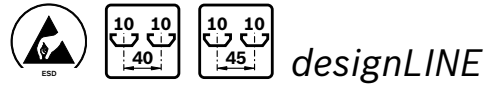
Material: Standard: diecast zinc
designLINE: painted, RAL 9006
Fastening material: steel; galvanized
Scope of delivery: incl. fastening material (FS)

Clamping lever	No.
for joint 60x60	3 842 505 144

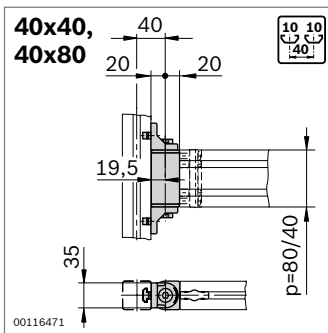
Material: diecast zinc, black polymer coating



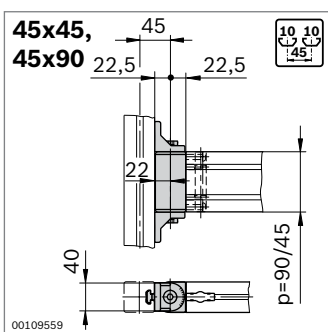
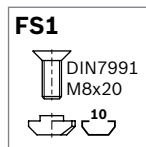
Swivel bearing



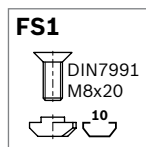
- ▶ Suitable for swiveling right-angled profile connections, e.g. for constructing supporting arms or doors
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- ▶ Profile finishing: drilling of through-hole D17



Profile	$M_{max} = F \times L$ (Nm)
40x40	40
40x80	130



Profile	$M_{max} = F \times L$ (Nm)
45x45	50
45x90	150

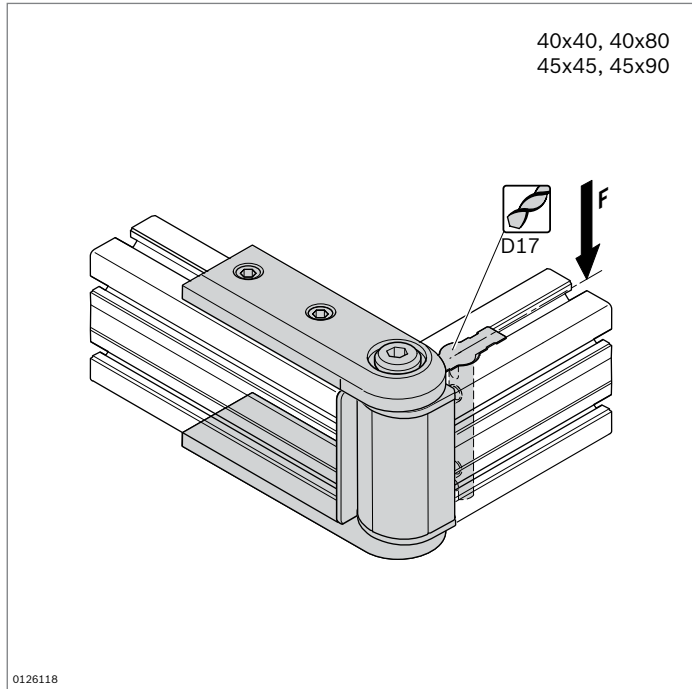


Swivel bearing	p (mm)	ESD No.	FS	
40x40	Standard	40	3 842 532 208	2xFS1
	<i>designLINE</i>	40	3 842 538 688	2xFS1
40x80	Standard	80	3 842 532 209	2xFS1
	<i>designLINE</i>	80	3 842 538 689	2xFS1

Material: Standard: diecast aluminum
designLINE: painted, RAL 9006
 Fastening material: steel; galvanized
 Cover cap: PA; black
 Scope of delivery: incl. caps, bolt connectors, fastening material (FS)

Swivel bearing	p (mm)	ESD No.	FS	
45x45	Standard	45	3 842 522 634	2xFS1
	<i>designLINE</i>	45	3 842 538 690	2xFS1
45x90	Standard	90	3 842 522 633	2xFS1
	<i>designLINE</i>	90	3 842 538 691	2xFS1

Material: Standard: diecast zinc
designLINE: painted, RAL 9006
 Fastening material: steel; galvanized
 Cover cap: PA; black
 Scope of delivery: incl. caps, bolt connectors, fastening material (FS)

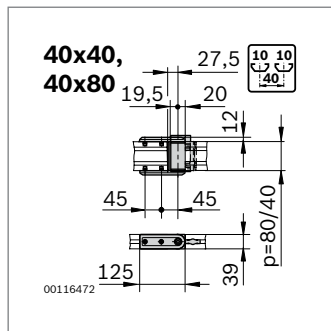


Supporting arm joint

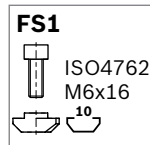


designLINE

- ▶ 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:
drilling of through-hole D17

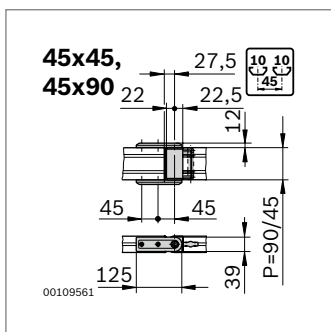


Profile	$M_{max} = F \times L$ (Nm)
40x40	40
40x80	130

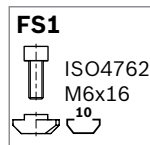


Supporting arm joint	p (mm)	ESD No.	FS
40x40	Standard	40	3 842 532 206 4xFS1
	<i>designLINE</i>	40	3 842 538 692 4xFS1
40x80	Standard	80	3 842 532 207 4xFS1
	<i>designLINE</i>	80	3 842 538 693 4xFS1

Material: Standard: diecast zinc
designLINE: painted (RAL 9006)
Cover cap: PA; black
Fastening material: steel; galvanized
Scope of delivery: incl. caps, bolt connectors, fastening material (FS)

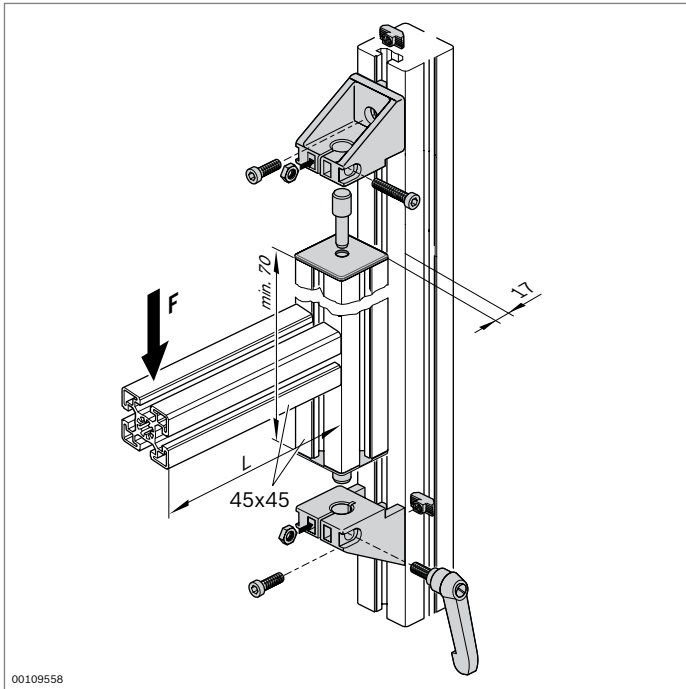


Profile	$M_{max} = F \times L$ (Nm)
45x45	50
45x90	150

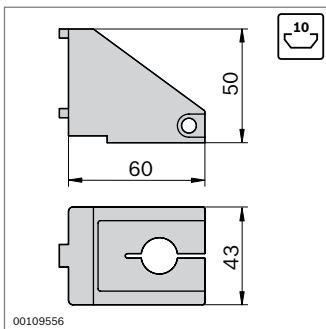


Supporting arm joint	p (mm)	ESD No.	FS
45x45	Standard	45	3 842 521 263 4xFS1
	<i>designLINE</i>	45	3 842 538 694 4xFS1
45x90	Standard	90	3 842 521 262 4xFS1
	<i>designLINE</i>	90	3 842 538 695 4xFS1

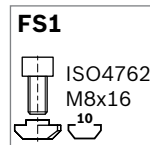
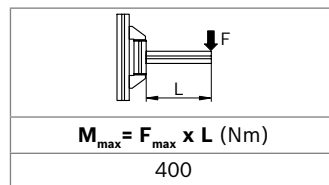
Material: Standard: diecast zinc
designLINE: painted (RAL 9006)
Cover cap: PA; black
Fastening material: steel; galvanized
Scope of delivery: incl. caps, bolt connectors, fastening material (FS)



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Bearing pedestal



designLINE

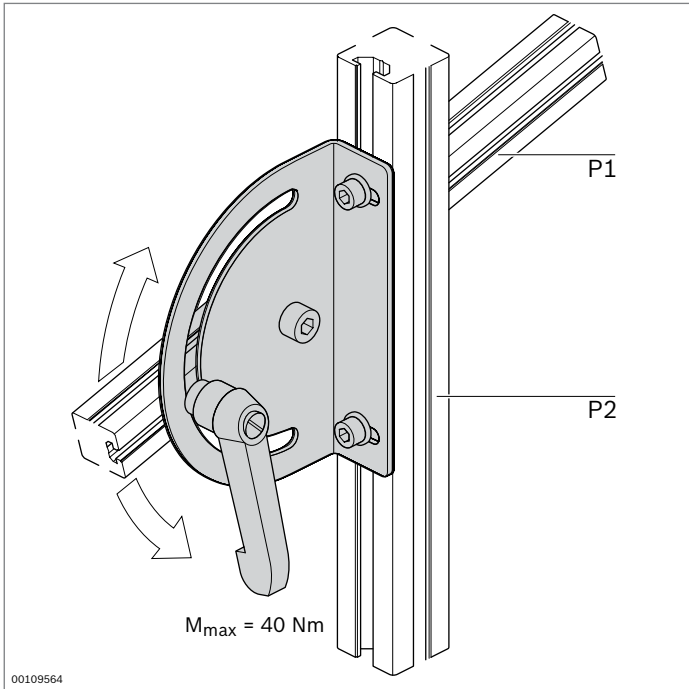
- ▶ Bearing pedestal for heavy constructions which are to be able to swiveled
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design

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Bearing pedestal	Slot	No.	FS
Standard	10	3 842 547 868	2xFS1
<i>designLINE</i>	10	3 842 547 869	2xFS1

Material: Standard: diecast zinc
designLINE: painted (RAL 9006)
 Fastening material: steel; galvanized
 Clamping lever handle: diecast zinc; black plastic coated
 Cover cap: PP, signal gray

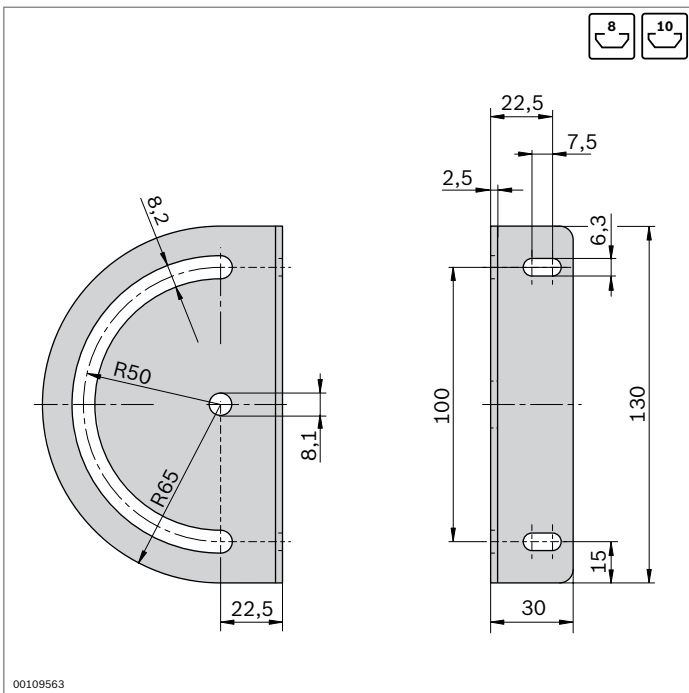
Scope of delivery: incl. fastening material (FS), 2 x cover cap, 2 x bolt, clamping lever (and additional standard parts for clamping the bearing pedestal)



Swivel fastening, 180°

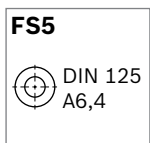
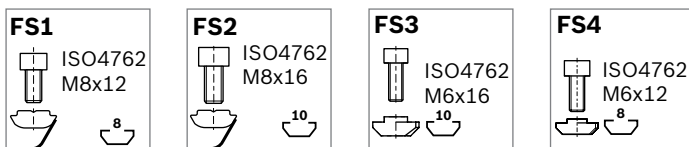


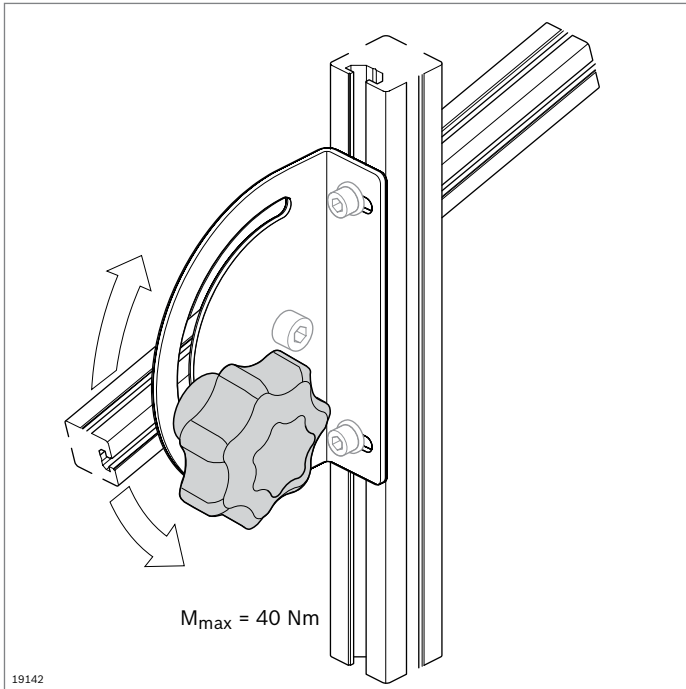
- Swivel fastening for shelves, etc. which need to be positioned at an angle of $\pm 90^\circ$



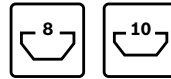
Swivel fastening, 180°	P1 / P2	ESD	No.	FS
	8 / 8	⚠	3 842 538 275	FS1
	8 / 10			2xFS3
				2xFS4
				2xFS5
	10 / 8	⚠	3 842 538 276	FS2
	10 / 10			2xFS3
				2xFS4
				2xFS5

Material: Pivoting fastener: steel; galvanized
Clamping lever: diecast zinc; black plastic coated
Scope of delivery: incl. fastening material (FS), clamping lever with disk and swivel-in sliding block with spring





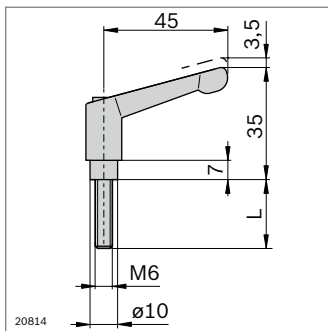
Clamping lever, star knob



- ▶ Clamping elements for adjustable connections

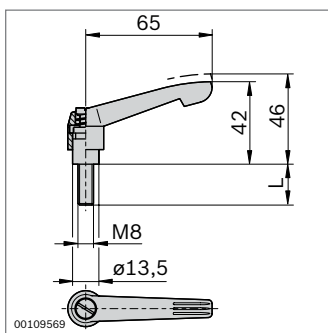
Accessories:

- ▶ Screws and sliding blocks; see fastening material (p. 4-10)



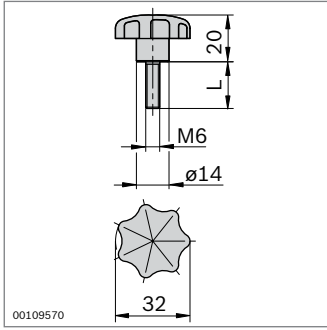
Clamping lever M6	L (mm)	No.
M6x25	25	3 842 528 540
M6x40	40	3 842 528 539

Material: Clamping lever: diecast zinc; black plastic coated
Screws: steel; galvanized and black chrome-plated



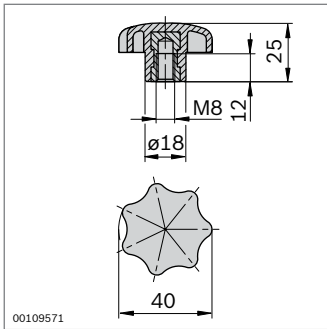
Clamping lever M8	L (mm)	No.
	12	3 842 516 845
	16	3 842 522 124
	20	3 842 516 846
	40	3 842 516 847
	45	3 842 538 607
	55	3 842 516 848

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

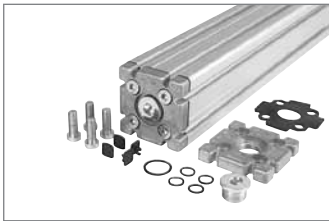
Material: Star knob: PA; black
Steel parts: galvanized, strength class 5.8



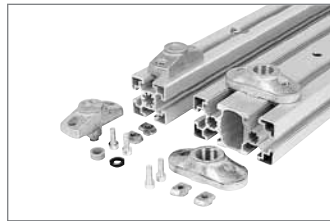
Star knob M8	No.
	3 842 516 851

Material: Star knob: PA; black
Steel parts: galvanized, strength class 5.8

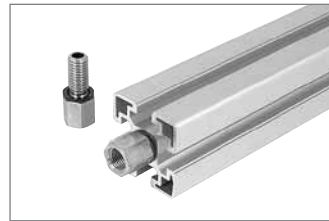
Air-supply elements



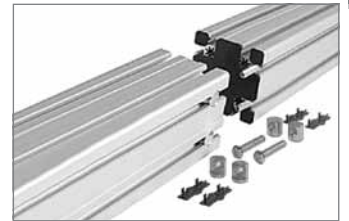
Flanged plate (p. 5-3)



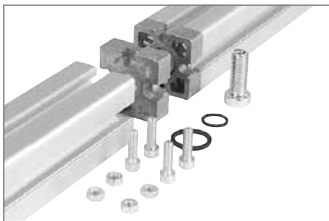
Connection piece (p. 5-4)



Connection screw fitting
M12-1/4" (p. 5-4)



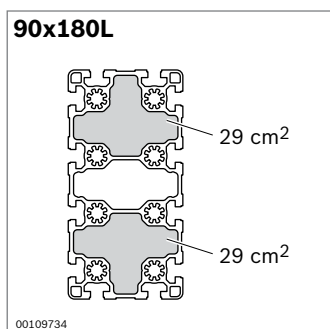
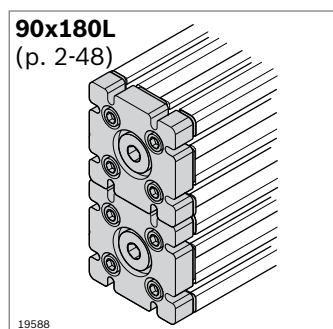
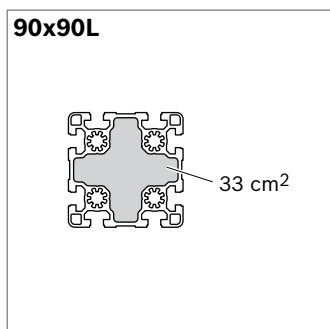
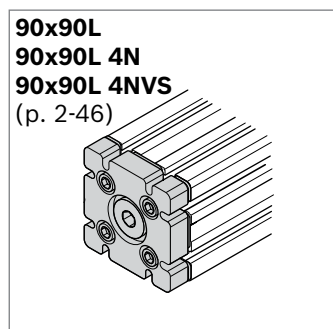
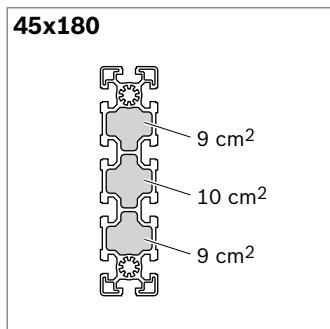
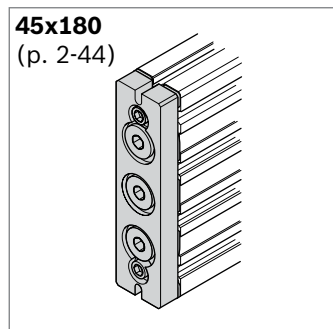
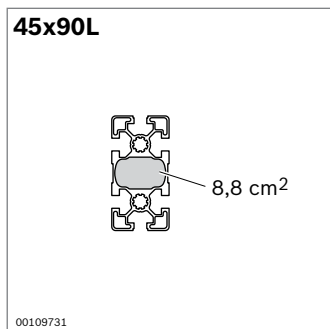
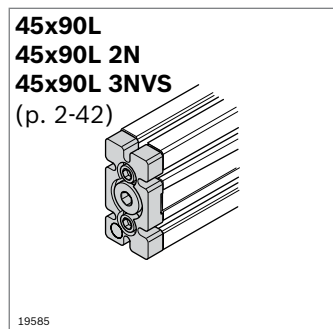
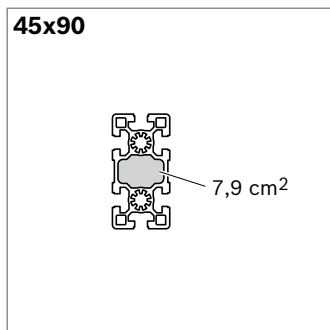
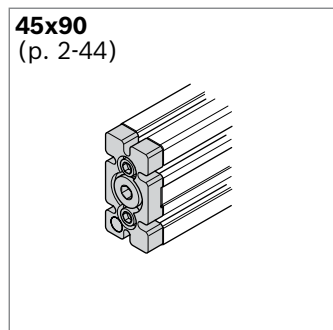
Longitudinal end connector
(p. 5-5)



Longitudinal end connector
45 Pneu (p. 5-6)

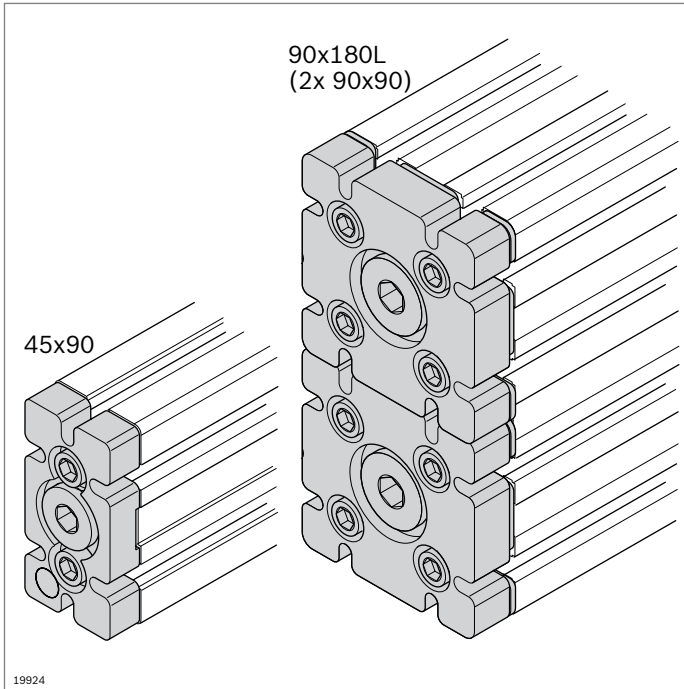


T-connector 45 Pneu
(p. 5-6)



Air-supply elements

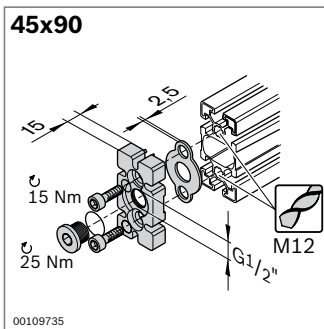
- ▶ Rexroth **strut profiles** can be used as compressed-air leads and reservoirs. The hollow chambers or central holes are used
- ▶ **Flanged plate** for end closing of profiles (p. 5-3)
- ▶ Compressed-air intake or discharge at the flanged plate, **connection piece**, or **connection screw fitting** (p. 5-4)
- ▶ Air-tight connecting of profiles with **longitudinal end connectors or T-connectors**(p. 5-6, 5-5)
- ▶ The use of the heavy-duty profiles is preferable in the case of more demanding leak-tightness requirements (e.g. for underwater applications)



Flanged plate

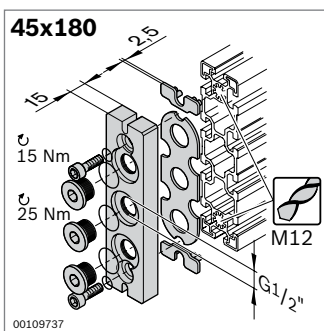


- ▶ For sealing the ends of the hollow chambers. This enables the profiles to be used as a compressed-air lead
- ▶ For compressed-air intake or discharge when the screw plugs are replaced by pneumatic screw fittings
- ▶ Profile finishing: M12 thread cutting in the central holes
- ▶ For a maximum pressure (p_{\max}) of 8 bar



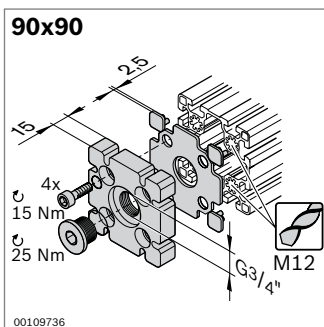
FS1

DIN 7984
M12x30



FS2

DIN 7984
M12x20



FS1

DIN 7984
M12x30

Flanged plate	No.	FS
45x90	3 842 523 097	2xFS1

Material: Flanged plate: Die-cast 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

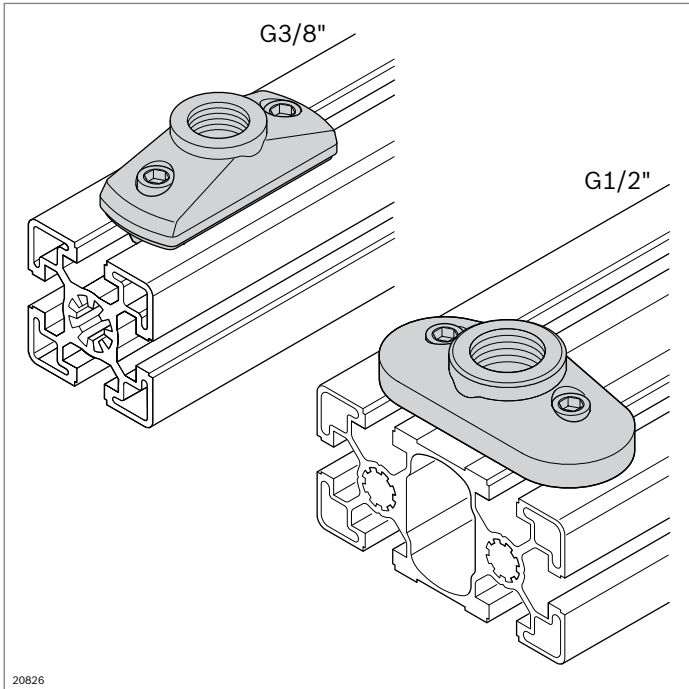
Scope of delivery: incl. fastening material (FS), 2 x spacer,
3 x screw plug, seals

Flanged plate	No.	FS
90x90	3 842 523 098	4xFS1

Material: Flanged plate: Die-cast aluminum
Seal: NBR
Fastening material: steel; galvanized

Scope of delivery: incl. fastening material (FS), 4 x spacer,
screw plug, seals

Note: Only suitable for light profiles 90x90L and 90x180L.

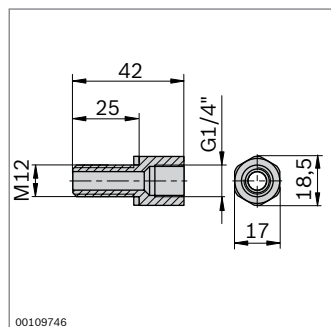
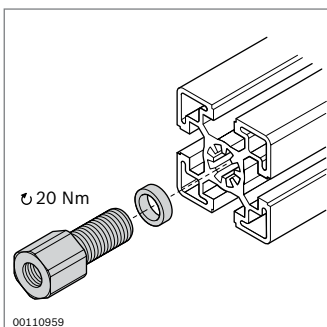
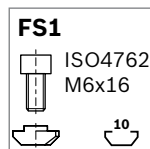
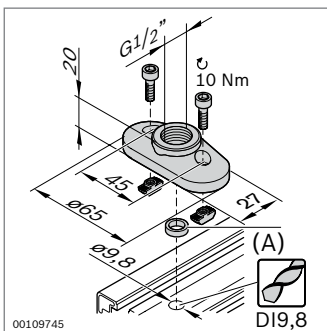
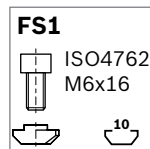
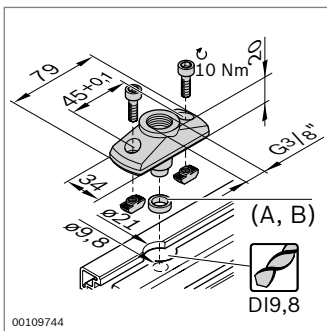


Connection piece Connection screw fitting M12-1/4"



Connection piece

- ▶ For compressed-air intake or discharge at any point on the profile
- ▶ G3/8" for connection at central hole
- ▶ 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



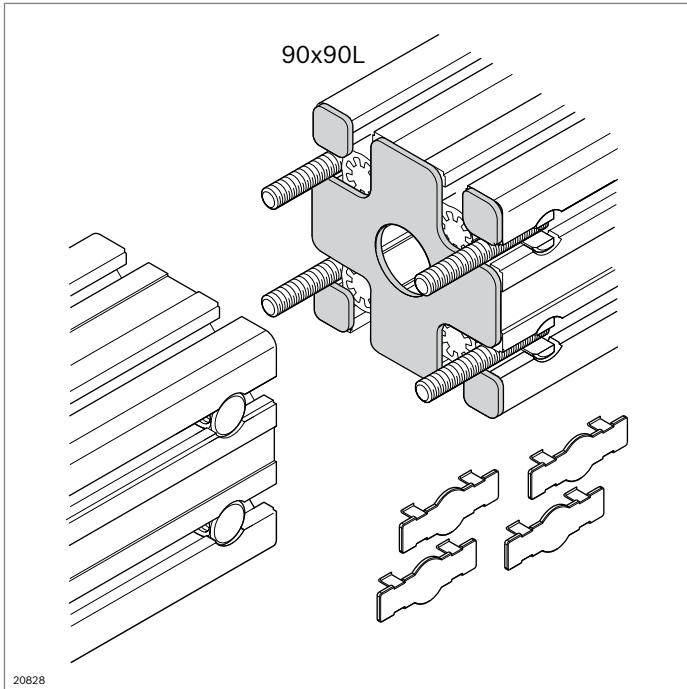
Connection piece	No.	FS
G3/8"	3 842 523 092	2xFS1
Material:	Connection piece Die-cast aluminum	
	Seal: NBR	
Scope of delivery:	incl. fastening material, seals (A, B)	
Accessories:	Seals A, B (p. 5-6)	

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 hole
- ▶ Profile finishing: M12
- ▶ For a maximum pressure (p_{max}) of 8 bar

Connection screw fitting	No.	No.
M12-1/4"	10	3 842 535 719
Material:	Connection screw fitting: steel; galvanized	
	Seal: PVC, hard	
Scope of delivery:	incl. seal	



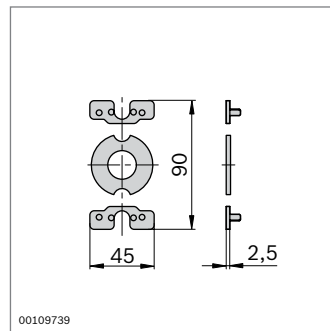
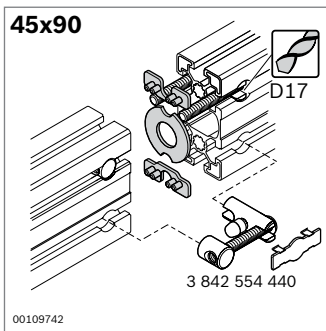
Longitudinal end connection



- ▶ 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

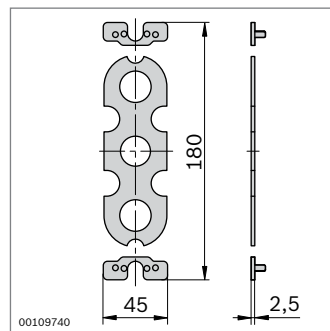
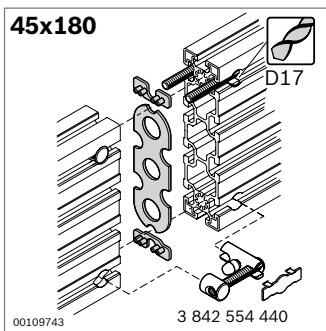
Required accessories:

Longitudinal end connector for profile connection (p. 3-58)



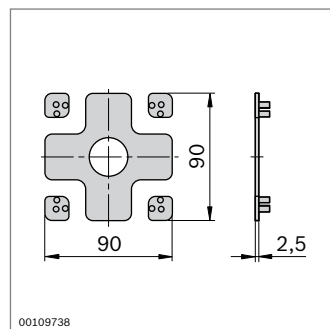
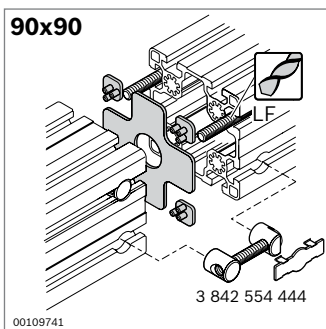
Longitudinal end connection	No.
45x90	3 842 508 087

Material: Seal: PUR
Spacer: PA
Scope of delivery: seal, 2 x spacer



Longitudinal end connection	No.
45x180	3 842 508 088

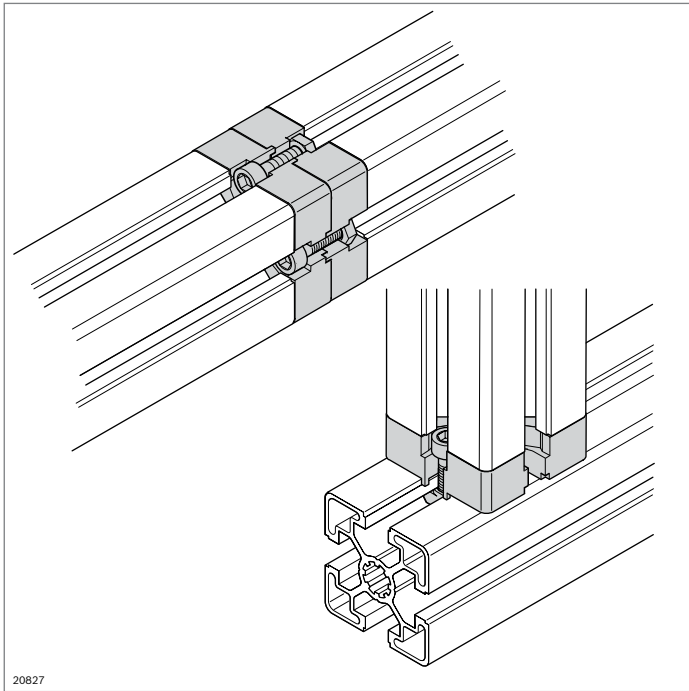
Material: Seal: NBR
Spacer: PA
Scope of delivery: seal, 2 x spacer



Longitudinal end connection	No.
90x90	3 842 510 145

Material: Seal: NBR
Spacer: PA
Scope of delivery: seal, 4 x spacer

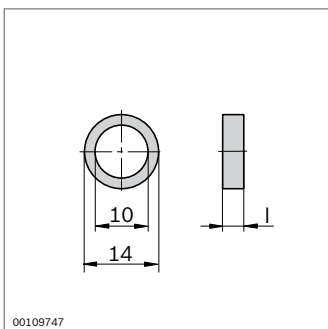
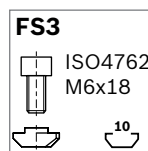
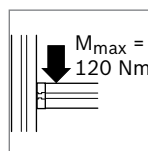
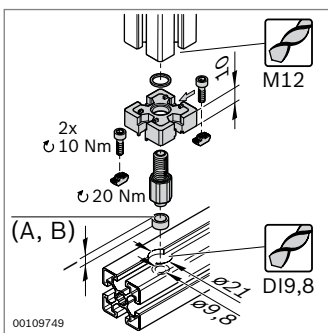
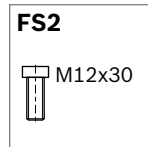
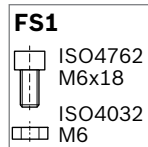
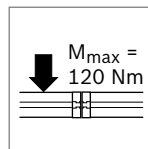
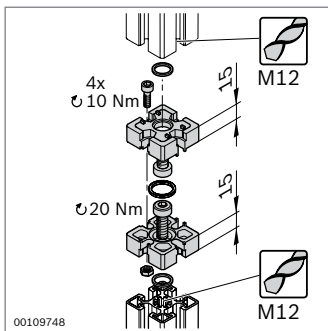
Note: Only suitable for light profile 90x90L.



Longitudinal end connector 45 Pneu T-connector 45 Pneu, seal



- ▶ Longitudinal end connector 45 Pneu for end face mechanical and pneumatic connections of two 45x45 or 45x45L profiles for using the central hole as a compressed-air lead
- ▶ 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 lead
- ▶ 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: Die-cast 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: Die-cast 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	l (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)



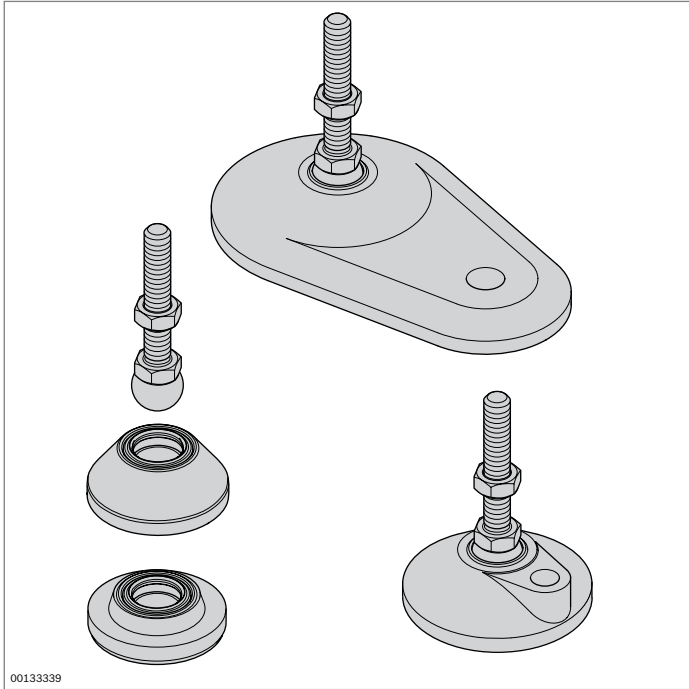
Heavy-duty wheel (p. 6-20)



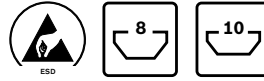
Lifting wheel (p. 6-22)



Roller with mounting flange
(p. 6-24)

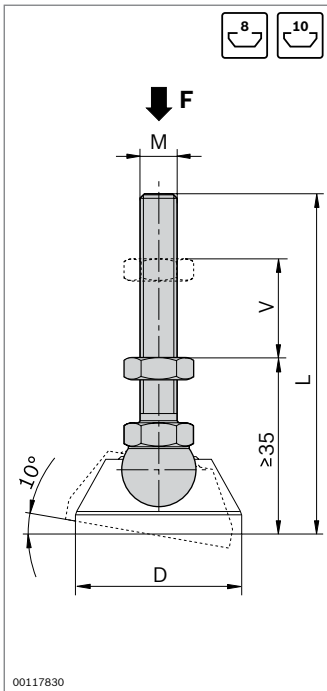


Modular leveling feet

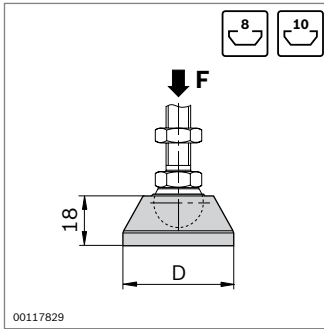


- ▶ Leveling feet for compensating irregularities in the floor up to 10°
 - Modular system, various combinations possible
 - Spindles and base plates can be combined as desired
 - Base plates with screw hole for simple screw fitting to the floor
- ▶ The damping plate prevents the transfer of vibrations and allows a defined conduction of voltages via a set of grounding components (p. 17-2)
- ▶ Profile finishing: thread M in central hole

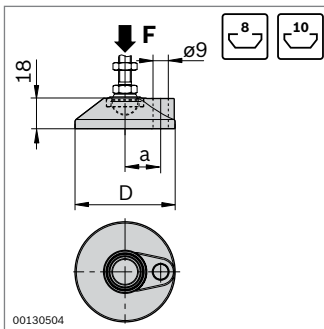
Accessories: bearing ring (p. 6-16)



Spindle	F (N)	M	L (mm)	V (mm)	ESD		No.
Stainless steel	10000	M8	75	20		20	3 842 536 811
	20000	M12	85	30		20	3 842 536 812
	20000	M12	145	80		20	3 842 537 223
	20000	M12	200	135		20	3 842 537 225
	30000	M16	85	20		20	3 842 537 227
	30000	M16	145	80		20	3 842 537 229
	30000	M16	200	135		20	3 842 537 231
	steel; galvanized	10000	M8	75	20		20
20000		M12	85	30		20	3 842 537 222
20000		M12	145	80		20	3 842 537 224
20000		M12	200	135		20	3 842 537 226
30000		M16	85	20		20	3 842 537 228
30000		M16	145	80		20	3 842 537 230
30000		M16	200	135		20	3 842 537 232

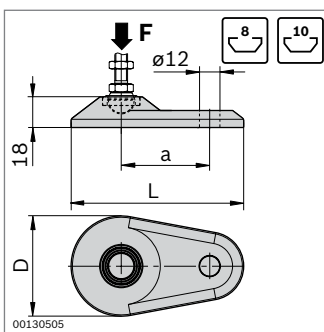


Base plate	F (N)	D (mm)	ESD	No.
Stainless steel	20000	29	▲	20 3 842 536 694
	30000	39	▲	20 3 842 536 695
	30000	44	▲	20 3 842 536 696
	30000	59	▲	20 3 842 538 673
	30000	79	▲	20 3 842 537 206
diecast zinc, black powder coating	20000	29		20 3 842 538 674
	30000	39		20 3 842 538 675
	30000	44		20 3 842 538 676
	30000	59		20 3 842 538 677
	30000	79		20 3 842 538 678
PA; black	5000	29		20 3 842 538 832
	9000	39		20 3 842 538 833
	9000	44		20 3 842 538 834
	9000	59		20 3 842 538 835
	9000	79		20 3 842 538 836



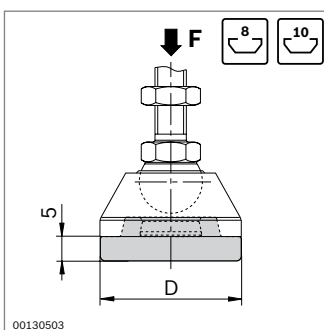
Base plate with screw hole	F (N)	D (mm)	a (mm)	No.
	30000	59	21	20 3 842 538 932
	30000	79	31	20 3 842 538 934

Material: diecast zinc, black powder coating



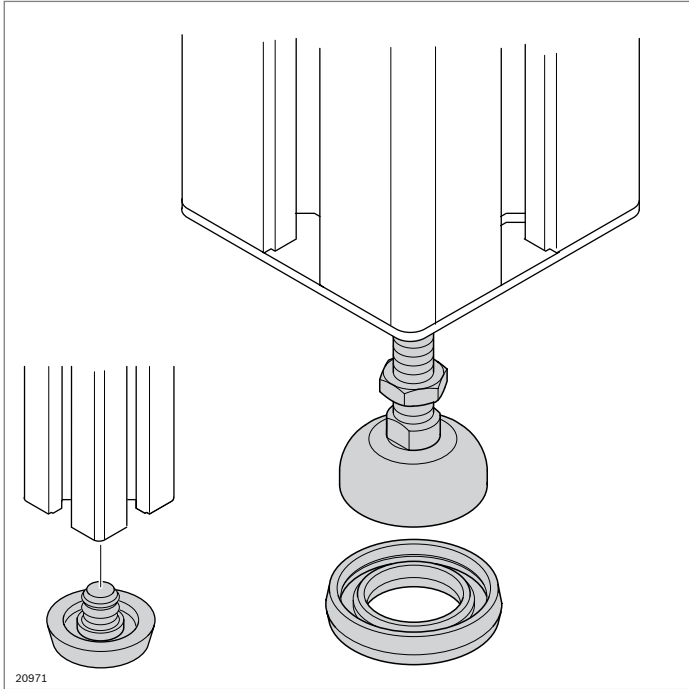
Oval base plate with screw hole	F (N)	D (mm)	a (mm)	L (mm)	No.
	30000	59	52	100	20 3 842 538 679
	30000	79	65	130	20 3 842 538 680

Material: diecast zinc, black powder coating

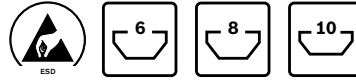


Damping plate	F (N)	D (mm)	No.
	1100	29	20 3 842 538 555
	1600	39	20 3 842 538 556
	2000	44	20 3 842 538 557
	2500	59	20 3 842 538 558
	2800	79	20 3 842 538 559

Material: PUR, black



Leveling foot, foot, damping ring



Leveling foot

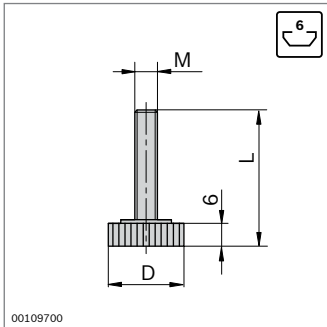
- ▶ For compensating irregularities in the floor up to 5°
- ▶ Fully assembled spindle and base plate
- ▶ Profile finishing: thread in central hole

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)

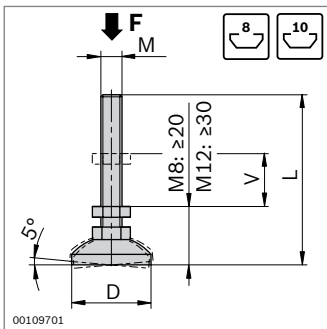
Optional accessories:

bearing ring (p. 6-16), for when cover caps with a hole are used



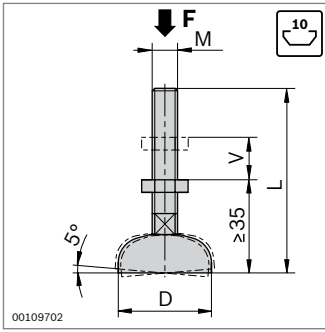
Leveling foot	M	D (mm)	L (mm)	ESD	No.
	M6	20	41	20	3 842 518 743

Material: steel/plastic



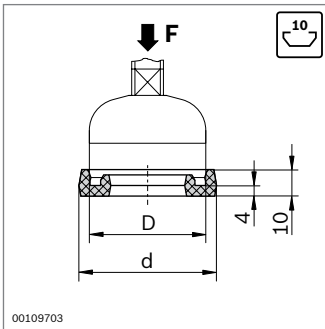
Leveling foot	F (N)	M	D (mm)	L (mm)	V (mm)	ESD	No.
	5000	M8	30	65	15	20	3 842 502 257
	8000	M12	30	72	14	20	3 842 529 025

Material: steel; galvanized



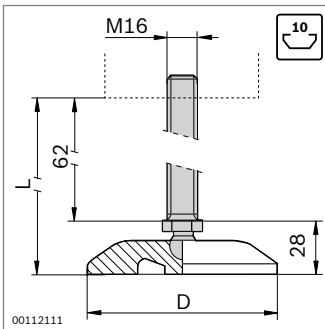
Leveling foot	F (N)	M	D (mm)	L (mm)	V (mm)	ESD	No.
	10000	M12	44	85	30		20 3 842 352 061
	20000	M16	44	145	80		20 3 842 311 956
	10000	M12	44	160	80		20 3 842 536 470
	20000	M16	44	200	135		20 3 842 554 149
	10000	M12	58	85	30		20 3 842 511 893
	20000	M16	90	85	20		20 3 842 311 950
	20000	M16	90	145	80		20 3 842 311 951
	20000	M16	90	200	135		20 3 842 527 186

Material: steel; galvanized



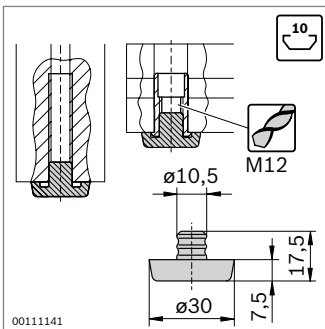
Damping ring	F (N)	D (mm)	d (mm)	No.
	1600	30	39	20 3 842 529 024
	2000	44	52	20 3 842 521 817
	2500	58	66	20 3 842 522 301
	3000	90	98	20 3 842 522 303

Material: PUR; natural, hardness: shore A 70-80



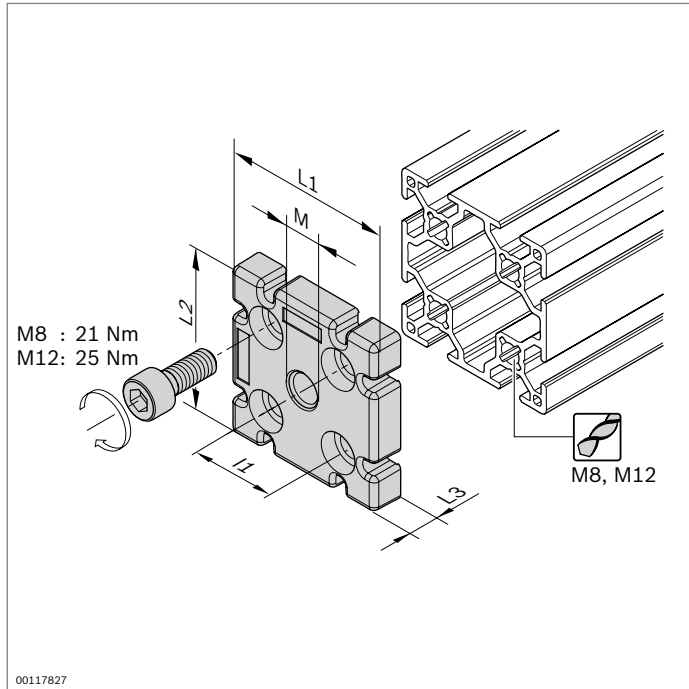
Leveling foot	M	D (mm)	L (mm)	V (mm)	No.
	M16	80	95	62	1 3 842 533 310

Material: Shaft: Stainless steel
Base plate: PA



Foot	No.
	100 3 842 514 568

Material: TPE, black



Plate



- ▶ For fastening leveling feet in profiles without a central hole
- ▶ For use as an end connector or T-connector
- ▶ Profile finishing: tapping of thread in the central hole

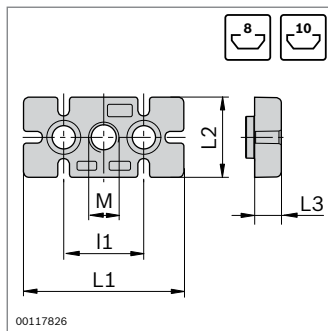


Plate	F (N)	M	L1 (mm)	I1 (mm)	L2 (mm)	L3 (mm)	No.	FS
30x60	8000	M12	60	30	30	11	3 842 536 560	2xFS1
40x80	10000	M12	80	40	40	15	3 842 536 562	2xFS2
45x90	20000	M16	90	45	45	15	3 842 536 564	2xFS2

Material: Plate: Die-cast aluminum
Fastening material: steel; galvanized
Scope of delivery: incl. fastening material (FS)

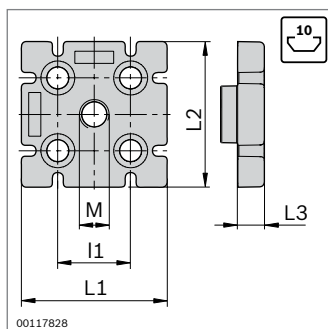
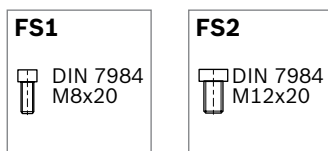
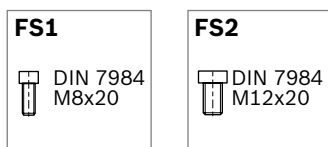
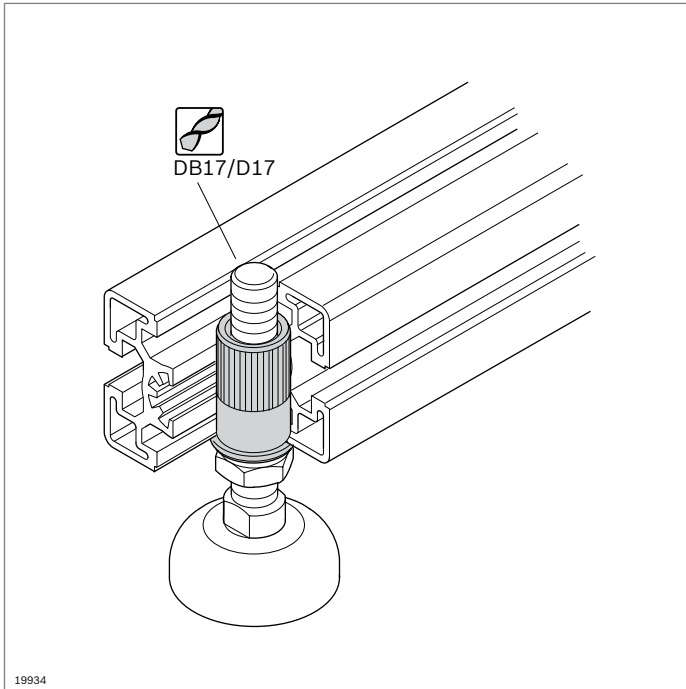


Plate	F (N)	M	L1 (mm)	I1 (mm)	L2 (mm)	L3 (mm)	No.	FS
60x60 8N	10000	M12	60	30	60	11	3 842 536 566	4xFS1
80x80L	10000	M12	80	40	80	15	3 842 529 416	4xFS2
90x90L	20000	M16	90	45	90	15	3 842 511 352	4xFS2
100x100L	20000	M16	100	50	100	15	3 842 529 417	4xFS2

Material: Plate: Die-cast aluminum
Fastening material: steel; galvanized
Scope of delivery: incl. fastening material (FS)

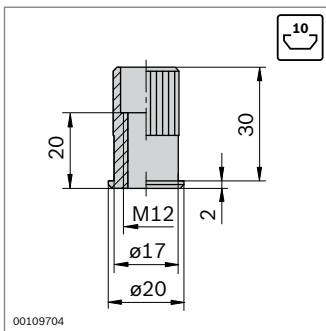




Threaded sleeve

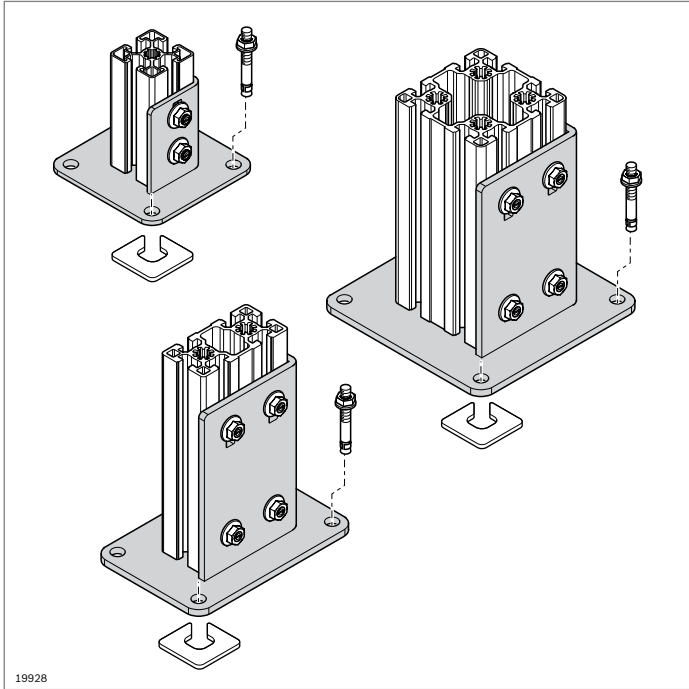
- ▶ For fastening leveling feet at an angle to the longitudinal profile direction
- ▶ Profile finishing:
 - drilling of blind hole DB17
 - drilling of through-hole D17

6



Threaded sleeve	No.
	3 842 504 790

Material: steel; galvanized



Base plate, steel

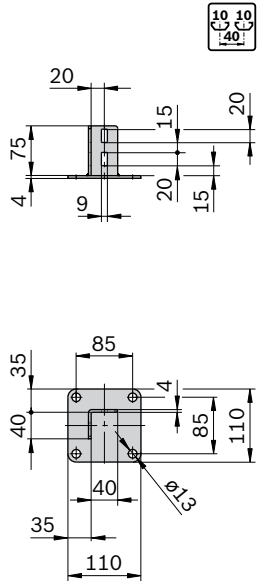


- ▶ For constructing supports for partition walls and protective walls
- ▶ Profile finishing: not required

Accessories:

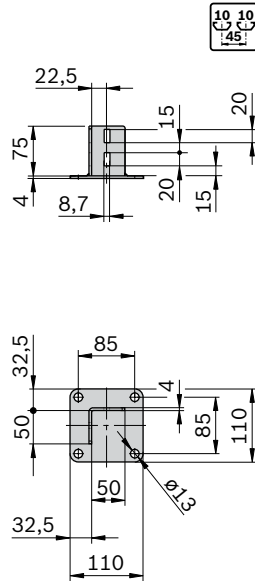
- ▶ T-bolt M8x20, 10 mm slot (p. 3-6)
- ▶ Flange nut M8 (p. 3-6)
- ▶ Floor dowl **3 842 526 561** (p. 6-12)
- ▶ Washer (p. 6-13)

40x40



00139153

45x45

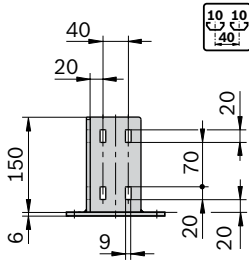


00117832

Base plate, steel	ESD	No.
40x40		3 842 542 667
45x45		3 842 536 581

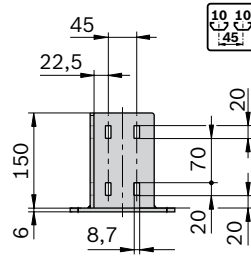
Material: steel; galvanized

40x80



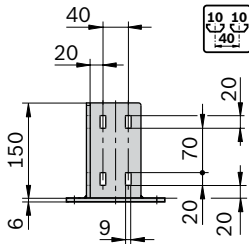
00139154

45x90



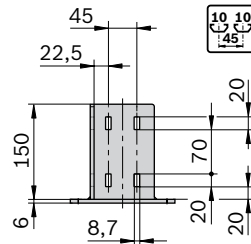
00117834

80x80



00139155

90x90



00117836

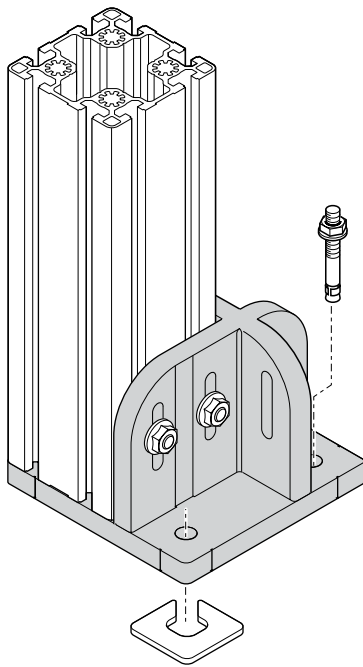
Base plate, steel	ESD No.
40x80	3 842 542 668
45x90	3 842 536 207

Material: steel; galvanized

Base plate, steel	ESD No.
80x80	3 842 542 669
90x90	3 842 536 746

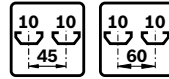
Material: steel; galvanized

120x120
150x150



19929

Base plate 120x120, 150x150



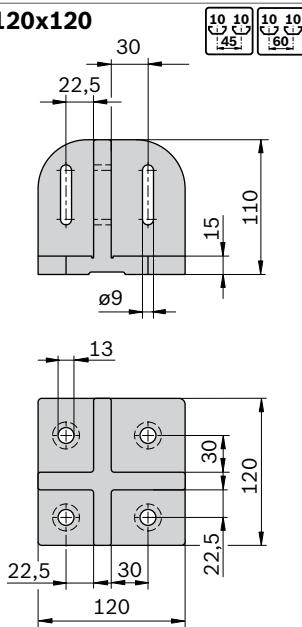
- ▶ For flush mounting of supports. No tripping hazards!
- ▶ Markings arranged at the center of the profile for precise alignment
- ▶ Anchoring with floor dowel

Required accessories:

- ▶ T-bolt M8x30 **3 842 528 721** (p. 3-6)
- ▶ Flange nut M8 **3 842 345 081** (p. 3-6)
- ▶ Floor dowel **3 842 526 561** (p. 6-12)
- ▶ Washer (p. 6-13)

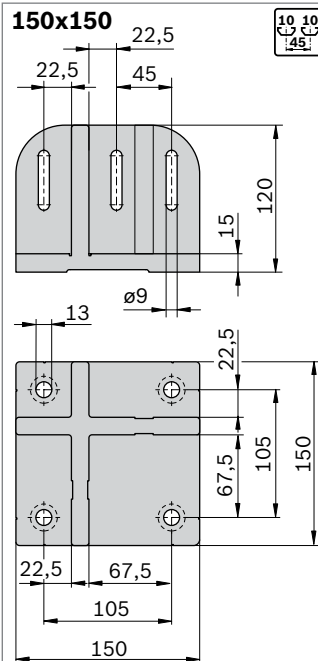
6

120x120



00109708

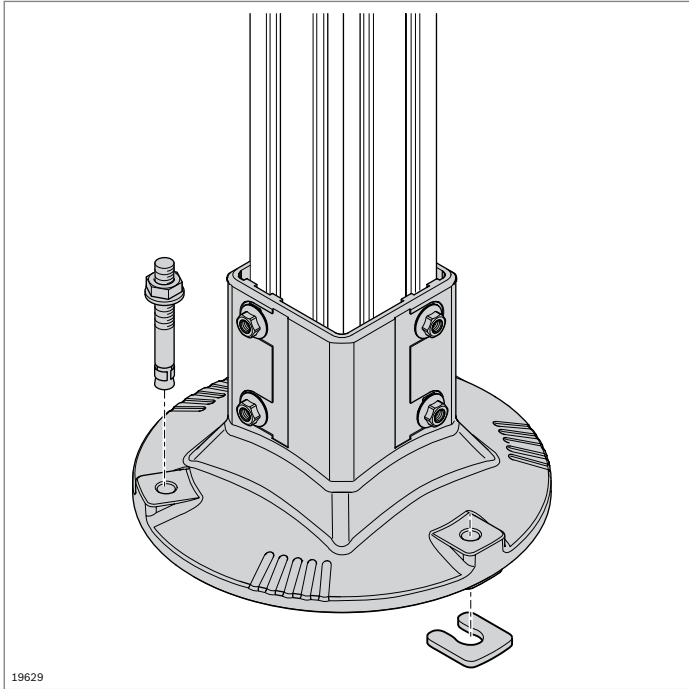
150x150



00109711

Base plate	ESD	No.
120x120	(A)	3 842 527 553
150x150	(A)	3 842 524 469

Material: Die-cast aluminum



Foot Floor dowel, washer

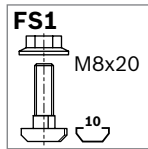
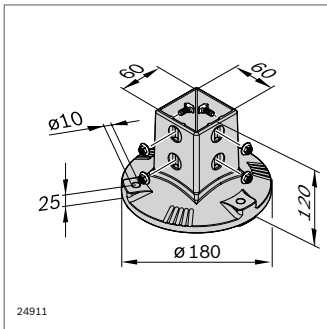
Foot

- ▶ For constructing supports made of 80x80L and 60x60 profiles
- ▶ Large installation surface for good stability
- ▶ Easy cleaning due to small number of horizontal surfaces
- ▶ Open on the inside to allow draining of liquids
- ▶ End stop as depth limit for profile (removable)

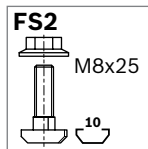
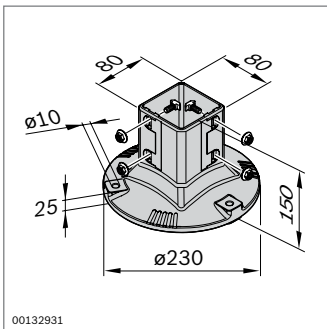
Required accessories:

- ▶ floor dowel **3 842 540 668**
- ▶ washer **3 842 546 717** or **3 842 546 718**

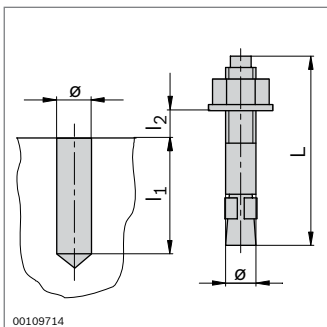
19629



24911



00132931



00109714

Foot, AL	No.	FS
60x60	1 3 842 544 875	4xFS1

Material: aluminum, silver coating (RAL 9006)
Fastening material: steel; galvanized

Scope of delivery: incl. fastening material (FS1)

Foot	No.	FS
80x80	3 842 540 173	4xFS2

Material: aluminum, silver coating (RAL 9006)
Fastening material: steel; galvanized

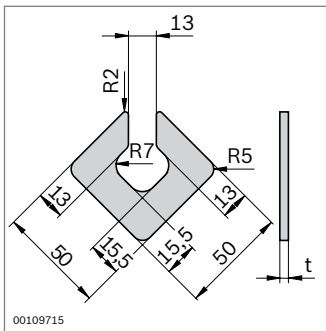
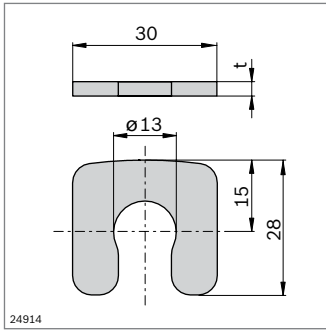
Scope of delivery: incl. fastening material (FS1)

Floor dowel

- ▶ For anchoring the base plates

Floor dowel	ø	L	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

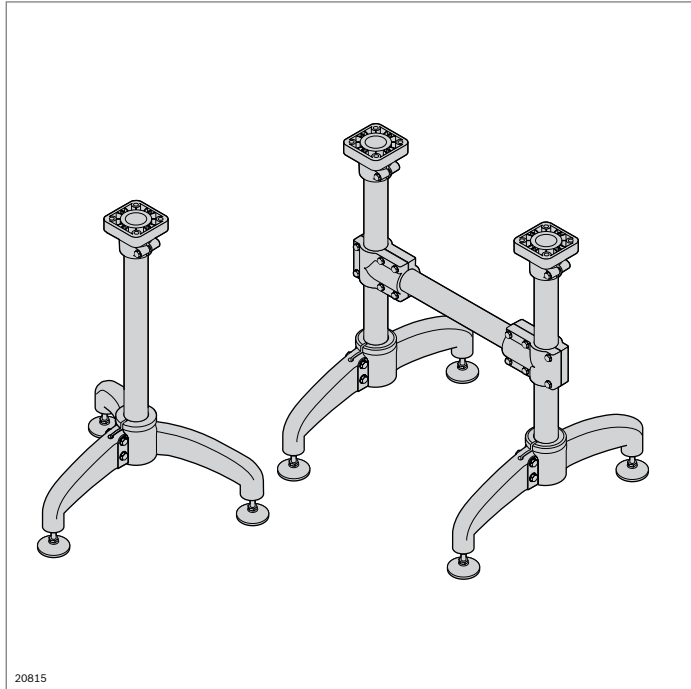
► For leveling on uneven flooring

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

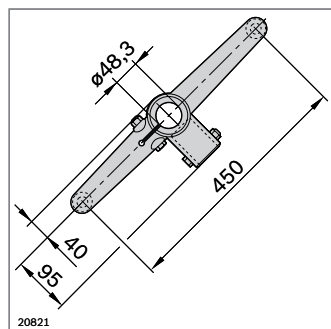
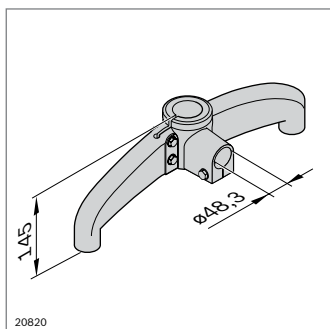
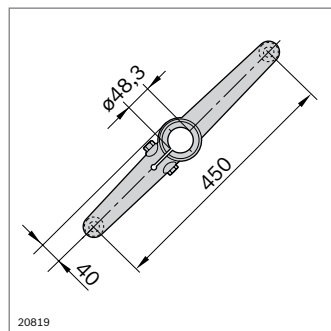
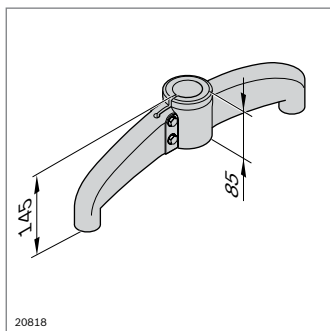
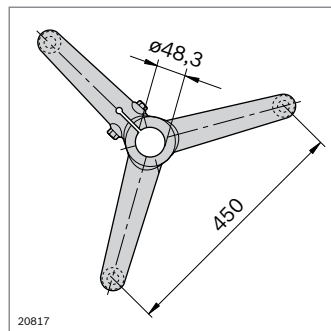
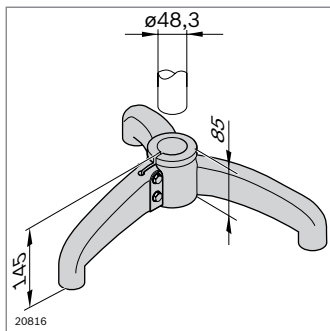
Material: steel, stainless



Foot, stainless steel

- ▶ Components for constructing feet and frames using the stainless steel tube D 48.3
- ▶ Tube fastened by clamping
- ▶ Shaft thread M16

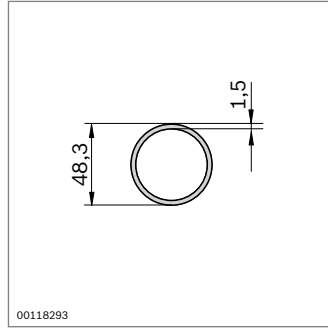
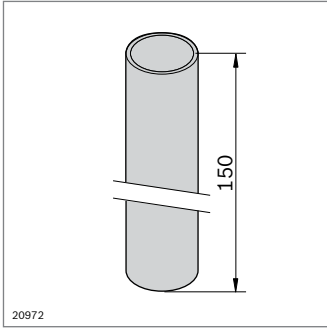
Optional accessories:
leveling foot **3 842 533 310** (p. 6-5)



Foot	No.
Tripod	3 842 533 307
Material:	Foot: Stainless steel Fastening material: Stainless steel

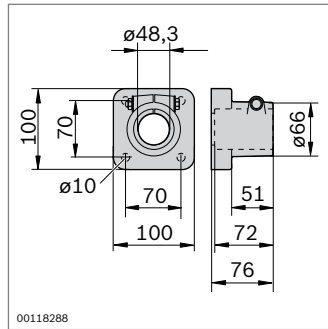
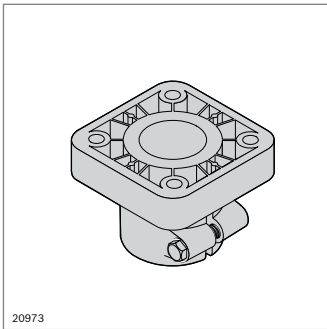
Foot	No.
Bipod	3 842 533 308
Material:	Foot: Stainless steel Fastening material: Stainless steel

Foot	No.
Bipod with flange	3 842 533 309
Material:	Foot: Stainless steel Fastening material: Stainless steel



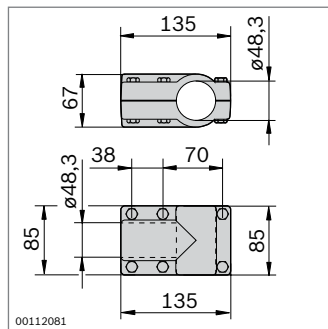
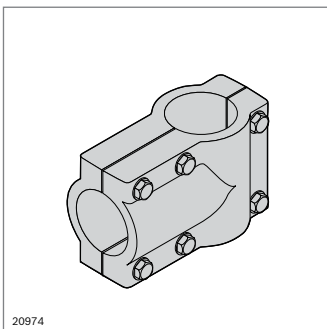
Tube D 48.3		L (mm) No.	
1 pcs		200 ... 3000	3 842 993 308 / L
	6 pcs	3000	3 842 533 901

Material: Stainless steel



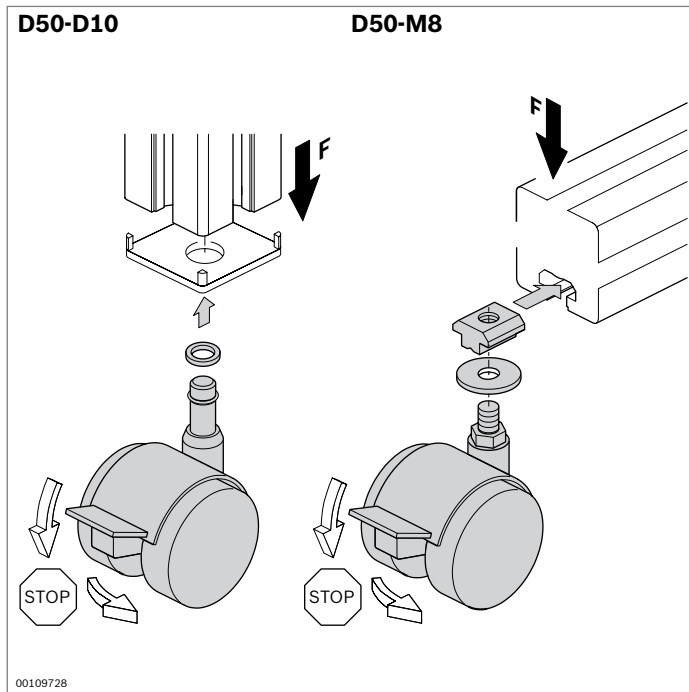
Flange		No.
		3 842 533 305

Material: Flange: PA
Fastening material: Stainless steel



Cross connector		No.
		3 842 533 306

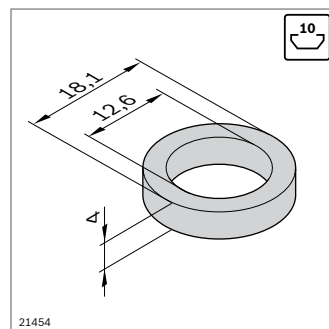
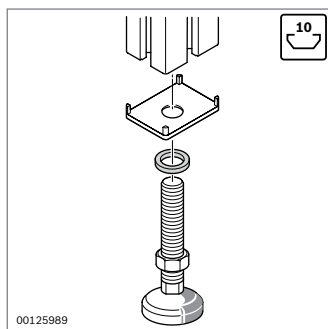
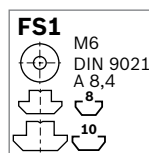
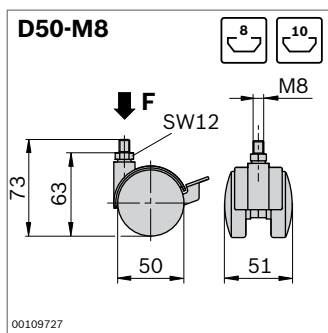
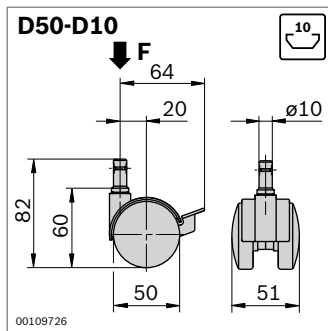
Material: PA
Fastening material, adjustment screw: Stainless steel



Double wheel



- ▶ Attractive-looking double wheel for light applications
- ▶ Made of oil-resistant material
- ▶ Double wheel with lock
- ▶ Double wheel D50-D10 for insertion in the central hole with a diameter of 10 mm
- ▶ Double wheel D50-M8 for bolting into 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
 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 $\leq 10^6 \Omega$

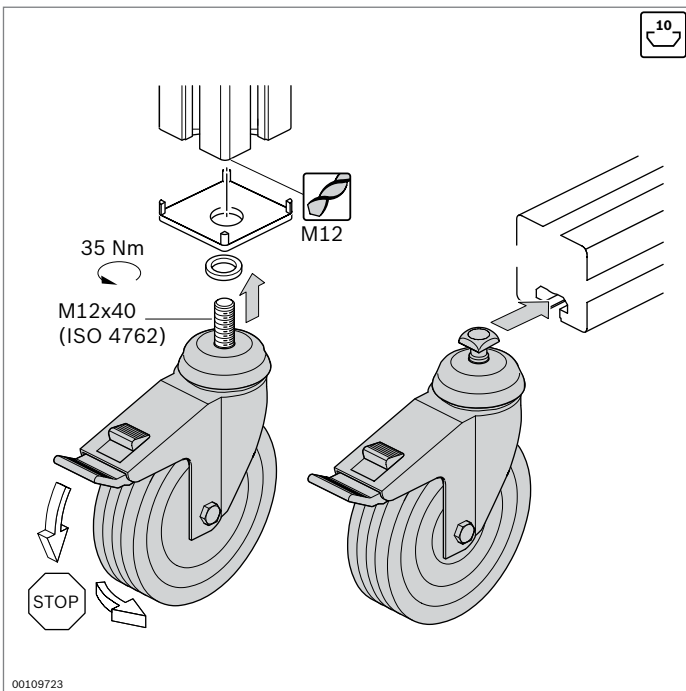
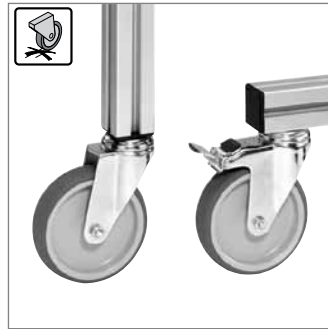
Material: Housing, wheel, lock: PA
 Running surface: PU (not with ESD version)
 Fastening material: steel; galvanized

Bearing ring

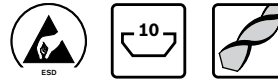
- ▶ For cover caps with hole in the sizes 40x40, 45x45, 50x50 and 60x60
- ▶ For M12 threads
- ▶ To protect the caps when tightening accessories

Bearing ring	No.
	100 3 842 555 653

Material: diecast zinc



Wheel



- ▶ Versatile range of uses
- ▶ Wheels with excellent running properties
- ▶ Available as a caster wheel with lock, caster, and trestle wheel



Especially gentle on floors



Resistant to oil, for use in workshop areas



Suitable for use in cleanrooms.

Conductive material version in accordance with DIN EN 61340-5-1; conduction resistance 10^3 to $10^8 \Omega$



Rubber running surface made of solid rubber with good deformation elasticity. No permanent flattening of the wheel due to it traveling over edges or not being moved for long periods



Suitable for ESD-sensitive areas.





























Conductive material version in accordance with DIN EN 61340-5-1; conduction resistance $\leq 10^6 \Omega$

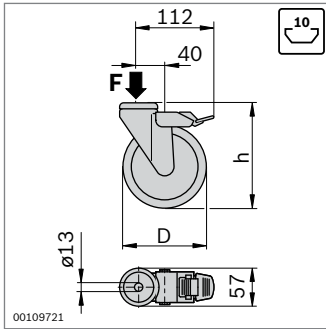
- ▶ Mounting of all wheel in the profile slot or central hole (accessories required)
- ▶ Profile finishing: thread cutting M12 in the case of assembly in central hole

Required accessories:

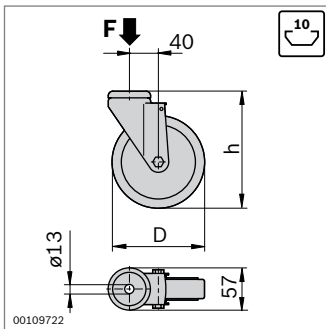
- ▶ Screw M12x40 (ISO 4762) for mounting in central hole (\cup 35 Nm)
- ▶ Bearing ring if cover cap with hole is used (p. 6-16)

Wheel selection guide

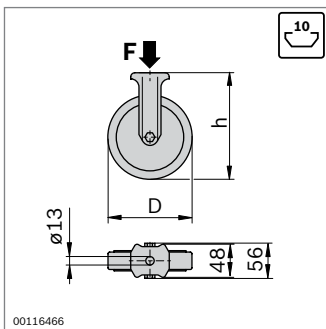
				
Tread	Thermoplastic rubber	Polyamide 6	Solid rubber	Polyurethane
ESD	yes / no (either possible)	No	Yes	Yes
Tread hardness	 85° shore A	 70° shore D	 80° shore A	 94° shore A
Temperature resistance	 -20 °C ... +60 °C	 -25 °C ... 80 °C	 -20 °C ... +60 °C	 -20 °C ... +60 °C
Rolling resistance	 very good	 outstanding	 good	 very good
Travel noise	 good	 satisfactory	 very good	 good
Floor protection	 good	 satisfactory	 very good	 good
Deformation elasticity	 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

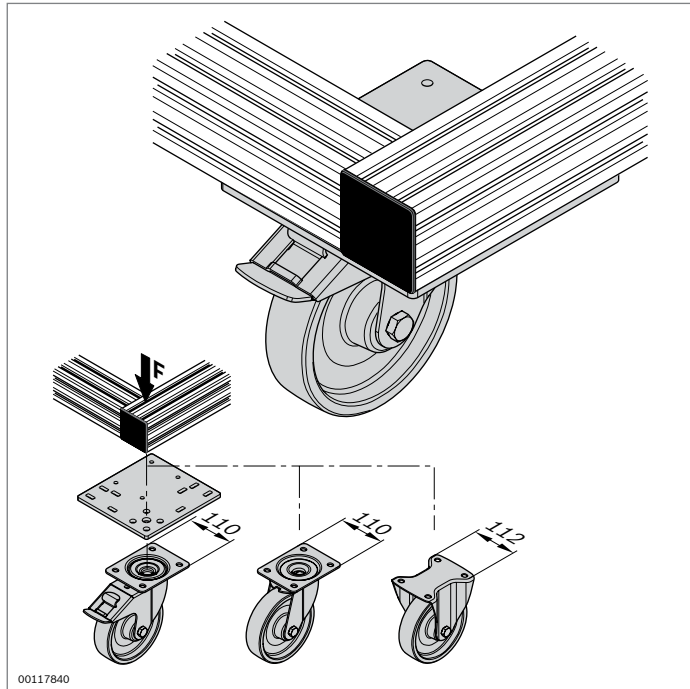
► Steerable caster with lock: lock prevents the wheel from rolling or turning

Caster wheel with lock	F (N)	D (mm)	h (mm)	ESD	No.	FS
	900	80	108		3 842 541 226	FS1
	1100	125	158		3 842 541 228	FS1
	900	80	108		3 842 541 230	FS1
	1100	125	158		3 842 541 232	FS1
	1100	125	158		3 842 515 367	FS1
	1000	125	158		3 842 524 499	FS1
	600	80	108		3 842 547 836	FS1
	800	125	158		3 842 547 838	FS1

Caster wheel	F (N)	D (mm)	h (mm)	ESD	No.	FS
	900	80	108		3 842 541 234	FS1
	1100	125	158		3 842 541 236	FS1
	900	80	108		3 842 541 238	FS1
	1100	125	158		3 842 541 240	FS1
	1100	125	158		3 842 515 366	FS1
	1000	125	158		3 842 524 500	FS1
	600	80	108		3 842 547 835	FS1
	800	125	158		3 842 547 837	FS1

Trestle wheel	F (N)	D (mm)	h (mm)	ESD	No.	FS
	900	80	108		3 842 541 242	FS1
	1100	125	158		3 842 541 244	FS1
	600	80	108		3 842 547 839	FS1
	800	125	158		3 842 547 840	FS1

- Material:
- Thermoplastic rubber
 - Reinforced PA
 - Gray PU; housing: steel, chrome-plated
 - Solid rubber
 - Conductive, conduction resistance $\leq 10^6 \Omega$



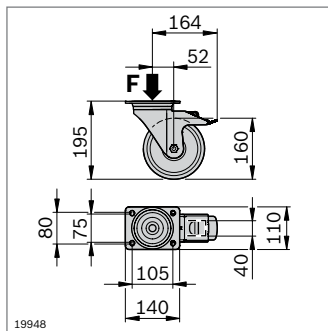
Heavy-duty wheel



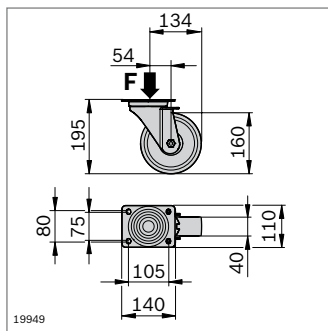
- ▶ Heavy-duty wheel with mounting flange
- ▶ Available as a caster wheel with lock, caster, and trestle wheel
- ▶ Heavy-duty, particularly suited for workshop applications
- ▶ Wheels with excellent running properties

Required accessories:

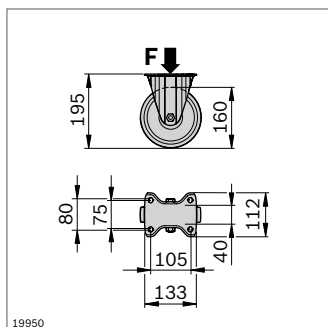
- ▶ screw M10x16 (ISO 4762), washer ISO 7089-10, lock washer 10FSt for fastening to the screw-on plate
- ▶ T-bolt, flange nut, central bolt M12 or S12 for fastening the screw-on plate to the profile frame



19948



19949



19950

Caster wheel with lock	F (N)	No.
	3000	3 842 536 736

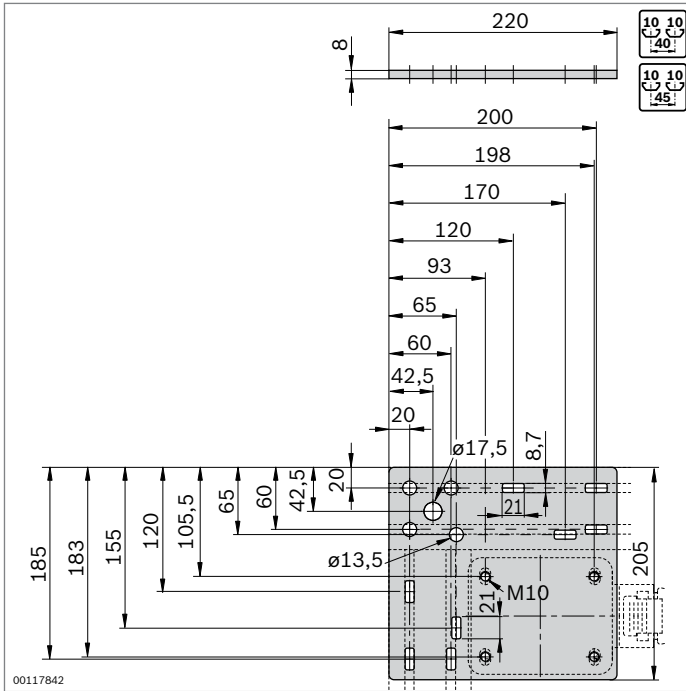
Material: Housing: steel, galvanized,
Wheel: TPU

Caster wheel	F (N)	No.
	3000	3 842 536 737

Material: Housing: steel, galvanized,
Wheel: TPU

Trestle wheel	F (N)	No.
	3000	3 842 536 738

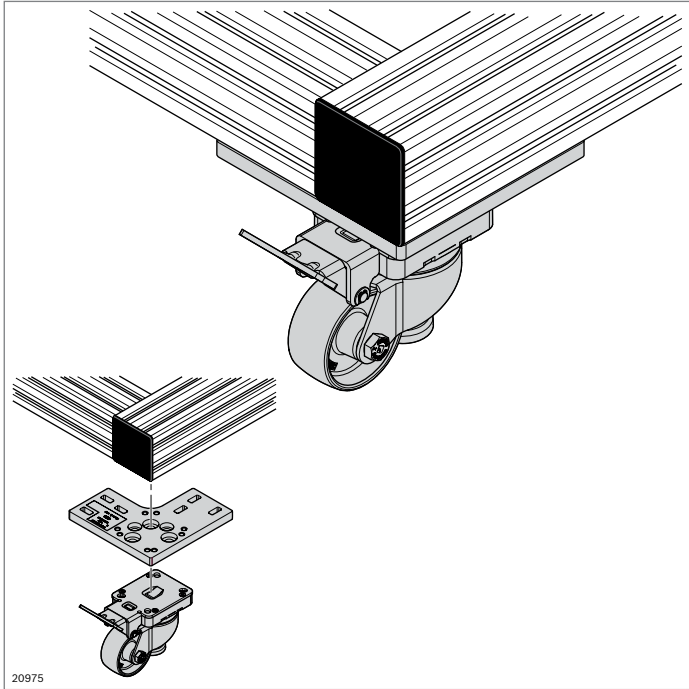
Material: Housing: steel, galvanized,
Wheel: TPU



- Screw-on plate for attachment to 40 mm or 45 mm profiles

Screw-on plate	No.
4	3 842 536 701

Material: steel; galvanized



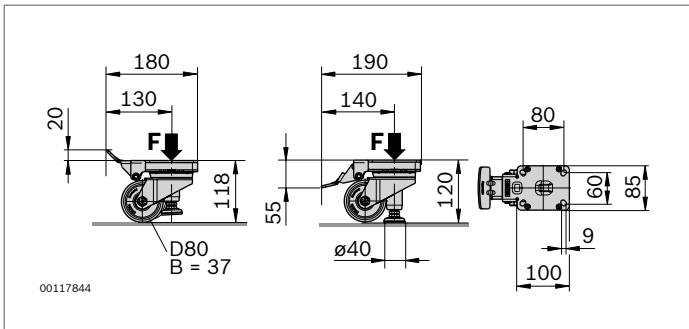
Lifting wheel



- ▶ Steerable lifting wheel
- ▶ The wheel turns into a stable base simply by engaging the stop lever
- ▶ Screw-on plate for mounting the lifting wheel
- ▶ With “Ideal-Stop”: locking lever does not swivel with the steerable castor but remains in the defined position. The locking lever is fixed in position on the frame by means of the screw-on plate, and the castor wheel moves freely

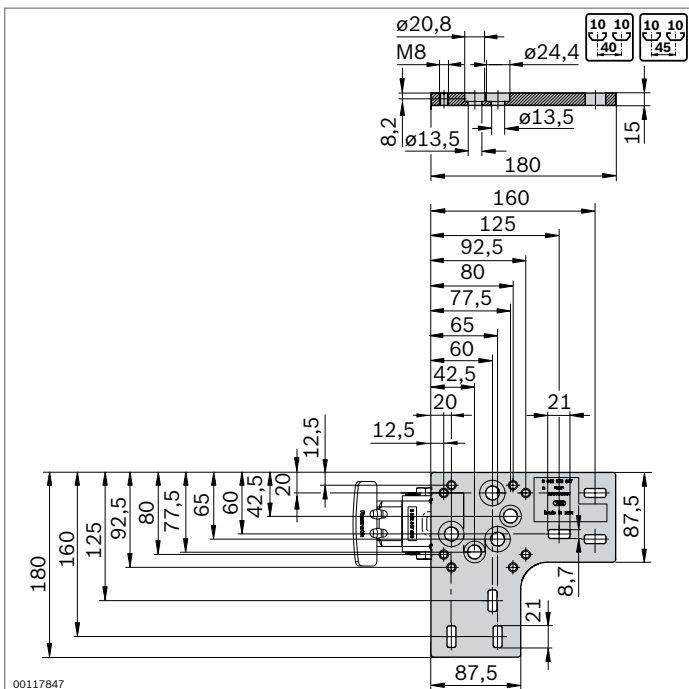
Required accessories:

- ▶ screw M8x35 (ISO 4762), washer 8 (DIN EN ISO 7089), locking washer 8 FSt for attaching to the screw-on plate
- ▶ T-bolt M8x30 (p. 3-6), flange nut M8 (p. 3-6), central bolt M12 or S12 (p. 3-40) for fastening the screw-on plate to the profile frame



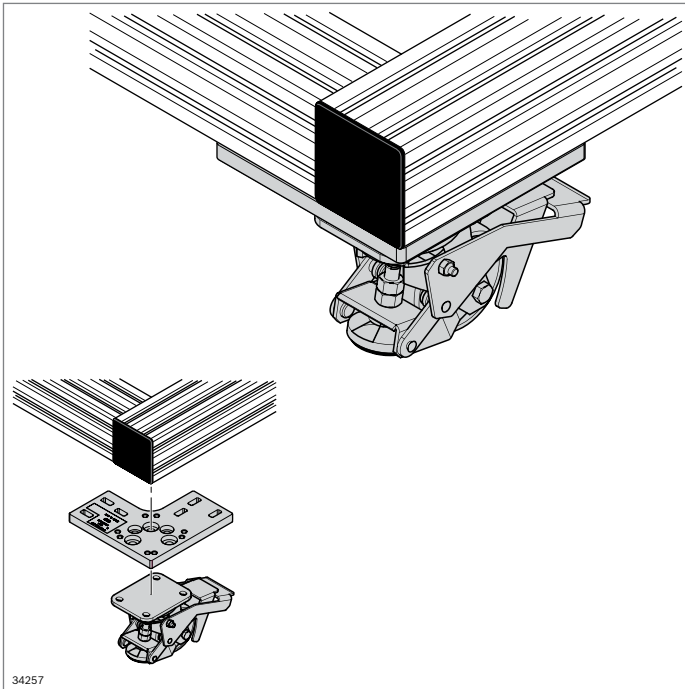
Lifting wheel	F (N)	No.
	2300	3 842 547 890

Material: Wheel: PA6, natural white
Housing: steel; galvanized
Base plate: rubber; gray



Screw-on plate	No.
	4 3 842 553 967

Material: Die-cast aluminum



34257

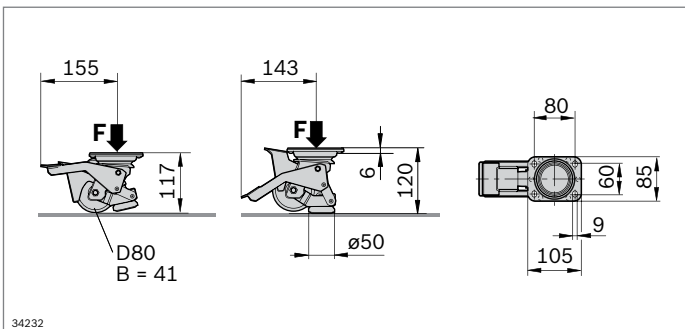
Lifting wheel - rotatable pedal



- ▶ Steerable lifting wheel
- ▶ The wheel turns into a stable base simply by engaging the stop lever
- ▶ The locking lever moves with the wheel
- ▶ The locking lever can be moved under the frame if necessary

Required accessories:

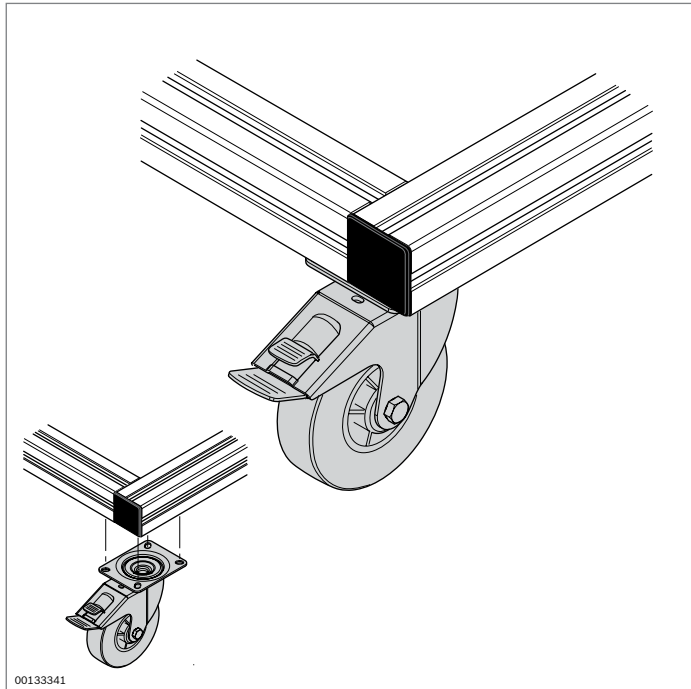
- ▶ screw M8x20 (ISO4762), washer 8 (DIN EN ISO 7089), locking washer 8 FSt for attaching to the screw-on plate
- ▶ Screw-on plate 3 842 553 967 (p. 6-22)
- ▶ T-bolt, flange nut, central bolt M12 or S12 for fastening the screw-on plate to the profile frame



34232

Lifting wheel	F (N)	No.
Rotatable pedal	2000	3 842 555 610

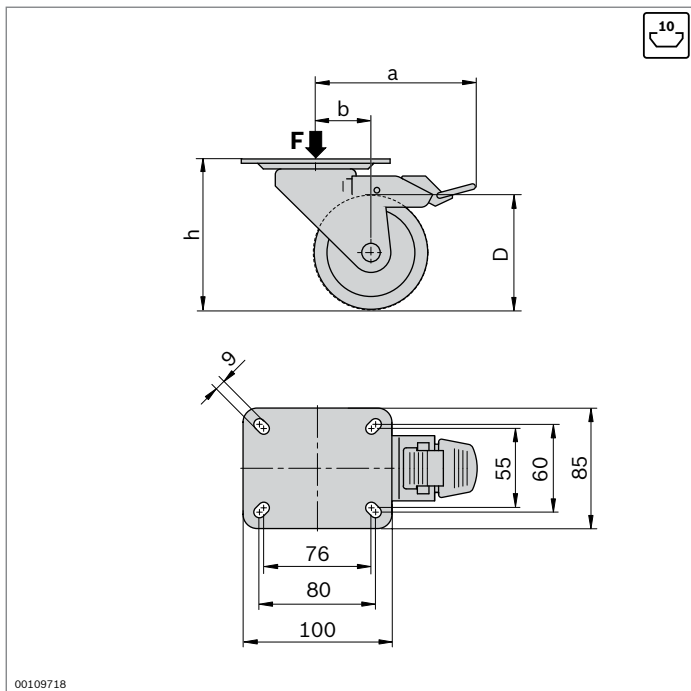
Material: Wheel: PA6, natural white
 Housing: steel; galvanized
 Base plate: PA; rubber black



Wheel with mounting flange

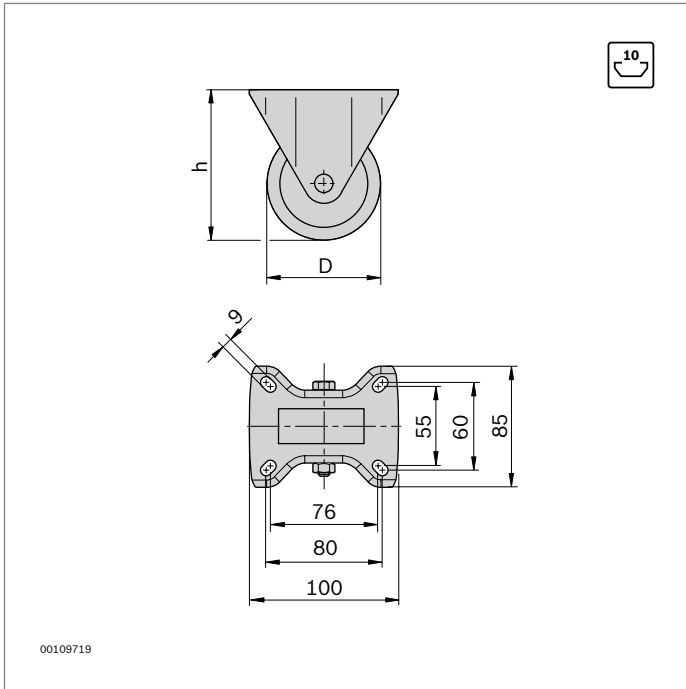


- ▶ Robust rollers with mounting flange
- ▶ Good running properties, particularly suitable for workshop areas
- ▶ Available as a caster wheel with lock and as a trestle wheel
- ▶ Steerable caster with lock: lock prevents the wheel from rolling or turning



Caster wheel	F (N)	D	h	a	b	No.
		(mm)	(mm)	(mm)	(mm)	
	600	100	125	113	36±2	3 842 259 790
	900	125	150	123	40±2	3 842 259 791

Material:
 Wheel: Solid rubber
 Rims: polypropylene
 Housing: sheet steel; galvanized



FS1

- ISO 4762
- M8x16
- 8-FSt
- DIN 125, 8,4
- M8
-

Trestle wheel	F (N)	D (mm)	h (mm)	No.
	600	100	125	3 842 259 792
	900	125	150	3 842 259 793

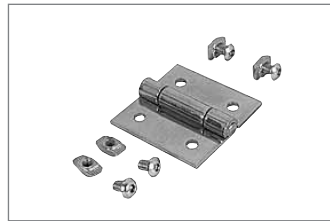
Material: Wheel: Solid rubber
 Rims: polypropylene
 Housing: sheet steel; galvanized

Mounting kit	No.	FS
	3 842 259 794	3xFS1

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 swinging and
sliding doors
(p. 8-11, 8-15)



Door lock (p. 8-12)



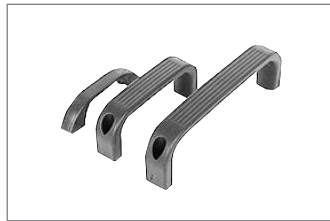
Door lock for EcoSafe
sliding doors (p. 8-13)



Door lock for swing doors
(p. 8-14, 8-17)



Mortise lock for swing doors (p. 8-21)



Bow-type handle (p. 8-23)



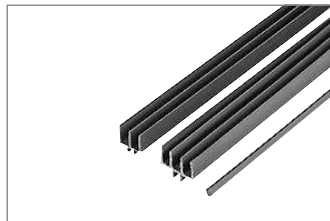
Safety handle (p. 8-24)



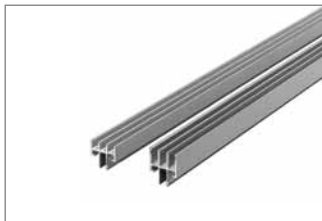
Sealing strip (p. 8-25)
Sealing profile (p. 8-26)



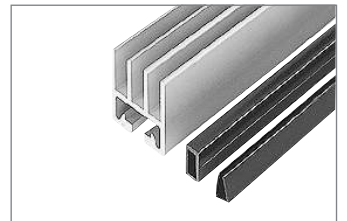
Slider (p. 8-27)



Sliding door profile PVC (p. 8-28)



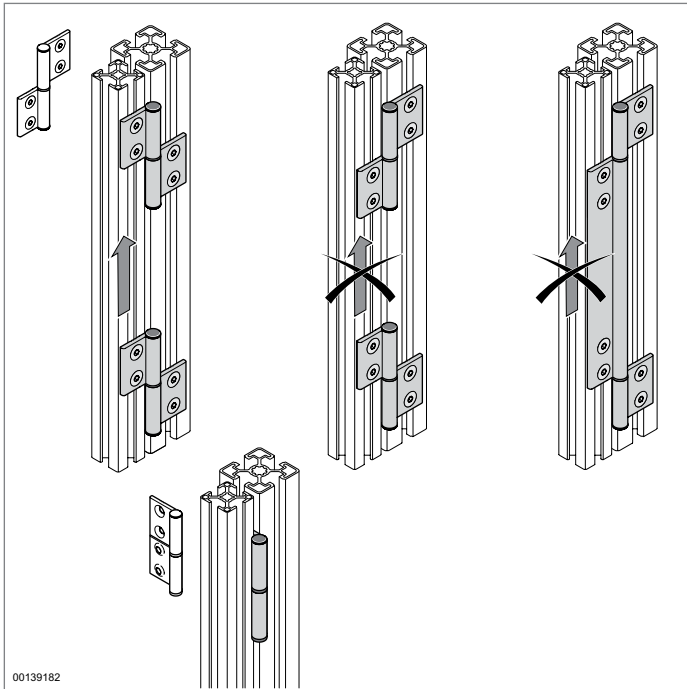
Sliding door profile Al Clip (p. 8-29)



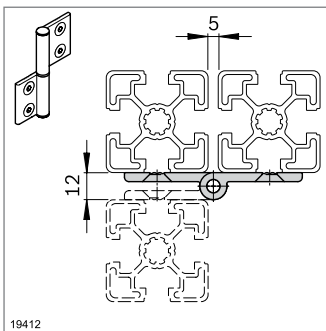
Sliding door profile Al 45 (p. 8-30)



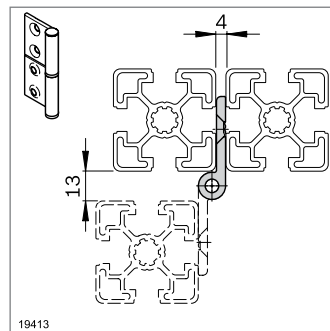
Edge protector, door handle profile (p. 8-32)



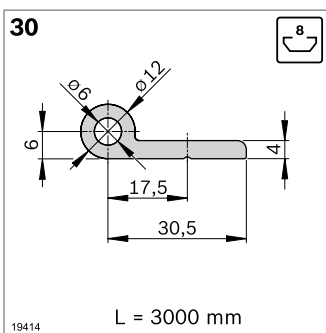
00139182



19412

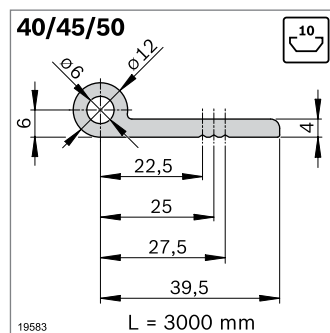


19413



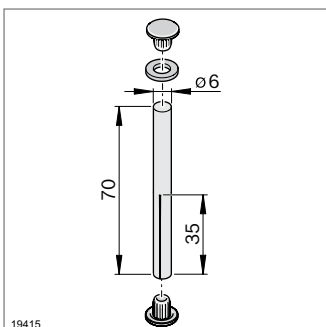
19414

L = 3000 mm



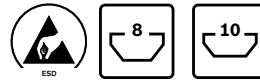
19583

L = 3000 mm



19415

Hinge profile



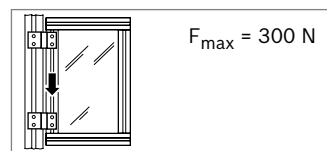
- ▶ For self-assembly of hinges or hinge bands
- ▶ Can be used as a hinge band for non-transparent covering of the door crack
- ▶ Hinge profiles for slot dimensions 30 and 40/45/50 can also be combined for maximum flexibility
- ▶ For doors with profile frames or doors made of solid surface elements
- ▶ Fitted on outside or inside
- ▶ Assembly as removable and non-removable hinges
- ▶ Opening to the right and left
- ▶ Centering slots as a drill guide for mounting bores
- ▶ Required finishing:
 - cut the hinge halves to length
 - drill for fixing

Required accessories:

- ▶ hinge pins
- ▶ T-nut M6 (p. 3-4)
- ▶ screw ISO 10642 M6x12 (8 mm slot)
- ▶ screw ISO 10642 M6x16 (10 mm slot)

Hinge profile	L (mm)	No.
30	3000	10 3 842 543 371
40/45/50	3000	10 3 842 543 372

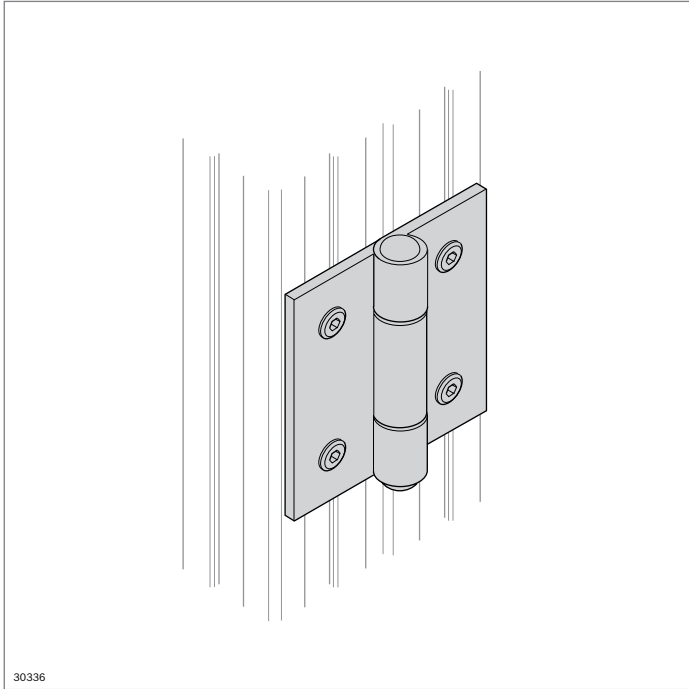
Material: aluminum, anodized



hinge pins	No.
	10 3 842 544 661

Material: Grooved pin: steel; galvanized
Washer, cap: PA

Scope of delivery: incl. grooved pin, 2 x cap, washer

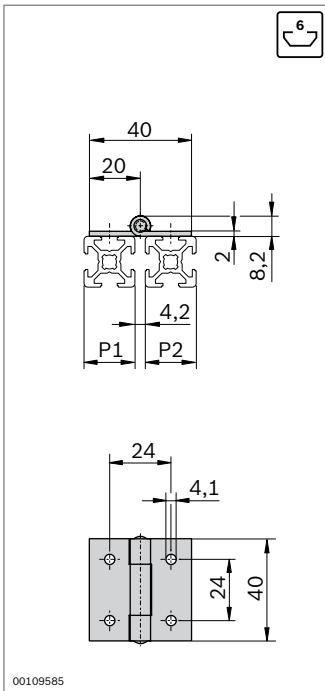


30336

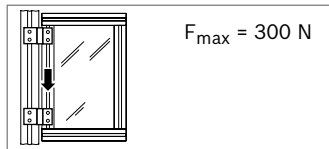
Hinge



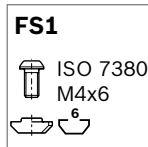
- ▶ Assembly possible on solid surface elements
- ▶ For small doors and flaps
- ▶ Steel hinge for profiles with 6 mm slot





00109585

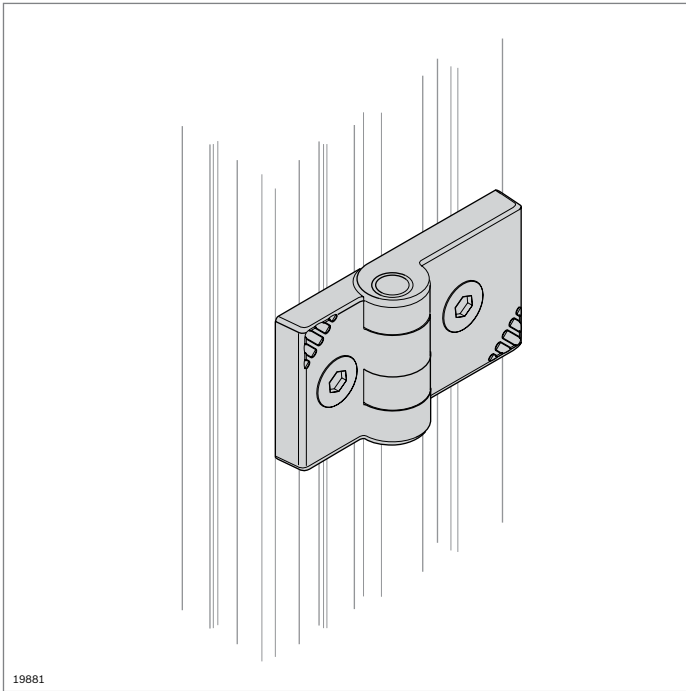


$F_{max} = 300 \text{ N}$



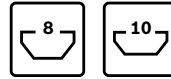
Hinge	P1 (mm)	P2 (mm)	ESD	No.	FS
	20	20		2	3 842 535 684 4xFS1

Material: steel, stainless
 Fastening material: steel; galvanized
 Scope of delivery: incl. fastening material (FS)

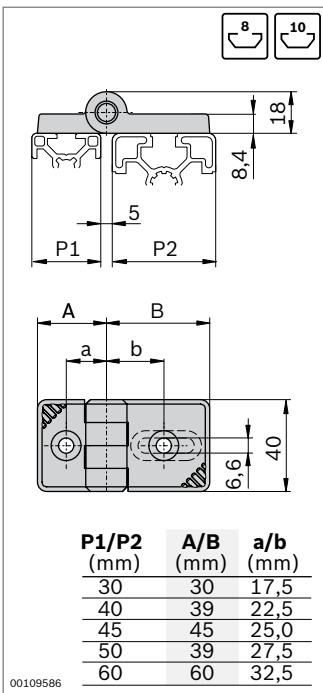


19881

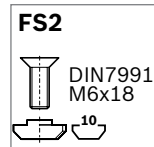
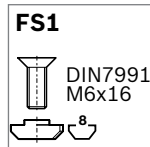
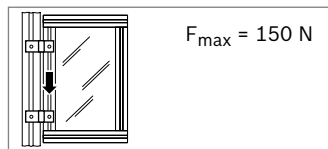
Hinge, plastic




- ▶ Plastic hinge for profiles with 8 mm or 10 mm slot
- ▶ Assembly possible on solid surface elements
- ▶ Centering bolts for easy assembly and as a anti-torsion element



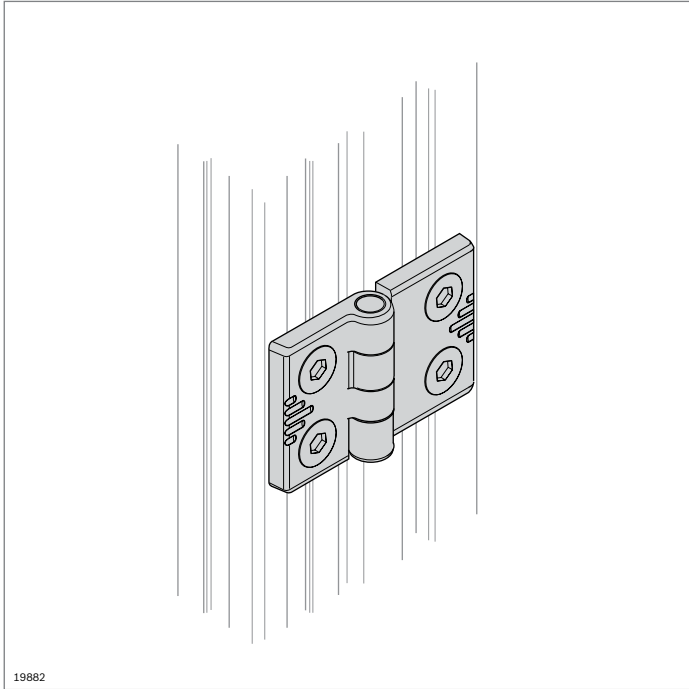
00109586



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

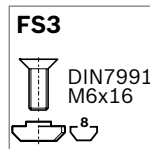
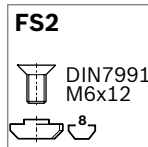
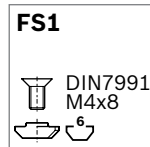
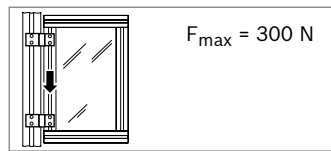
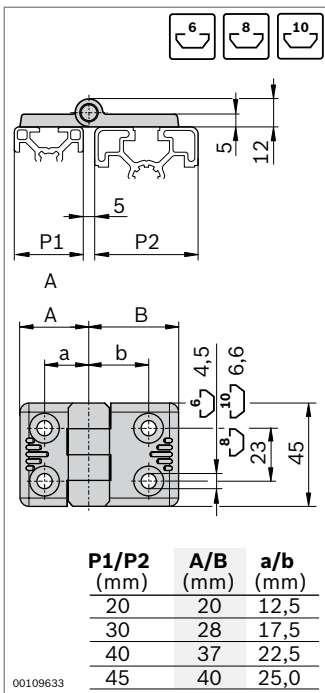
Scope of delivery: incl. fastening material (FS)



Hinge, aluminum



- ▶ Aluminum hinge for all slot systems
- ▶ Assembly possible on solid surface elements
- ▶ High-quality version
- ▶ Conductive version
- ▶ Suitable for use under clean room conditions thanks to abrasion-resistant guide bushings

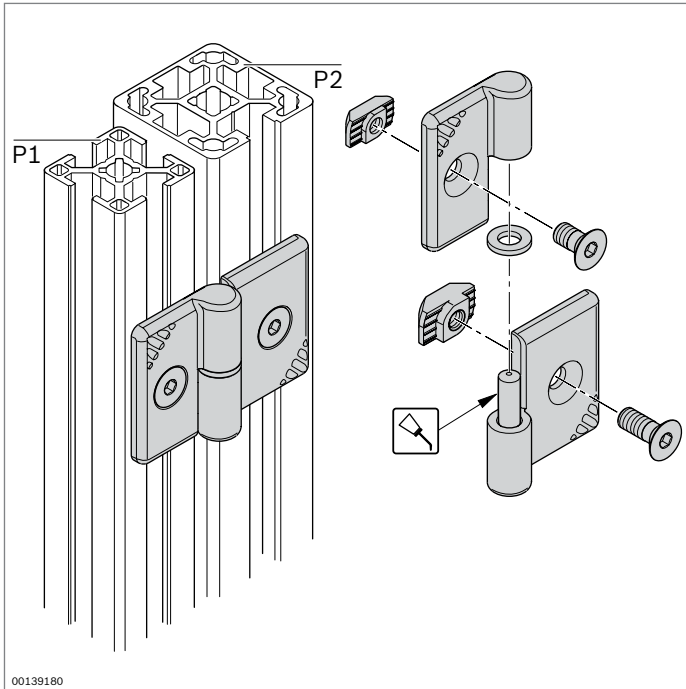


Hinge, aluminum	P1 (mm)	P2 (mm)	ESD	No.	FS
	20	20	ESD	2 3 842 544 525	4xFS1
	20	30	ESD	2 3 842 544 526	2xFS1, 2xFS2
	30	30	ESD	2 3 842 544 527	4xFS2
	30	40	ESD	2 3 842 544 528	2xFS2, 2xFS3
	30	45	ESD	2 3 842 544 529	2xFS2, 2xFS3
	40	40	ESD	2 3 842 544 530	4xFS3
	45	45	ESD	2 3 842 544 531	4xFS3

Material: diecast aluminum; nickel-plated
Fastening material: steel; galvanized

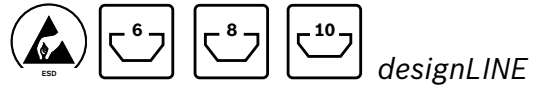
Scope of delivery: incl. fastening material (FS)



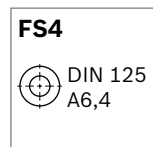
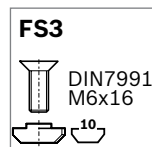
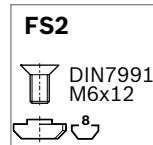
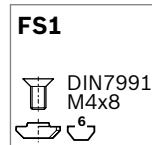
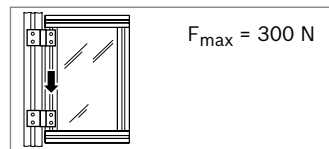
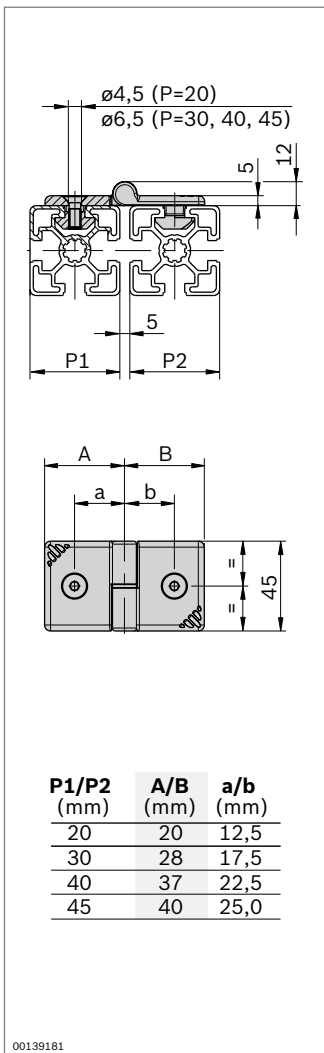


00139180

LIFTOFF hinge



- ▶ Compact, removable hinge for doors which open 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



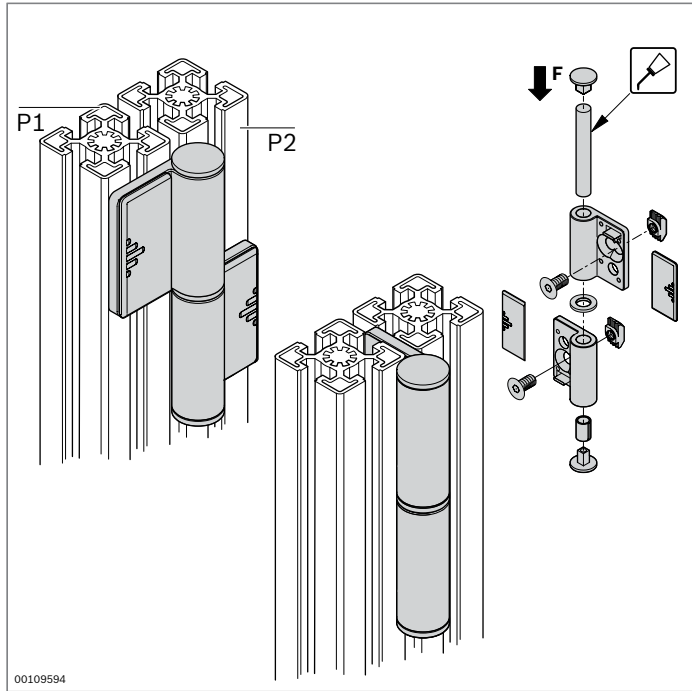
P1/P2 (mm)	A/B (mm)	a/b (mm)
20	20	12,5
30	28	17,5
40	37	22,5
45	40	25,0

00139181

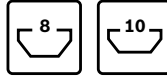
LIFTOFF hinge	P1 (mm)	P2 (mm)	No.	FS
right	20	20	2	3 842 543 334 2xFS1, FS4
	20	30	2	3 842 543 333 FS1, FS2, FS4
	30	30	2	3 842 543 332 2xFS2, FS4
	30	40	2	3 842 543 331 FS2, FS3, FS4
	30	45	2	3 842 543 330 FS2, FS3, FS4
	40	40	2	3 842 543 329 2xFS3, FS4
	45	45	2	3 842 543 328 2xFS3, FS4
left	20	20	2	3 842 543 327 2xFS1, FS4
	20	30	2	3 842 543 326 FS1, FS2, FS4
	30	30	2	3 842 543 325 2xFS2, FS4
	30	40	2	3 842 543 324 FS2, FS3, FS4
	30	45	2	3 842 543 323 FS2, FS3, FS4
	40	40	2	3 842 543 322 2xFS3, FS4
	45	45	2	3 842 543 321 2xFS3, FS4

Material: Hinge: diecast aluminum, painted
 Fastening material: steel; galvanized
 Grooved pin: steel; galvanized
 Washer: PA

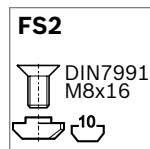
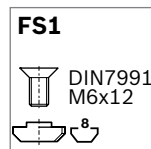
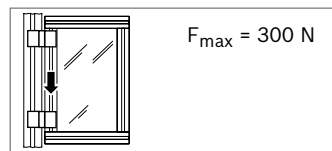
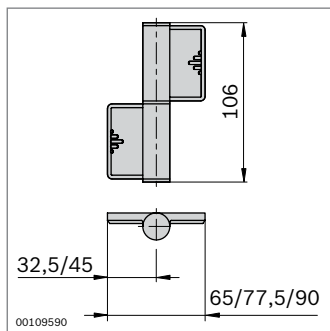
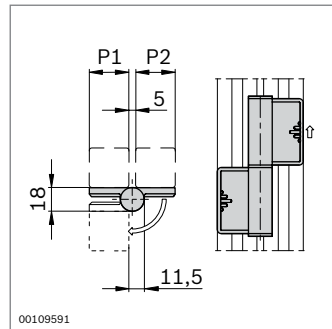
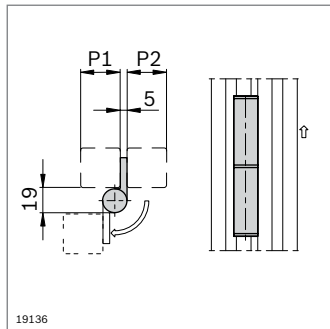
Scope of delivery: incl. fastening material (FS)




Hinge, removable



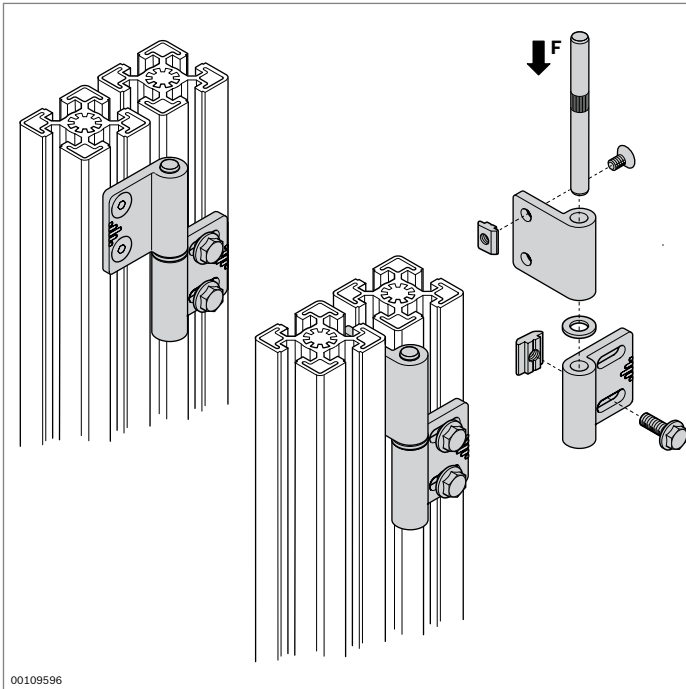
- ▶ For constructing large, heavy doors
- ▶ Removable
- ▶ For left and right stop
- ▶ Externally mounted: opening angle approx. 180°
- ▶ Internally mounted: Prevents unauthorized removal, e.g. for safety devices



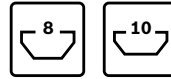
Hinge, removable	P1 (mm)	P2 (mm)	No.	FS
	30	30	2	3 842 544 552 2xFS1
	30	45	2	3 842 544 553 1xFS1,
	30 ¹⁾	60		1xFS2
	45	45	2	3 842 544 554 2xFS2
	45 ¹⁾	60		
	60 ¹⁾	60		

¹⁾ Not suitable for installing on inner side

Material: Hinge: diecast zinc
 Cover cap: PA; black
 Fastening material: steel; galvanized
 Scope of delivery: incl. fastening material (FS), 2 x cap



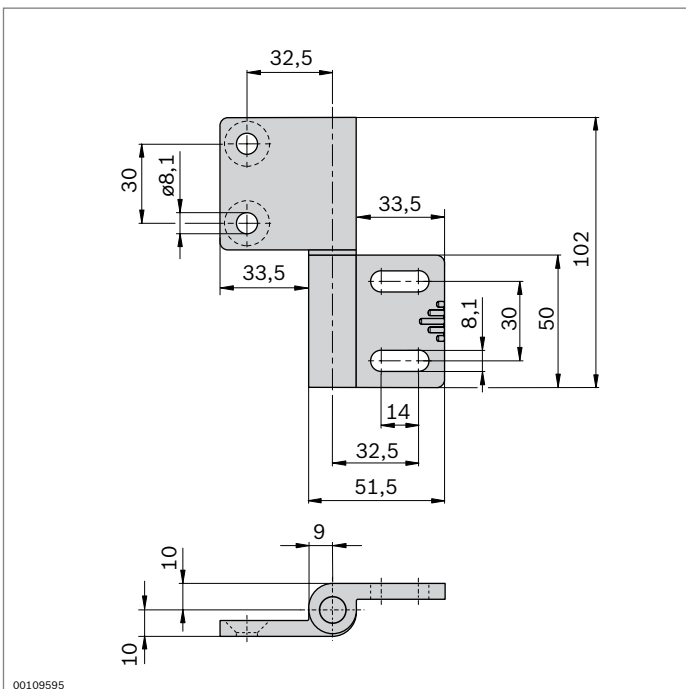
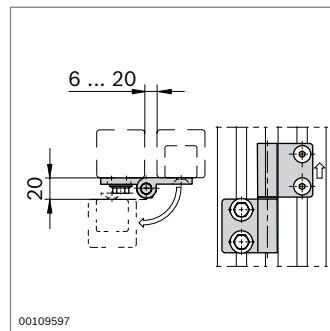
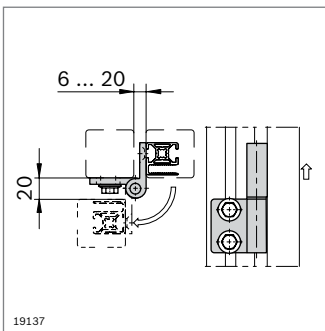
Hinge, adjustable




- ▶ For constructing large, heavy doors
- ▶ Adjustable for compensating clearance tolerances
- ▶ Removable
- ▶ For left and right stop
- ▶ opening angle approx. 180°

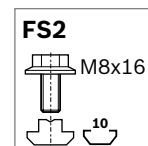
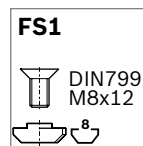
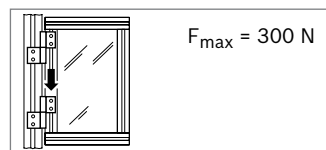
Accessories:

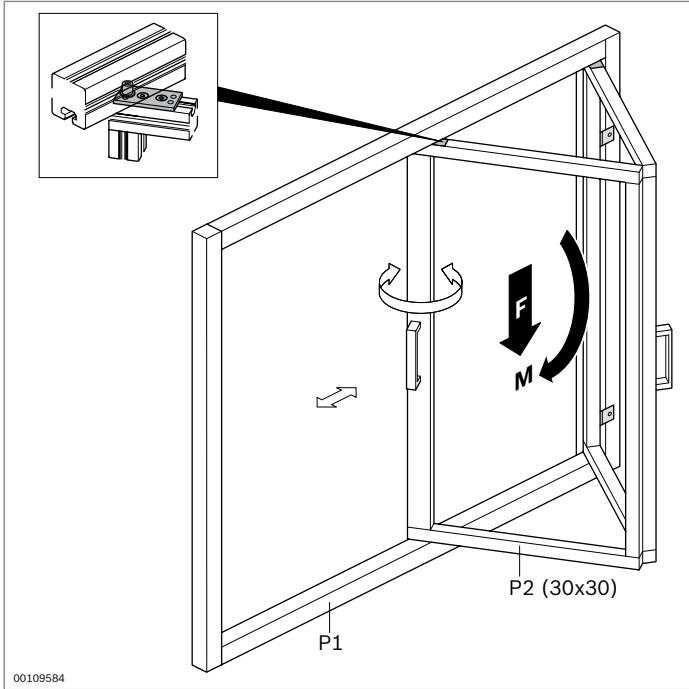
T-nut slot 10, M8 (p. 3-4) for fixing a door with 10 mm slot



Hinge, adjustable	No.	FS
	2 3 842 544 562	2xFS1, 2xFS2

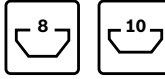
Material: diecast aluminum
 Fastening material: steel; galvanized
 Scope of delivery: incl. fastening material (FS)



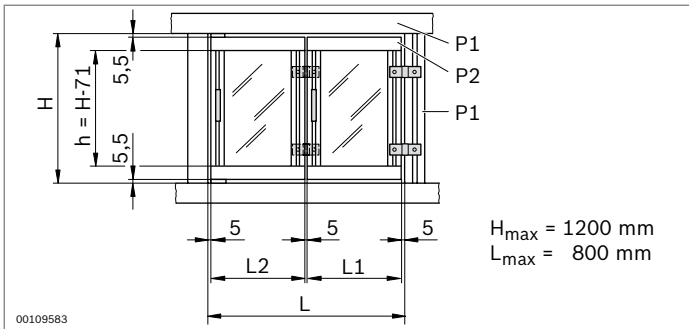


00109584

Folding door element

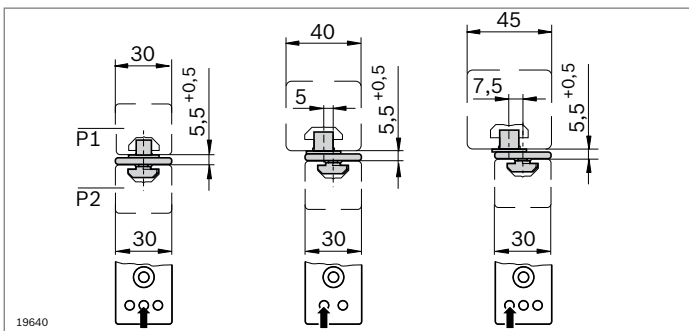


- ▶ For a simultaneous swinging and sliding motion for making folding doors out of 30 mm profiles
- ▶ Extremely long service life (approx. 50,000 actuations)
- ▶ Suitable for frames made of profiles with 8 mm and 10 mm slot
- ▶ Frame and door profile are always flush (guide ring position depends on the thickness of the frame profile)

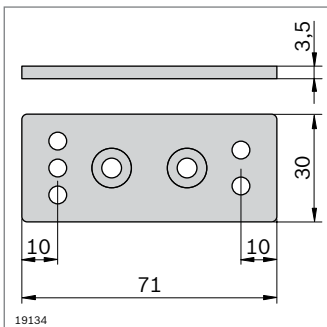


00109583

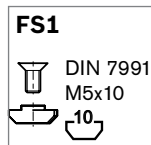
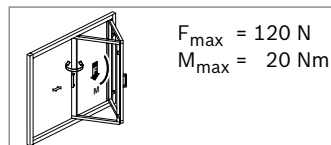
P2 (mm)	P1 (mm)	L1 (mm)	L2 (mm)
30X30	45x45	0.5L - 29.5	0.5L + 14.5
	40x40	0.5L - 28.3	0.5L + 13.3
	30x30	0.5L - 25.8	0.5L + 10.8



19640



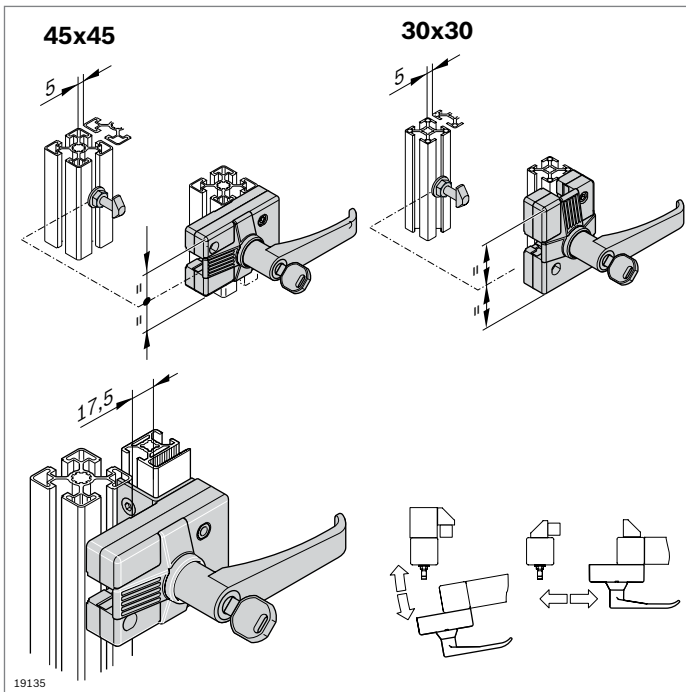
19134



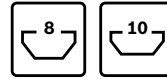
Folding door element	No.	FS
	3 842 516 715	2xFS1

Material: Folding door element: diecast zinc
Guide ring: PA; black
Fastening material: steel; galvanized

Scope of delivery: incl. fastening material (FS)

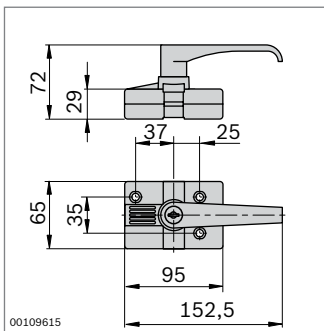


Door lock for swinging and sliding doors



- ▶ 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



FS1

ISO 4762
M6x30



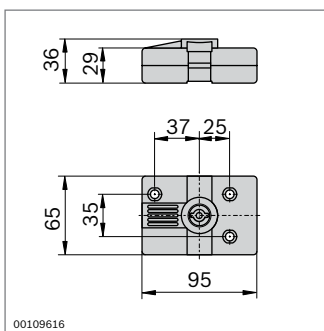
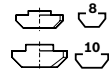
FS2

DIN 9021
A6,6
ISO 4032
M6



FS3

M6



FS1

ISO 4762
M6x30



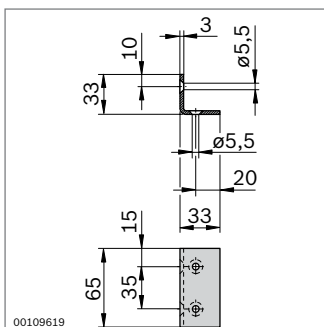
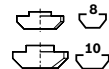
FS2

DIN 9021
A6,6
ISO 4032
M6



FS3

M6



FS4

DIN 7991
M6x10



FS5

DIN 7991
M6x30
ISO 4032
M6



Door lock	No.	FS
Standard locking	30x30, 45x45	3 842 525 821 2xFS1, 1xFS2, 3xFS3
Uniform locking	30x30, 45x45	3 842 525 822 2xFS1, 1xFS2, 3xFS3

Material: Housing: Die-cast aluminum
Door handle: PA, black
mounting material: steel; galvanized
Scope of delivery: incl. 3 keys, fastening material (FS)

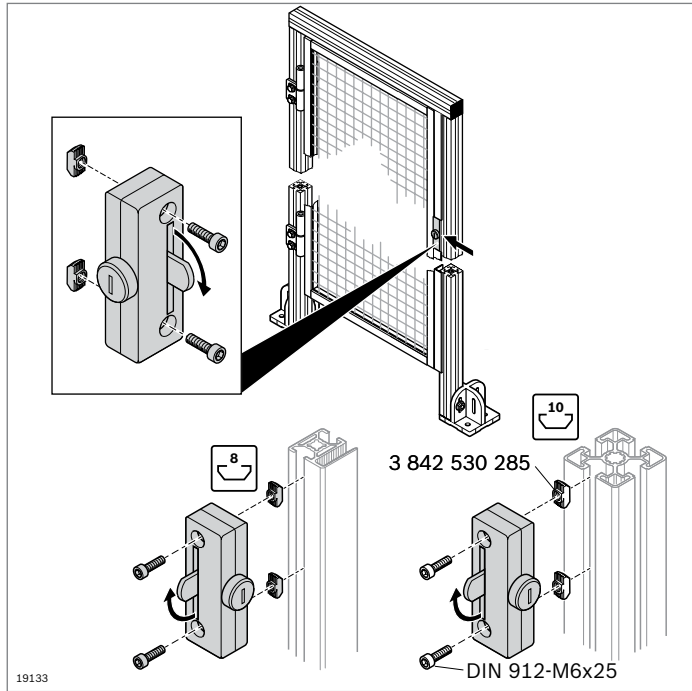
Door lock	No.	FS
	30x30, 45x45	3 842 525 823 2xFS1, FS2, 3xFS3

Material: diecast aluminum
Fastening material: steel; galvanized
Scope of delivery: incl. 1 x two-way key, fastening material (FS)

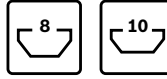
- ▶ Adapter plate for mounting the door lock on an EcoSafe protective frame (p. 10-6)

Adapter plate	No.	FS
	3 842 523 243	2xFS4, 2xFS5

Material: steel, galvanized
Fastening material: steel; galvanized
Scope of delivery: incl. fastening material (FS)



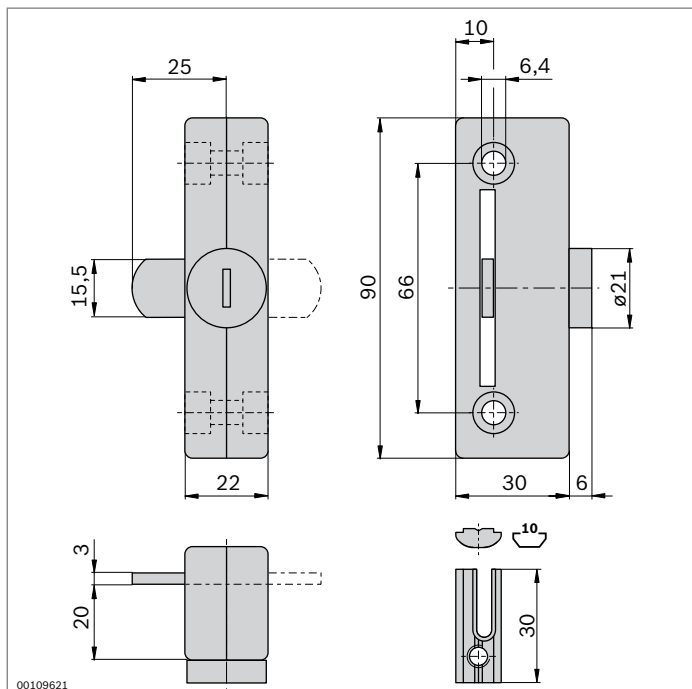
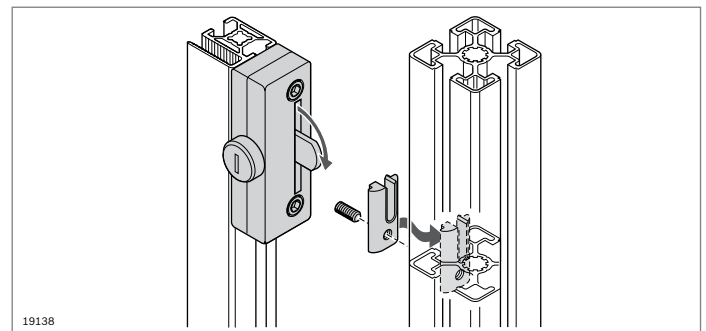
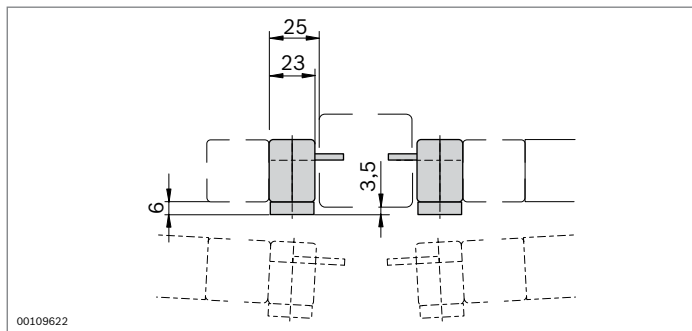
Door lock



- ▶ 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

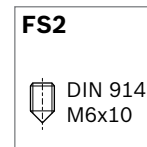
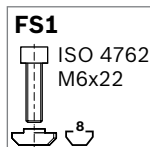
Accessories for mounting on profile with 10 mm slot:

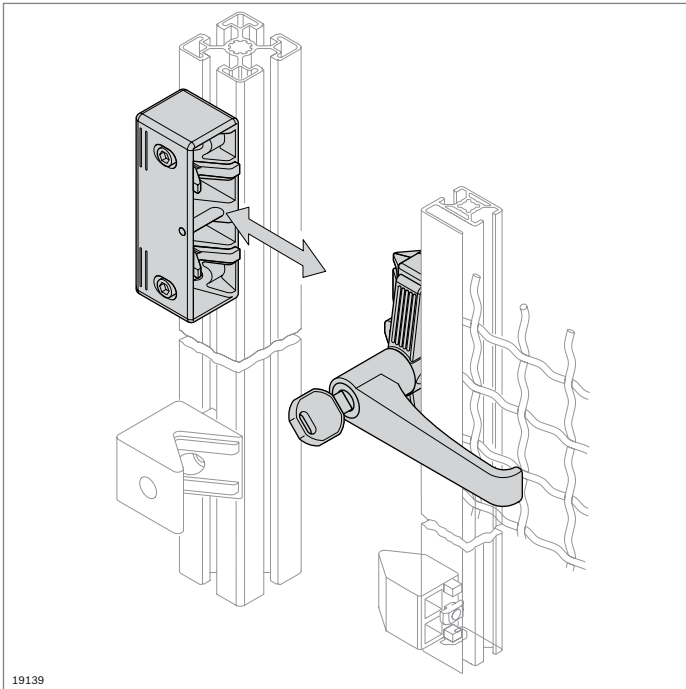
- ▶ 2 x T-nut M6, **3 842 530 285** (p. 3-4)
- ▶ 2 x screw DIN 912-M6x25



Door lock	No.	FS
Standard locking	3 842 522 479	2xFS1, 1xFS2
Uniform locking	3 842 523 320	2xFS1, 1xFS2

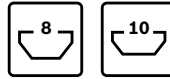
Material: diecast zinc
Fastening material: steel; galvanized
Scope of delivery: incl. 3 keys, fastening material (FS)





19139

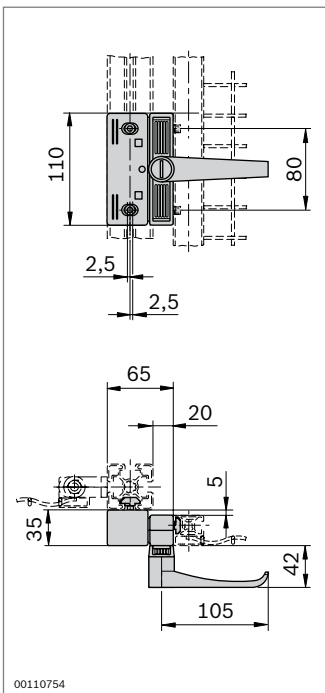
Door lock for EcoSafe sliding doors



- ▶ 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:

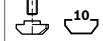
Stop kit for cushioned closing of the doors (p. 12-5)



00110754

FS1

DIN 7984
M6x40



FS2

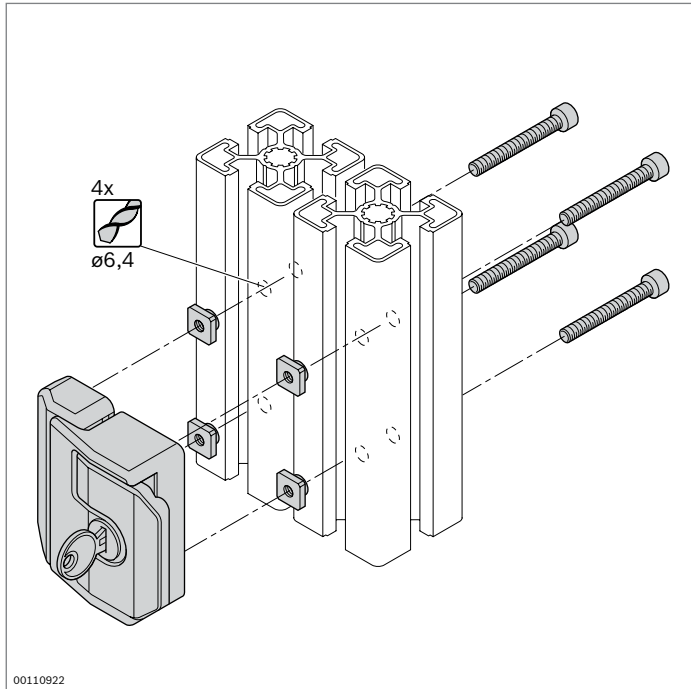
DIN 912
M6x12



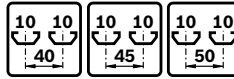
Door lock for sliding doors	No.	FS
Standard locking	3 842 525 946	2xFS1, 2xFS2
Uniform locking	3 842 525 947	2xFS1, 2xFS2

Material: Housing: Die-cast aluminum
Door handle: PA, black
mounting material: steel; galvanized

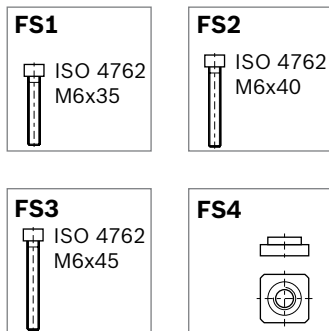
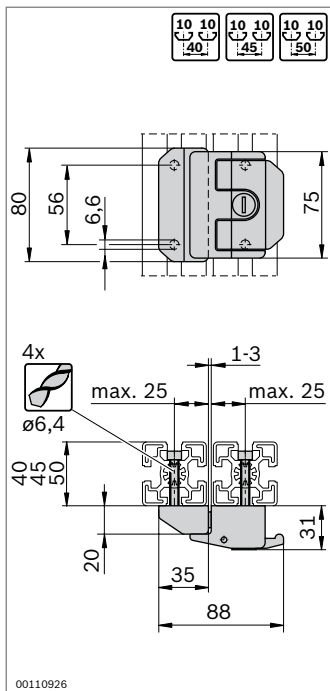
Scope of delivery: incl. 3 keys, fastening material (FS)



Door lock for swing doors

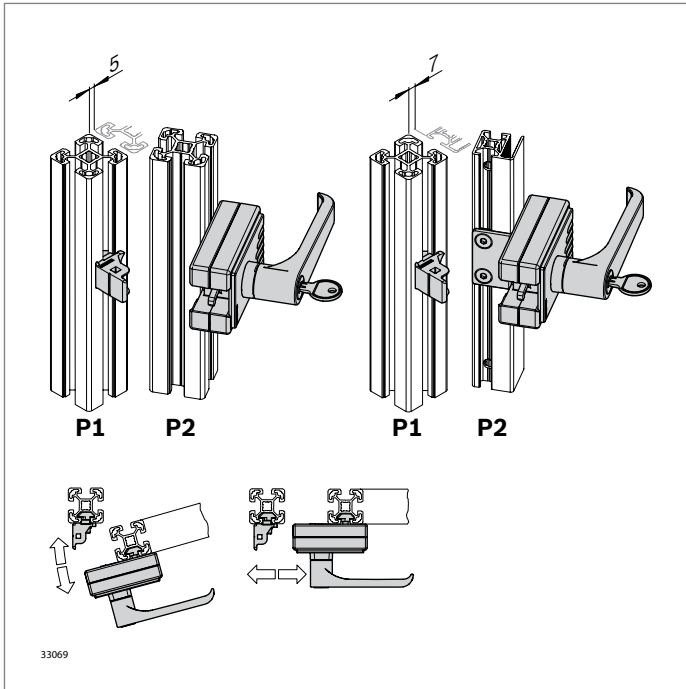


- ▶ Opening to the right and left
- ▶ Self-locking mechanism in the closed position
- ▶ Smooth closing
- ▶ Ergonomically designed folding handle for opening
- ▶ “Standard locking” variant with random key selection (each lock has a different key)
- ▶ “Uniform locking” variant always has the same key
- ▶ Profile finishing: drilling of hole D6.4

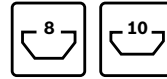


Door lock	No.	FS
Standard locking	3 842 530 353	4xFS1, 4xFS2, 4xFS3, 4xFS4
Uniform locking	3 842 530 352	4xFS1, 4xFS2, 4xFS3, 4xFS4

Material: diecast zinc; black powder-coated
 Fastening material: steel; galvanized
 Scope of delivery: incl. 2 keys, fastening material (FS)



Door lock “multi-use” for swing and sliding doors

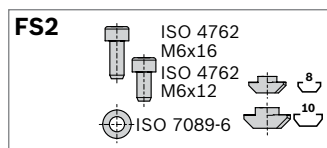
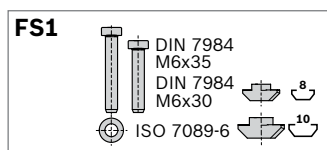
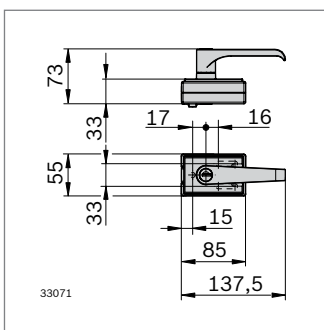


- ▶ Opening to the right and left
- ▶ For numerous profile combinations
- ▶ “Standard locking” variant with random key selection (each lock has a different key)
- ▶ “Uniform locking” variant always has the same key
- ▶ Version with door handle or as two-way lock
- ▶ Covered fastening screws
- ▶ Differing 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

Optional accessories:

Adapter plate for connecting to a WG40 or WG30 woven wire grille profile (p. 10-9)

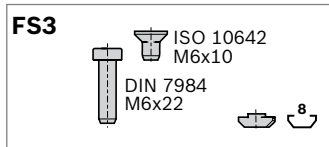
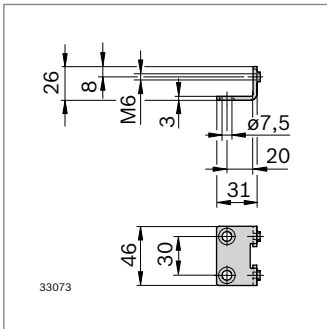
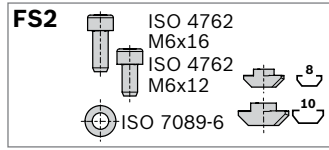
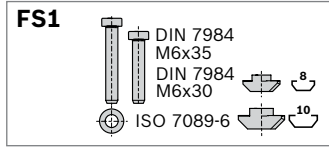
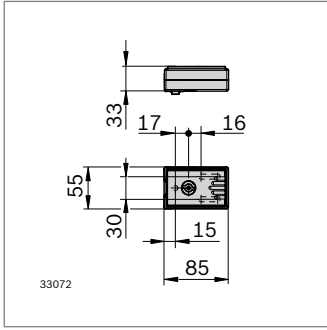
P1	P2	P2	P2	P2	P2
30	WG30/40	30	–	–	–
40	WG30/40	30	40	–	–
45	WG30/40	30	40	45	–
50	WG30/40	30	40	45	50
60	WG30/40	30	40	–	–



Door lock “multi-use” for swing and sliding doors	No.	FS
Standard locking	3 842 548 971	2xFS1, FS2
Uniform locking	3 842 548 970	2xFS1, FS2

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
---	-----	----

Two-way lock	3 842 548 965	2xFS1, FS2
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Material: Housing: diecast zinc
Cover: PP; signal gray RAL 7004 fastening material: steel; galvanized

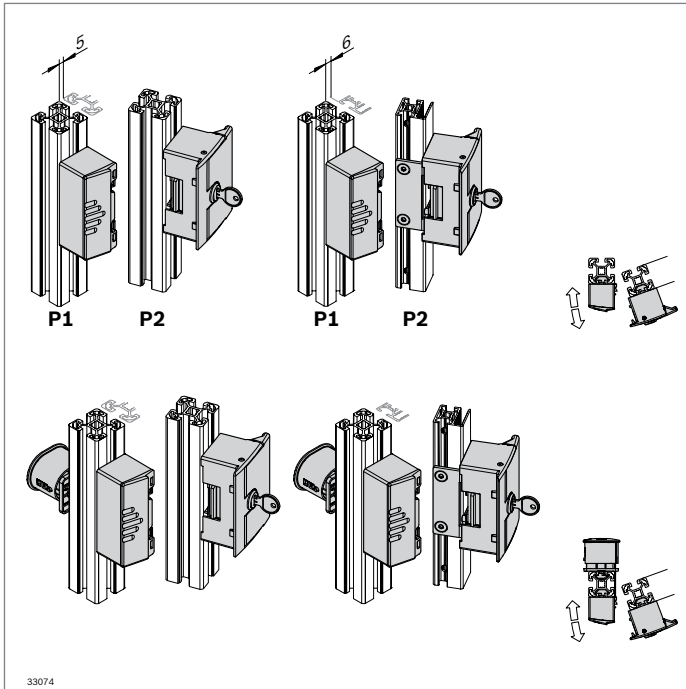
Scope of delivery: incl. 1x two-way key, fastening material

Adapter plate	No.	FS
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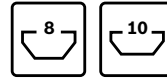
EcoSafe	3 842 548 969	2xFS3
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Material: steel; galvanized
Fastening material: steel; galvanized

Scope of delivery: Incl. fastening material



Door lock “compact” for swing doors

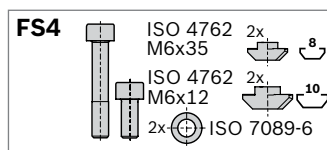
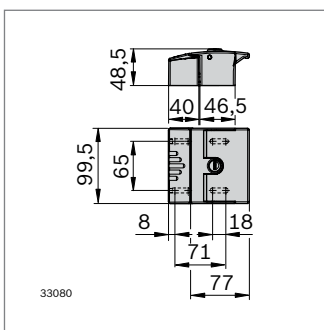


- ▶ Opening to the right and left
- ▶ For numerous profile combinations
- ▶ “Standard locking” variant with random key selection (each lock has a different key)
- ▶ “Uniform locking” variant always has the same key
- ▶ Covered fastening screws
- ▶ Installation of an emergency opening mechanism for unlocking 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)

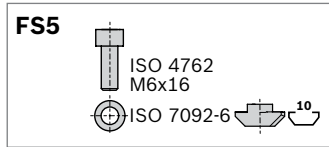
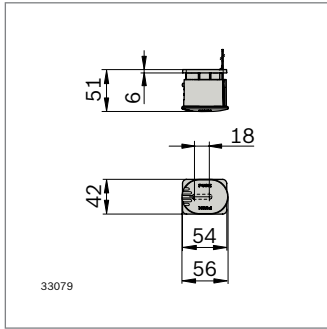
P1	P2	P2	P2	P2	P2
30	WG30/40	30	–	–	–
40	WG30/40	30	40	–	–
45	WG30/40	30	40	45	–
50	WG30/40	30	40	45	50
60	WG30/40	–	40	45	50



Door lock “compact” for swing doors	No.	FS
Standard locking	3 842 553 640	2xFS4
Uniform locking	3 842 553 639	2xFS4

Material: Housing: diecast aluminum
Cover: PP; signal gray RAL 7004 fastening material: steel; galvanized

Scope of delivery: incl. 2 keys, fastening material

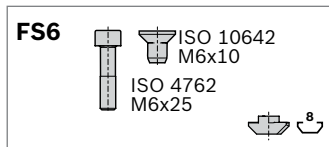
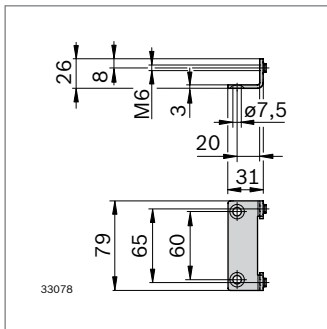


► For emergency opening of the door lock “compact” from the inside in its locked state

Emergency unlocking	No.	FS
Compact	3 842 554 134	FS5

Material: steel; galvanized
 Pushbutton: PA6; red RAL 3020 fastening material: steel; galvanized

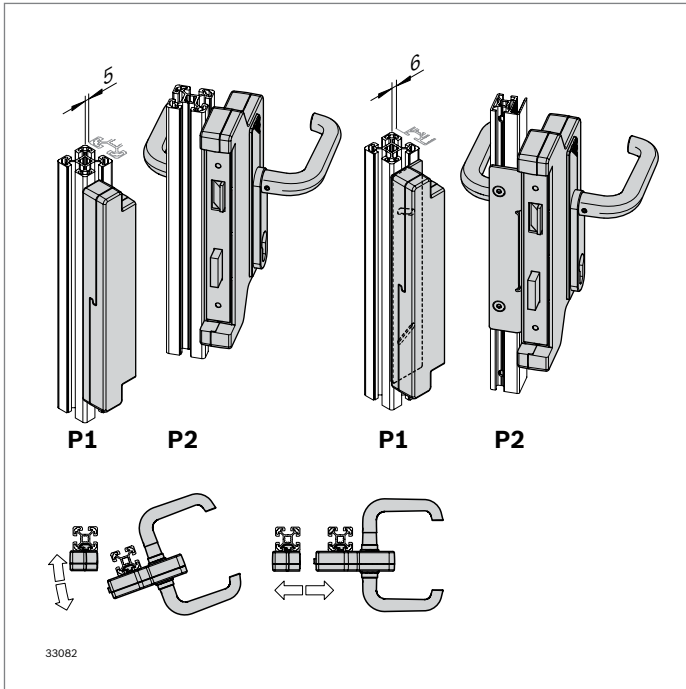
Scope of delivery: Incl. fastening material



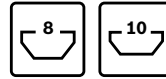
Adapter plate	No.	FS
EcoSafe	3 842 554 136	2xFS6

Material: steel; galvanized
 Fastening material: steel; galvanized

Scope of delivery: Incl. fastening material



Chamber lock for swing and sliding doors

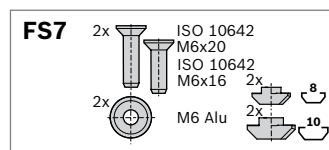
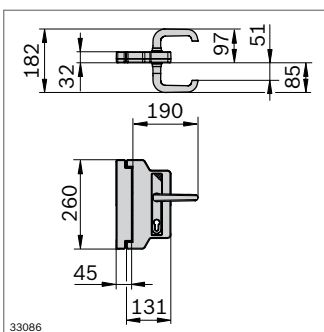


- ▶ Opening to the right and left
- ▶ For numerous profile combinations
- ▶ For installation of a standard lock cylinder (not included in the scope of delivery)
- ▶ Version with door handle, can be opened from inside and outside
- ▶ Without profile finishing
- ▶ Covered fastening screws

Optional accessories:

- ▶ Adapter plate for connecting to a WG40 or WG30 woven wire grille profile (p. 10-9)
- ▶ Lock cylinder (p. 8-20)

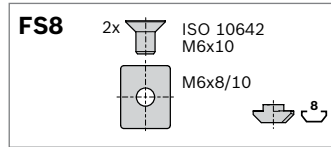
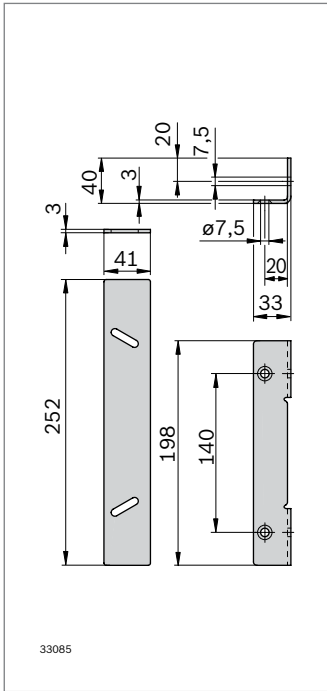
P1	P2	P2	P2	P2	P2
30	WG30/40	30	-	-	-
40	WG30/40	30	40	-	-
45	WG30/40	30	40	45	-
50	WG30/40	30	40	45	50
60	WG30/40	30	40	45	50



Chamber lock	No.	FS
Sliding door	3 842 554 151	2xFS7
Swing door	3 842 554 150	2xFS7

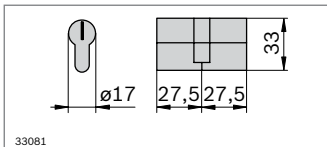
Material: Housing: PA6 signal gray (RAL7004); door handle: anodized aluminum;
Fastening material: steel; galvanized
Washer: aluminum

Scope of delivery: Incl. fastening material

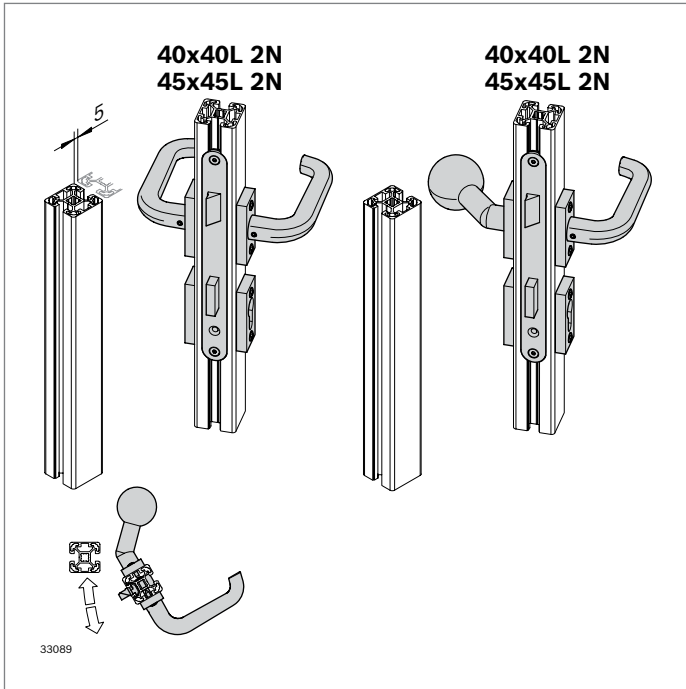


Adapter plate	No.	FS
Chamber lock	3 842 554 152	2xFS8

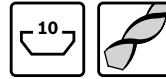
Material: steel; galvanized
Fastening material: steel; galvanized
Scope of delivery: incl. fastening material



- Conventional lock cylinder 27.5/27.5 is not included in the scope of delivery.



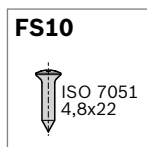
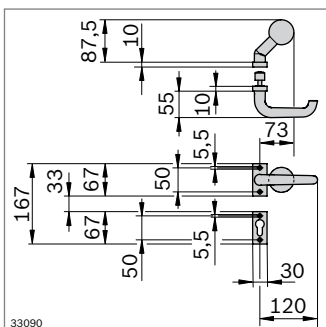
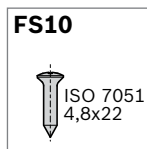
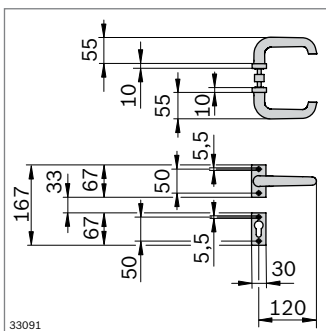
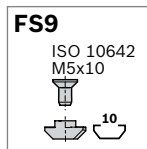
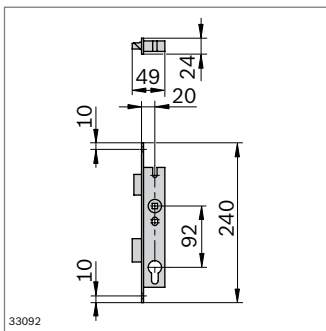
Mortise lock for swing doors



- ▶ For installation in 40x40L 2N or 45x45L 2N profiles
- ▶ For installation of a standard lock cylinder (not included in the scope of delivery)
- ▶ Robust design
- ▶ Door handle in the variants: Handle/handle, handle/knob
- ▶ Milled/drilled profile finishing
- ▶ Profile finishing can be ordered over Quick&Easy

Accessories:

- ▶ Handle/handle
- ▶ Handle/knob
- ▶ Lock cylinder (p. 8-22)



Mortise lock	No.	FS
	3 842 553 638	2xFS9

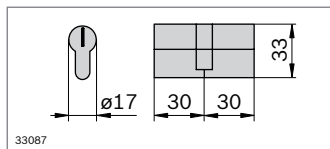
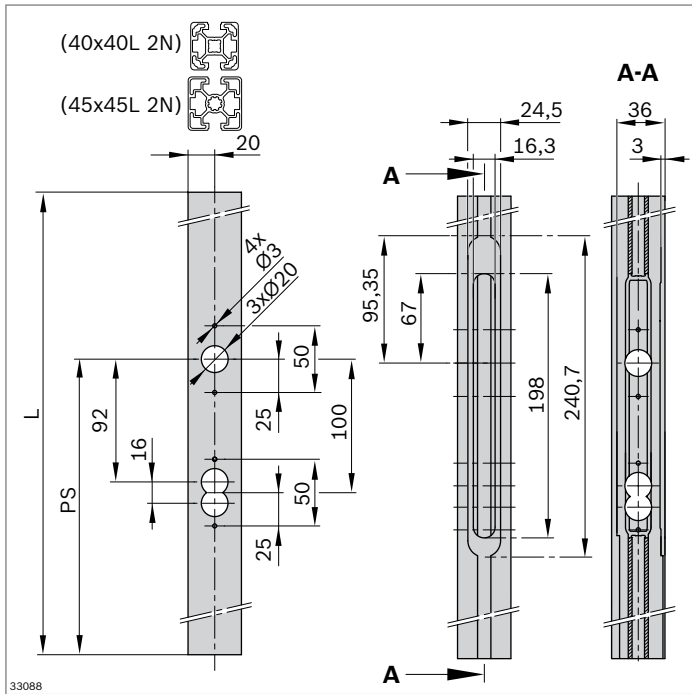
Material: Steel
 Fastening material: steel; galvanized
 Scope of delivery: Incl. fastening material

Handle/handle	No.	FS
	3 842 553 631	8x FS10

Material: aluminum, anodized
 Fastening material: steel; galvanized
 Scope of delivery: Incl. fastening material

Handle/knob	No.	FS
	3 842 553 630	8x FS10

Material: aluminum, anodized
 Fastening material: steel; galvanized
 Scope of delivery: Incl. fastening material

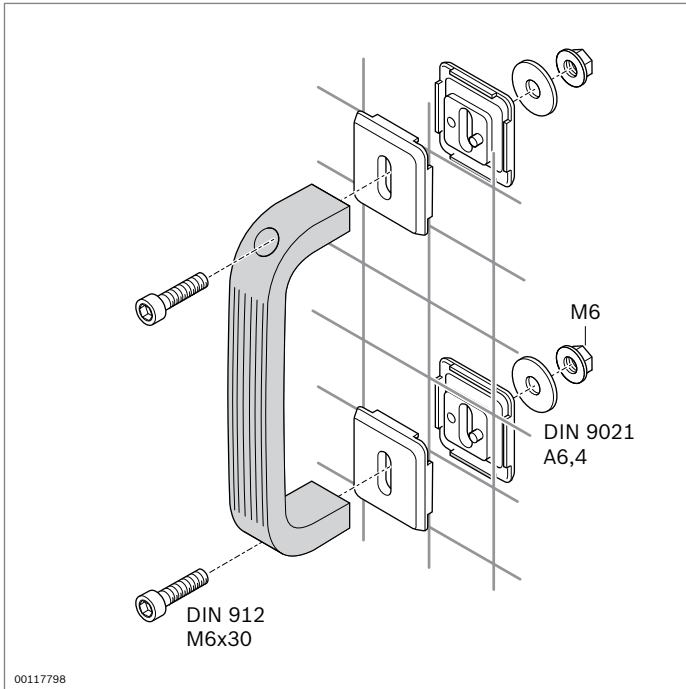


- ▶ Dimensional drawing of the profile finishing for mortise lock
- ▶ Finishing type "LM" (Lock Milling)
- ▶ Can be ordered over Quick&Easy

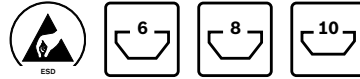
Strut profile	No.	Finishing type	Parameter
40x40L 2N	3 842 993 720	LM	PS, L
45x45L 2N	3 842 993 739	LM	PS, L

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

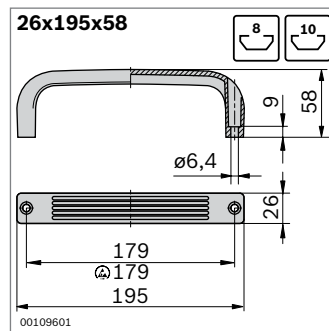
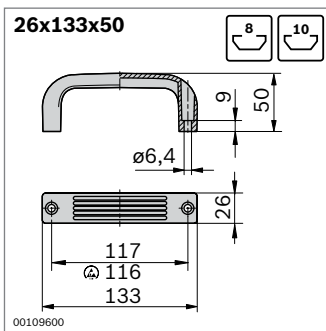
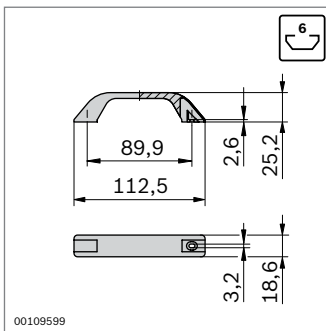


Bow-type handle

- ▶ 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)

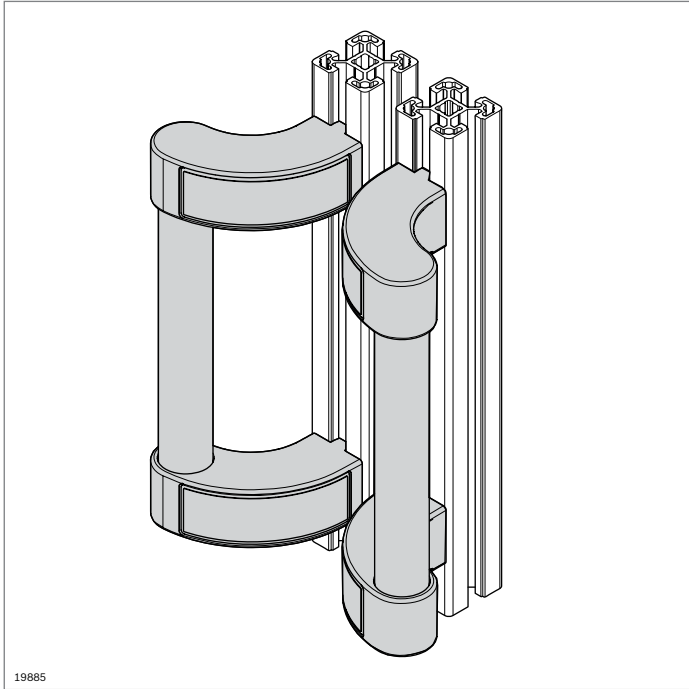


Bow-type handle	ESD	No.
	10	3 842 518 738

Material: PE; black

Bow-type handle	ESD	No.
26x133x50	10	3 842 525 480
	10	3 842 525 481
26x195x58	10	3 842 525 766
	10	3 842 525 767

Material: PA; black

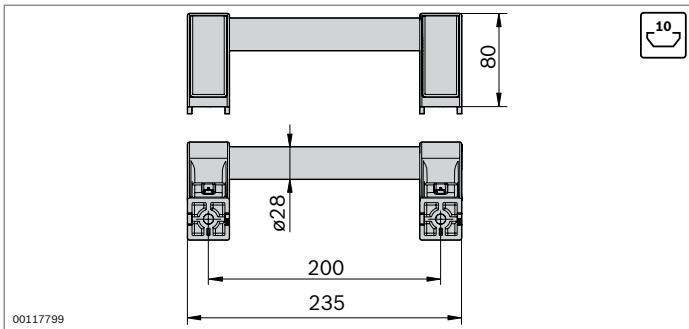


19885

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

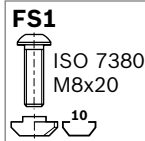


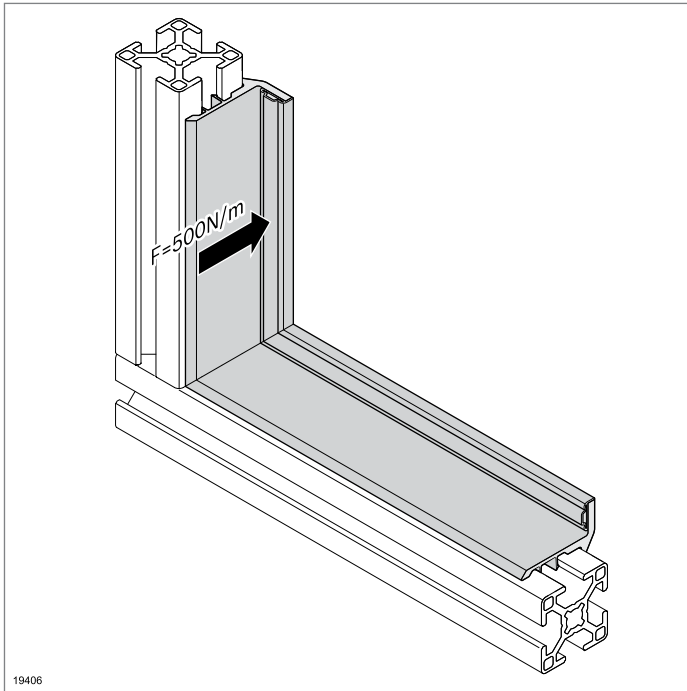
00117799

Safety handle	No.	FS
	3 842 536 556	2xFS1

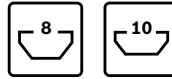
Material: Round tube D28: aluminum, anodized
Holder: PA; black

Scope of delivery: incl. fastening material (FS)

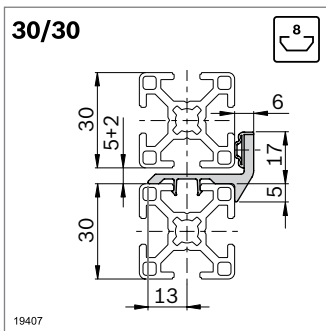




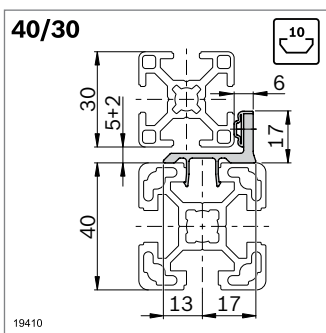
Sealing strip



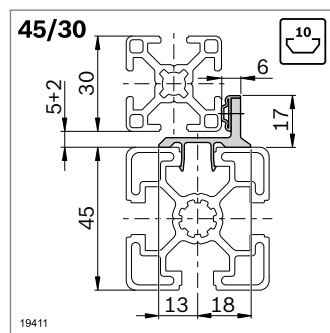
- ▶ For sealing doors (width > 500 mm) with an elastic lip seal
- ▶ Can be clipped into the slot
- ▶ Non-transparent elastic lip seal covers the door gap
- ▶ Stop for swing doors (impact force: 500 N/m)
- ▶ For flush-closing doors



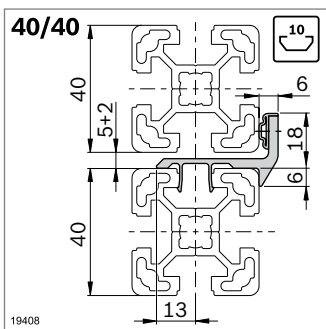
19407



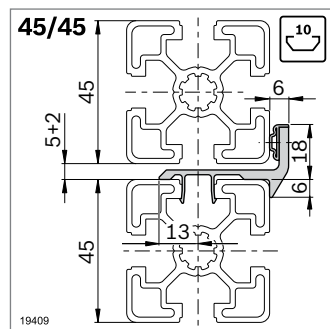
19410



19411



19408



19409

Sealing strip	L (mm)		No.
30/30	3000	10	3 842 543 412

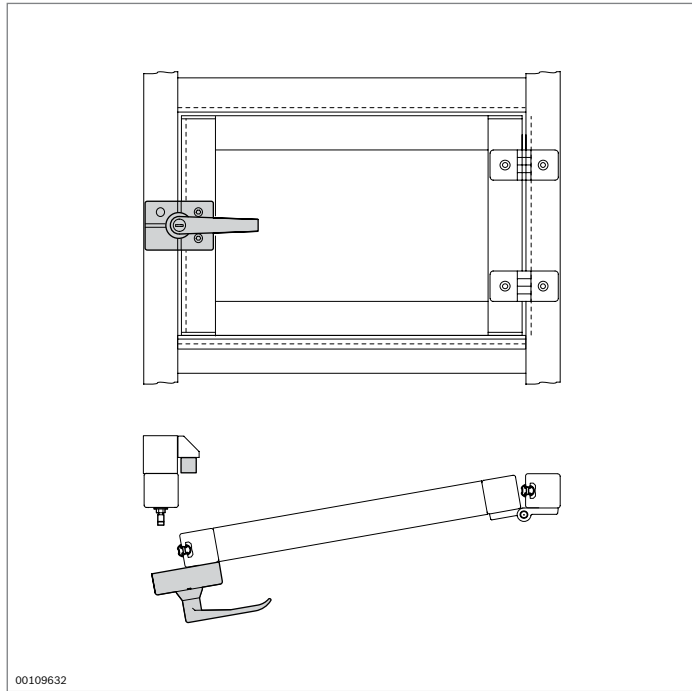
Material: PVC/TPE, light gray RAL 7035

Sealing strip	L (mm)		No.
40/30	3000	10	3 842 543 411
45/30	3000	10	3 842 543 410

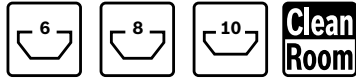
Material: PVC/TPE, light gray RAL 7035

Sealing strip	L (mm)		No.
40/40	3000	10	3 842 543 409
45/45	3000	10	3 842 543 408

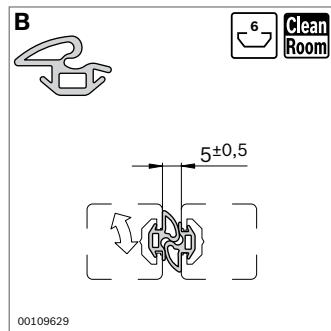
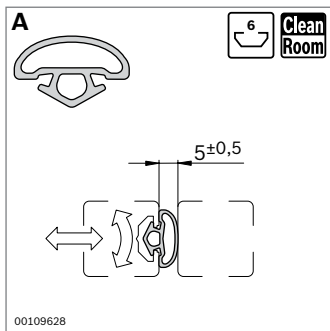
Material: PVC/TPE, light gray RAL 7035



Sealing profile



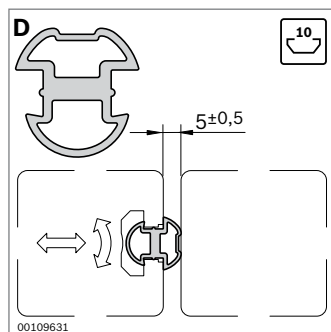
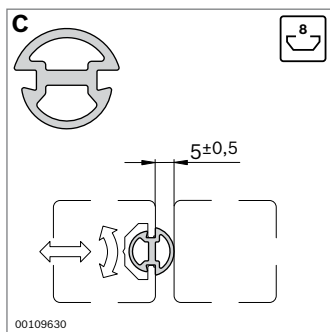
- ▶ For sliding and swing doors
- ▶ Prevents particles from entering or escaping



- ▶ Suitable for use in cleanroom environments
- ▶ Two-piece seal (B) also performs a stop function.

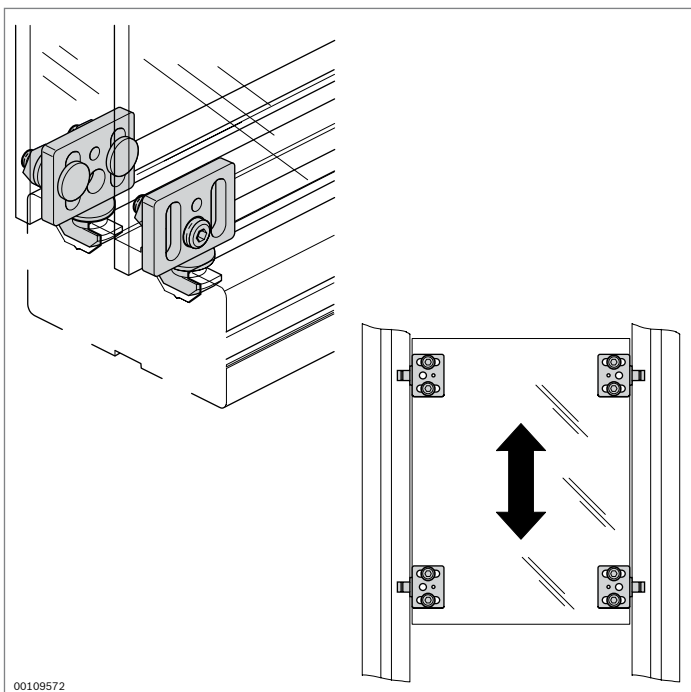
Sealing profile	Slot	L (mm)	No.
A	6	10000	3 842 524 623
B	6	10000	3 842 524 622

Material: TPE; light gray RAL 7035, hardness: 64° ±5 shore A



Sealing profile	Slot	L (mm)	No.
C	8	10000	3 842 516 598
D	10	10000	3 842 518 492

Material: NBR; black, hardness 60° shore A

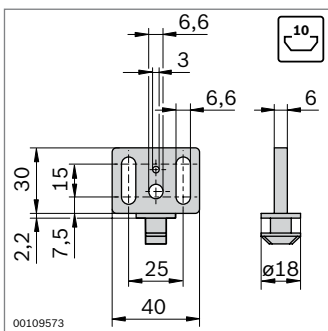


00109572

Slider

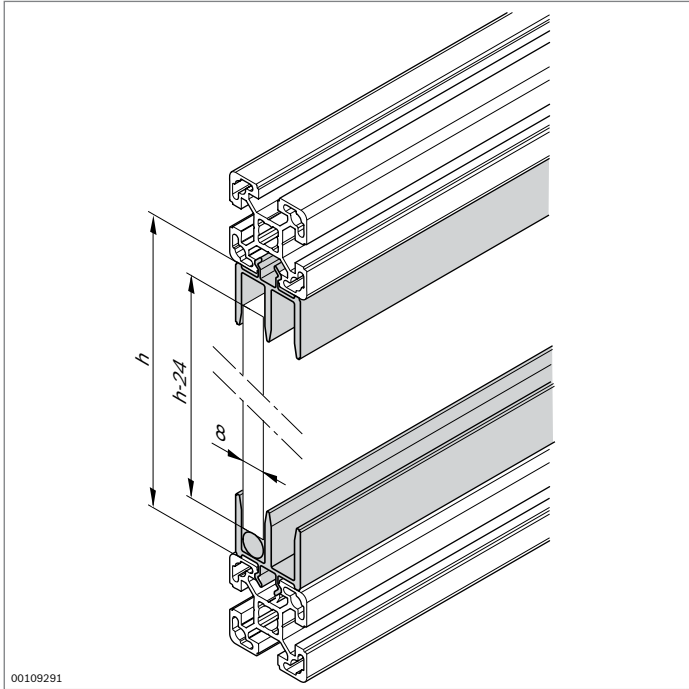


- ▶ For constructing inexpensive sliding and lifting doors
- ▶ Good functional reliability

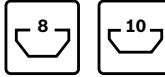


00109573

Slider	No.
Material: POM; black	10 3 842 530 303



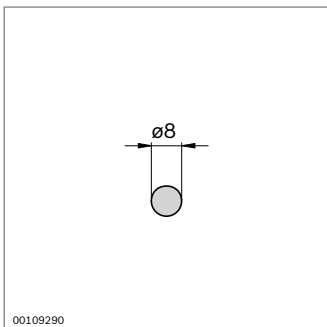
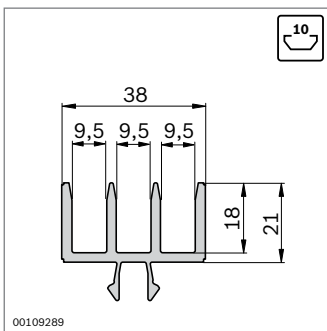
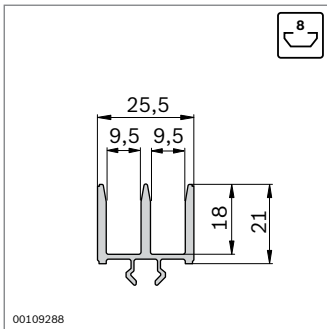
Sliding door profile, PVC



- ▶ Can be clipped into the supporting frame made of strut profiles
- ▶ Round rod to minimize the displacement force required
- ▶ For surface elements of a thickness of 8 mm
- ▶ Insertion of the surface element into closed frame

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	3 842 526 588

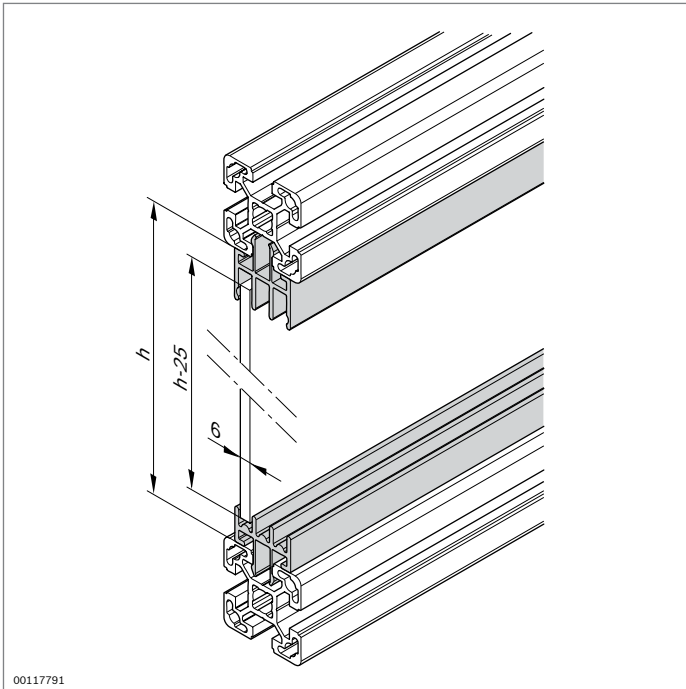
Material: PVC; black

Sliding door profile PVC	Slot	L (mm)		No.
	10	2000	10	3 842 526 591

Material: PVC; black

Round rod	L (mm)		No.
	2000	10	3 842 516 694

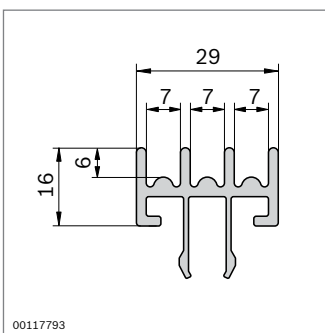
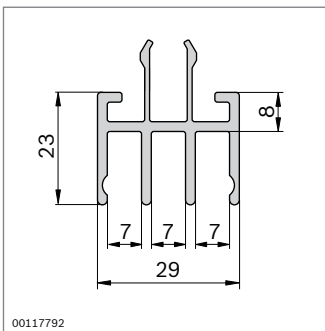
Material: POM; black



Sliding door profile AI Clip



- ▶ Can be clipped into the supporting frame made of strut profiles
- ▶ Sliding door profile, bottom, with half-round floor contour to minimize the displacement force required
- ▶ For surface elements with a thickness of 5 or 6 mm
- ▶ Insertion of the surface element into closed frame

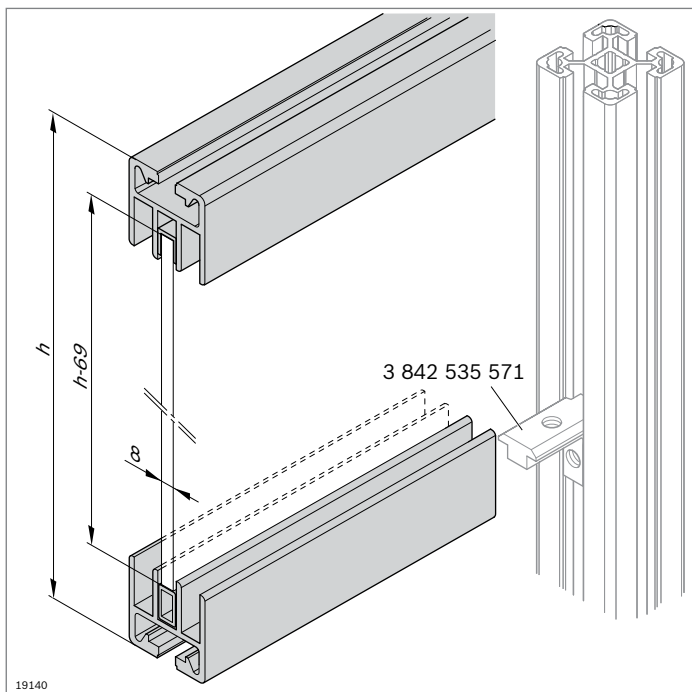


Sliding door profile, top		L (mm)	No.
1 pcs		40 ... 3000	3 842 993 425 / L
10 pcs		3000	3 842 536 531

Material: aluminum, anodized

Sliding door profile, bottom		L (mm)	No.
1 pcs		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

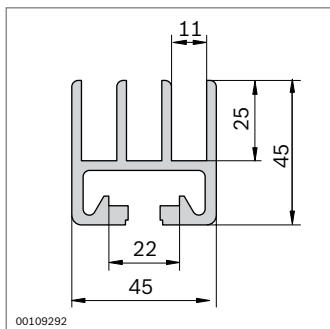


Sliding door profile AI 45

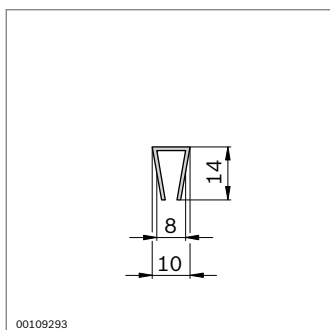
- ▶ Aluminum profile as a supporting construction element
- ▶ Installation using inner brackets between two vertical struts
- ▶ Slide profile to edge the upper part of the sliding door
- ▶ Insertion profile acts as a slide surface
- ▶ For surface elements of a thickness of 8 mm
- ▶ Insertion of the surface element into closed frame

Accessories:

- ▶ Cover cap (p. 8-31)
- ▶ End piece (p. 8-31)
- ▶ Inner bracket (p. 3-13) Inner bracket R (p. 3-14)



00109292



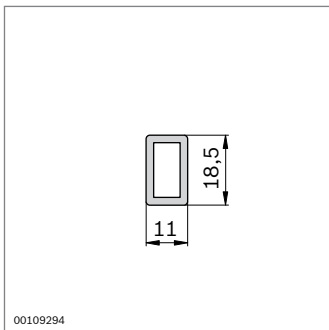
00109293

Sliding door profile	L (mm)	No.
1 pcs	100 ... 5600	3 842 990 115 / L
1 pcs F1 F1	100 ... 5600	3 842 990 116 / L
20 pcs	5600	3 842 509 177

Material: aluminum, anodized

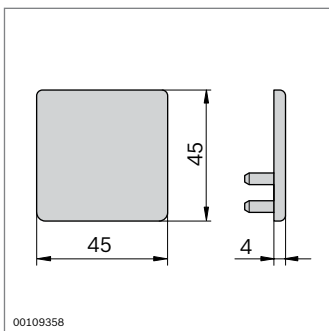
Glide profile	L (mm)		No.
	3000	10	3 842 146 905

Material: hard PVC, black



Insertion profile	L (mm)	ESD	No.
	3000	10	3 842 146 902

Material: PA; black

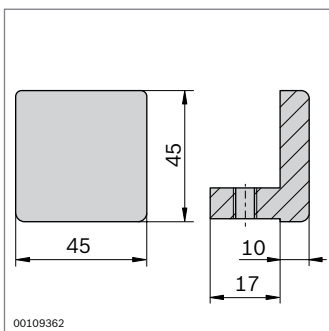


Cover cap

- ▶ As a design element and to prevent injuries

Cover cap	Color	ESD	No.
	Signal gray	20	3 842 551 662

Material: PP



FS1

DIN 916
M8x16

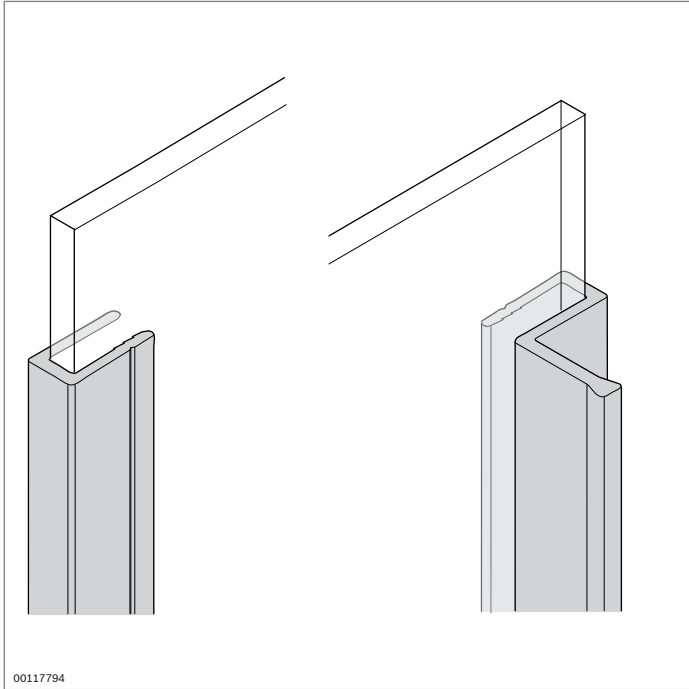
End piece

- ▶ For use as a stop for sliding elements
- ▶ Clamping with setscrew in the profile slot

End piece	ESD	No.	FS
	20	3 842 191 194	FS1

Material: Die-cast aluminum

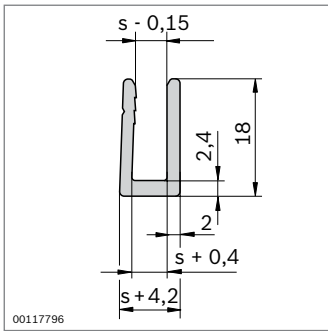
Scope of delivery: incl. fastening material (FS)



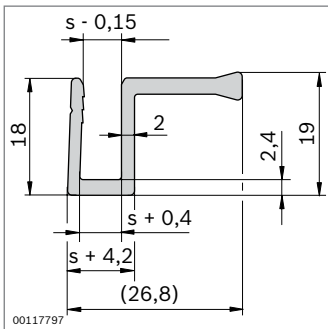
Edge protector Door handle profile

- ▶ For reinforcing frameless surface elements on sliding doors
- ▶ Profile for $s = 6$ mm can also be used for 1/4 inch plates







00117794









00117796



00117797

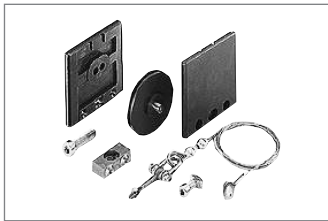
Edge protector	s (mm)	L (mm)	No.
1 pcs 	5	40 ... 3000	3 842 993 429 / L
 10 pcs 	5	3000	3 842 536 537
1 pcs 	6	40 ... 3000	3 842 993 430 / L
 10 pcs 	6	3000	3 842 536 540

Material: aluminum, anodized

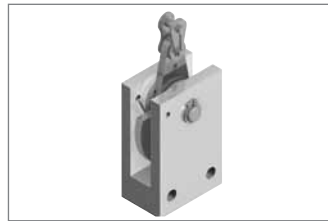
Door handle profile	s (mm)	L (mm)	No.
1 pcs 	5	40 ... 3000	3 842 993 427 / L
 10 pcs 	5	3000	3 842 536 533
1 pcs 	6	40 ... 3000	3 842 993 428 / L
 10 pcs 	6	3000	3 842 536 536

Material: aluminum, anodized

Accessories for protective devices



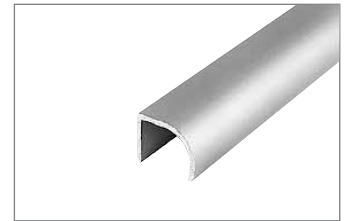
Counterbalance (p. 9-2)



Safety catch (p. 9-4)



Bumper (p. 9-5)



Handle bar (p. 9-5)



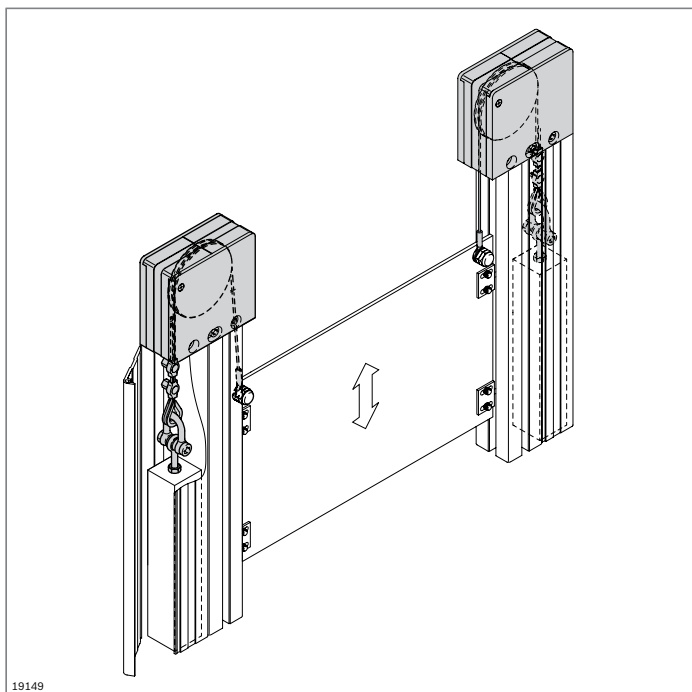
Magnet catch (p. 9-6)



Double ball stop latch (p. 9-7)



Ball catch (p. 9-8)

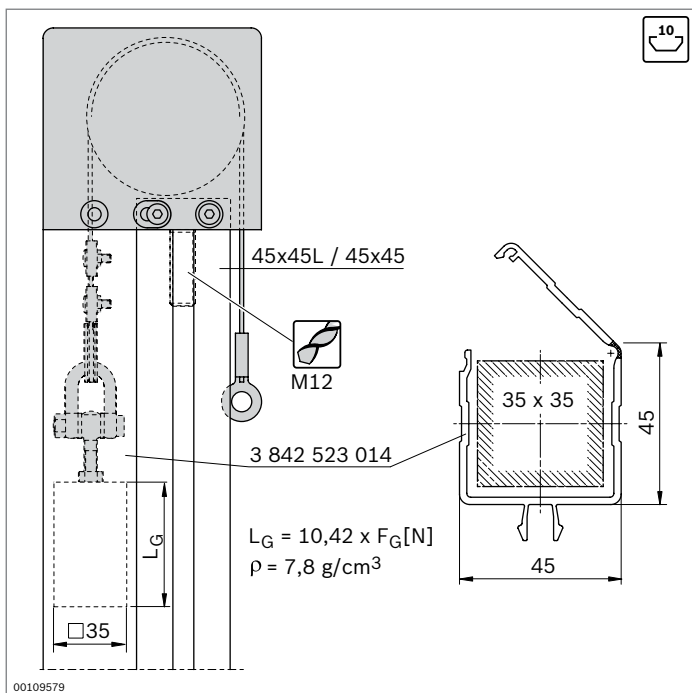


Counterbalance



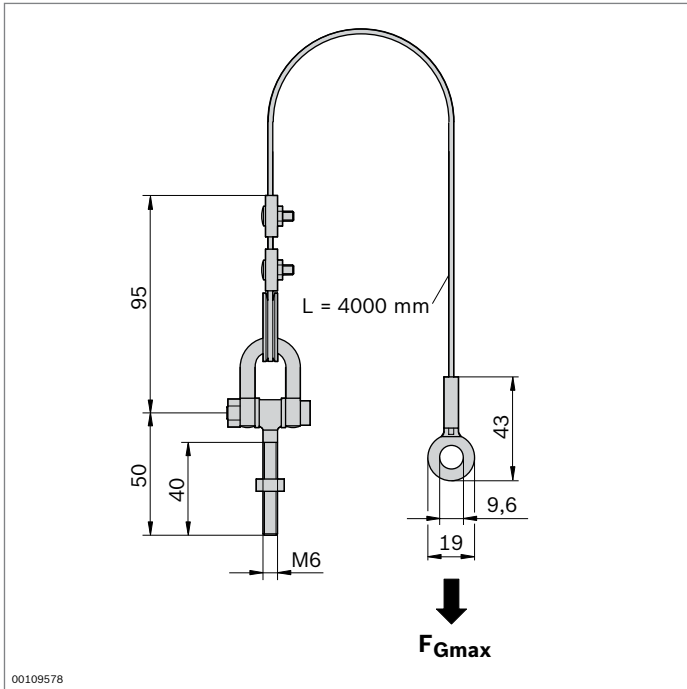
- ▶ For lifting doors comprising a deflection pulley and control cable
- ▶ Counterweight individually adjustable and preferably guided in a cable duct
- ▶ Length of cable can be adjusted
- ▶ Service life: 50,000 actuations
- ▶ Profile finishing:
 - M12 for fastening the deflection pulley
- ▶ Fit lifting doors with a back-up fall arrestor in accordance with the Machinery Directive 2006/42/EC

Required accessories:
counterbalance weight (square profile 35x35 mm)



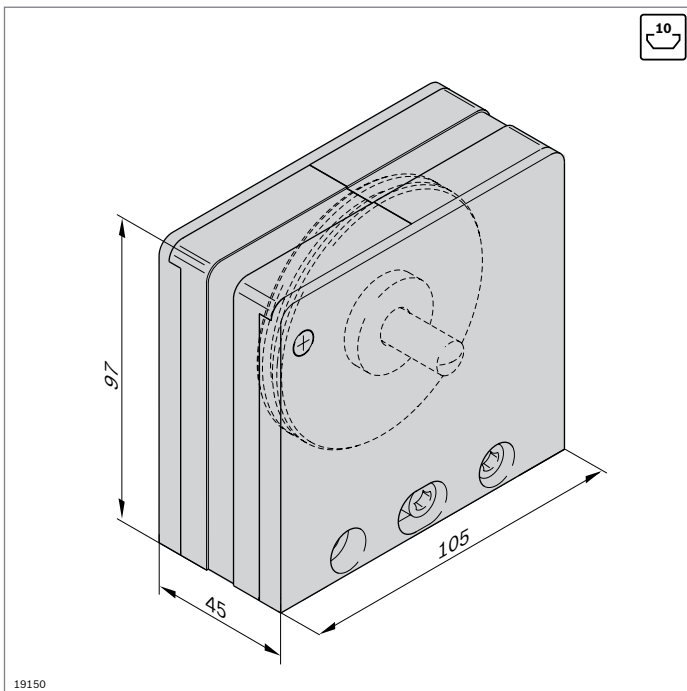
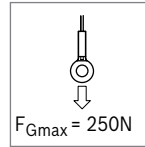
Optional accessories:

- ▶ cable duct 45x45 (p. 11-2)
- ▶ slider (p. 12-3/8-27)
- ▶ safety catch (p. 9-4)



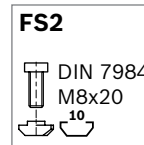
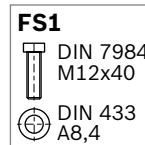
Counterbalance control cable	No.
	3 842 518 798

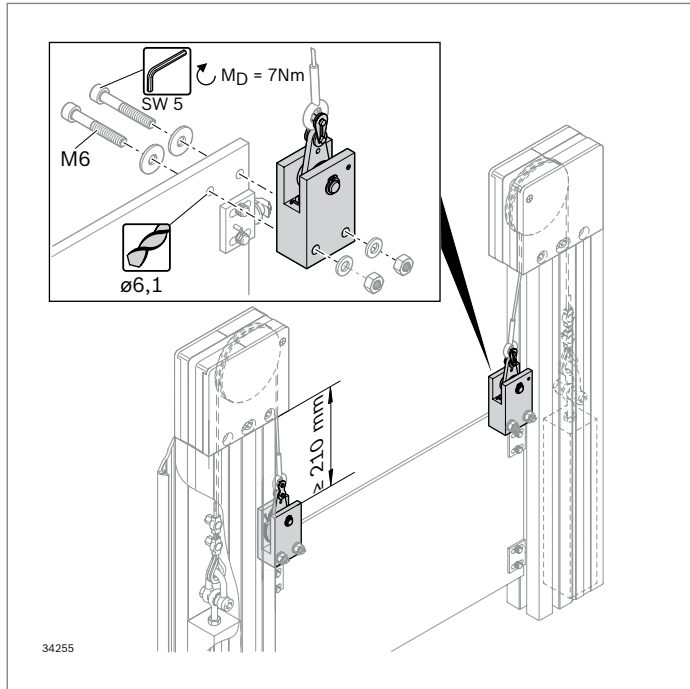
Material: steel, stainless



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)





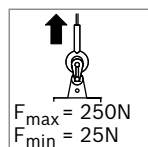
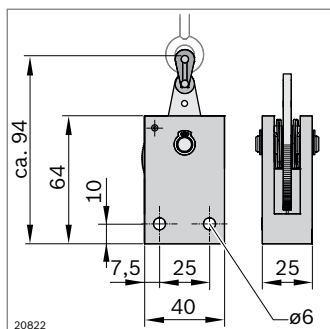
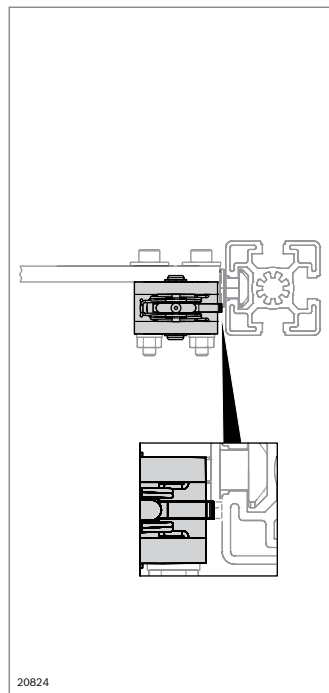
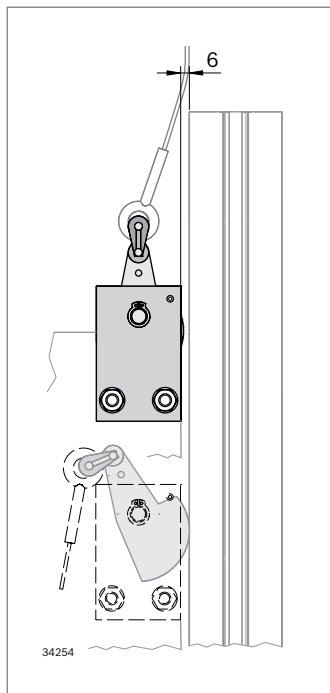
Safety catch



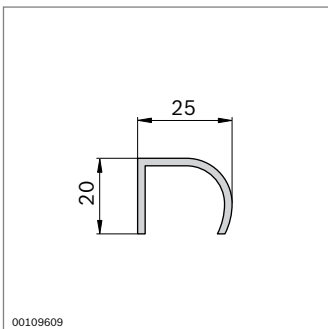
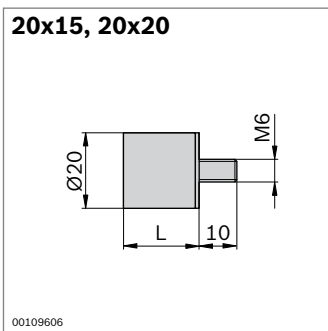
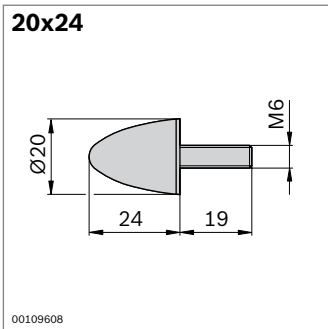
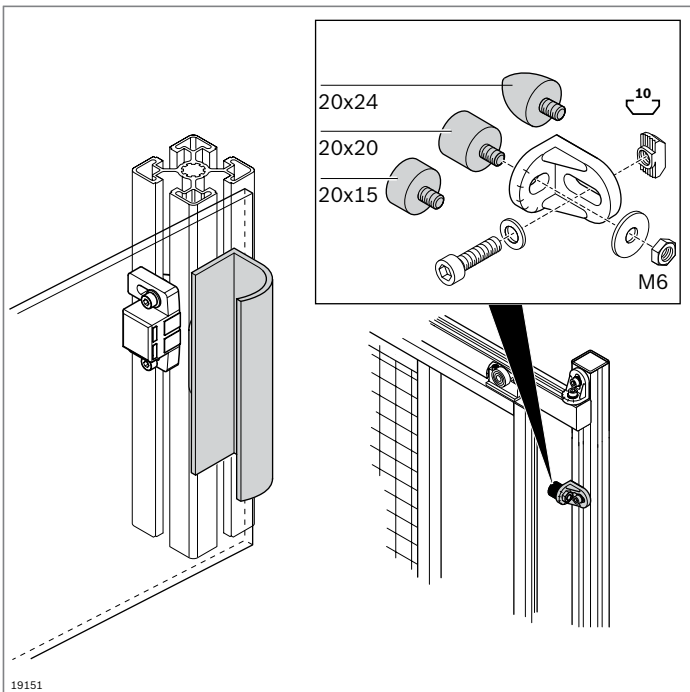
- ▶ The safety catch in conjunction with the other components prevents a lifting door from falling if a cable breaks
- ▶ If a cable breaks, the revolving part of the safety catch jams against a counterbearing and is wedged in position in the guide profile
- ▶ Gap dimension between safety catch body and 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 **3 842 530 303**) should be mounted under the safety catch and as close as possible to it
- ▶ It can also be mounted without a frame on surface elements which have adequate transverse rigidity
- ▶ Before installation and use please read the data sheet containing notes on use which is enclosed with the product

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 Rotating disk: steel, rust-free Bolt: steel, hardened Chain lock: steel, nickel-plated Spacer disk: POM
Scope of delivery:	incl. chain lock for securing the cable
Condition on delivery:	Fully assembled



**Bump stop
Handle bar**

Bump stop

- For damping impact and noise on doors, flaps, and covers

Accessories:
nut, T-nut M6 (p. 3-4)

Handle bar

- Can be used, for example, on covers, drawers, or doors
- Machining: drilled holes for fixing

Required accessories:
Fastening material

Bump stop		No.
20x24	10	3 842 510 165

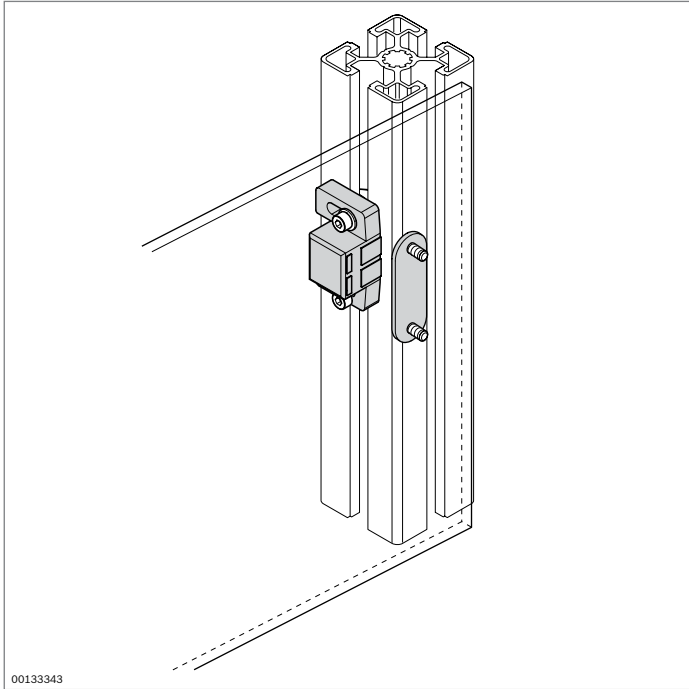
Material: rubber, hardness 55° shore A

Bump stop	L (mm)		No.
20x15	15	10	3 842 510 464
20x20	20	10	3 842 510 462

Material: rubber, hardness 55° shore A

Handle bar	L (mm)		No.
	50...3000	1	3 842 990 111 / L
	3000	10	3 842 500 287

Material: aluminum, anodized

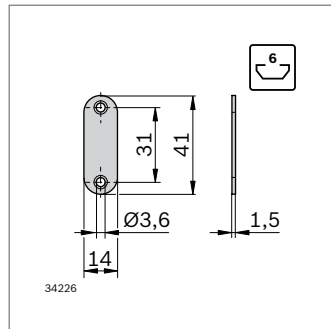
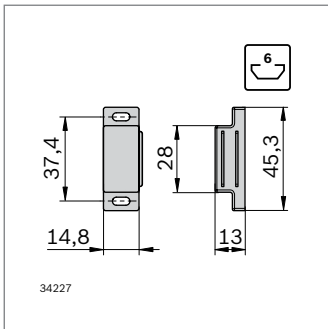


Magnet catch



- ▶ The magnet catch prevents doors and flaps from banging or being unintentionally opened
- ▶ Elongated holes to compensate for different surface element thicknesses

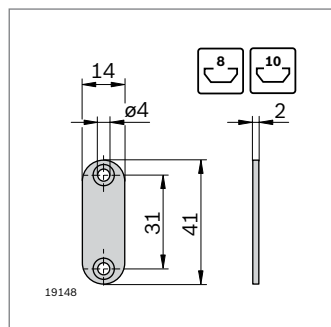
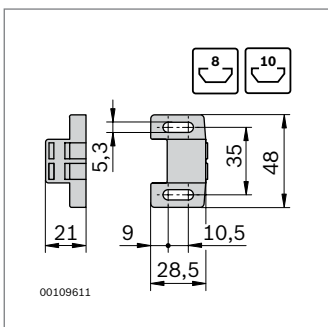
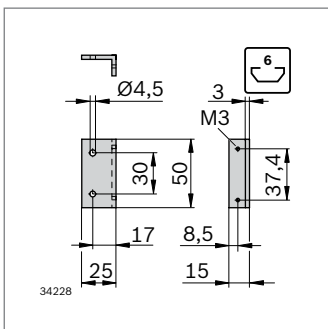
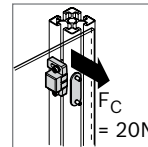
Accessories:
cylinder bolt ISO 4762, washer, T-nut (p. 3-4)



Magnet catch	Slot	No.	FS
	6	3 842 558 323	2xFS1

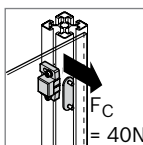
Material: PP, white / steel, galvanized
Scope of delivery: incl. counterpiece, bracket, fastening material (FS)

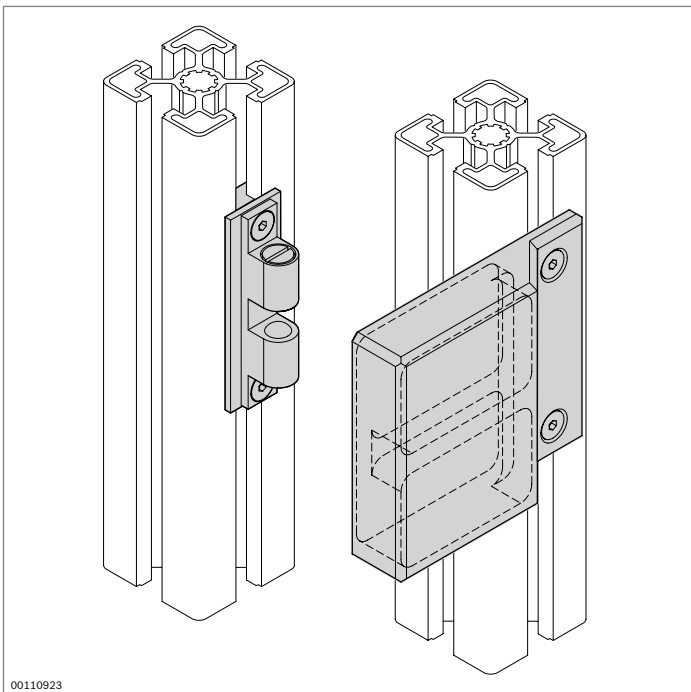
FS1
 ISO 4762
 M3x8
 DIN ISO 7089-3



Magnet catch	Slot	No.
	8, 10	3 842 516 165

Material: PA; black steel; galvanized
Scope of delivery: incl. counterpiece

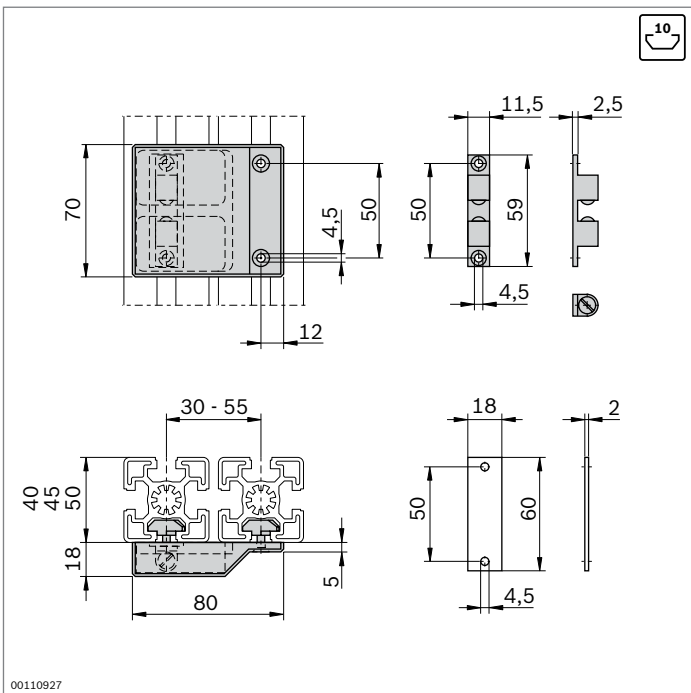




Double ball stop latch



- ▶ For arresting doors made of profile frames and for bridging door gaps
- ▶ Suitable for profiles with modular dimensions 40 mm, 45 mm, and 50 mm
- ▶ Locking also possible with varying profile spacing

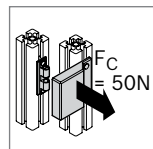


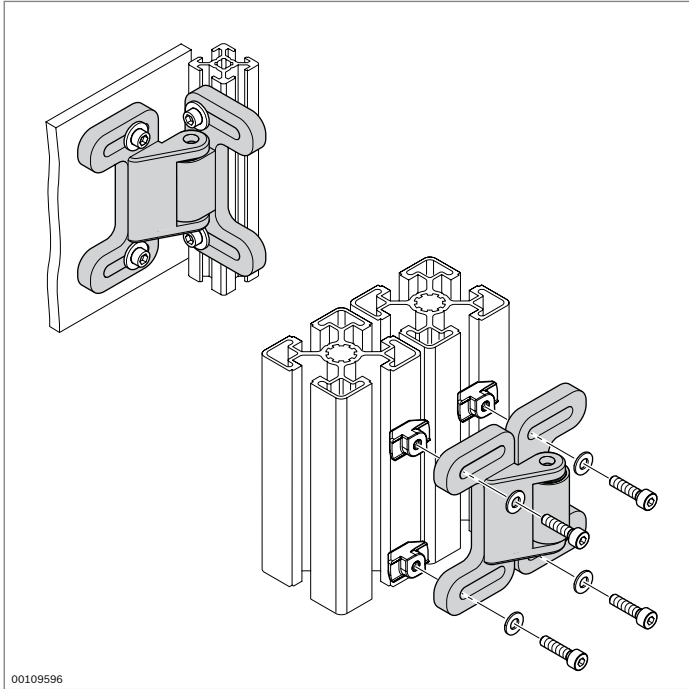
Double ball stop latch	Slot	No.	FS
	10	3 842 530 241	4xFS1

Material: aluminum, black anodized
 Scope of delivery: incl. fastening material (FS)

FS1

DIN7991
 M4x16





00109596

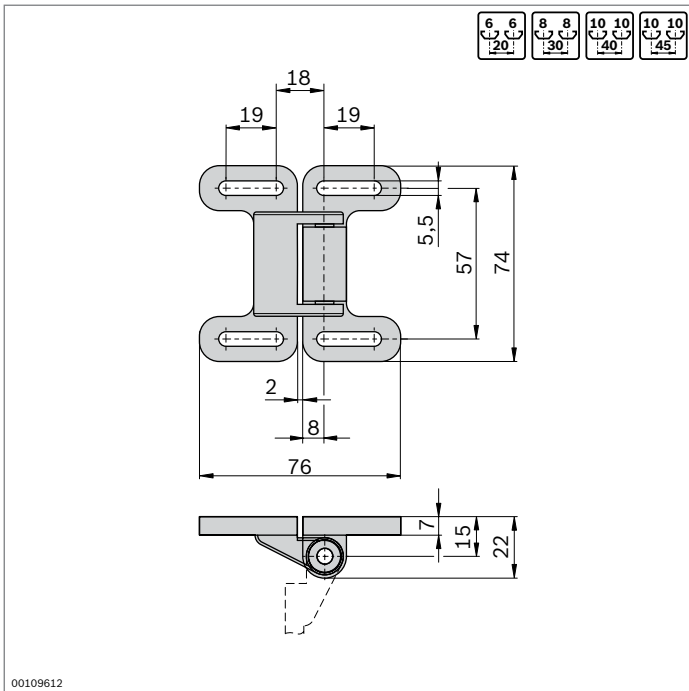
Ball catch



- ▶ 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)



00109612

Ball catch	ESD	No.
	10	3 842 524 986

Material: PA; black, conductive



Installation elements



Cable duct PA (p. 11-2)



Cable duct AL (p. 11-3)



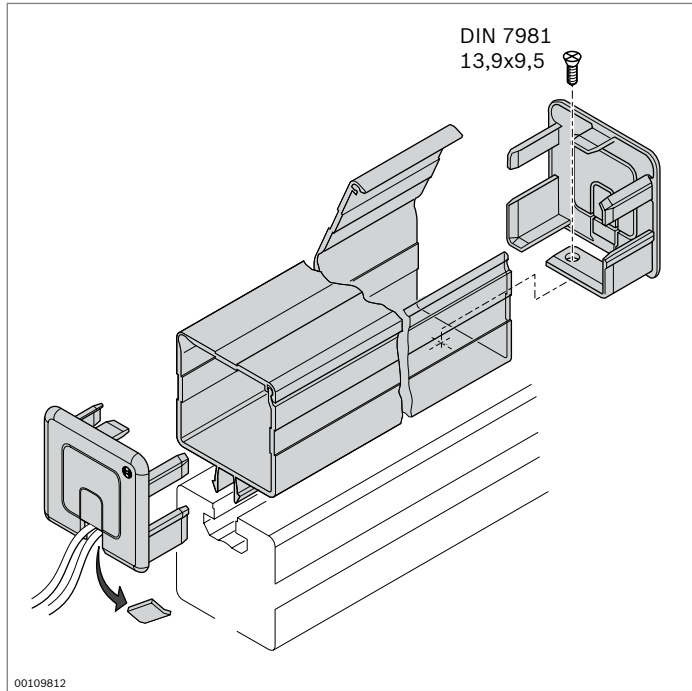
Cable bracket (p. 11-9)



Quick-lock (p. 11-10)

Electrical leads must be neatly laid, because only if they have been installed in an orderly way can electrical faults be easily located and eliminated.

Cable ducts and cable brackets are therefore important elements in terms of maintenance-friendly electrical installation on all kinds of constructions made of basic mechanical elements.



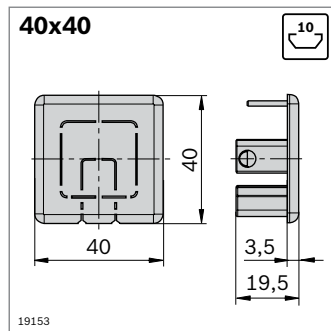
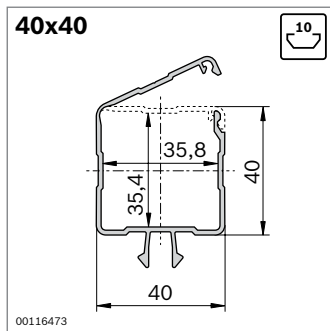
Cable duct



- ▶ Cable duct for routing electrical lines
- ▶ Captive cover
- ▶ Really easy to access
- ▶ Large usable volume
- ▶ Simple, fast assembly – just clips into the 10 mm slot
- ▶ Cover cap for sealing the cable duct with pre-punched holes for running cables through

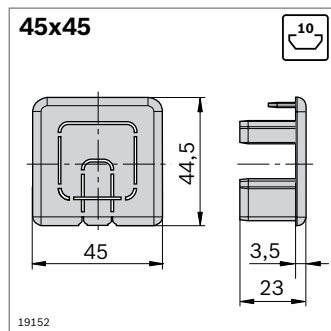
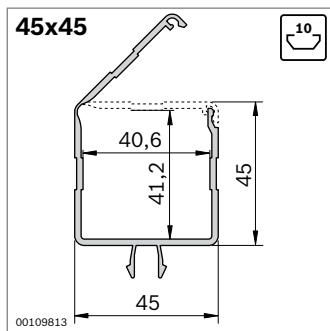
Required accessories:

Screw DIN 7981 3.9 x 9.5 for fastening the cover cap on the cable duct



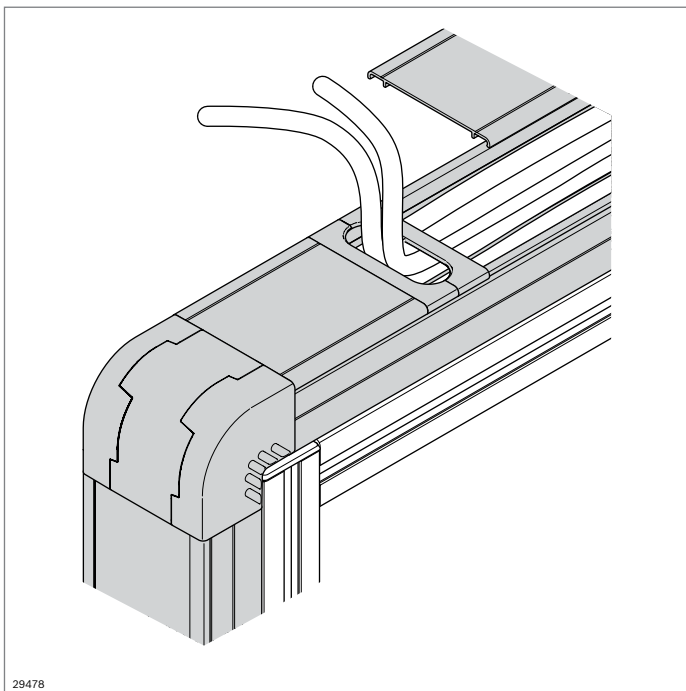
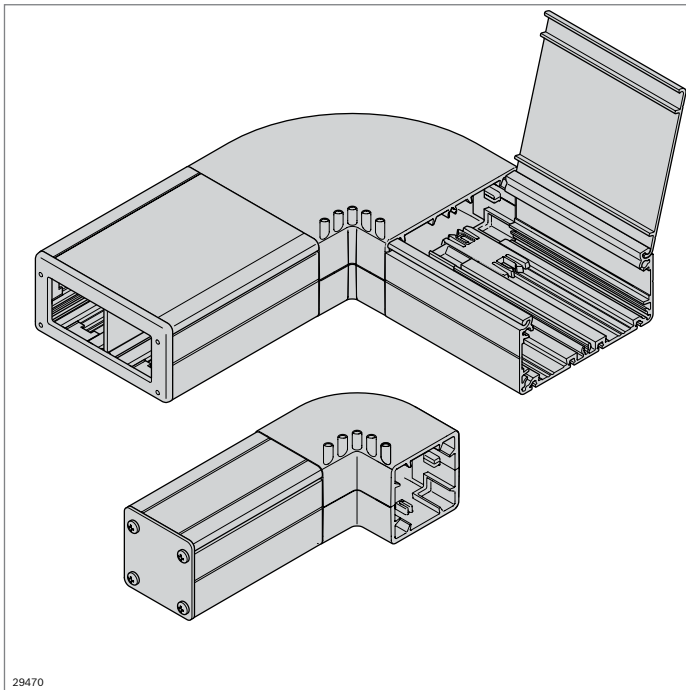
	L (mm)		No.
Cable duct 40x40	2000	1	3 842 532 363
Cover cap 40x40		10	3 842 535 921

Material: Cable duct: PVC, black
Cover cap: PA; black



	L (mm)		No.
Cable duct 45x45	2000	1	3 842 523 014
Cover cap 45x45		10	3 842 535 676

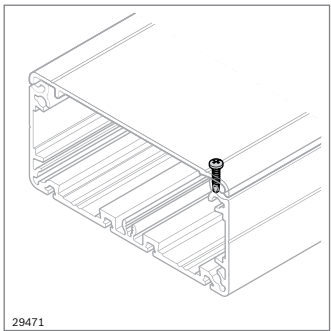
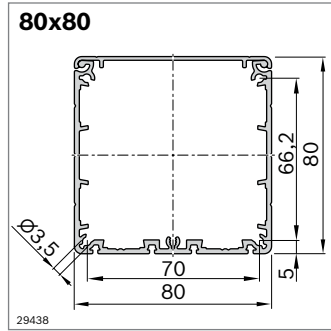
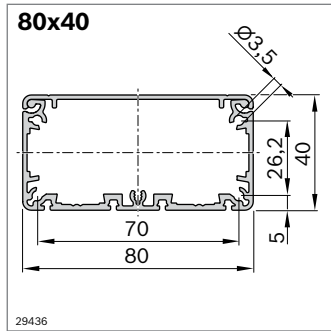
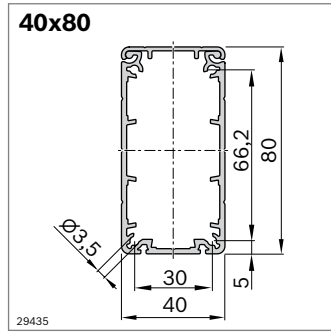
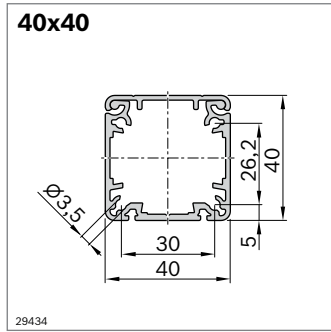
Material: Cable duct: PVC, black
Cover cap: PA; black



Aluminum cable duct







- ▶ Can be either clipped or screwed onto the support profile
- ▶ Sizes 40x40, 40x80, 80x40, 80x80
- ▶ Drilling aids for easy machining
- ▶ Dovetail attachment option
- ▶ Suitable for installing on profiles with modular dimensions of 40 and 45 mm
- ▶ Interior can be divided for routing different cable types (size 80x40 and 80x80)
- ▶ 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 pcs 40x40	⚠	100 ... 3000	3 842 996 356/L
 12 pcs 40x40	⚠	3000	3 842 552 268
1 pcs 40x80	⚠	100 ... 3000	3 842 996 357/L
 12 pcs 40x80	⚠	3000	3 842 552 270
1 pcs 80x40	⚠	100 ... 3000	3 842 996 358/L
 12 pcs 80x40	⚠	3000	3 842 552 273
1 pcs 80x80	⚠	100 ... 3000	3 842 996 359/L
 6 pcs 80x80	⚠	3000	3 842 552 275

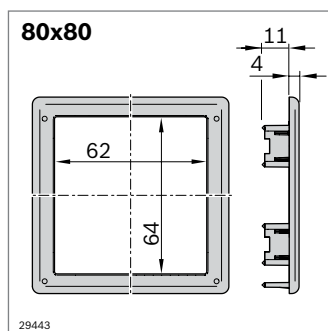
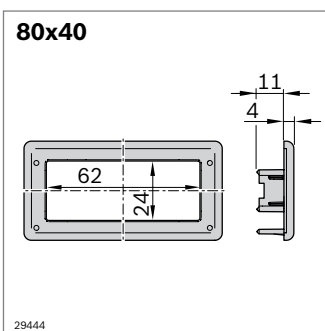
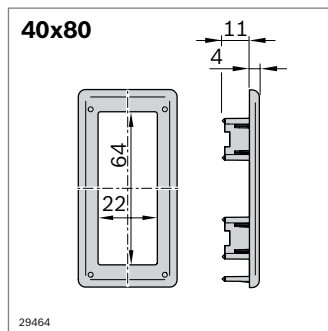
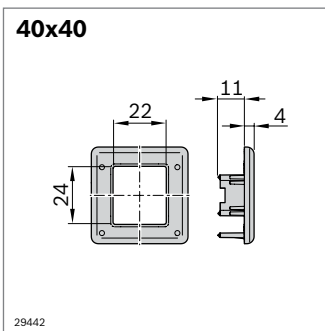
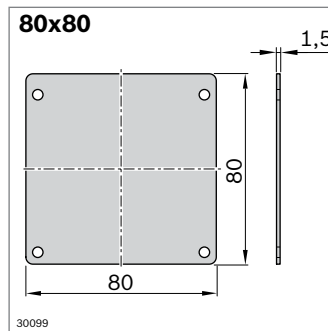
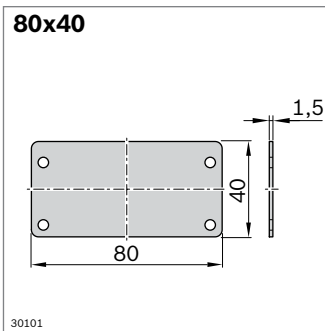
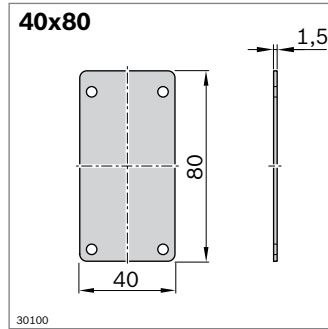
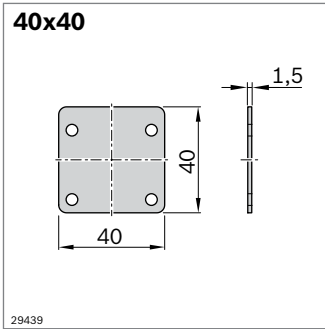
Material: aluminum, anodized

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

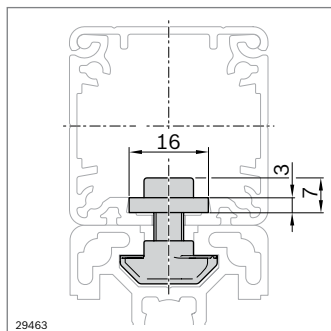
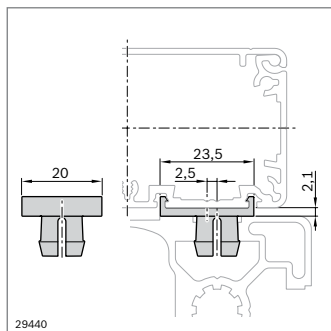
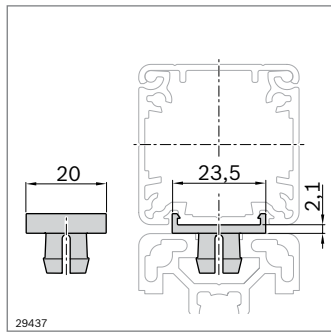
Material: Cover plate: aluminum, anodized
 Pressed edges: aluminum, plain
 Screw: steel; galvanized
 Scope of delivery: cover plate incl. fastening screws

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

- ▶ “Symmetrical” design for central mounting of the cable duct on profiles with just one slot on the mounting side, and on multi-slot profiles with 40 mm modular dimension

Mounting base	ESD	No.
Symmetrical	10	3 842 552 247
Material: PA; signal gray RAL 7004		

Symmetrical mounting base

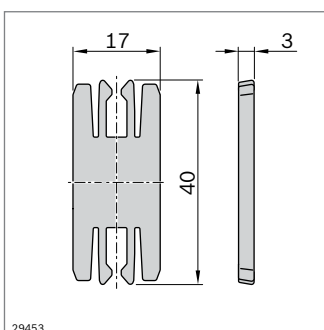
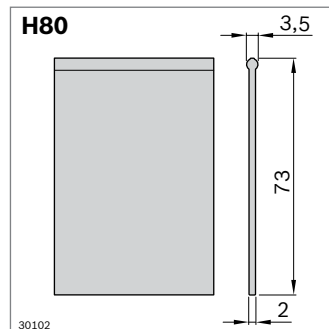
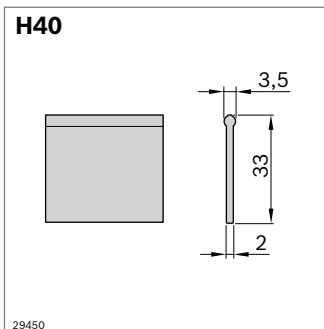
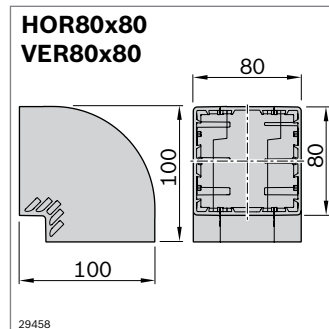
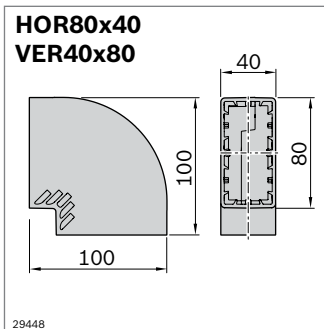
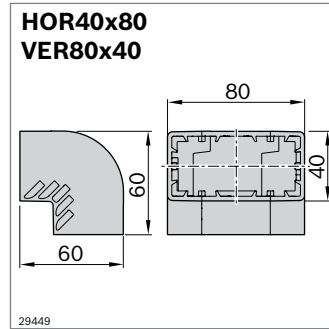
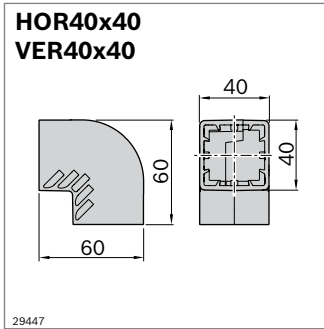
- ▶ “Symmetrical” design for central mounting on profiles with multiple slots on the mounting side and 45 mm modular dimension

Mounting base	ESD	No.
Asymmetrical	10	3 842 552 248
Material: PA; signal gray RAL 7004		

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 connecting elements
- ▶ Cable ducts can be made conductive by using supplied potential equalizing cable

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 grey RAL 7004

Scope of delivery: Curve, connecting elements, potential equalizing cable

*) ESD: Plastic has no conductivity. Using a potential equalizer, 2 cable ducts can be connected in a conductive way (s. p. 11-8).

Dividing strip

- ▶ Divides the cable duct into 2 chambers for carrying different electric cables, e.g. electricity and data cables
- ▶ Push-in installation
- ▶ Bendable, so it can also be used on curves

Dividing strip	No.
H40 L=3000 mm	10 3 842 552 245
H80 L=3000 mm	10 3 842 552 246

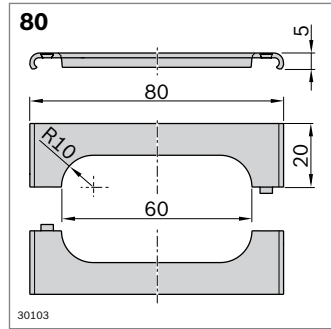
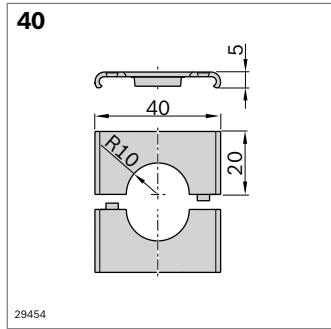
Material: PVC; signal gray RAL 7004

Connecting element

- ▶ Extension of ends of cable ducts
- ▶ For connecting cable duct with curve
- ▶ ESD-conductivity of both cable ducts can be established by using an overlapping cover and self-tapping screw (p. 11-4)

Connecting element	No.
	10 3 842 552 240

Material: PA; signal gray RAL 7004

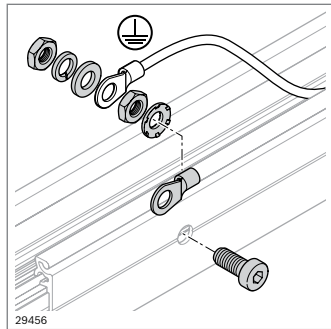


Cable hole

- For passing cables through within the cover

Cable hole		No.
40	10	3 842 553 973
80	10	3 842 553 974

Material: PP; signal gray RAL 7004



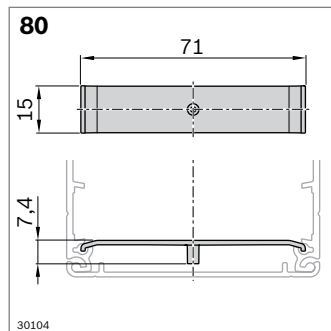
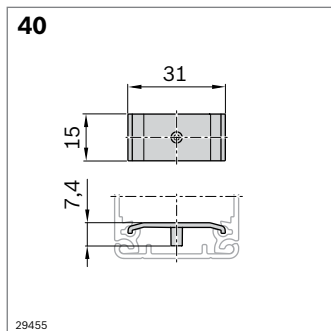
Potential equalizer

- DIN 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

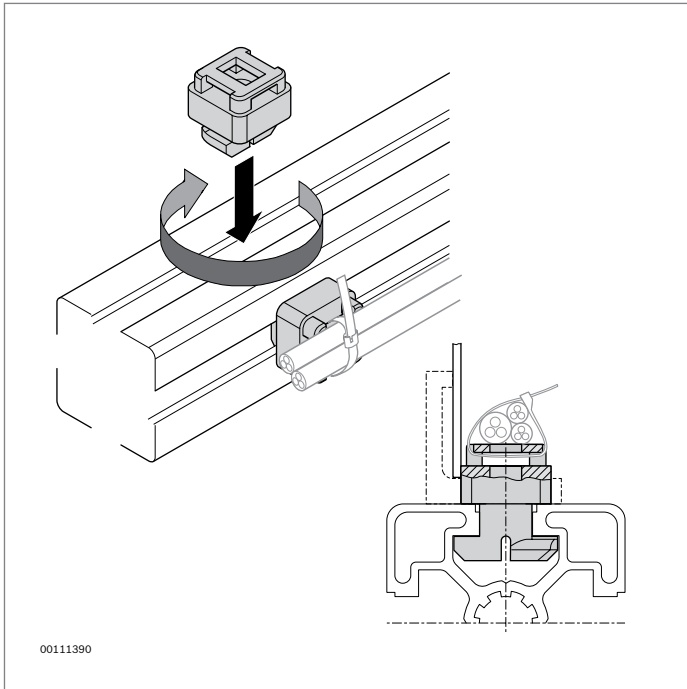


Cable holder

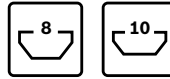
- For fixing the cable in the cable duct in the case of overhead mounting
- Recommendation: insert every 200 mm

Cable holder		No.
40	10	3 842 552 265
80	10	3 842 552 266

Material: PA6; signal gray RAL 7004



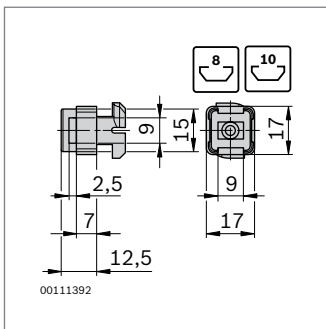
Cable bracket



- ▶ Cable bracket for fastening individual cables with cable fasteners
- ▶ For use behind panels or screens
- ▶ Dimensioned to match the Variofix block for slot 10 mm

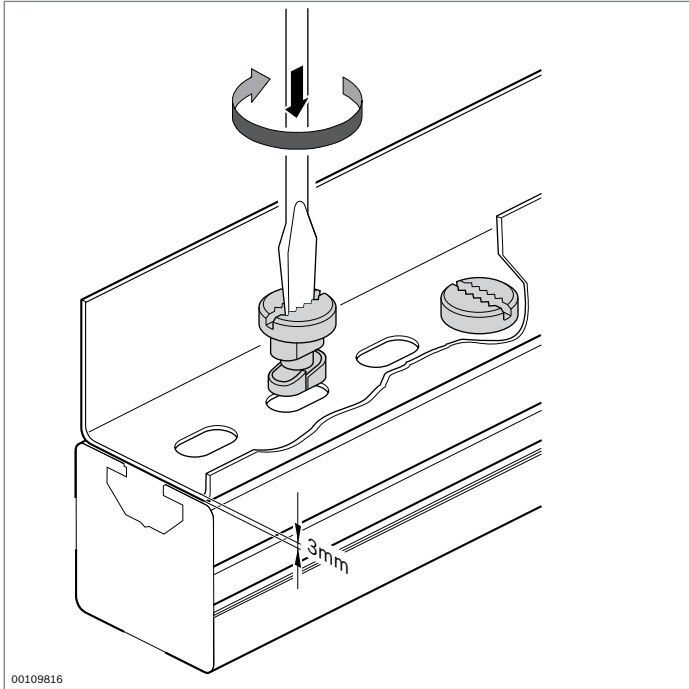
Required accessories:

Cable ties



Cable bracket	Groove	No.
	8	100 3 842 526 565
	10	100 3 842 526 564

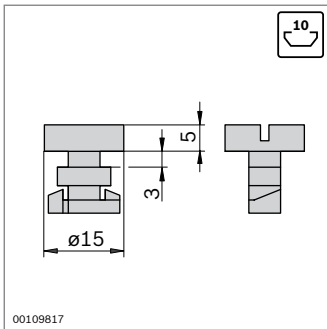
Material: PA; black



Quick-lock



- Quick-lock for fastening standard commercially available cable ducts



Quick-lock	No.
Material: PA; black	100 3 842 146 920

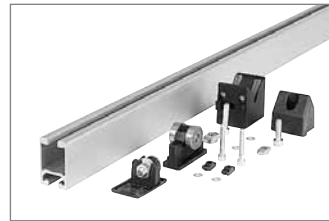
Elements for manual movement



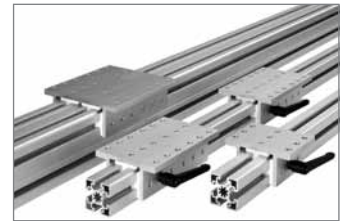
Slide hangers, spring hooks
(p. 12-2)



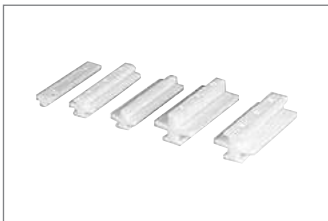
Sliders for surface element
(p. 12-3)



Components for sliding door
(p. 12-4)



EcoSlide (p. 12-6)



Sliders for profiles (p. 12-13)



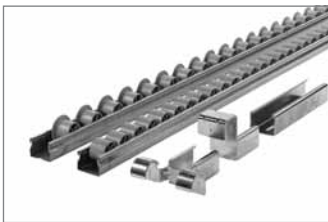
Support wheels (p. 12-17)



Rack, pinion (p. 12-18)



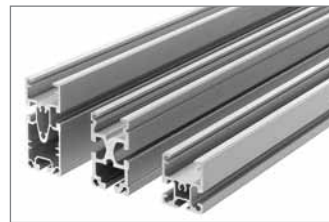
Conveyor track Lean
(p. 12-20)



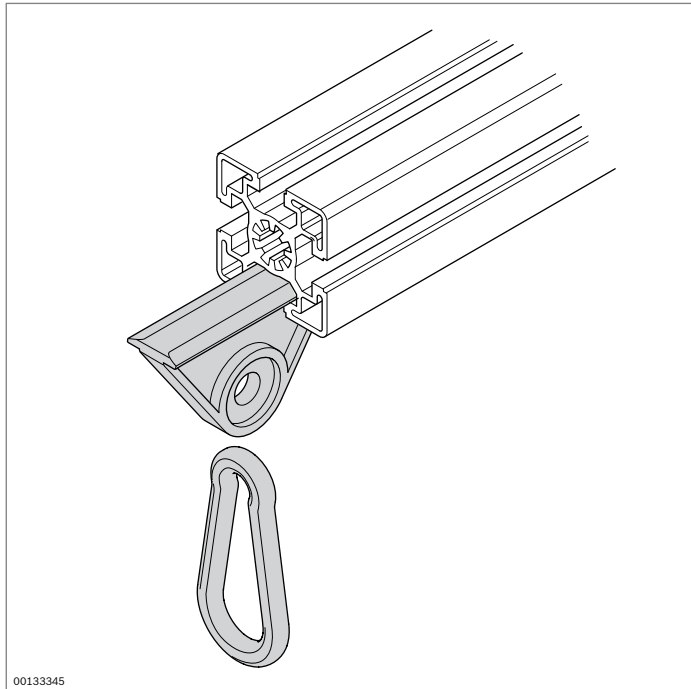
Conveyor track XLean
(p. 12-25)



EcoFlow conveyor track
(p. 12-28)



Profiles for installing conveyor media
(p. 12-34)



Slide hanger Spring hook



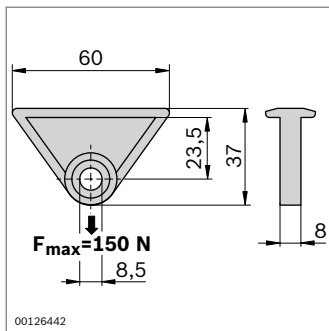
Slide hanger

- ▶ Slide hanger as an inexpensive solution for sliding tool hangers
- ▶ Max. load: 150 N
- ▶ Guide in the 10 mm profile slot
- ▶ Sliding block can be used as a stopper

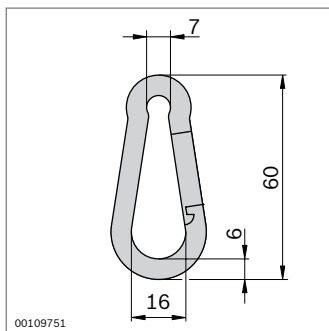
Accessories: Sliding block as a stopper (see p. 3-7)

Spring hook

- ▶ Spring hook for fastening tools to the slide hanger:
 - Quick and easy to change



00126442



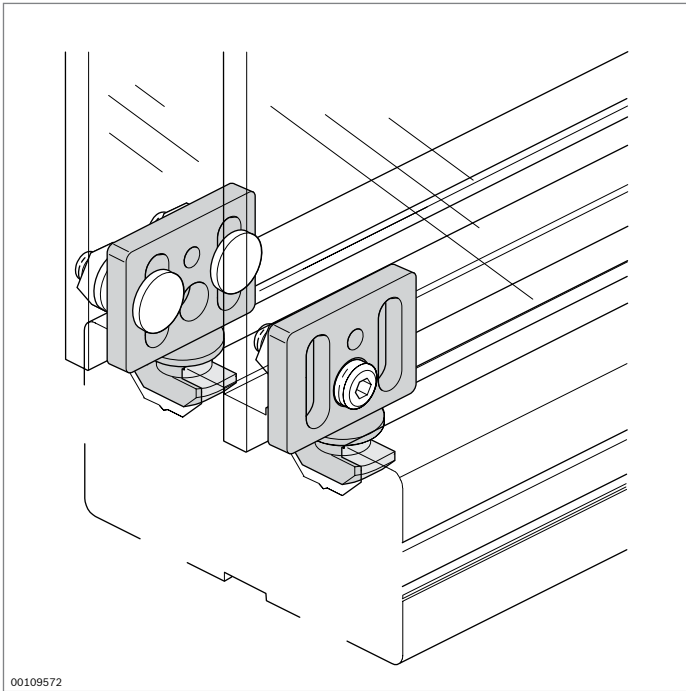
00109751

Slide hanger	No.
	3 842 218 953

Material: POM; natural

Spring hook	No.
	0 842 901 309

Material: steel; galvanized



00109572

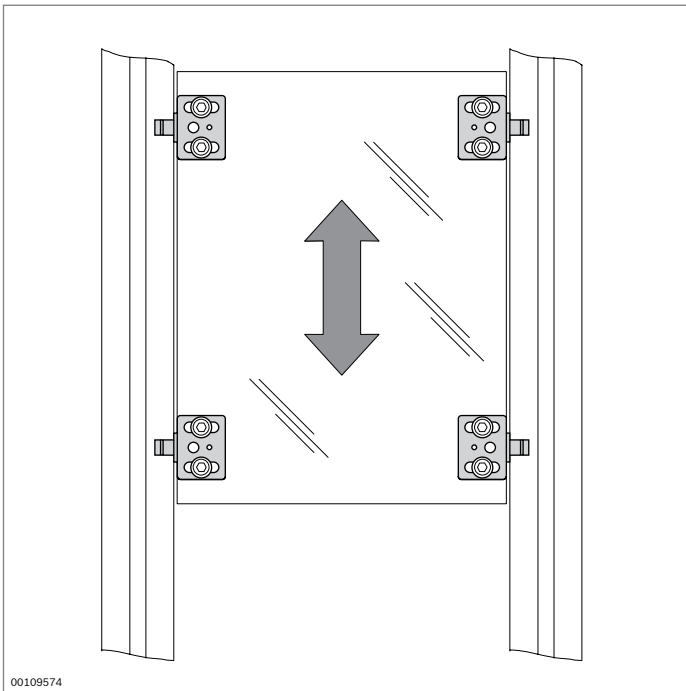
Slider for surface elements



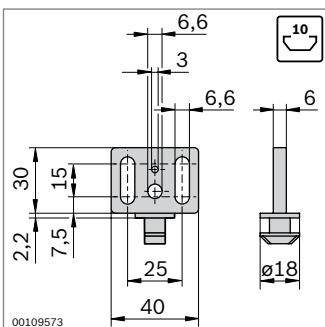
- ▶ For the construction of sliding and lifting doors
- ▶ Good functional reliability
- ▶ For any thickness of the surface element or aluminum profile frame

Required accessories:
screws and nuts/sliding blocks for fastening the surface elements

Optional accessories:
counterbalance in the case of lifting doors (see p. 9-2)



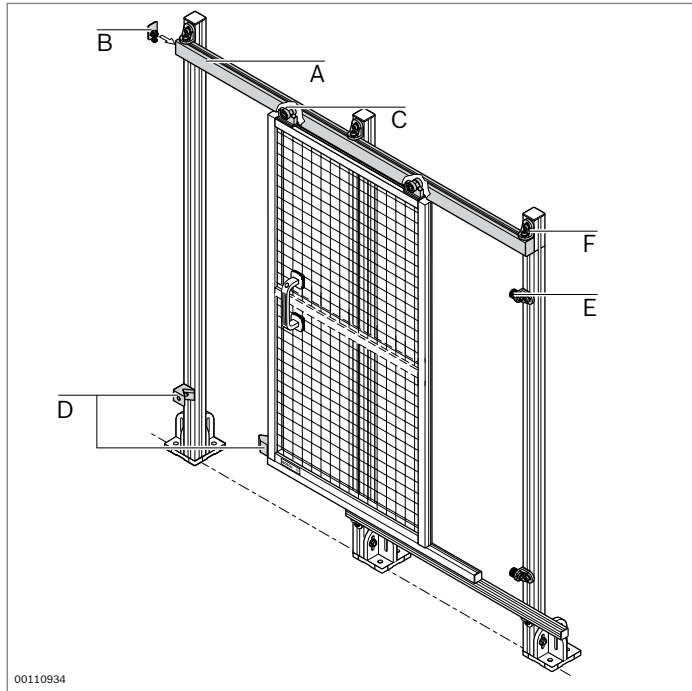
00109574



00109573

Slider	No.
	10 3 842 530 303

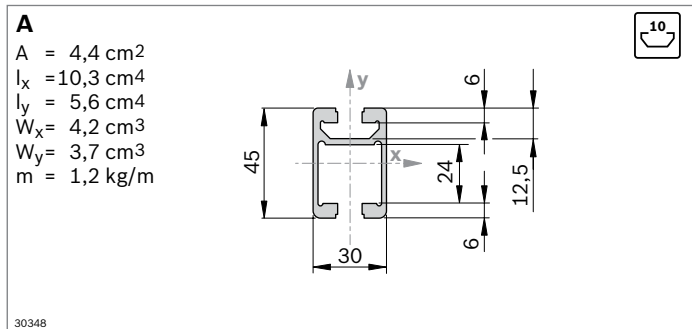
Material: POM; black



Components for sliding door



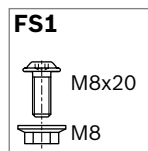
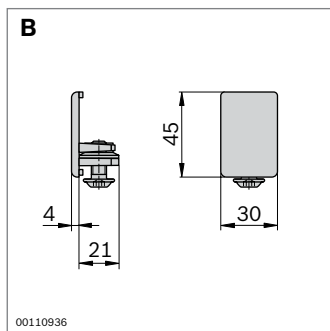
- Components for constructing sliding doors of different dimensions



- 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 pcs		50 ... 5600	3 842 992 946 / L
	20 pcs	5600	3 842 523 598

Material: aluminum, anodized

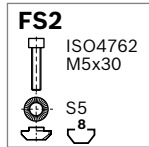
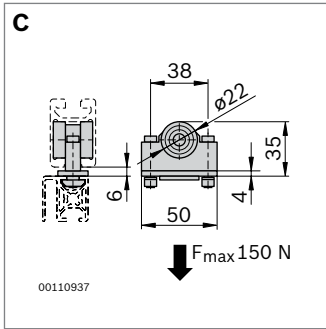


- Profile rail end piece for use for trolley as a cover cap with stop
- With screw protection

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

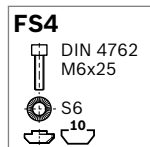
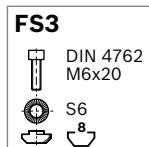
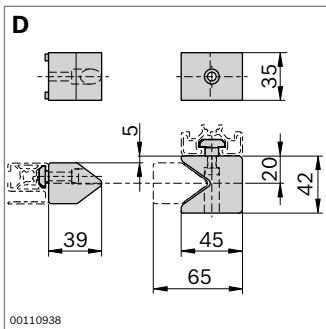
Scope of delivery: incl. fastening material (FS)



- ▶ 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

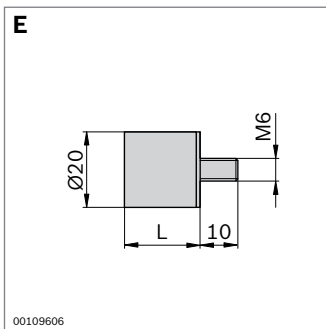
Material: PA, black / steel, galvanized
 Fastening material: steel; galvanized
 Scope of delivery: incl. fastening material (FS)



- ▶ Stop kit for damped closing of the sliding door

Stop kit	No.	FS
	3 842 524 490	FS3, FS4

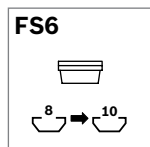
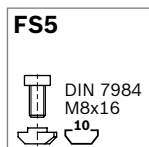
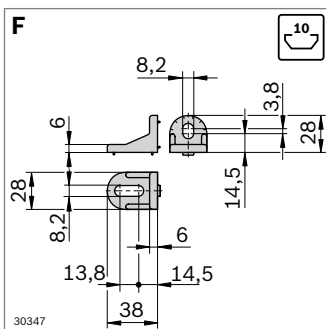
Material: PA; black
 Fastening material: steel; galvanized
 Scope of delivery: incl. fastening material (FS)



- ▶ Bumper for a damped stop

Bump stop	No.
	10 3 842 510 462

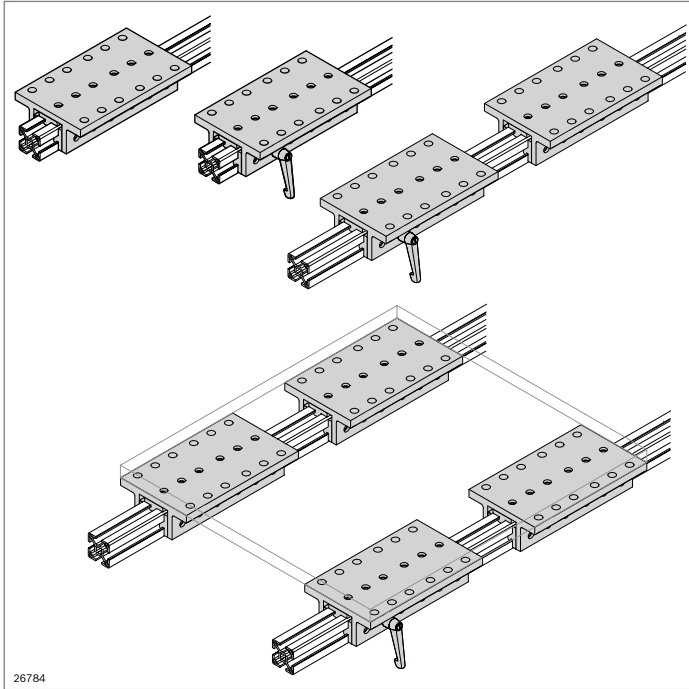
Material: rubber, hardness 55° shore A
 Accessories: bracket set R28x38 for fastening to strut profiles with 10 mm slot



- ▶ Bracket for fastening the profile rail to strut profiles with 10 mm slot

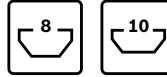
Bracket	Slot	ESD	No.	FS
R28x38 set (standard)	10 / 10		3 842 521 580	2xFS5, 4xFS6

Material: diecast zinc
 Fastening material: steel; galvanized
 Scope of delivery: incl. fastening material (FS)

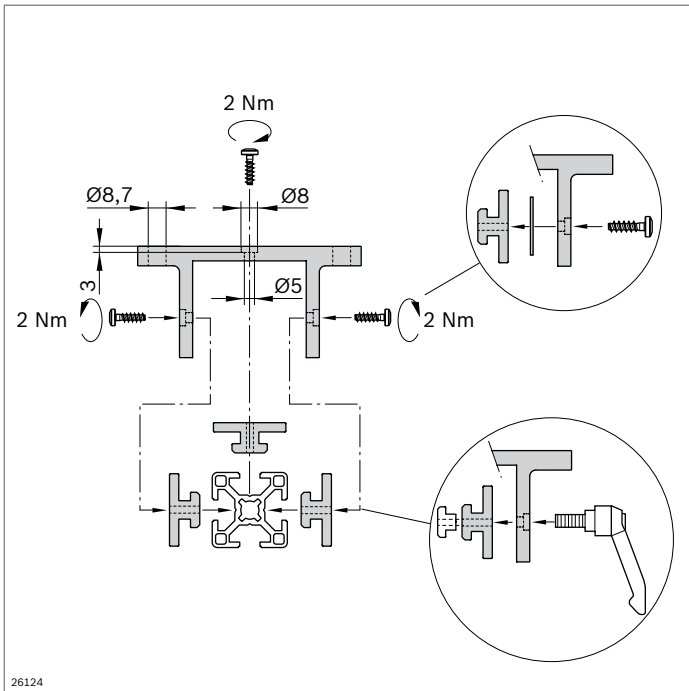


26784

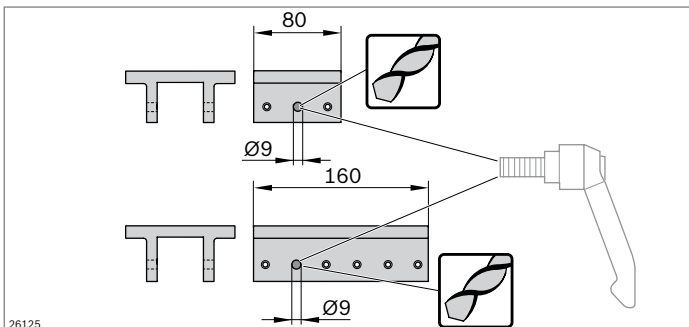
EcoSlide



- ▶ Economical linear sliding carriage for horizontal applications
- ▶ Runs on sliders for maximal load capacity
- ▶ Slider with low moisture absorption, suitable for rough usage conditions
- ▶ Available for profile widths of 30/45/60/90
- ▶ Clamping lever (optional) for arresting in any position
- ▶ Easy to assemble
- ▶ Spacer washer for tolerance adjustment (carriage/profile)



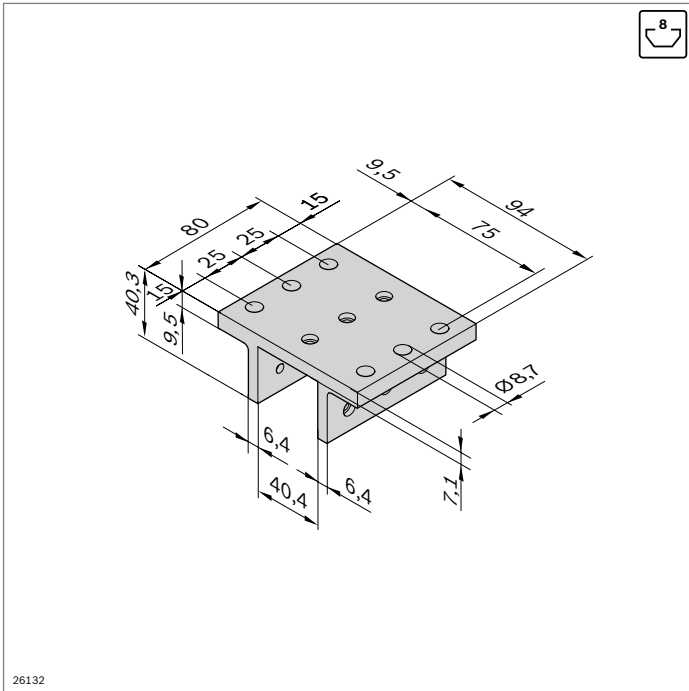
26124



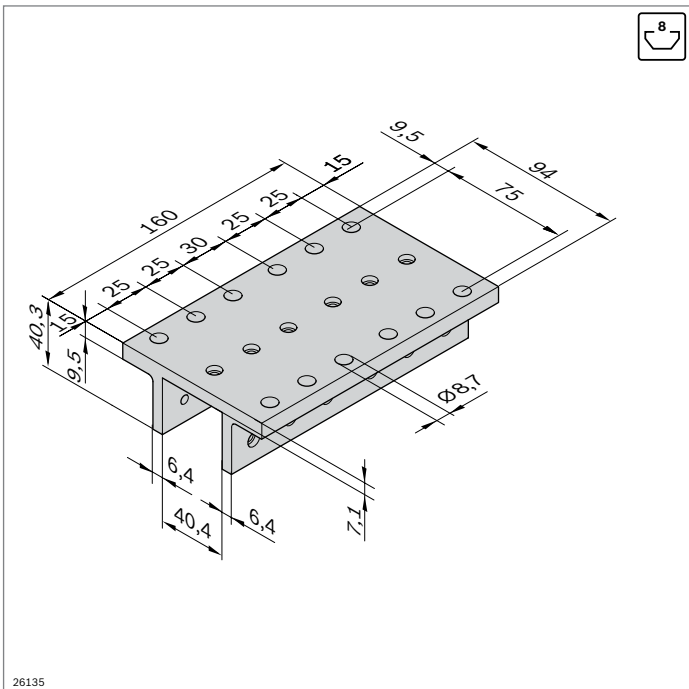
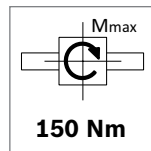
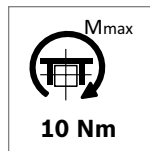
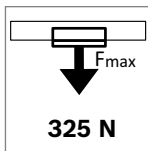
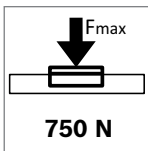
26125

Machining tip

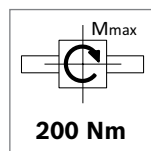
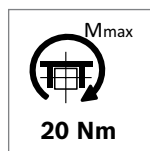
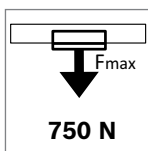
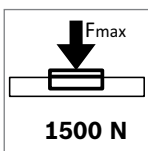
To install the clamping lever, the corresponding 9 mm hole must be drilled in the trolley.



26132



26135



EcoSlide 30x30x80

- ▶ For use with profile width 30 mm
- ▶ Maximum sliding speed: 12 m/min

Trolley 30x30x80	No.
	1 8 981 535 476

Material: aluminum, anodized

Accessories

	No.	Qty.	Qty.	Page
Slider, slot 8 mm flat	10 3 842 523 212	3	2	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	9	8	12-12
Clamping lever, 20 mm	1 3 842 516 846	—	1	4-11
Sliding block Slot 8 mm; M8	100 3 842 514 931	—	1	3-7

¹⁾ If required

EcoSlide 30x30x160

- ▶ For use with profile width 30 mm
- ▶ Maximum sliding speed: 12 m/min

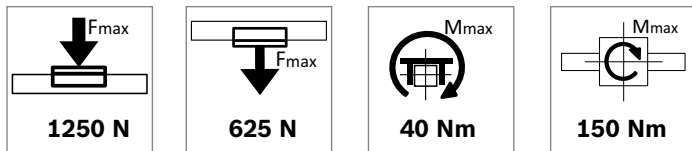
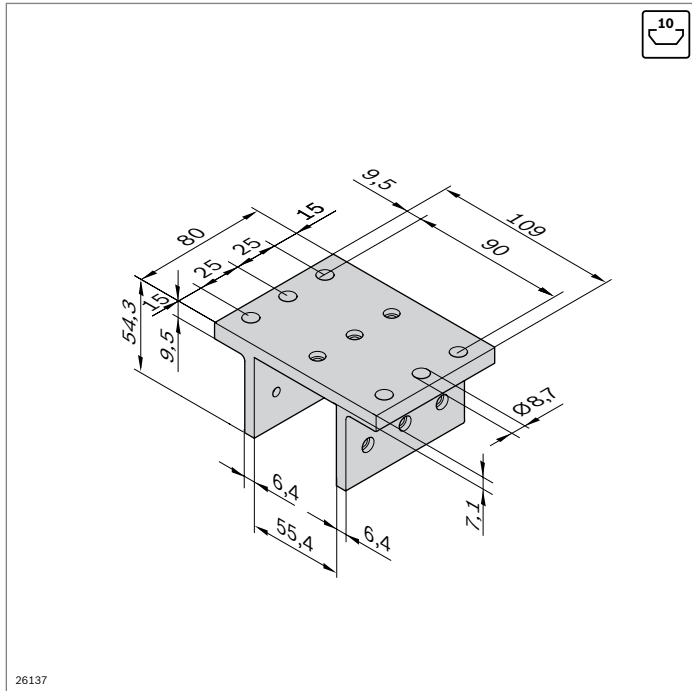
Trolley 30x30x160	No.
	1 8 981 535 477

Material: aluminum, anodized

Accessories

	No.	Qty.	Qty.	Page
Slider, 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
Compensation 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	4-11
Sliding block Slot 8 mm; M8	100 3 842 514 931	—	1	3-7

¹⁾ If required



EcoSlide 45x45x80

- ▶ For use with profile width 45 mm
- ▶ Maximum sliding speed: 12 m/min

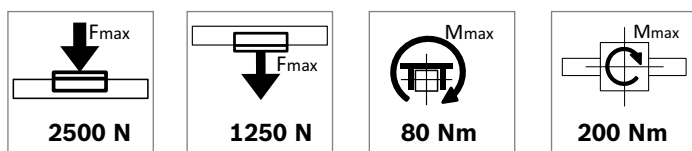
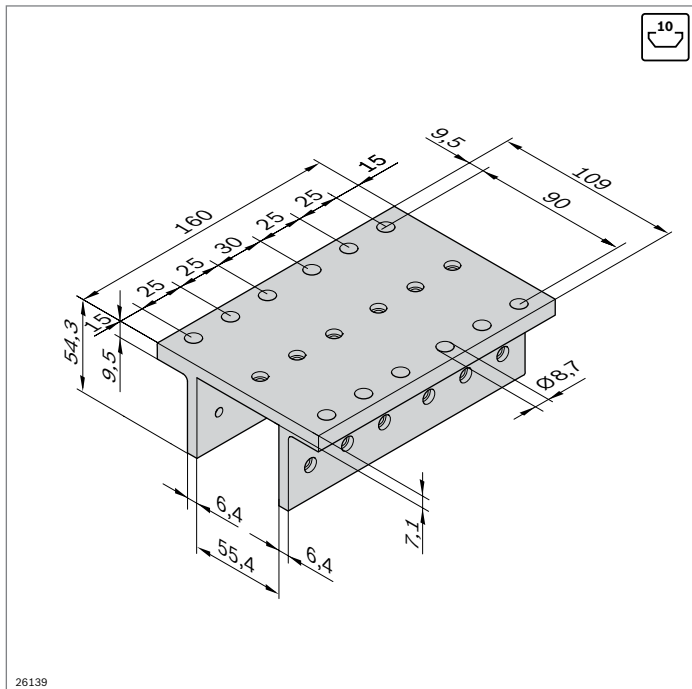
Trolley 45x45x80	No.
	1 8 981 535 323

Material: aluminum, anodized

Accessories

	No.	Qty.	Qty.	Page
Slider, slot 10 mm flat	10 3 842 530 329	3	2	12-13
Slider, slot 10 mm flat lockable	1 3 842 552 424	—	1	12-11
Compensation washer Slot 10 mm	4 8 981 535 890	X ¹⁾	X ¹⁾	12-12
Screw W1452 - 4x18 - 10.9	10 3 842 552 422	9	8	12-12
Clamping lever, 20 mm	1 3 842 516 846	—	1	4-11
Sliding block Slot 10 mm; M8	100 3 842 528 735	—	1	3-7

¹⁾ If required



EcoSlide 45x45x160

- ▶ For use with profile width 45 mm
- ▶ Maximum sliding speed: 12 m/min

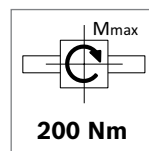
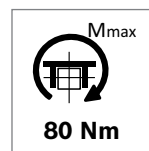
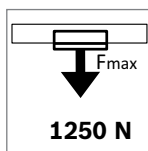
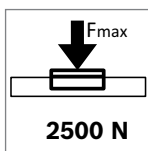
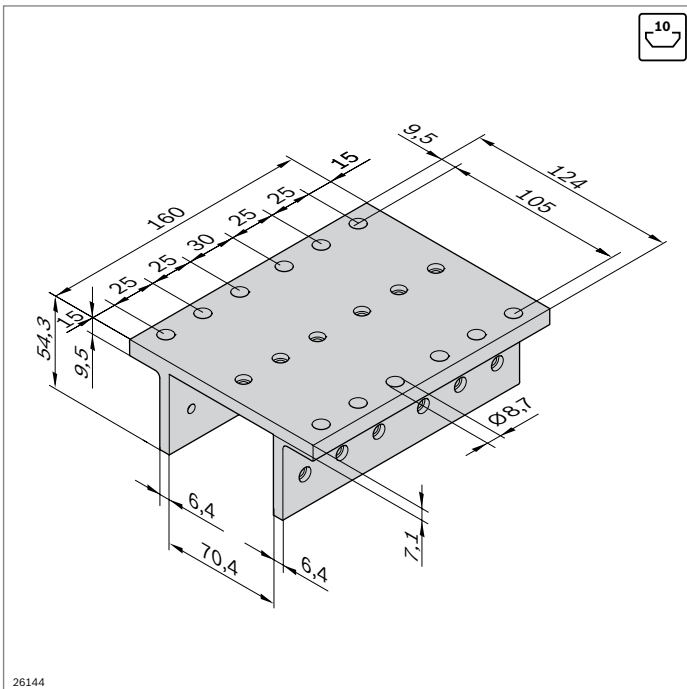
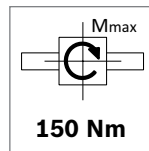
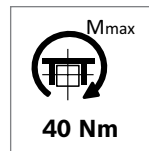
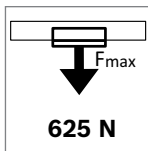
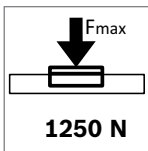
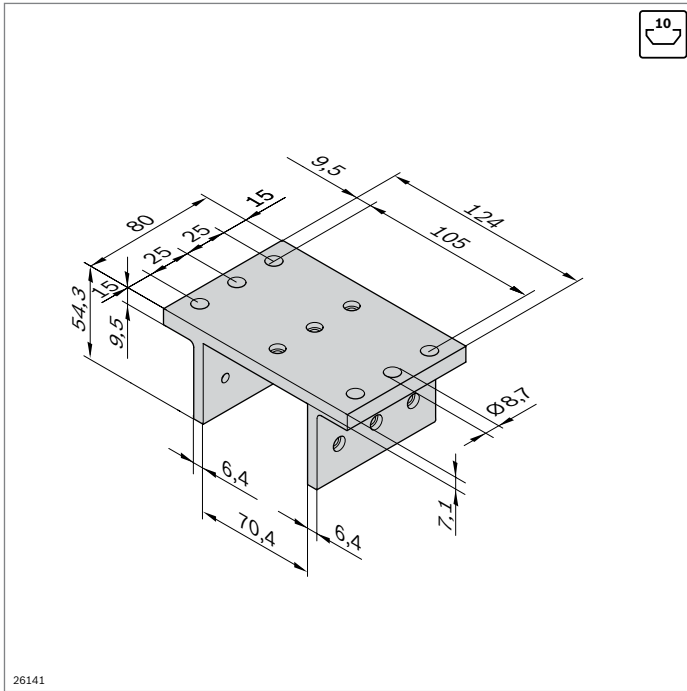
Trolley 45x45x160	No.
	1 8 981 535 324

Material: aluminum, anodized

Accessories

	No.	Qty.	Qty.	Page
Slider, slot 10 mm flat	10 3 842 530 329	6	5	12-13
Slider, slot 10 mm flat lockable	1 3 842 552 424	—	1	12-11
Compensation washer Slot 10 mm	4 8 981 535 890	X ¹⁾	X ¹⁾	12-12
Screw W1452 - 4x18 - 10.9	10 3 842 552 422	18	17	12-12
Clamping lever, 20 mm	1 3 842 516 846	—	1	4-11
Sliding block Slot 10 mm; M8	100 3 842 528 735	—	1	3-7

¹⁾ If required



EcoSlide 45x60x80

- ▶ For use with profile width 60 mm
- ▶ Maximum sliding speed: 12 m/min

Trolley 45x60x80

No.	No.
1	8 981 535 478

Material: aluminum, anodized

Accessories

No.	No.	Qty.	Qty.	Page
Slider, slot 10 mm flat	10 3 842 530 329	3	2	12-13
Slider, slot 10 mm flat lockable	1 3 842 552 424	—	1	12-11
Compensation washer Slot 10 mm	4 8 981 535 890	X ¹⁾	X ¹⁾	12-12
Screw W1452 - 4x18 - 10.9	10 3 842 552 422	9	8	12-12
Clamping lever, 20 mm	1 3 842 516 846	—	1	4-11
Sliding block Slot 10 mm; M8	100 3 842 528 735	—	1	3-7

¹⁾ If required

EcoSlide 45x60x160

- ▶ For use with profile width 60 mm
- ▶ Maximum sliding speed: 12 m/min

Trolley 45x60x160

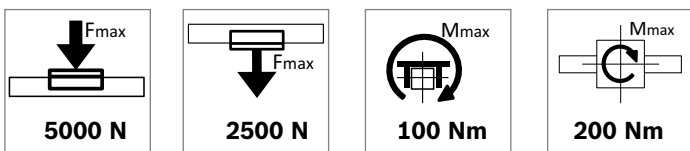
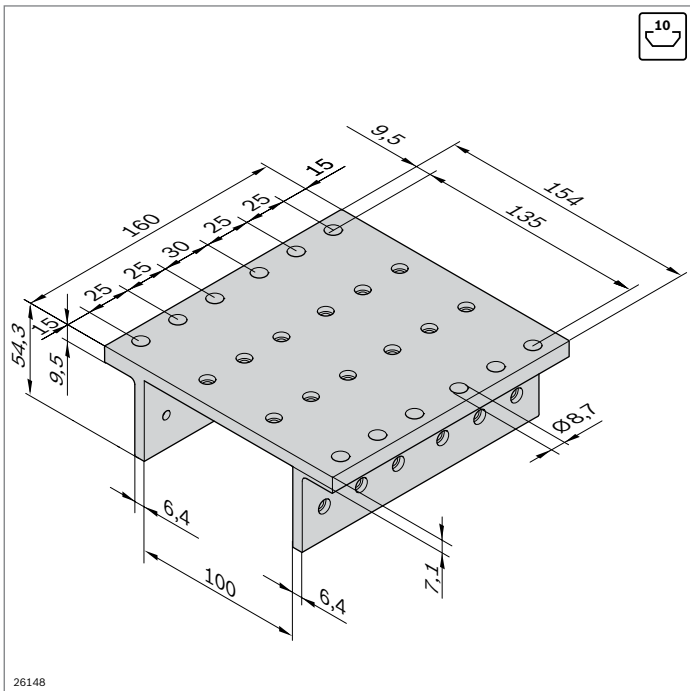
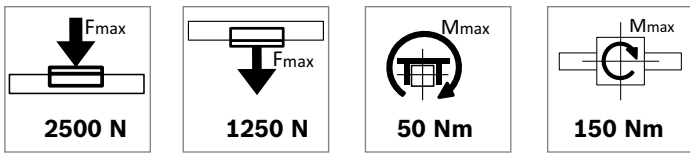
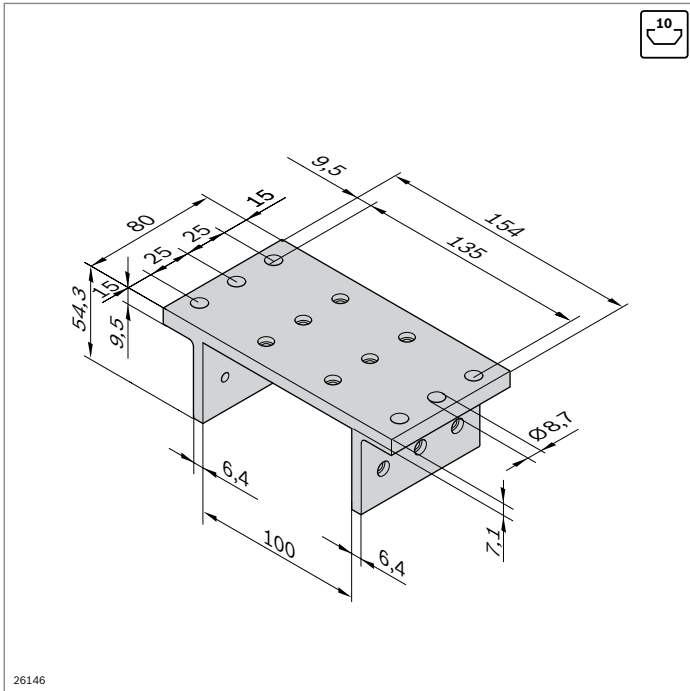
No.	No.
1	8 981 535 479

Material: aluminum, anodized

Accessories

No.	No.	Qty.	Qty.	Page
Slider, slot 10 mm flat	10 3 842 530 329	6	5	12-13
Slider, slot 10 mm flat lockable	1 3 842 552 424	—	1	12-11
Compensation washer Slot 10 mm	4 8 981 535 890	X ¹⁾	X ¹⁾	12-12
Screw W1452 - 4x18 - 10.9	10 3 842 552 422	18	17	12-12
Clamping lever, 20 mm	1 3 842 516 846	—	1	4-11
Sliding block Slot 10 mm; M8	100 3 842 528 735	—	1	3-7

¹⁾ If required



EcoSlide 45x90x80

- ▶ For use with profile width 90 mm
- ▶ Maximum sliding speed: 12 m/min

Trolley 45x90x80

No.	No.
1	8 981 535 325

Material: aluminum, anodized

Accessories

No.	No.	Qty.	Qty.	Page	
Slider, slot 10 mm flat	10	3 842 530 329	4	3	12-13
Slider, slot 10 mm flat lockable	1	3 842 552 424	—	1	12-11
Compensation washer Slot 10 mm	4	8 981 535 890	X ¹⁾	X ¹⁾	12-12
Screw W1452 - 4x18 - 10.9	10	3 842 552 422	12	11	12-12
Clamping lever, 20 mm	1	3 842 516 846	—	1	4-11
Sliding block Slot 10 mm; M8	100	3 842 528 735	—	1	3-7

¹⁾ If required

EcoSlide 45x90x160

- ▶ For use with profile width 90 mm
- ▶ Maximum sliding speed: 12 m/min

Trolley 45x90x160

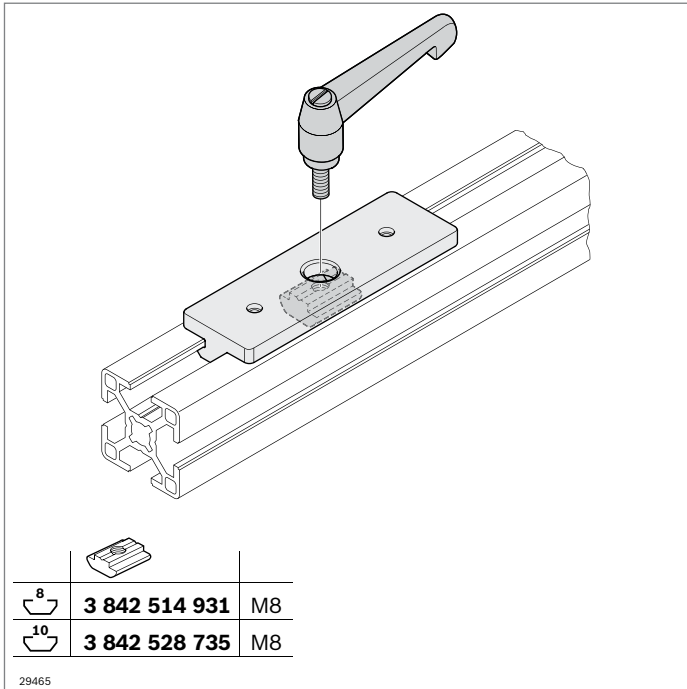
No.	No.
1	8 981 535 326

Material: aluminum, anodized

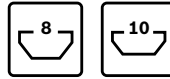
Accessories

No.	No.	Qty.	Qty.	Page	
Slider, slot 10 mm flat	10	3 842 530 329	8	7	12-13
Slider, slot 10 mm flat lockable	1	3 842 552 424	—	1	12-11
Compensation washer Slot 10 mm	4	8 981 535 890	X ¹⁾	X ¹⁾	12-12
Screw W1452 - 4x18 - 10.9	10	3 842 552 422	24	23	12-12
Clamping lever, 20 mm	1	3 842 516 846	—	1	4-11
Sliding block Slot 10 mm; M8	100	3 842 528 735	—	1	3-7

¹⁾ If required



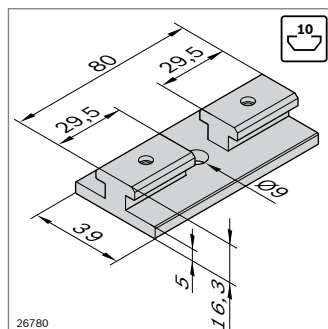
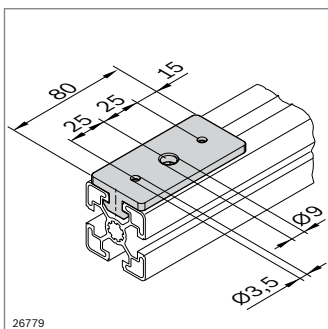
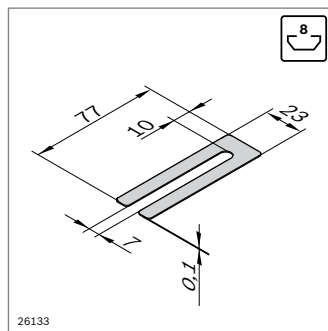
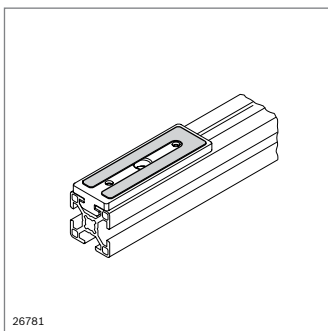
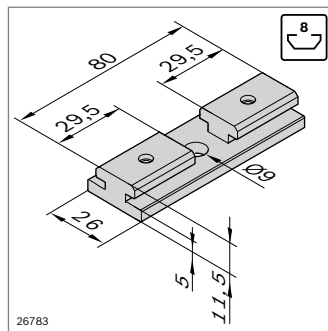
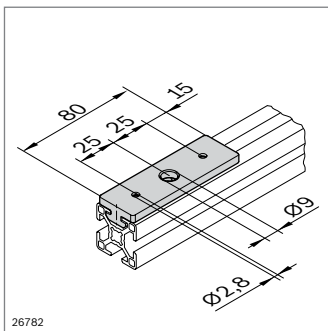
Slider, flat lockable



- ▶ Suitable for clamping using a sliding block and a clamping lever
- ▶ For constructing low-wear guides

Accessories:

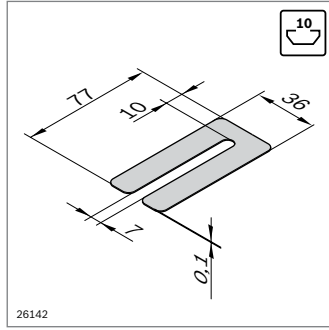
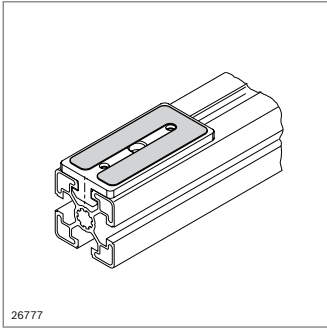
- ▶ Sliding blocks (p. 3-7)
- ▶ Clamping element (p. 4-11)




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		

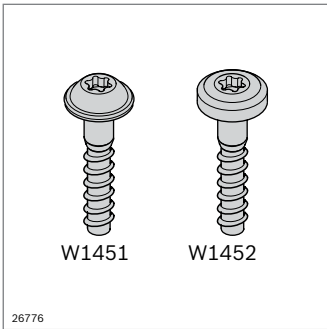
Spacer washer	Slot		No.
77x23	8	4	8 981 535 891
Material:	steel, plain		


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		



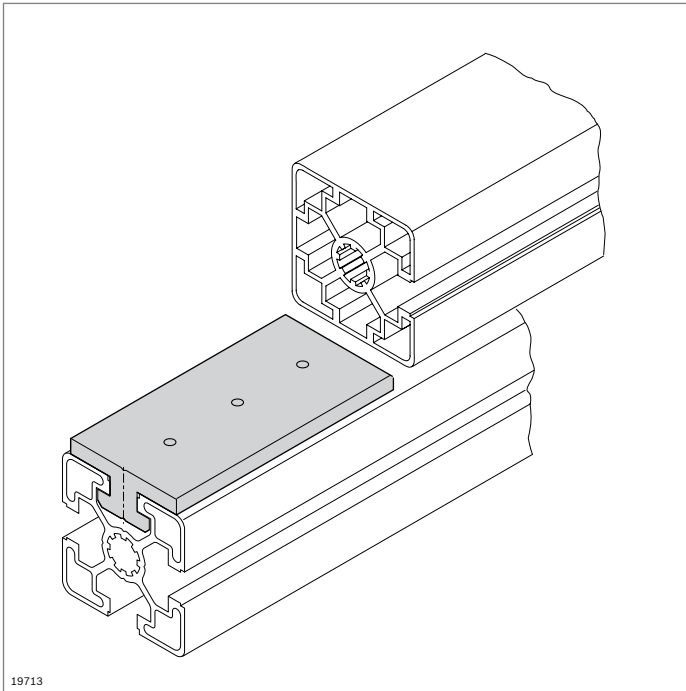
Spacer washer	Slot		No.
77x36	10	4	8 981 535 890

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



19713

Slider for profiles

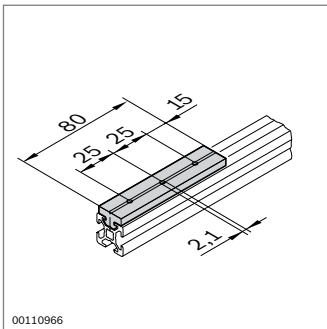


Slider

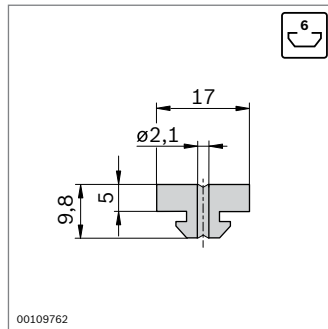
- For the construction of low-wear guides, e.g. for manual sliding and sliding and lifting doors, as well as drawer slides

Optional accessories:

Sheet metal screws for fastening the slider in a profile slot



00110966



00109762

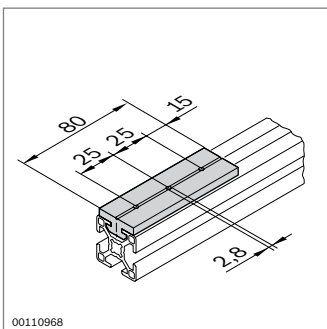
Slider, flat



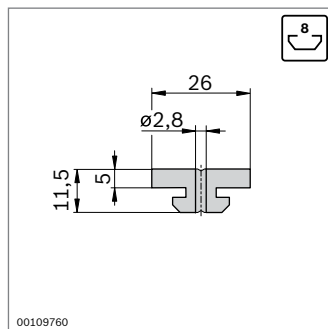
No.

10 **3 842 523 213**

Material: POM; natural



00110968



00109760

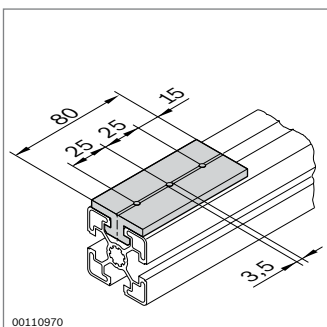
Slider, flat



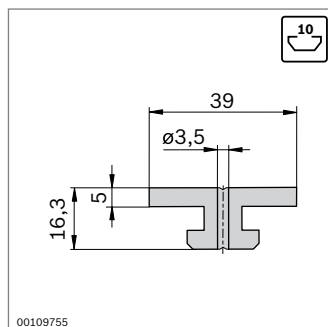
No.

10 **3 842 523 212**

Material: POM; natural



00110970



00109755

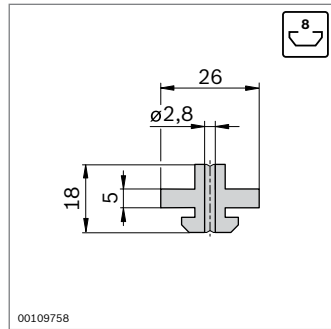
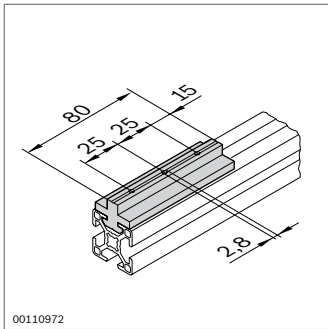
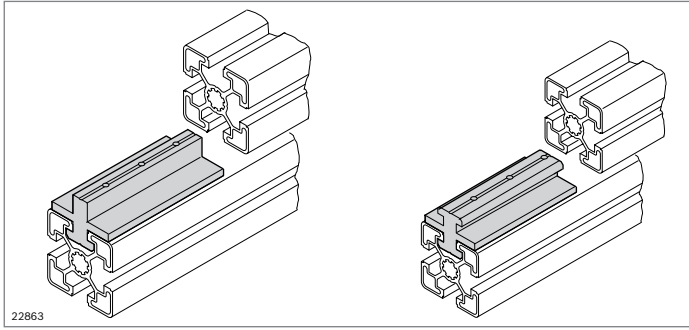
Slider, flat



No.

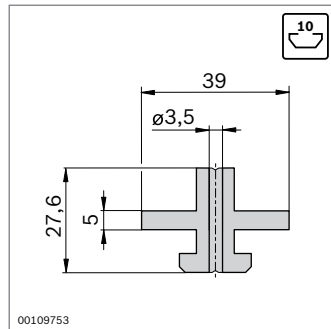
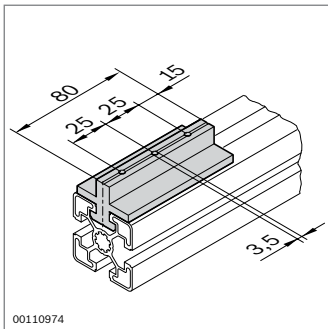
10 **3 842 530 329**

Material: POM; natural



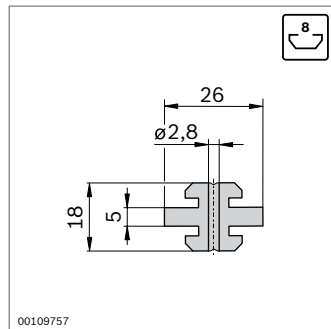
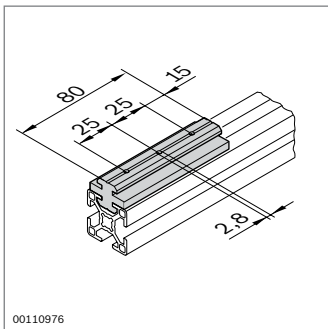
Slider, center	No.
	10 3 842 523 210

Material: POM; natural



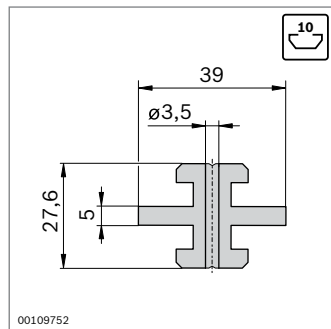
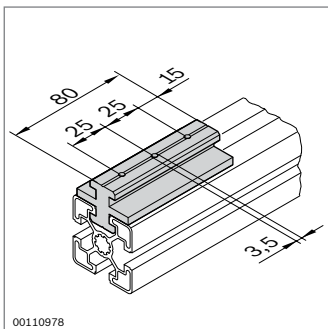
Slider, center	No.
	10 3 842 523 206

Material: POM; natural



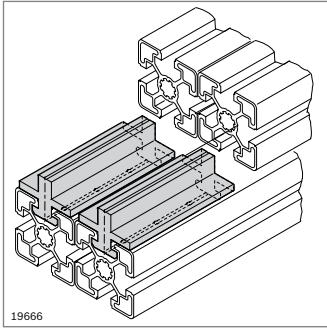
Slider, center	No.
	10 3 842 523 209

Material: POM; natural



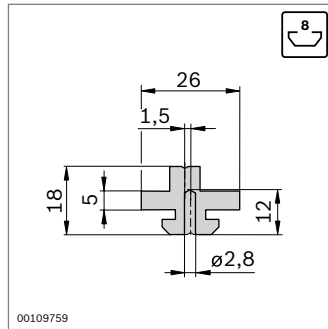
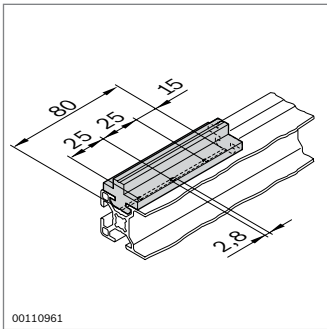
Slider, center	No.
	10 3 842 523 205

Material: POM; natural



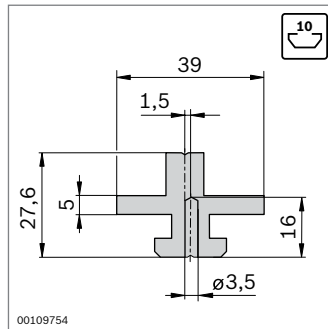
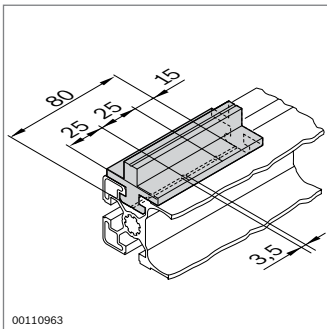
Offset sliders

► For constructing multiple sliding doors



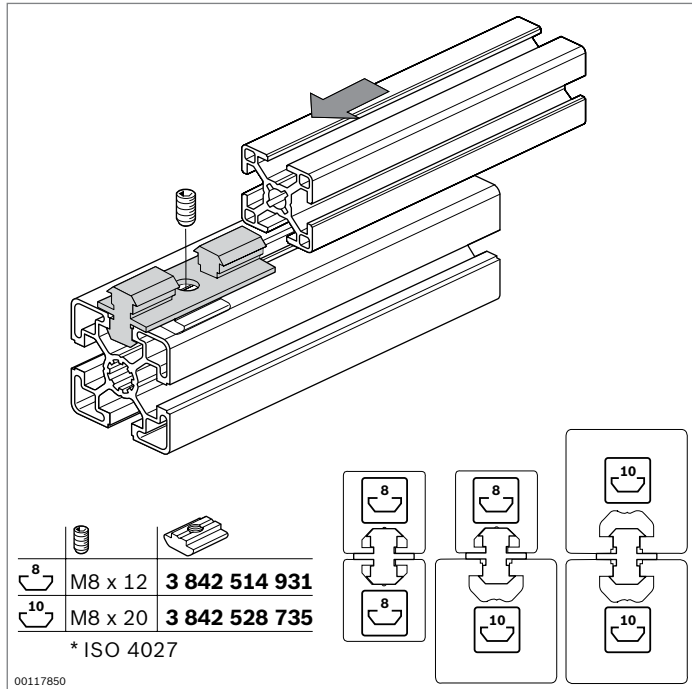
Slider, offset	No.
	10 3 842 523 211

Material: POM; natural

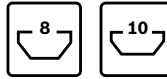


Slider, offset	No.
	10 3 842 523 207

Material: POM; natural



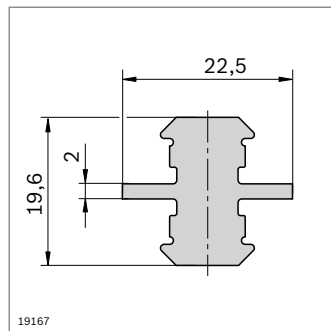
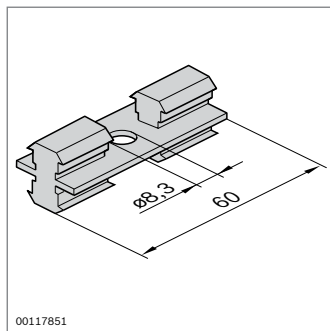
Multi-sliders



- ▶ Multi-slider for constructing low-wear guides
- ▶ Suitable for all profiles with 8 mm and 10 mm slot widths
- ▶ Combination of profiles with different slot widths possible

Accessories:

grub screws (ISO 4027) and sliding blocks (p. 3-7) for fastening the slider in the profile slot



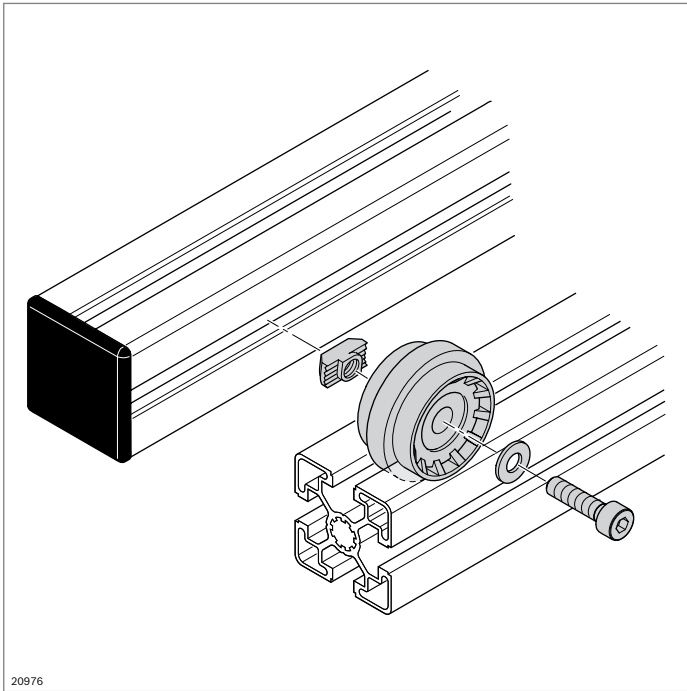
Multi-slider 8/10



No.

10 **3 842 513 517**

Material: POM; natural

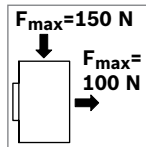
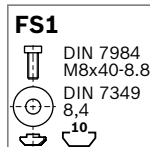
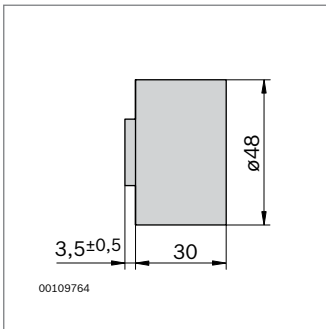


20976

Support wheels

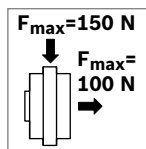
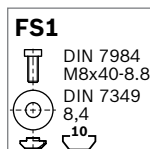
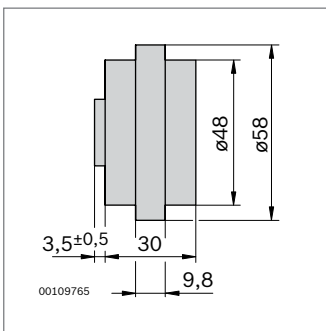


- ▶ Support wheel for constructing trolleys or roller sections
- ▶ Mounted on profiles with 10 mm slot
- ▶ Good running characteristics thanks to deep-groove ball bearing with large diameter
- ▶ Support wheel with rim can be guided in 10 mm slot
- ▶ ESD-conductive



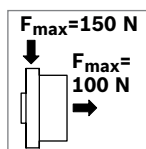
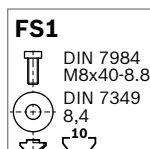
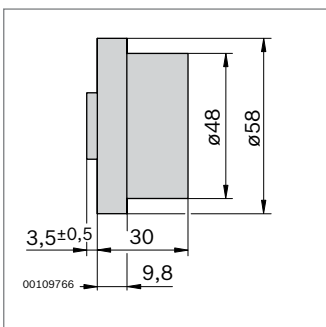
Support wheel	ESD	No.	FS
		10	FS1

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



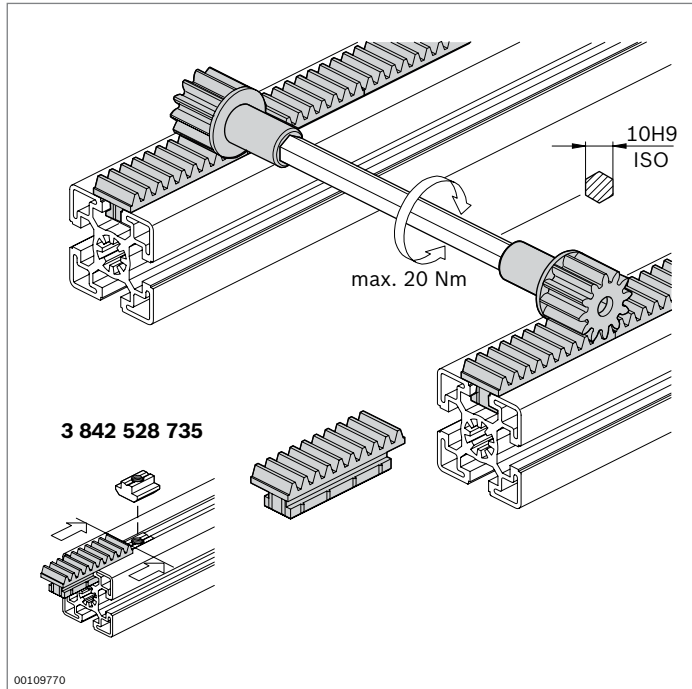
Support wheels with center rim	ESD	No.	FS
		10	FS1

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



Support wheels with side rim	ESD	No.	FS
		10	FS1

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



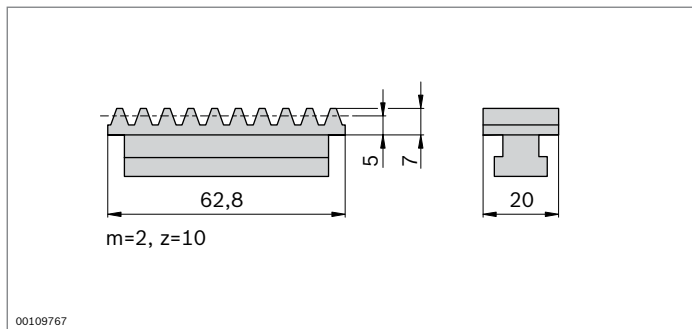
Rack pinion



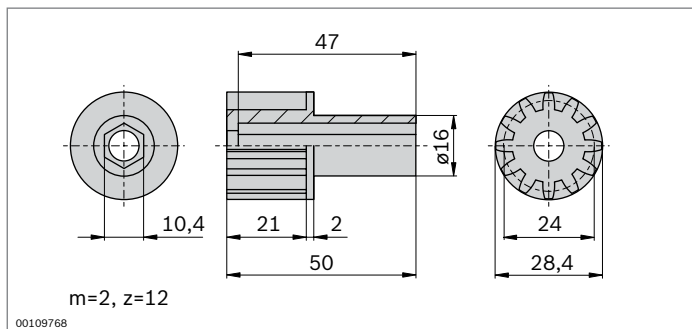
- For constructing synchronous shafts to prevent tilting in the case of large guide widths

Required accessories:

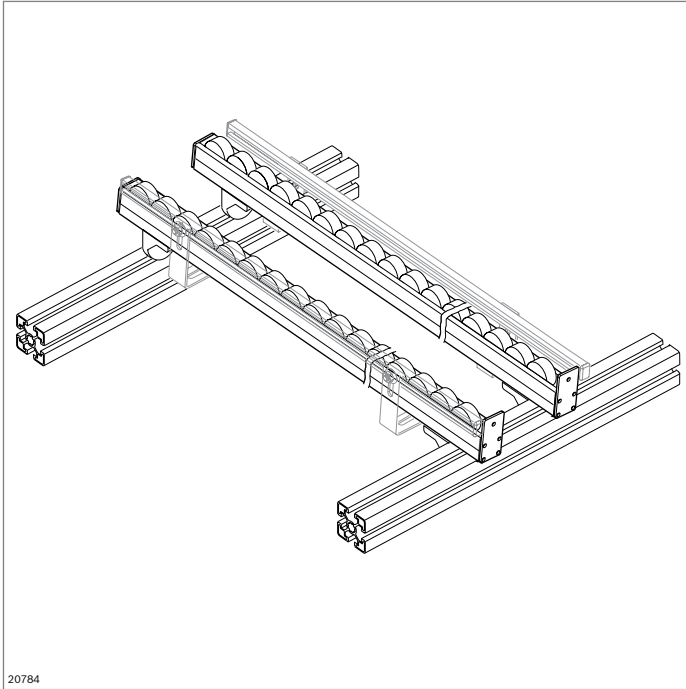
- standard commercially available hexagonal shaft 10H9
- sliding block for securing the rack in the slot (p. 3-7)



Rack	No.
Material: PA; black	10 3 842 501 578

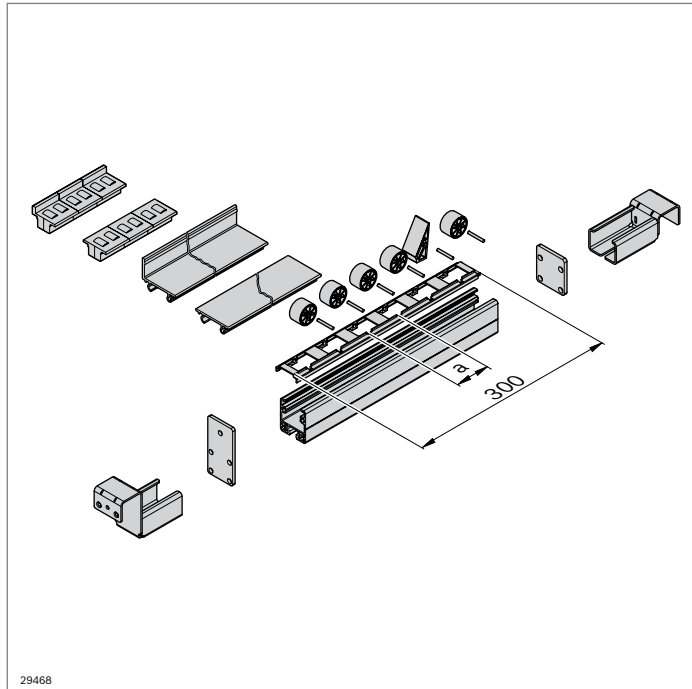


Pinion	No.
Material: POM, white	3 842 501 576



Elements for the construction of conveyor sections

- ▶ Assembly elements for constructing manual conveyor sections
- ▶ Various clip-in conveyor media, with and without lateral guide
- ▶ Standard slots as attachment interface
- ▶ EcoFlow for manual linking of workstations



Conveyor track Lean

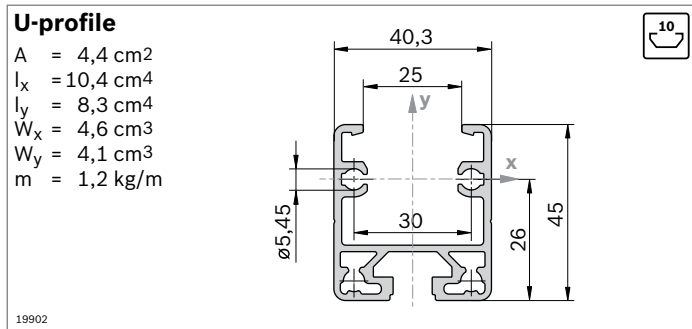


- ▶ Components for constructing manual conveyor sections
- ▶ Based on multi-functional U-profile
- ▶ Clip-in conveyor elements for all requirements:
 - rollers with or without flange; 4 colors to visually identify inventories (kanban) or to differentiate between good and reject parts
 - Slide rails with or without integrated lateral guide (GSSK, GS)
 - roller elements with and without flange (RE45SK, RE45)

Accessories:

Round tube D28 (p. 2-70)

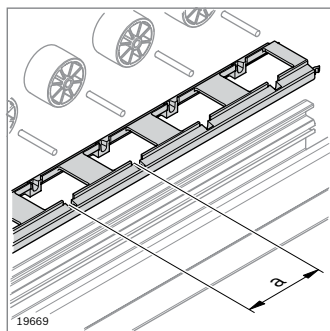
- ▶ U-profile with 10 mm slot



U-profile	L (mm)	ESD	No.
1 pcs	30 ... 6000		3 842 993 316 / L
20 pcs	6070		3 842 535 115
1 pcs	30 ... 6000		3 842 995 027 / L
20 pcs	6070		3 842 541 814

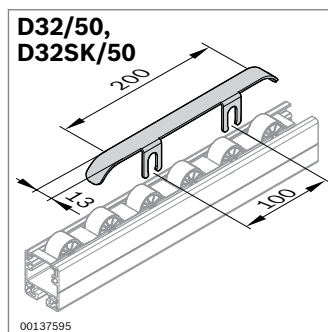
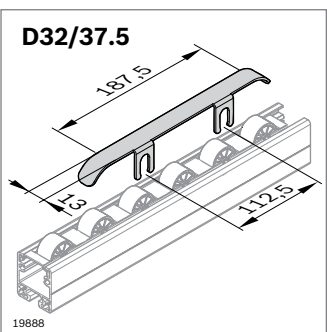
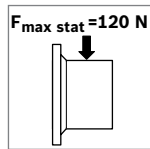
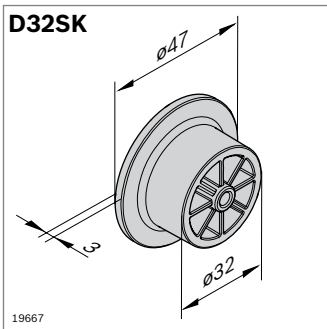
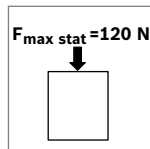
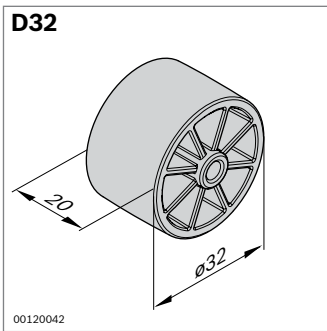
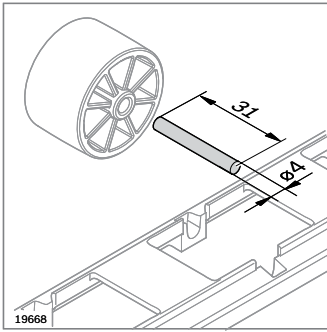
Material: U-profile: aluminum, anodized
U-profile ESD: aluminum, untreated

- ▶ Roller carrier for rollers D32 and D32SK (p. 12-21)



Roller carrier	a (mm)	ESD	No.
D32/37.5	37.5		3 842 537 944
			3 842 537 945
D32/50	50		3 842 532 887
			3 842 538 094
D 32SK/50	50		3 842 532 886
			3 842 537 947

Material: ABS



► Steel axis for rollers D32, D32SK

Steel axis	ESD	No.
	100	3 842 532 862

Material: steel, stainless

Roller	ESD	No.
D32 black		100 3 842 532 865
	⚠	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

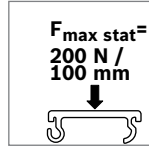
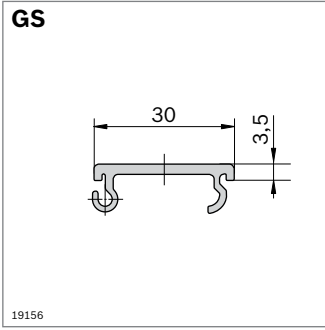
Material: PE, colored / ESD made of PA, colored

Roller	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

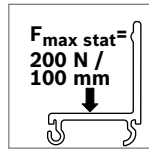
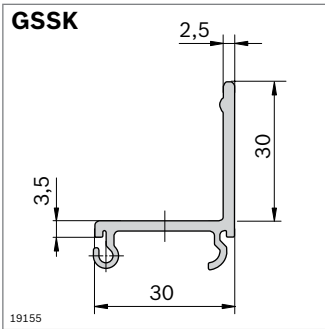
Material: steel; galvanized



- ▶ Slide rail GS for constructing conveyor tracks with large gradients
- ▶ Slide rail for use with heavy containers

Slide rail	L (mm)	ESD	No.
GS	3000	20	3 842 535 124
	3000		3 842 537 803

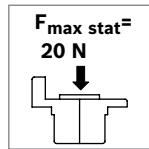
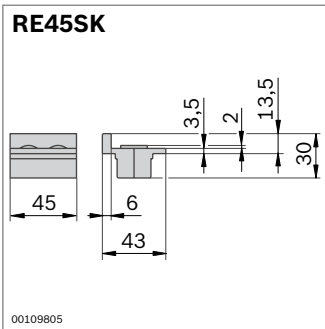
Material: PVC, gray / ESD in black



- ▶ Slide rail with lateral guide GSSK for constructing conveyor tracks with large gradients
- ▶ Slide rail for use with heavy containers

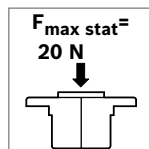
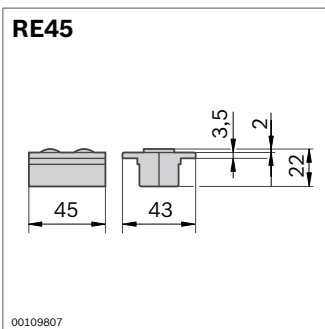
Slide rail	L (mm)	ESD	No.
GSSK	3000	20	3 842 537 806
	3000		3 842 537 807

Material: PVC, gray / ESD in black



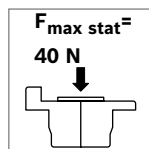
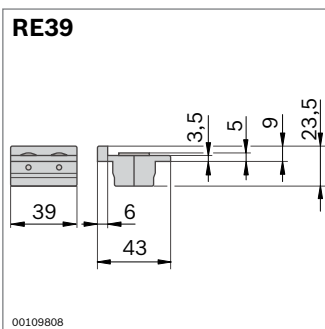
Roller element	ESD	No.
RE45SK	100	3 842 319 500
		3 842 538 065

Material: PA; black



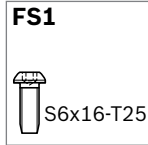
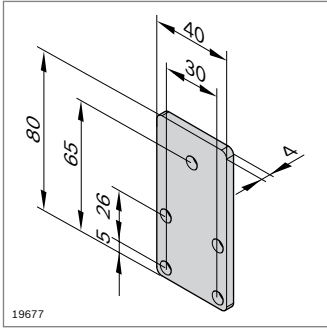
Roller element	ESD	No.
RE45	100	3 842 319 501
		3 842 538 064

Material: PA; black



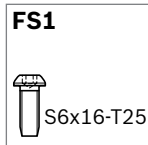
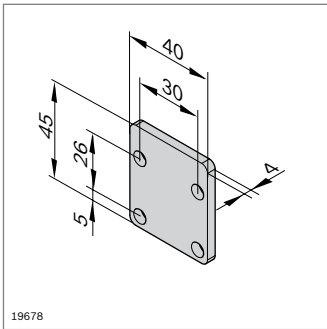
Roller element	ESD	No.
RE39	10	3 842 520 000
		3 842 538 245

Material: PA; black



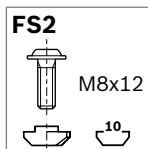
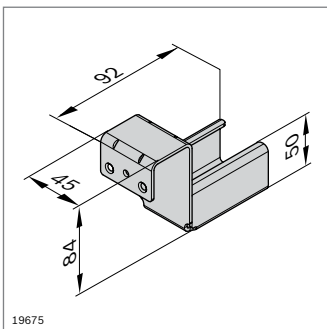
Stop plate with stop	ESD	No.	FS
40x80		20 3 842 535 121	4xFS1

Material: steel; galvanized
 Scope of delivery: incl. fastening material (FS)



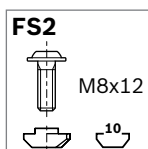
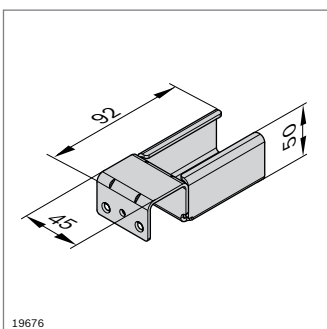
Stop plate without stop	ESD	No.	FS
40x45		20 3 842 535 122	4xFS1

Material: steel; galvanized
 Scope of delivery: incl. fastening material (FS)



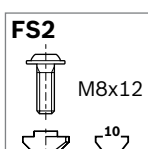
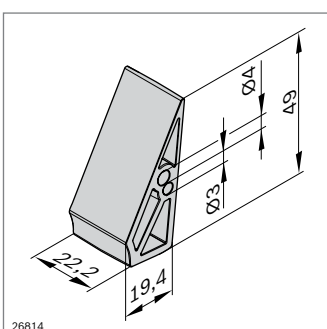
Rail holder with stop	ESD	No.	FS
		20 3 842 537 660	FS2

Material: steel; galvanized
 Scope of delivery: incl. fastening material (FS)



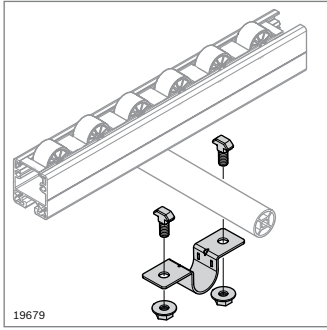
Rail holder without stop	ESD	No.	FS
		20 3 842 537 661	FS2

Material: steel; galvanized
 Scope of delivery: incl. fastening material (FS)





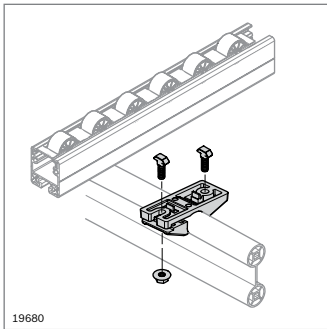
Stopper XLean/Lean	ESD	No.	FS
		10 3 842 552 151	FS2

Material: PP
 Fastening material: steel; galvanized
 Scope of delivery: incl. fastening material (FS)





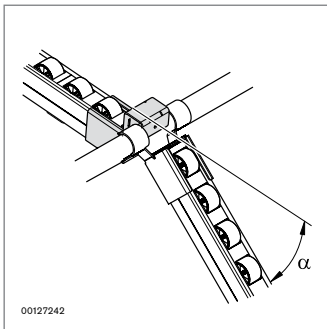
FS3

 HS10-
M8x20
 M8






FS4

 HS10-
M8x30
 EN 1661-
M8-8.8




FS5

 M8x12-
10.9-VZ
 10


Tube clamp D28		No.	FS
	20	3 842 535 364	2xFS3

Material: steel; galvanized
 Scope of delivery: incl. fastening material (FS)

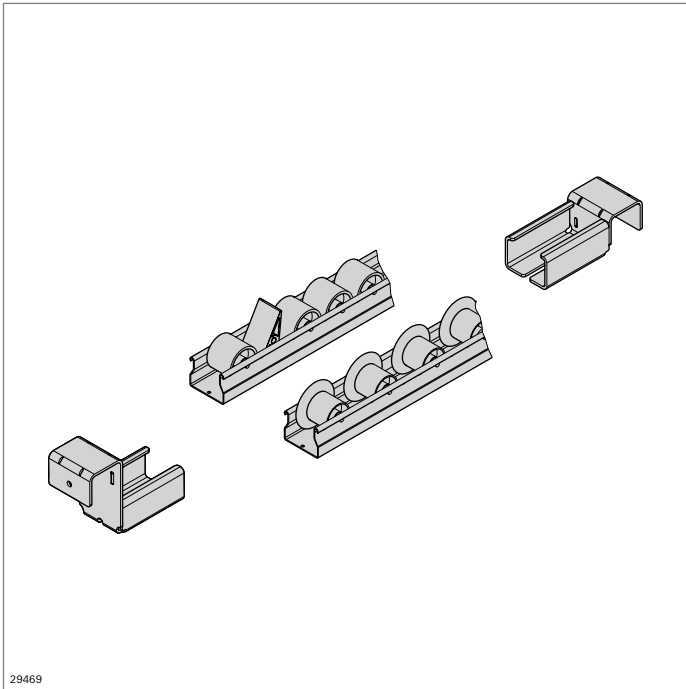
Holder for strut profile D28x55		No.	FS
	20	3 842 537 720	2xFS4

Material: steel; galvanized
 Scope of delivery: incl. fastening material (FS)

- Flexible bridge with maximum tilt (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



29469

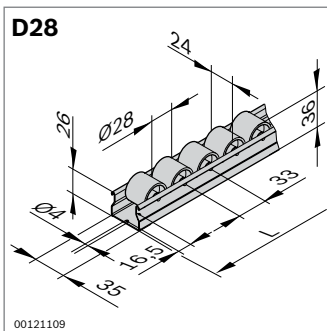
Conveyor track XLean



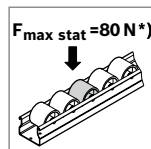
- ▶ Conveyor track made of steel profiles with plastic rollers and optional roller flange
- ▶ Available as ESD-conductive version.
- ▶ Self-supporting roller section
- ▶ Roller section with drill holes for fastening

Accessories:

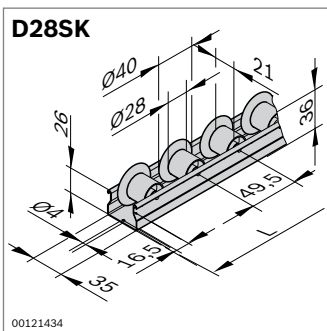
Round tube D28 (p. 2-70)



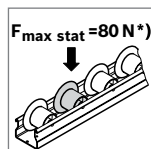
00121109



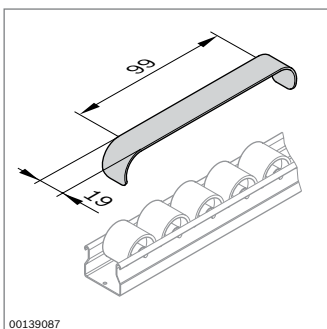
* per roller



00121434



* per roller



00139087

Roller section	L (mm)	ESD	No.
D28	100 ... 4500	1	3 842 993 321 / L
	4500	50	3 842 537 776
	100 ... 4500		3 842 993 431 / L
	4500		3 842 537 778

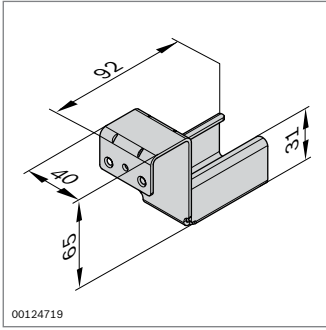
Material: Rail: steel, galvanized
Roller: PP

Roller section	L (mm)	ESD	No.
D28SK	100 ... 4500	1	3 842 993 322 / L
	4500	50	3 842 537 777
	100 ... 4500		3 842 993 432 / L
	4500		3 842 537 779

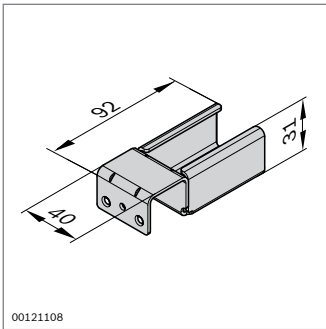
Material: Rail: steel, galvanized
Roller: PP

Brake	No.
	20 3 842 532 871

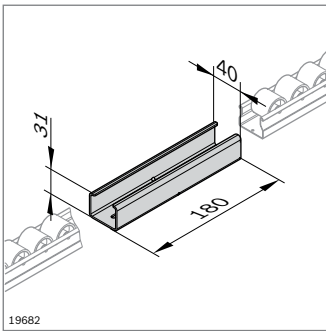
Material: Spring steel



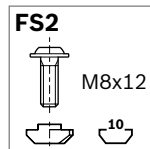
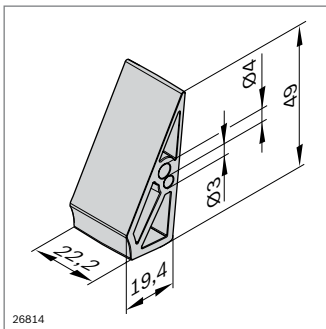
Rail holder with stop			No.
		20	3 842 538 372
Material:	steel; galvanized		



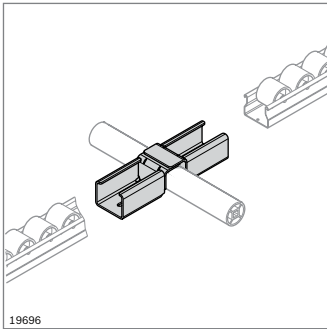
Rail holder without stop			No.
		20	3 842 537 687
Material:	steel; galvanized		



Section link			No.
		20	3 842 536 722
Material:	steel; galvanized		

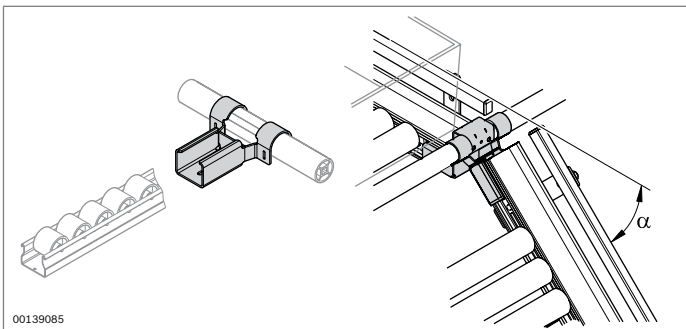


Stopper XLean/Lean		ESD		No.	FS
			10	3 842 552 151	FS2
Material:	PP				
	Fastening material: steel; galvanized				
Scope of delivery:	incl. fastening material (FS)				



Bridge		No.
		20 3 842 536 724

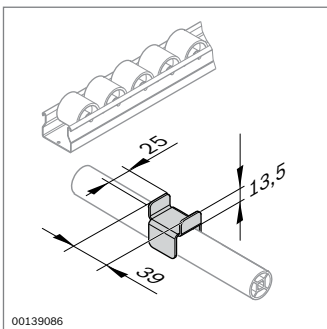
Material: steel; galvanized



- Flexible bridge with maximum tilt (α_{\max}) from horizontal:
- with round tube D28 (p. 2-70): $\alpha_{\max} = 40^\circ$
 - with strut profile D28x55 (p. 2-71): $\alpha_{\max} = 30^\circ$

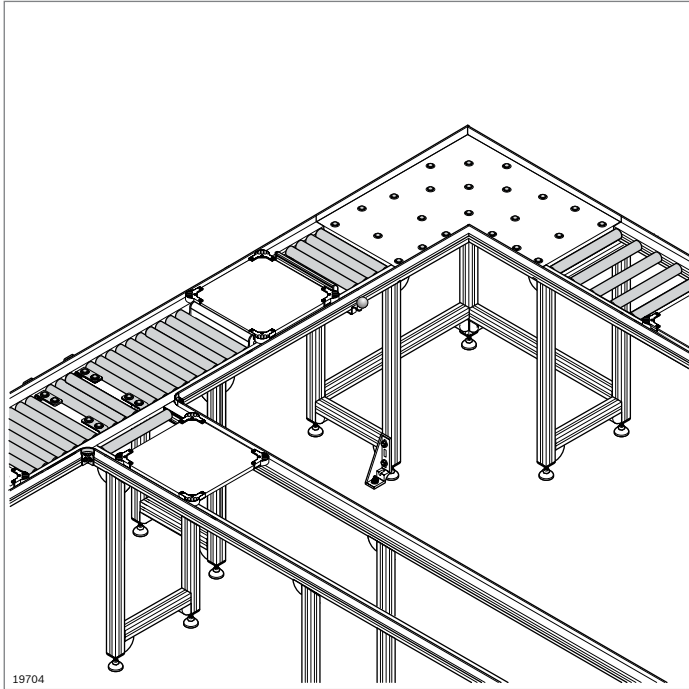
Flexible bridge		No.
		20 3 842 537 911

Material: steel; galvanized



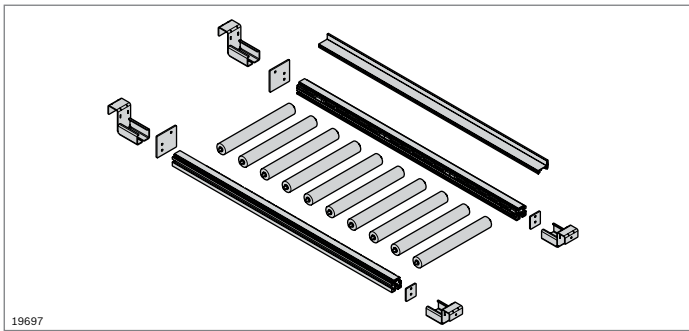
Mounting		No.
		20 3 842 537 657

Material: steel; galvanized



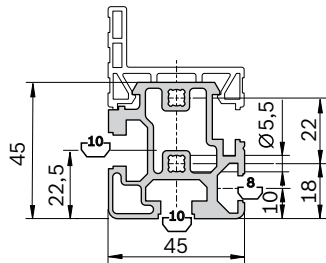
EcoFlow conveyor track

- ▶ Based on EcoFlow section profile
- ▶ For manual slide sections with rollers
- ▶ Clip-in guide profiles with lateral guide and clip-in conveyor rollers

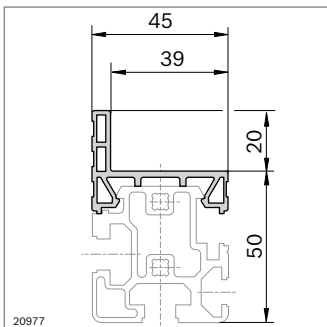


MV45x45

$A = 6,2 \text{ cm}^2$
 $I_x = 11,8 \text{ cm}^4$
 $I_y = 10,5 \text{ cm}^4$
 $W_x = 5,3 \text{ cm}^3$
 $W_y = 4,7 \text{ cm}^3$
 $m = 1,7 \text{ kg/m}$



19698



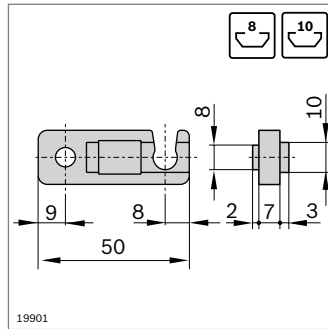
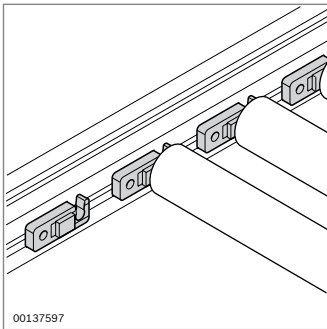
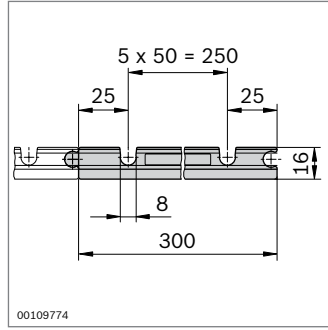
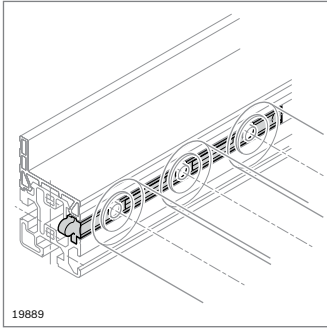
20977

Section profile MV45x45		L (mm)	No.
1 pcs		30 ... 6070	3 842 993 029 / L
20 pcs		6070	3 842 537 321

Material: aluminum, anodized

Guide profile MV45		L (mm)	ESD		No.
30 ... 3000		3000	1		3 842 993 511 / L
3000		3000	10		3 842 525 443
30 ... 3000		3000	1		3 842 993 512 / L
3000		3000	10		3 842 526 034

Material: PVC



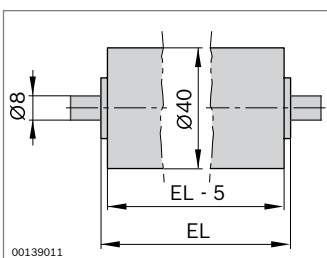
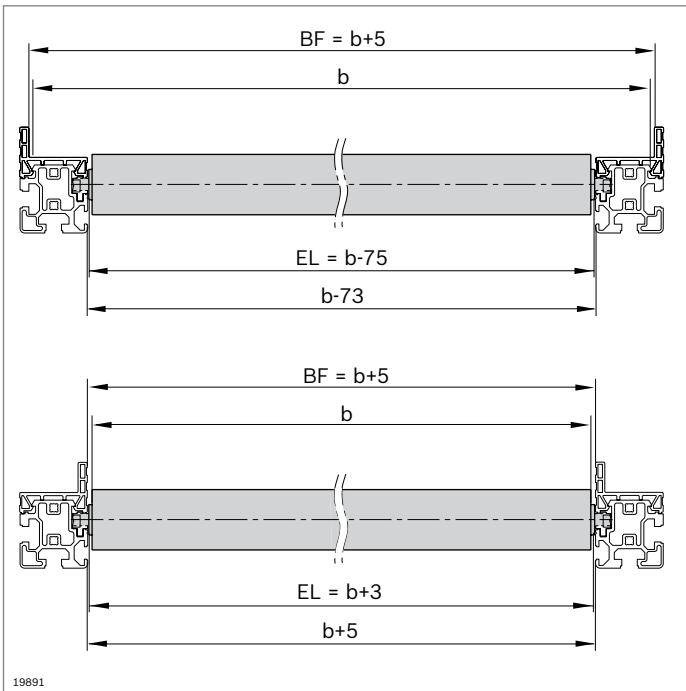
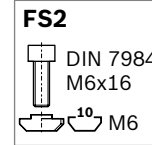
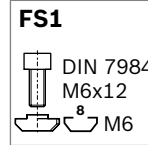
EcoFlow roller carrier	ESD	No.
	10	3 842 535 683

Material: ABS; black

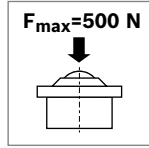
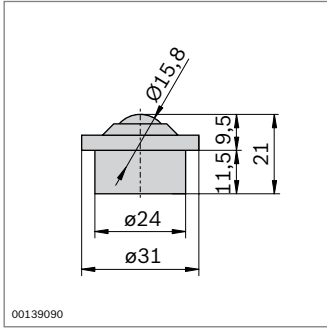
Roller mount	Slot	No.	FS
	8	10	3 842 535 667 FS1
	10	10	3 842 535 668 FS2

Material: Roller mount: PA6, black
Fastening material: steel; galvanized

Scope of delivery: incl. fastening material (FS)



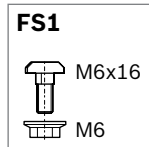
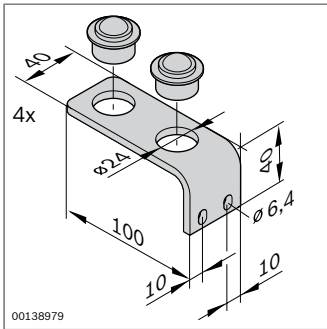
EcoFlow roller	F_{max} (N)	EL (mm)	ESD	No.
Plastic, gray	150	105 ... 605		3 842 994 989 / L
		225		3 842 525 740
		325		3 842 525 741
		425		3 842 525 742
		525		3 842 537 164
steel; galvanized	500	105 ... 1005		3 842 994 988 / L
		225		3 842 525 737
		325		3 842 525 738
		425		3 842 525 739
		525		3 842 537 163
Stainless steel	150	105 ... 1005		3 842 995 008 / L



► Ball roller for smooth manual movement of goods with large-surfaces

Ball roller	ESD	No.
		20 3 842 541 008

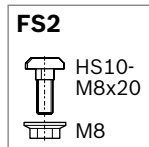
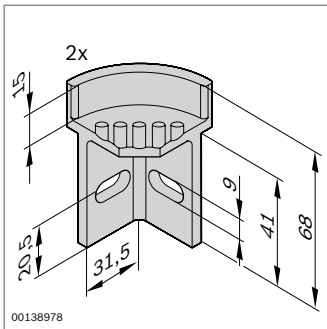
Material: Housing: steel; galvanized
Ball: Stainless steel



Transverse conveyor	ESD	No.	FS
		Set 3 842 536 055	8xFS1

Material: Bracket: steel; galvanized
Ball: Stainless steel

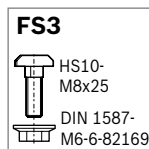
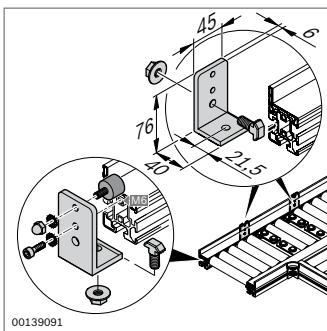
Scope of delivery: incl. 4 x bracket plate, fastening material (FS) for 10 mm slot



Corner piece	ESD	No.	FS
		Set 3 842 536 056	4xFS2

Material: PA; black, ESD-conductive

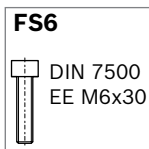
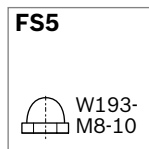
Scope of delivery: incl. 2 x corner piece, fastening material (FS) for 10 mm slot

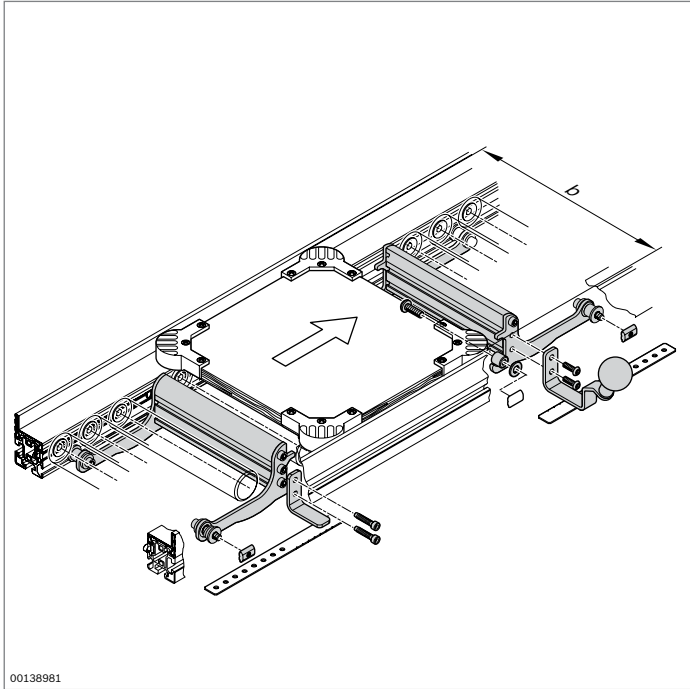


Stop	No.	FS
	Set 3 842 536 057	2xFS3, 4xFS4, 2xFS5 2xFS6

Material: aluminum, anodized

Scope of delivery: incl. 2 x stop, fastening material (FS)

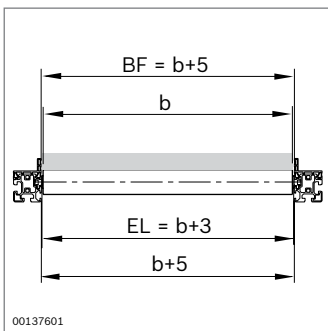
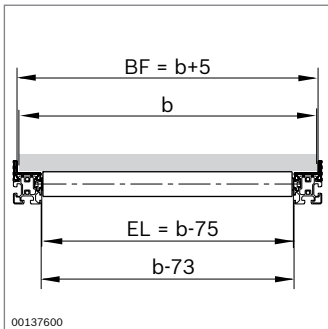




EcoFlow stop gates and return stops



- ▶ 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 extend downwards by an additional 45 mm
- ▶ We recommend using a workpiece pallet with corner pieces (p. 12-32) to provide a defined stopping mechanism

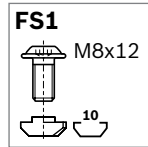
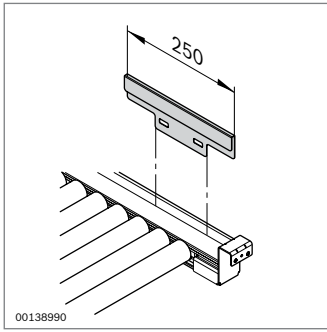


Stop gate	EL (mm)	No.
	105 ... 1005	3 842 995 007 / EL
	225	3 842 537 894
	325	3 842 537 895
	425	3 842 537 896
	525	3 842 537 897

Scope of delivery: Incl. fastening material

Return stop	EL (mm)	No.
	105 ... 1005	3 842 995 017 / EL
	225	3 842 537 898
	325	3 842 537 899
	425	3 842 537 900
	525	3 842 537 901

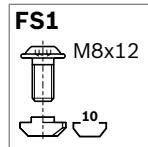
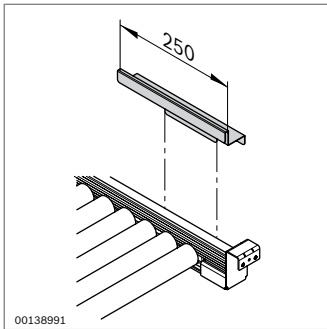
Scope of delivery: Incl. fastening material



- ▶ Protective cover to protect the EcoFlow guide profile when loading the conveyor track

Protective cover		No.	FS
Outer slide rail	Set	3 842 537 583	4xFS1

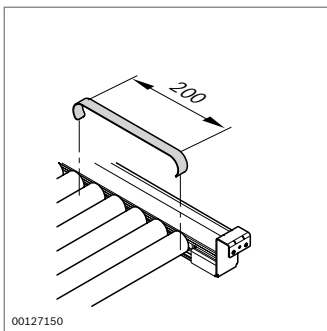
Material: steel; galvanized
Scope of delivery: incl. 2 x protective cover, fastening material (FS)



- ▶ 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

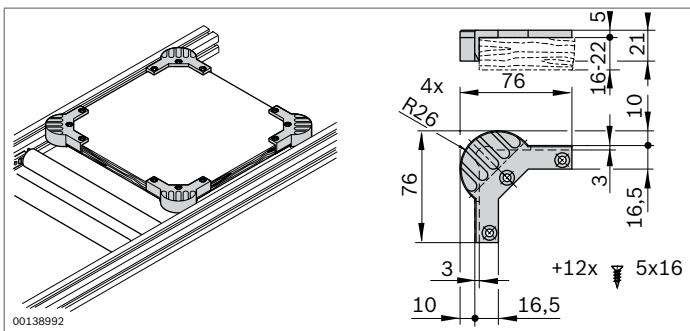
Material: steel; galvanized
Scope of delivery: incl. 2 x protective cover, fastening material (FS)



- ▶ Brake for bringing containers to a stop gently

Brake		No.
	20	3 842 537 740

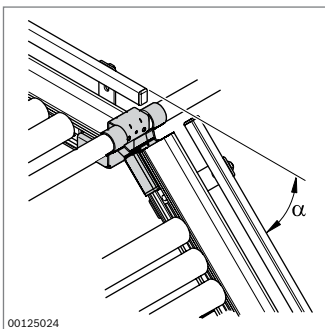
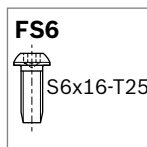
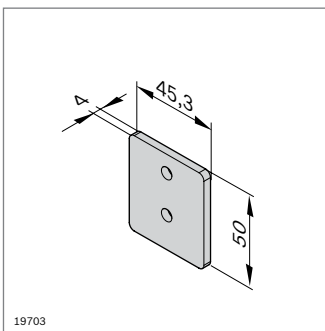
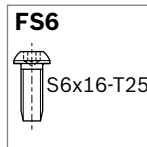
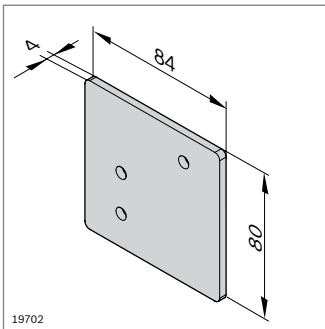
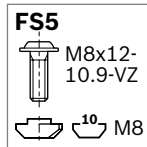
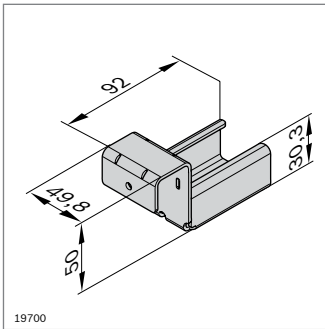
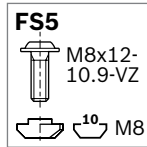
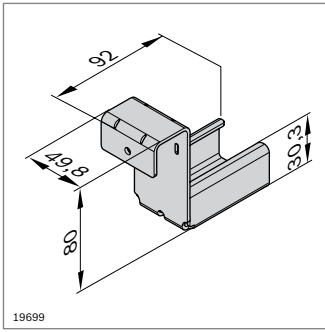
Material: steel; galvanized



- ▶ 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



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)

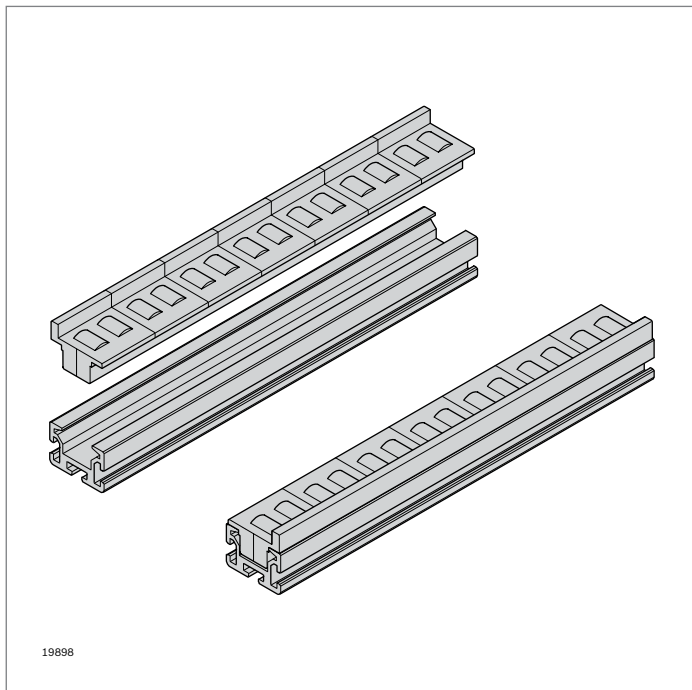
Stop plate without stop	No.	FS
	20	3 842 537 592 2xFS6

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 3 842 537 911

Material: steel; galvanized



19898

Conveyor track made of section profiles and roller elements

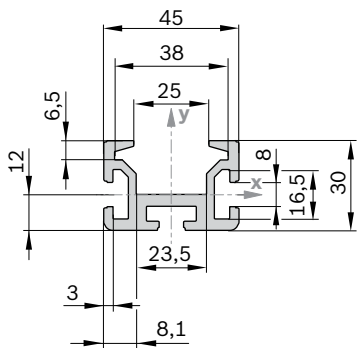
- ▶ Economical solution for manual slide sections
- ▶ Roller elements can be clipped in

Accessories:

Roller elements (p. 12-22)

SP 2/R

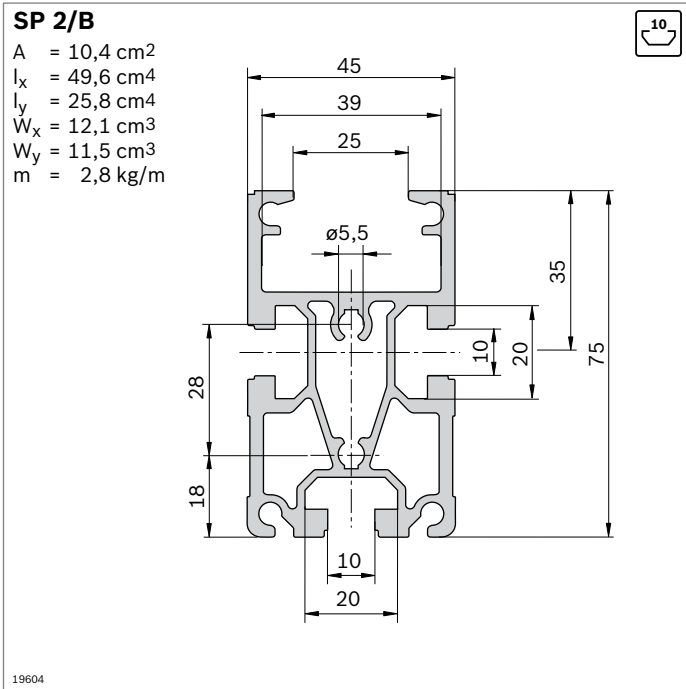
$A = 5,2 \text{ cm}^2$
 $I_x = 4,3 \text{ cm}^4$
 $I_y = 11,7 \text{ cm}^4$
 $W_x = 2,4 \text{ cm}^3$
 $W_y = 5,2 \text{ cm}^3$
 $m = 1,4 \text{ kg/m}$



19893

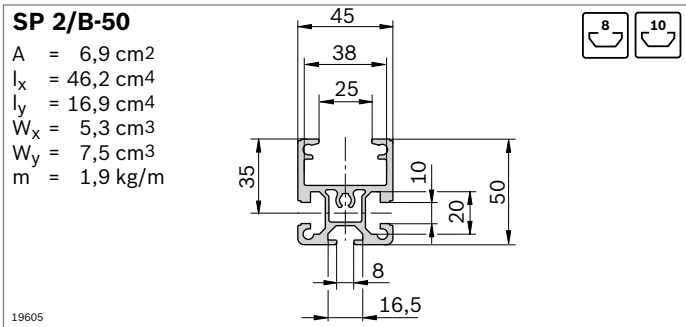
Section profile SP 2/R	L (mm)	No.
	50 ... 6000	3 842 992 676 / L

Material: aluminum, natural-colored, anodized



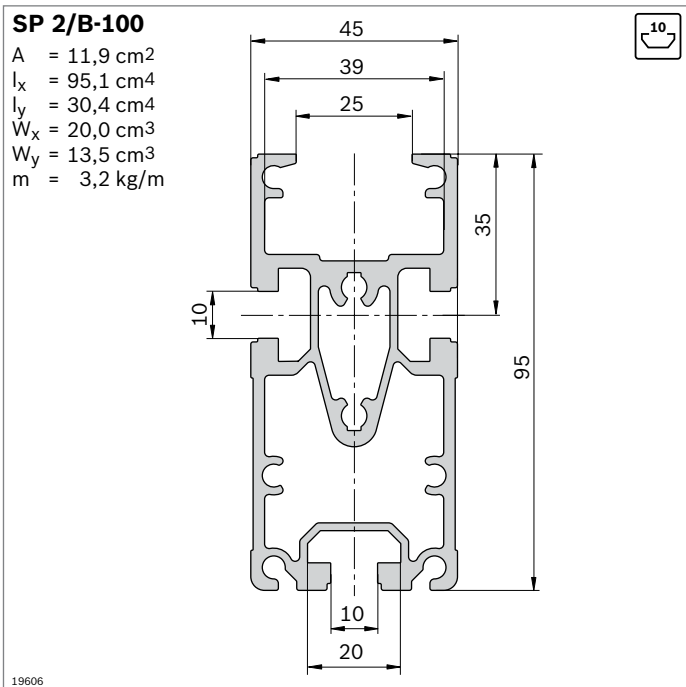
SP 2/B section profile		Slot	L (mm)	No.
1 pcs		10	200...6000	3 842 992 884 / L
16 pcs		10	6070	3 842 532 695

Material: aluminum, natural-colored, anodized
 Accessories: QV 2 cross connector, (s. 12-43)



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

Material: aluminum, natural-colored, anodized



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

Material: aluminum, natural-colored, anodized
 Accessories: QV 2 cross connector, (s. 12-43)

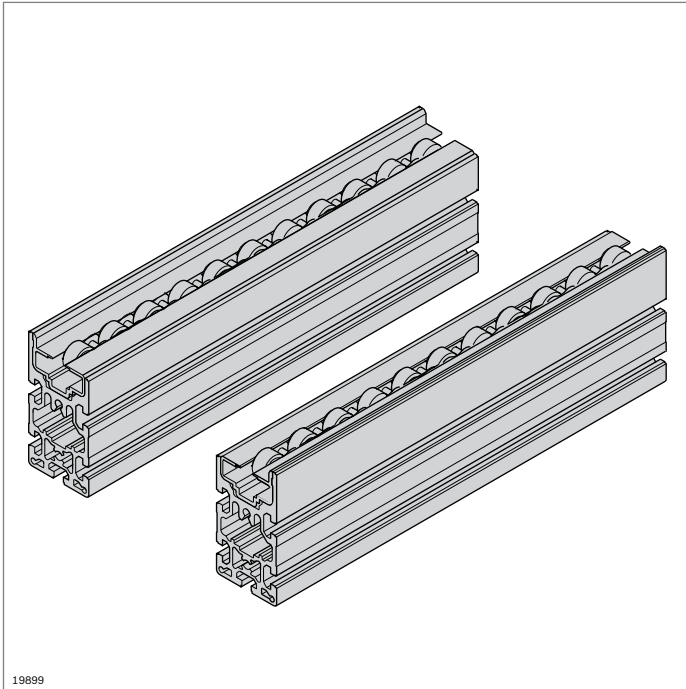
SP 2/BH

$A = 12,4 \text{ cm}^2$
 $I_x = 53,7 \text{ cm}^4$
 $I_y = 28,6 \text{ cm}^4$
 $W_x = 14,0 \text{ cm}^3$
 $W_y = 13,8 \text{ cm}^3$
 $m = 3,3 \text{ kg/m}$

19607

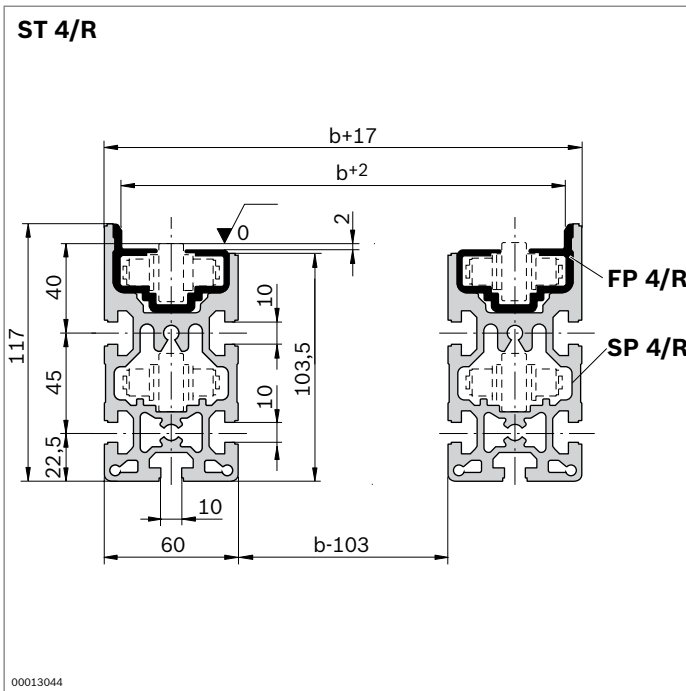
Section Profile SP 2/BH	Slot	L (mm)	No.
1 pcs	10	200...6000	3 842 990 409 / L
16 pcs	10	6070	3 842 532 696

Material: aluminum, natural-colored, anodized
 Accessories: QV 2 cross connector, (s. 12-43)



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



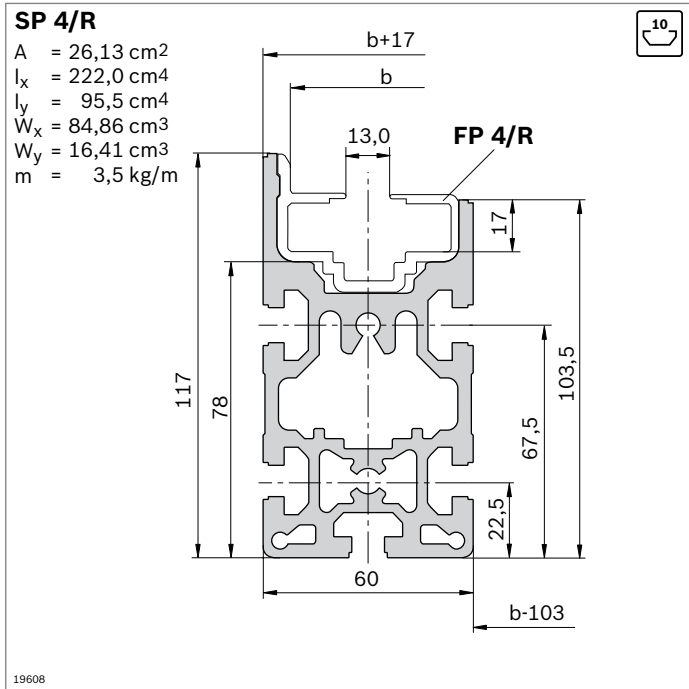
Section ST 4/R	L (mm)	No.
	200...6000	3 842 994 839 / L

Material: aluminum, natural-colored, anodized
 Guide profile: PA 12

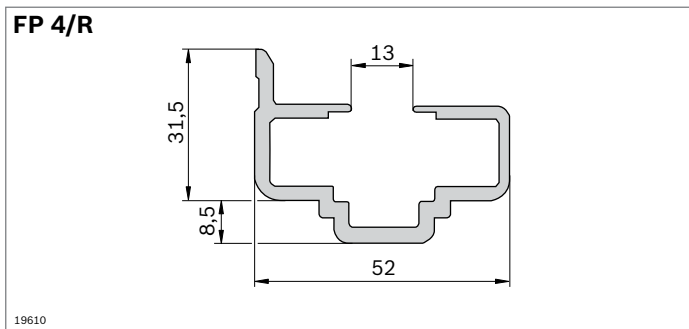
Scope of delivery: 2 x section profile SP 4/R
 2 x guide profile FP 4/R

Condition on delivery: Fully assembled

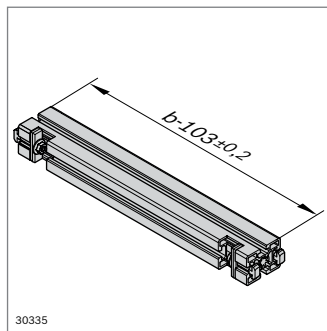
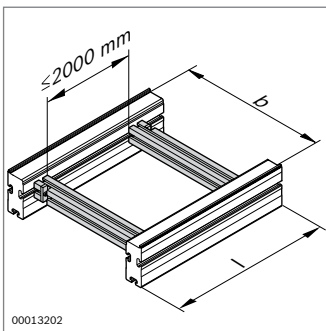
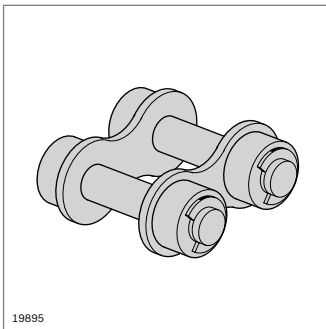
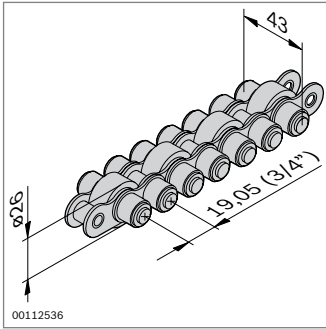
Accessories: Accumulation roller chain (p. 12-39)
 QV 4 cross connector, (s. 12-39)



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. 12-39) QV 4 cross connector, (s. 12-39)		



Guide profile FP 4/R		L (mm)	No.
10 pcs		6000	3 842 532 508
Material:	PA 12 (anti-static)		



Accumulation roller chain	L (mm)	No.
Support wheel: PA 12	5000	3 842 508 967

Material: Accumulation roller chain: steel
 Support roller: see ordering table
 Scope of delivery: incl. chain coupling
 Accessories: additional chain coupling (**3 842 071 941**)

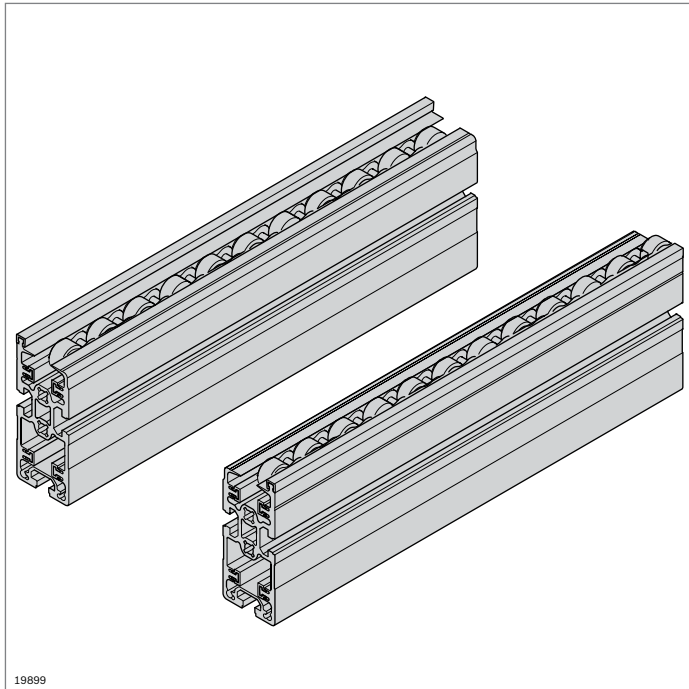
► Chain coupling for extending accumulation roller chains

Master link	No.
	3 842 071 941

Material: Steel

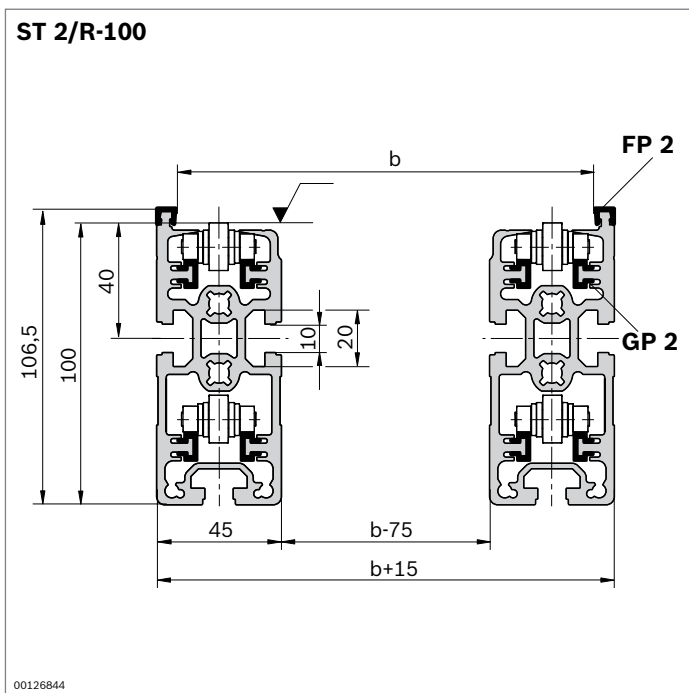
► Cross connector QV 4 for connecting two section profiles
 ► For defining the track width

QV 4 cross connector	b (mm)	No.
	443...1243	3 842 994 832 / b



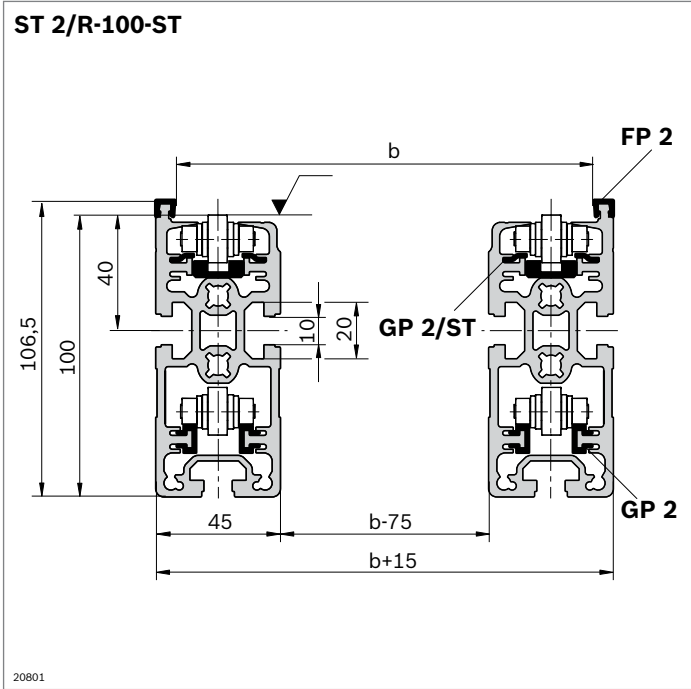
Conveyor sections made of SP 2 section profiles and accumulation roller chains

- ▶ For constructing manual slide sections with high bearing loads (up to 2.0 kg/cm)
- ▶ For applications with and without workpiece pallets
- ▶ Accumulation roller chain with and without small parts trap



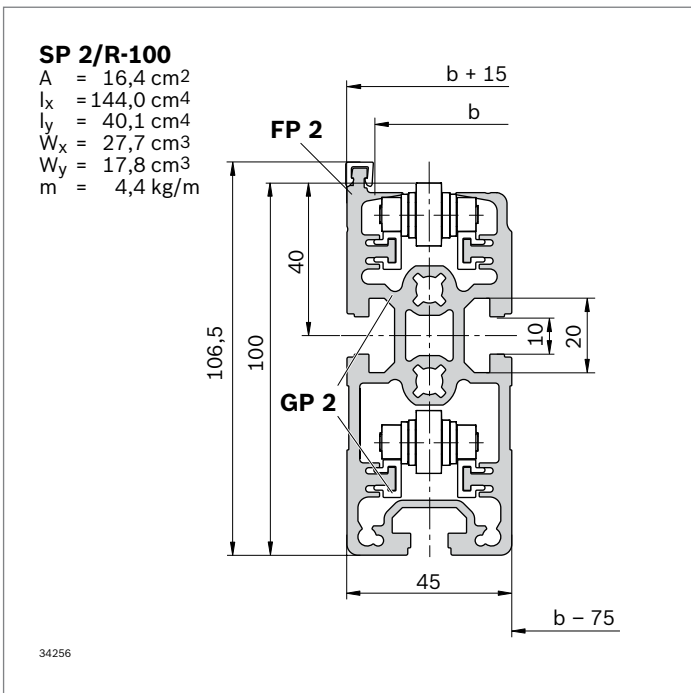
- ▶ Customizable section with plastic guide profile

Section ST 2/R-100	ESD	L (mm)	No.
		60 ... 6000	3 842 994 889 /L
Material:	aluminum, natural-colored, anodized Slide profile, guide profile: PA 12		
Scope of delivery:	2 x section profile SP 2/R-100 2 x guide profile FP 2 8 x slide profile GP 2		
Condition on delivery:	Fully assembled		
Accessories:	Accumulation roller chain (p. 12-43) Accumulation roller chain with small parts trap (p. 12-43) Cross connector QV 2, QV 2-H (p. 12-43)		



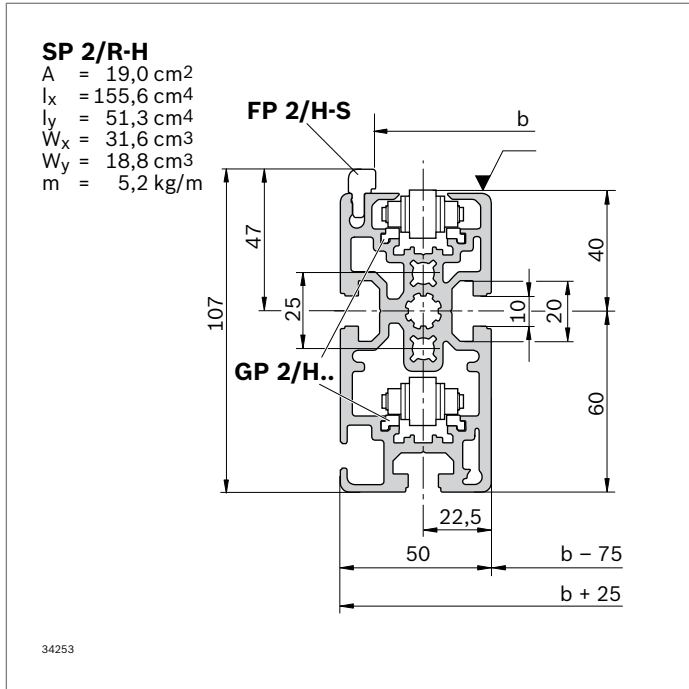
Section ST 2/R-100 ST	ESD	L (mm)	No.
		60 ... 6000	3 842 994 907 / L

- Material: aluminum, natural-colored, anodized
 Slide profile: Steel
 Guide profile: PA 12
 Guide profile for accumulation roller chain: PE
- Scope of delivery: 2 x section profile SP 2/R-100
 2 x guide profile FP 2
 4 x slide profile GP 2
 4 x slide profile GP 2/ST
 2 x guide profile for accumulation roller chain
- Condition on delivery: Fully assembled
- Accessories: Accumulation roller chain (p. 12-43)
 Accumulation roller chain with small parts trap (p. 12-43)
 Cross connector QV 2, QV 2-H (p. 12-43)

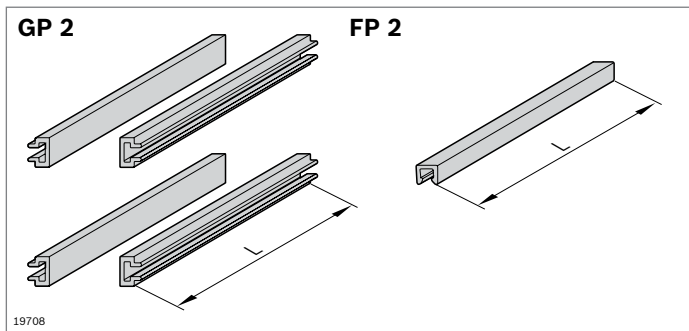


SP 2/R-100 section profile	L (mm)	No.
16 pcs	6070	3 842 529 931

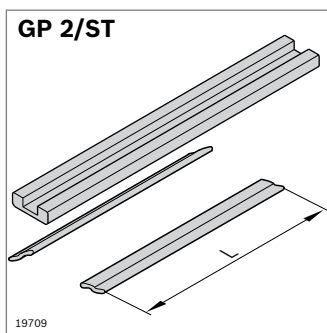
- Material: aluminum, natural-colored, anodized
- Accessories: PA guide and slide profile (p. 12-42)
 ST guide and slide profile (p. 12-42)



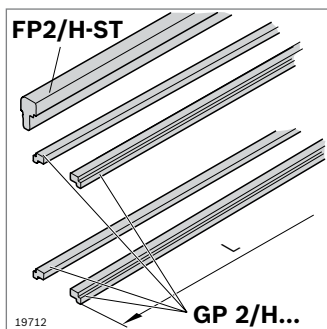
SP 2/R-H section profile		L (mm)	No.
12 pcs		6070	3 842 536 792
Material:	aluminum, natural-colored, anodized		
Accessories:	Guide profile FP 2/H-ST Slide profile GP 2/H-KST Slide profile GP 2/H-ST		



PA guide and slide profile		ESD	No.
			3 842 529 933
Material:	PA 12 (anti-static)		
Scope of delivery:	64 x slide profile GP 2 (L = 6000 mm) 16 x guide profile FP 2 (L = 6000 mm)		

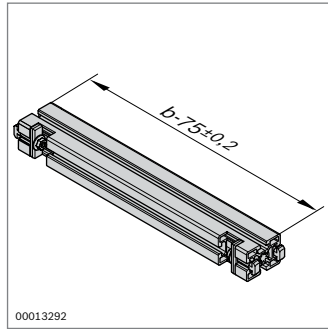
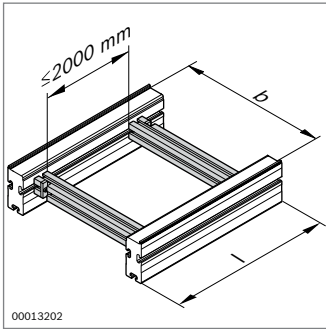


Guide and Slide Profile ST		ESD	No.
			3 842 532 676
Material:	GP 2/ST: steel; corrosion-resistant Guide profile for accumulation roller chain: PE		
Scope of delivery:	32 x slide profile GP 2/ST (L = 3000 mm) 24 x guide profile for accumulation roller chain (L = 2000 mm)		



Guide profile		L (mm)	ESD	No.
FP 2/H-ST	24 pcs	3000		3 842 537 890
Material:	steel; corrosion-resistant			

Slide profiles		L (mm)	ESD	No.
GP 2/H-ST	48 pcs	3000		3 842 537 888
GP 2/H-KST	48 pcs	3000		3 842 537 889
Material:	H-KST: PA (anti-static) H-ST: steel; corrosion-resistant			

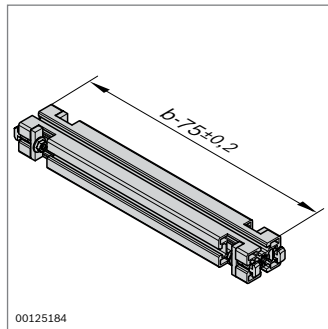
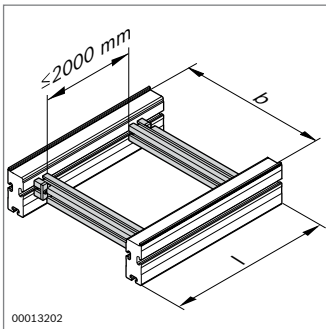


- ▶ Cross connector QV 2 for connecting two section profiles
- ▶ For defining the track width

QV 2 cross connector	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)

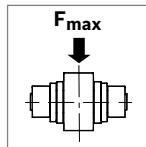
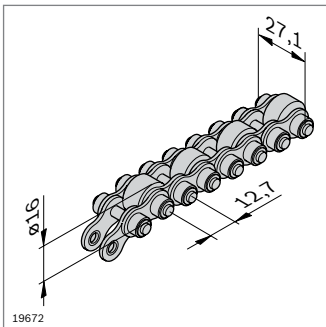


- ▶ Cross connector QV 2-H for connecting two section profiles
- ▶ For heavy applications
- ▶ For defining the track width

QV 2-H cross connector	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

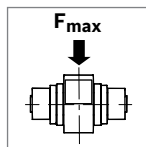
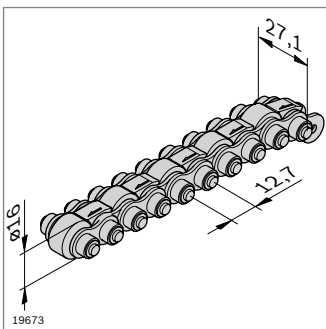
¹⁾ When using slide profile GP 2/ST

²⁾ When using slide profile GP 2

Material: Accumulation roller chain: steel
Support wheel: see ordering table

Scope of delivery: incl. chain coupling

Accessories: additional chain coupling (**3 842 530 417**)



Accumulation roller chain with small parts trap	F _{max} (kg/cm)	L (mm)	No.
Support wheel: PA 12	1.5	12000	3 842 536 268
Support wheel: Steel	2.0 ¹⁾ /1.5 ²⁾	12000	3 842 536 270

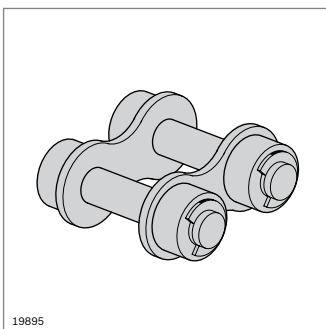
¹⁾ When using slide profile GP 2/ST

²⁾ When using slide profile GP 2

Material: Accumulation roller chain: steel
Support wheel: see ordering table

Scope of delivery: incl. chain coupling

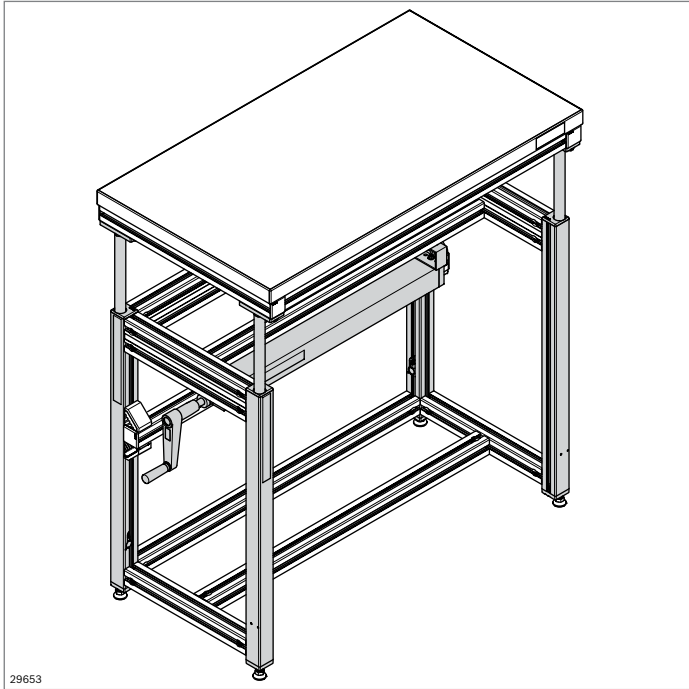
Accessories: additional chain coupling (**3 842 530 417**)



- ▶ Chain coupling for extending accumulation roller chains

Master link	No.
	3 842 530 417

Material: Steel



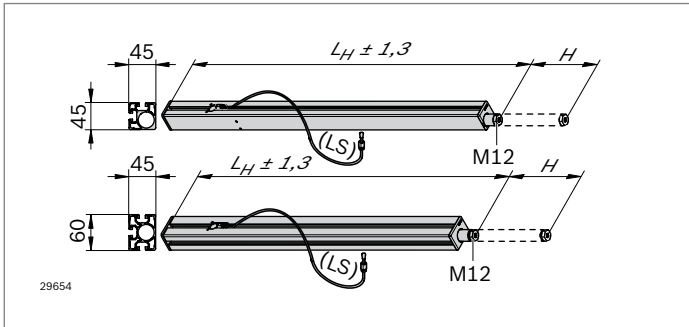
Components for height adjustment 45x45 and 45x60



- ▶ Infinitely variable hydraulic height adjustment with a crank handle, e.g. for work benches, tables or frames
- ▶ Max. load bearing capacity per lifting module 800 N
- ▶ Maximum lift 400 mm
- ▶ Simplest mounting system due to use of hydraulic hoses with quick-release couplings
- ▶ Variable or fixed lengths for lifting module and hoses
- ▶ 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 (see p. 3-17),
- ▶ leveling foot, e.g. 3 842 529 025 (p. 6-4)

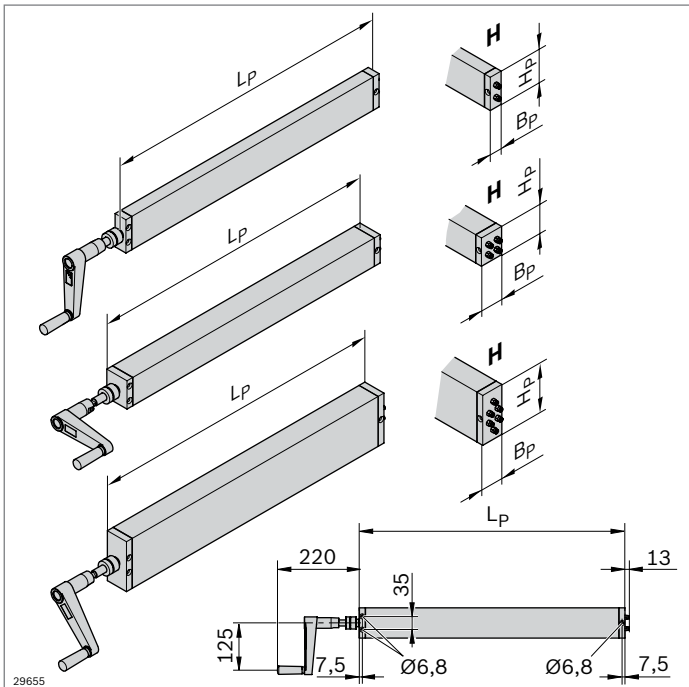


Lifting module	L _H (mm)	L _S (mm)	No.
45x45 Variable	720 ...	1000 ...	Set 3 842 994 000/L_H/L_S
	2000 ¹⁾	4000 ²⁾	
Standard	770	2500	Set 3 842 552 131/L_H/L_S
45x60 Variable	720 ...	1000 ...	Set 3 842 994 001/L_H/L_S
	2000 ¹⁾	4000 ²⁾	
Standard	770	2500	Set 3 842 552 132/L_H/L_S

- ¹⁾ Lifting module length (L_H) can be ordered in 10 mm increments
²⁾ Hose length (L_S) can be ordered in 1000, 1500, 2000, 2500, 3000, 4000 mm

Scope of delivery: 2 x lifting module with built-in hydraulic cylinder incl. hose (min. bend radius 50 mm) and quick-release coupling; 2 x cover cap

Condition on delivery: assembled, filled with food-safe HPL oil of class NSF H1



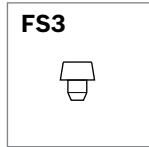
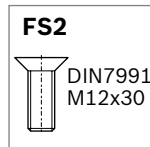
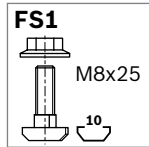
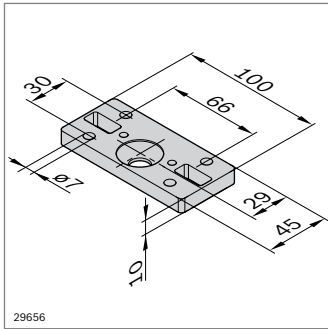
Pump and drive

- ▶ Synchronous activation of 2, 4 or 6 lifting modules
- ▶ Can be mounted in any position
- ▶ Incl. friction clutch for load control
- ▶ 4 mm stroke per rotation
- ▶ Crank handle, retractable

Pump	Max. Load (N)	Amount Lift modules	L _p (mm)	W _p (mm)	H _p (mm)	No.
	1600	2	702.5±2	30	80	3 842 552 133
	3200	4	702.5±2	56	68	3 842 552 134
	3200	6	714.5±2	60	120	3 842 552 135

Scope of delivery: pump incl. hand crank and quick-release coupling

Condition on delivery: assembled, filled with food-safe HPL oil of class NSF H1

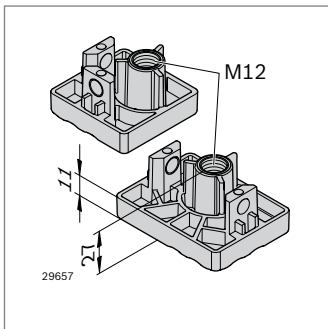


Connecting plate

- For mounting the 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)

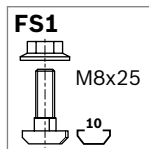
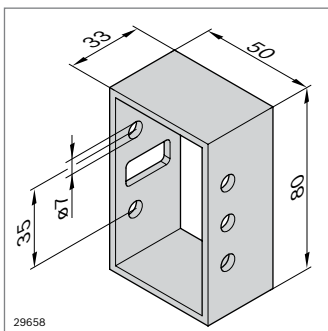


Adapter plate

- For mounting a leveling foot (e.g. 3 842 529 025) to the lifting module
- Max. screw-in depth of the spindle with $L_H = 720$ 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)

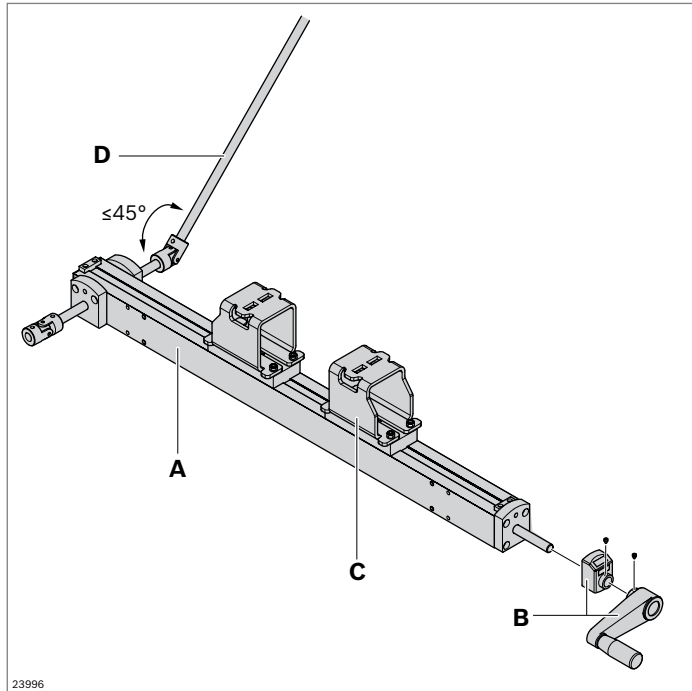


Connection adapter

- 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

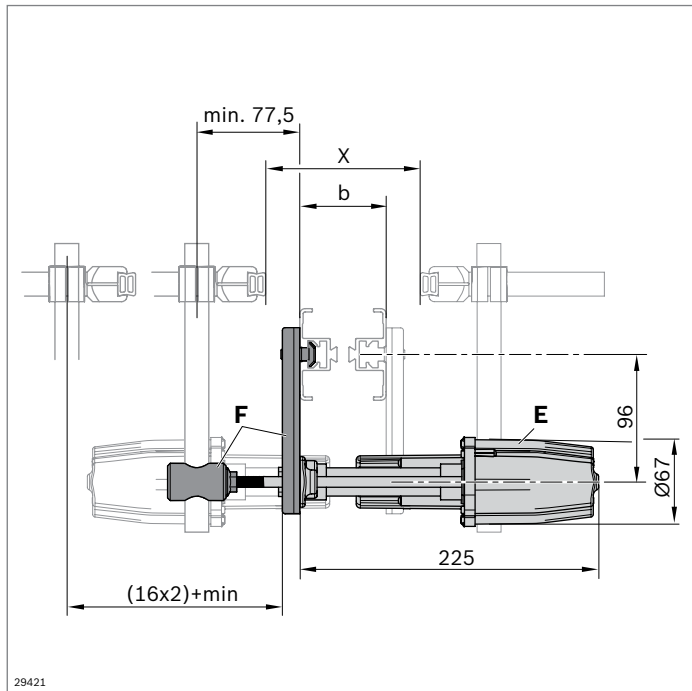
- Can be used for parallel width adjustment

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 pcs	200 ... 3000	3 842 993 306 / L
6 pcs	3000	3 842 533 841

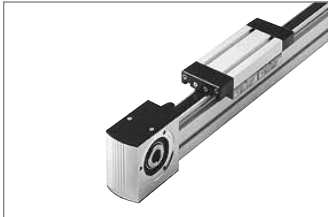


- Can be used for automatic (pneumatic) adjustment of lateral guides
- see also VarioFlow *plus* catalog (**R999000401**)

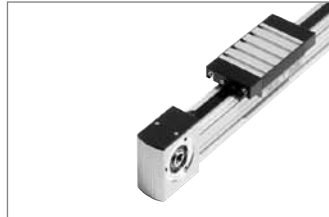
Adjustment unit (E)	No.
	3 842 547 707

Assembly kit (F)	No.
	3 842 547 718

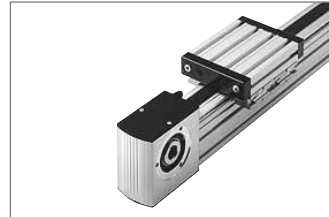
Linear guides



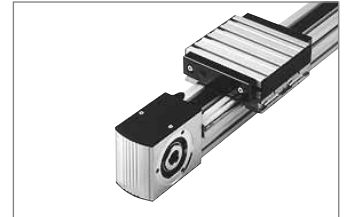
Cam roller guide LF6S
(p. 13-6)



Cam roller guide LF6C
(p. 13-11)



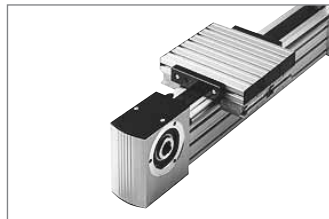
Cam roller guide LF12S
(p. 13-16)



Cam roller guide LF12C
(p. 13-23)



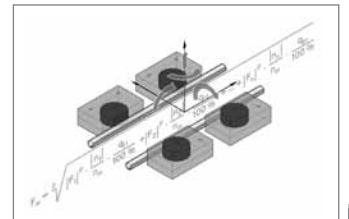
Cam roller guide LF20S
(p. 13-30)



Cam roller guide LF20C
(p. 13-37)



Center shafts, synchronous
shafts (p. 13-47)

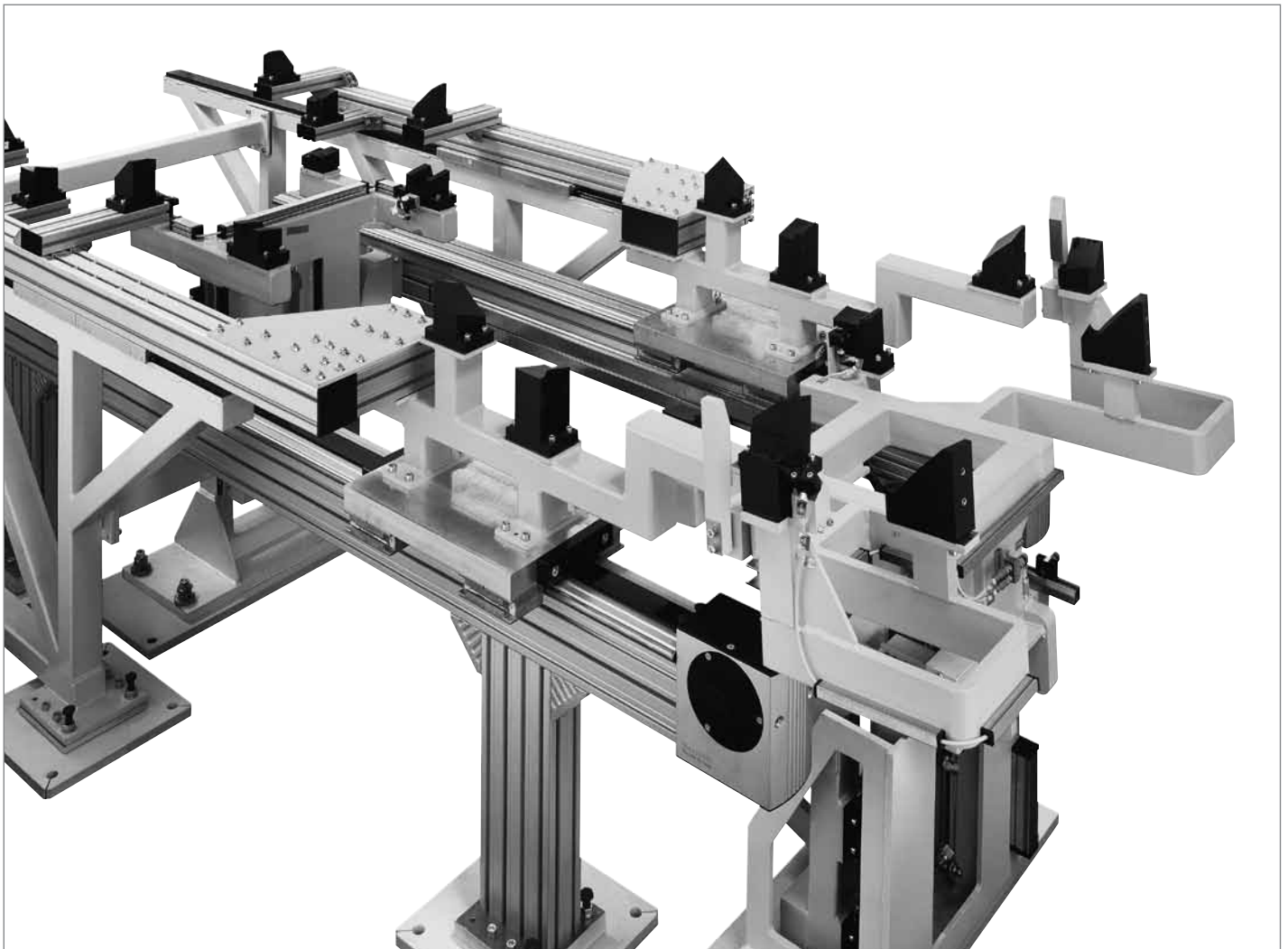


Design (p. 13-49)

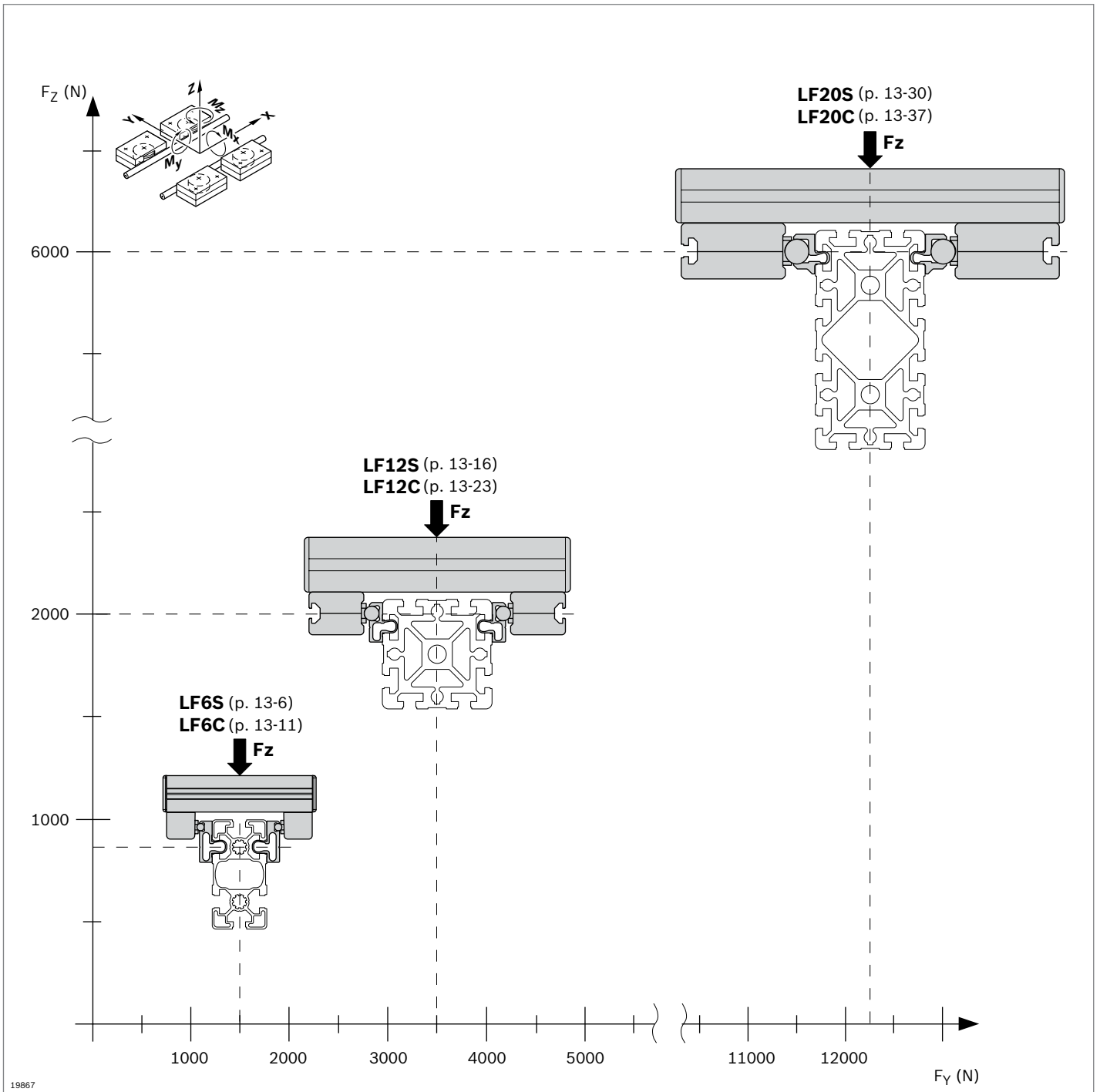


Linear guides

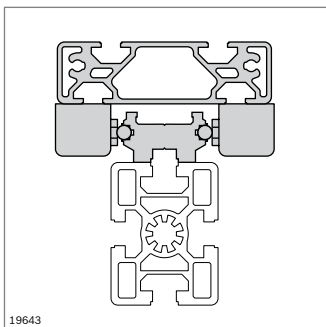
- ▶ For constructing linear guides based on cam roller guides
- ▶ Cam roller guides are suitable for applications with high speeds and medium loads, in particular for the construction of handling equipment, feed systems, guides in work machines, and many other applications
- ▶ Fully pre-assembled in any required length or as individual components for assembly on site
- ▶ Without drive or with toothed-belt drive for attaching gears and motors



Linear guides – sizes, designs, and loads



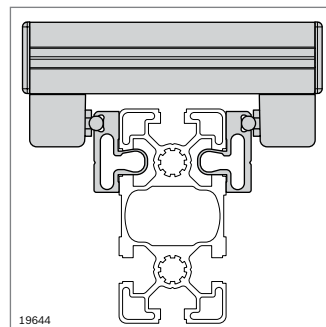
19867



19643

LF...S

- ▶ Compact construction
- ▶ Fixed track width
- ▶ $v_{max} = 5 \text{ m/s}$

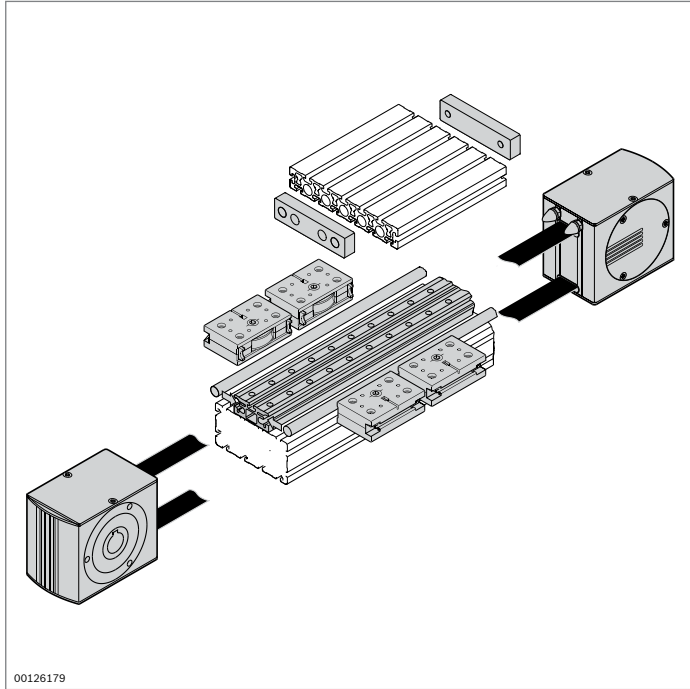


19644

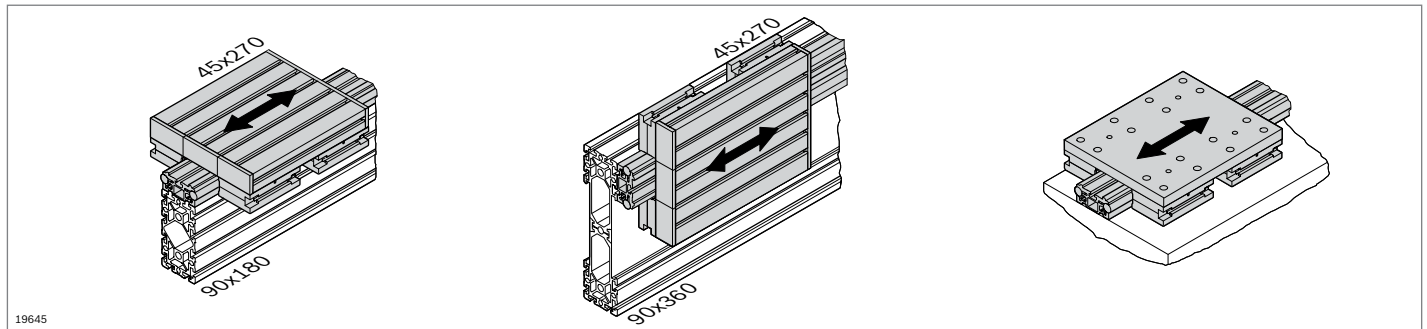
LF...C

- ▶ Freely selectable track width for greater torque absorption
- ▶ $v_{max} = 5 \text{ m/s}$

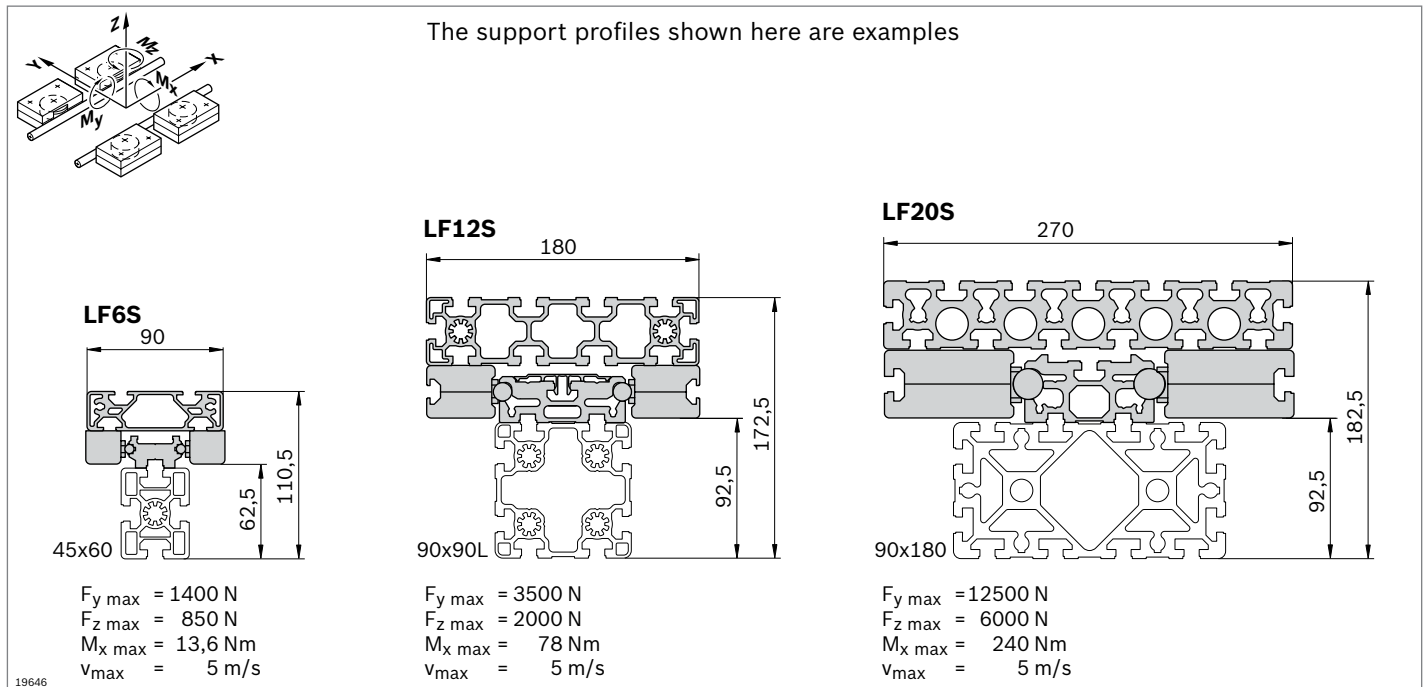
Cam roller guides LF...S



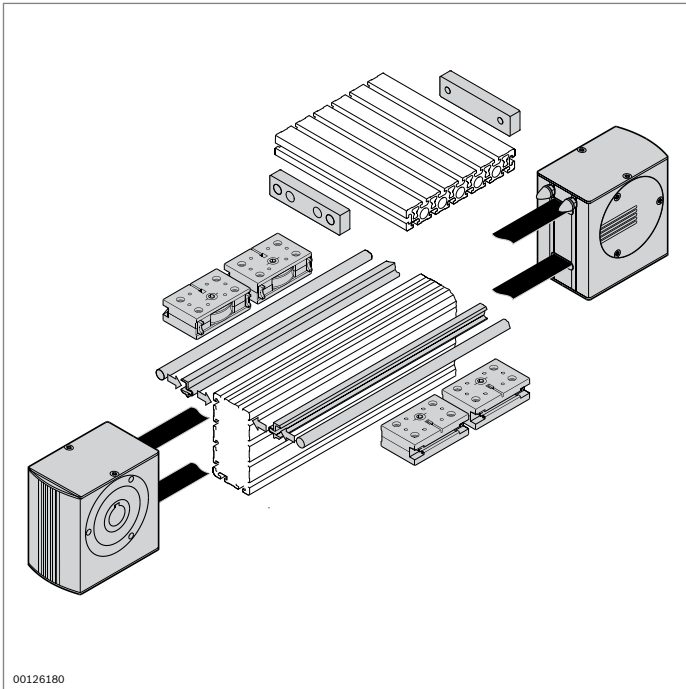
- ▶ Cam roller guide LF...S with fixed track widths
- ▶ Guide rail made of aluminum with hardened and polished VA guide rods
- ▶ Simple mounting on strut profile or directly on flat surface, e.g. on a machine
- ▶ High precision, dimensional stability and torsional rigidity
- ▶ Lighter and cheaper than steel guides
- ▶ Light trolley with good torsional rigidity
- ▶ Freely selectable trolley lengths
- ▶ Freely selectable stroke lengths possible
- ▶ High permissible speed



The support profiles shown here are examples

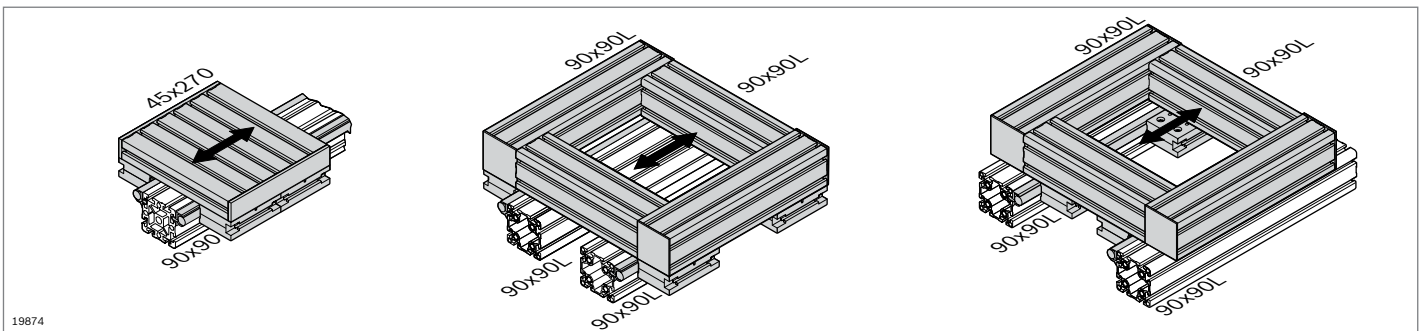


Cam roller guides LF...C



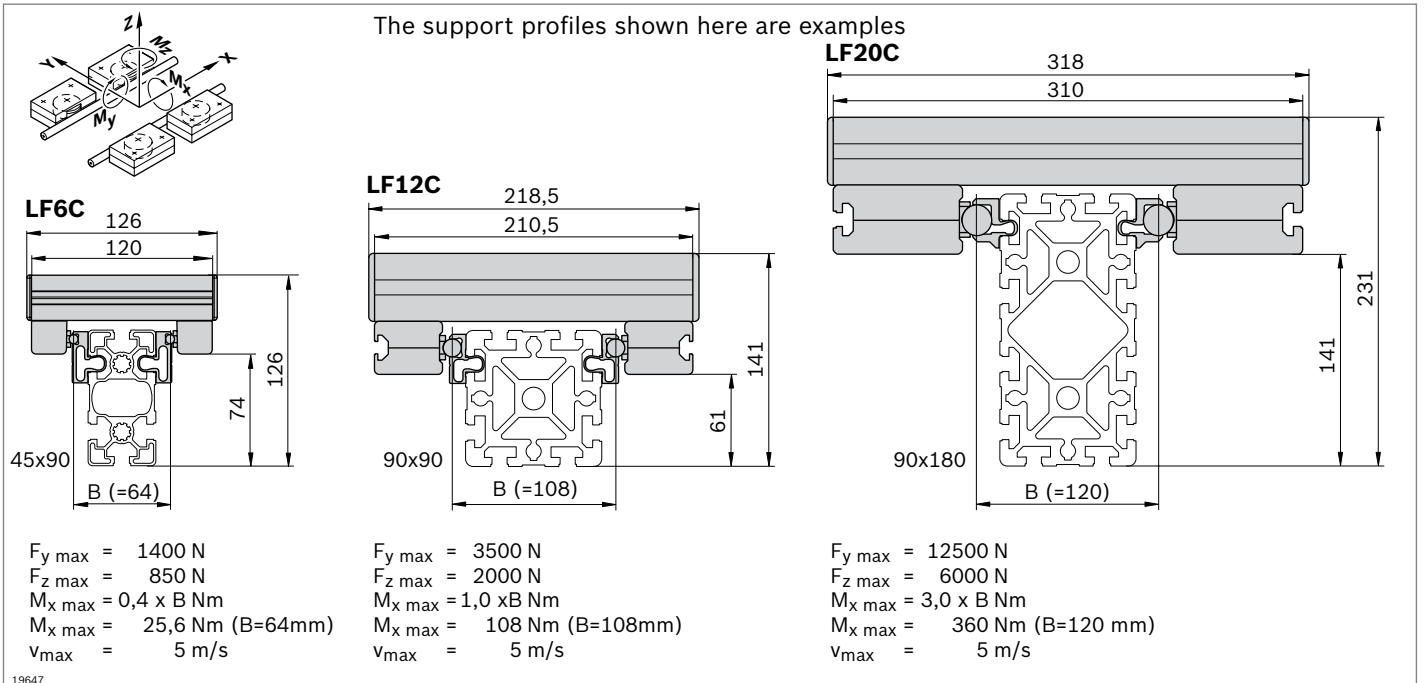
- ▶ Cam roller guide LF...C for free choice of track widths and large track widths
- ▶ Clamping profile made of aluminum with hardened and polished VA guide rods
- ▶ Easy assembly through clipping the clamping profile into the slots of any Rexroth profile with 10 mm slot
- ▶ Optimally adjustable to different loads
- ▶ Greater torque absorption due to a C construction and free choice of track width
- ▶ Light trolley with good torsional rigidity
- ▶ Freely selectable trolley lengths and widths
- ▶ Freely selectable stroke lengths possible
- ▶ High permissible speed

00126180

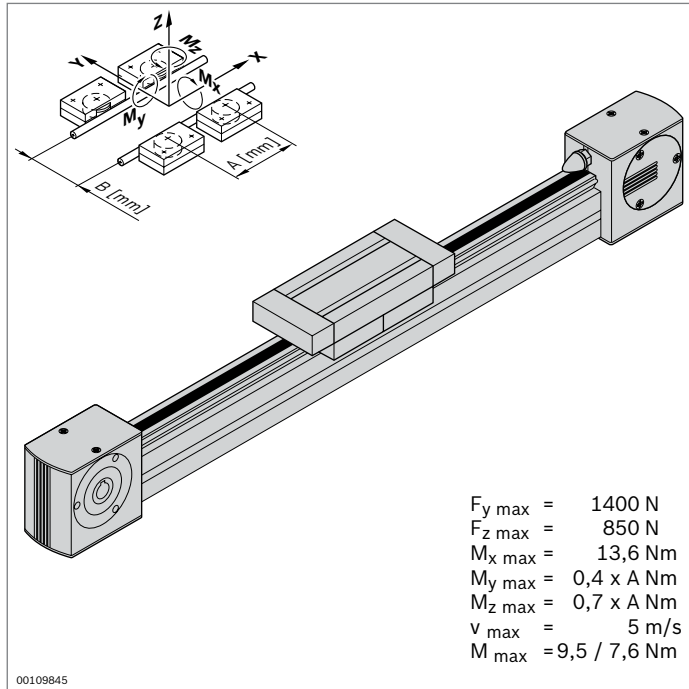


19874

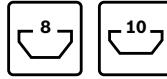
The support profiles shown here are examples



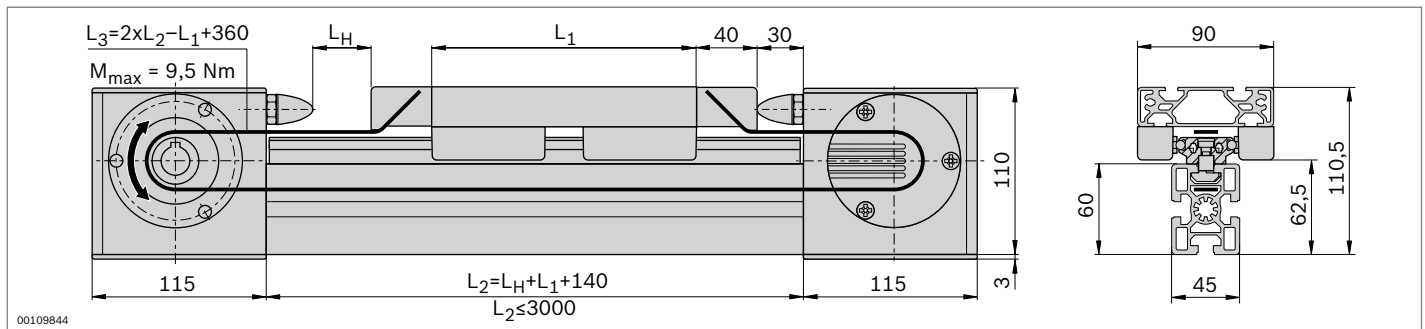
19647



Cam roller guide LF6S – complete axis



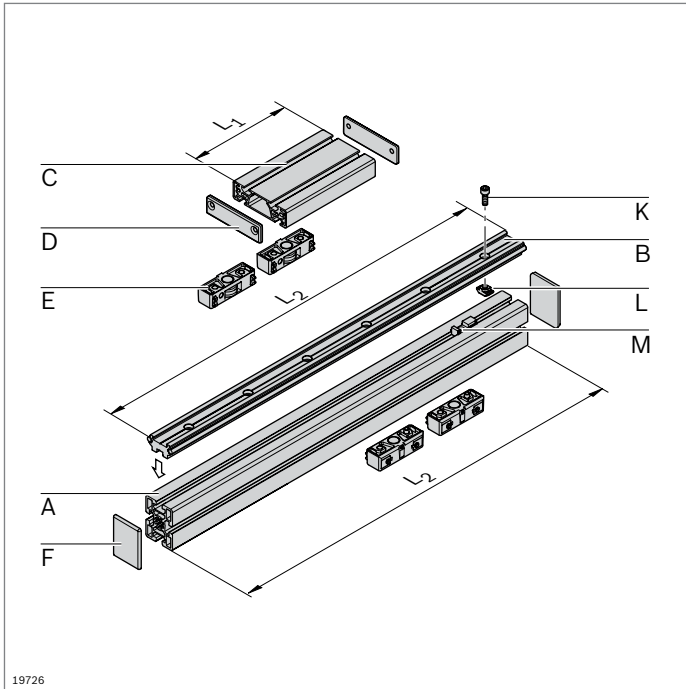
- ▶ Fully assembled cam roller guide
- ▶ Stroke and trolley length can be individually selected
- ▶ Rail profile screwed onto strut profile 45x60
- ▶ Incl. toothed belt drive; additional notes on the drive concept (p. 13-44)



Technical data

See pages 13-57 for notes on layout and drive

Complete axis LF6S	L_H / L_1 (mm)	No.
	$L_1 + 80 \leq L_H \leq 2710$	3 842 998 495 / L_H / L_1
	$150 \leq L_1 \leq 1000$	



19726

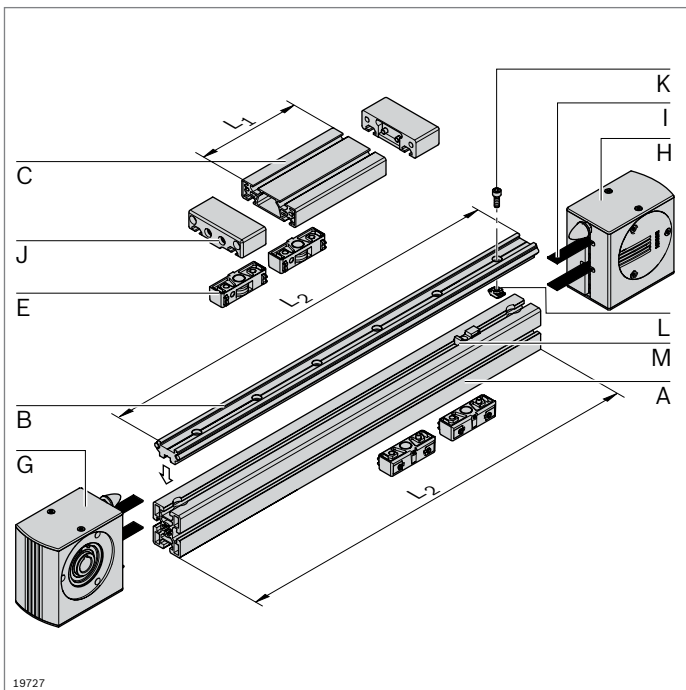
Cam roller guide LF6S – components

- Components for the individual assembly of cam roller guides, with or without drive

Parts list for cam roller guide LF6S without drive

Component	No.	Qty.	Page
A Profile 45x60	3 842 990 570 / L₂	1	2-41
B Guide profile LF6S	3 842 993 966 / L₂	1	13-8
C Trolley profile LF6S	3 842 993 061 / L₁	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	2-41
K Cylinder bolt M6x20 – DIN7984		n ¹⁾	
L T-nut M6, 10 mm slot	3 842 530 285	n ¹⁾	3-4
M Sliding block	3 842 146 877	n ¹⁾	13-8

¹⁾ For identification see page 13-8



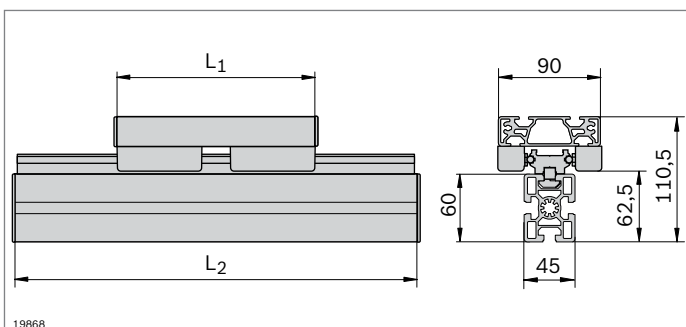
19727

Parts list for cam roller guide LF6S with drive

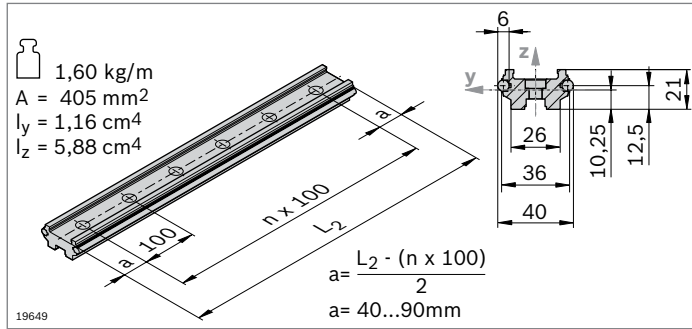
Component	No.	Qty.	Page
A Profile 45x60 LF6S	3 842 993 085 / L₂	1	2-41
B Guide profile LF6S	3 842 993 966 / L₂	1	13-8
C Trolley profile LF6S	3 842 993 061 / L₁	1	13-8
E Guide bearing LF6	3 842 535 662	4	13-8
G Drive head LF6S	3 842 526 410	1	13-9
H Return head LF6S	3 842 526 411	1	13-10
I Toothed belt LF6S	3 842 994 659 / L₃¹⁾	1	13-10
J Belt connector LF6S	3 842 535 682	2	13-10
K Cylinder bolt M6x20 – DIN7984		n ²⁾	
L T-nut M6, 10 mm slot	3 842 530 285	n ²⁾	3-4
M Sliding block	3 842 146 877	n ²⁾	13-8

¹⁾ L₃ = 2xL₂ - L₁ + 360

²⁾ For identification see page 13-8



19868



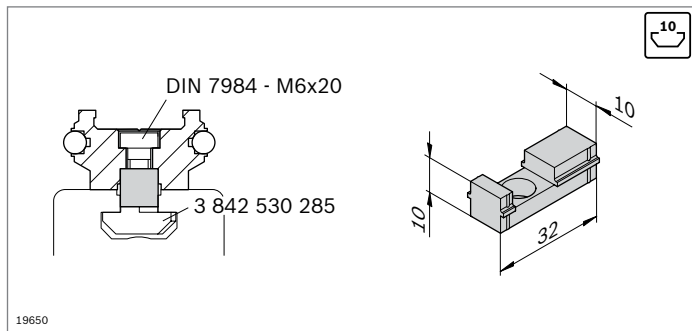
- ▶ Guide profile LF6S with integrated guide rods
- ▶ Installation on MGE strut profiles with 10 mm slot or directly on a flat surface

Guide profile	L ₂ (mm)	No.
LF6S	1 pcs 150 ... 3000	3 842 993 966 / L₂
	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**

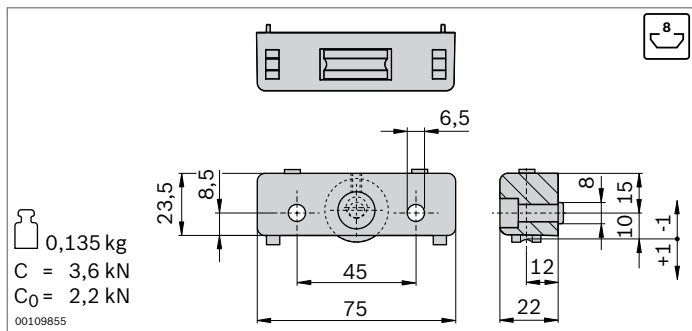
Required accessories: Cylinder bolt DIN 7984 – M6x20
T-nut M6, 10 mm slot **3 842 530 285** (p. 3-4)



- ▶ Sliding block as a centering aid for mounting the guide profile in a 10 mm profile slot

Sliding block	No.
	50 3 842 146 877

Material: PA; black



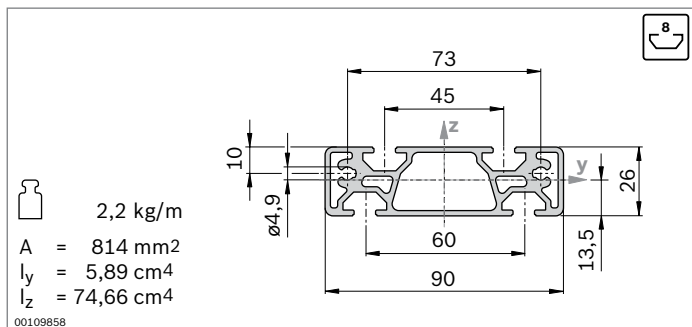
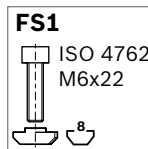
- ▶ Guide bearing for trolley construction
- ▶ Guiding via guide rod
- ▶ Rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free roller adjustment via eccentric bolts

Guide bearing	No.	FS
LF6	2	3 842 535 662 2xFS1

Material: Housing: diecast aluminum
Roller: steel, hardened, polished

Scope of delivery: incl. fastening material (FS)

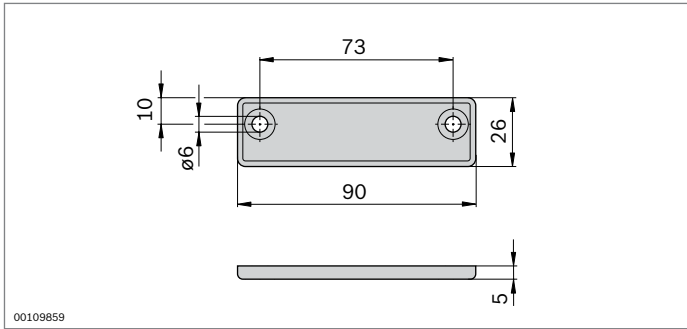
Condition on delivery: lubricating felts ungreased; greasing according to assembly instructions **3 842 527 226**



- ▶ Trolley profile for the construction of trolley LF6S

Trolley profile	L ₁ (mm)	No.
LF6S	150 ... 3000	3 842 993 061 / L₁

Material: aluminum, anodized

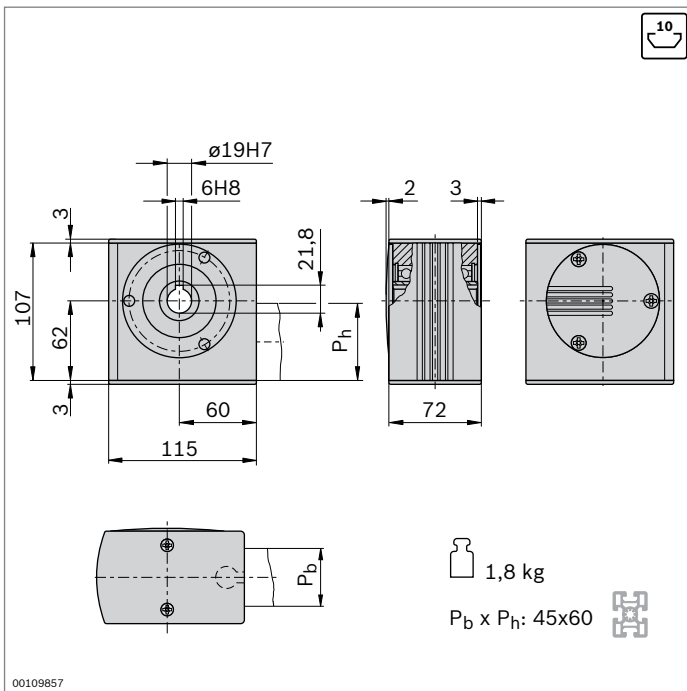
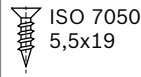


- ▶ Cover cap for trolley profile LF6S
- ▶ For use on trolleys which are not driven by a toothed belt

Cover cap	No.	FS
LF6S	2	3 842 535 645 2xFS2

Material: PA; black

FS2



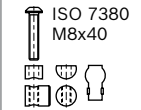
- ▶ Drive head for transferring drive torque to a toothed belt
- ▶ For direct mounting of a motor or (in conjunction with a center shaft) for mounting a hollow shaft gear or a coupling (p. 13-46)
- ▶ Mounted with longitudinal end connector directly on profile 45x60
- ▶ Profile finishing: LF blind hole drilling for longitudinal end connector

Drive head	No.	FS
LF6S	3 842 526 410	2xFS3, FS4

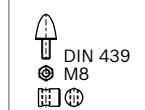
Material: aluminum, anodized
Hollow shaft: steel; galvanized
Caps: PA; black

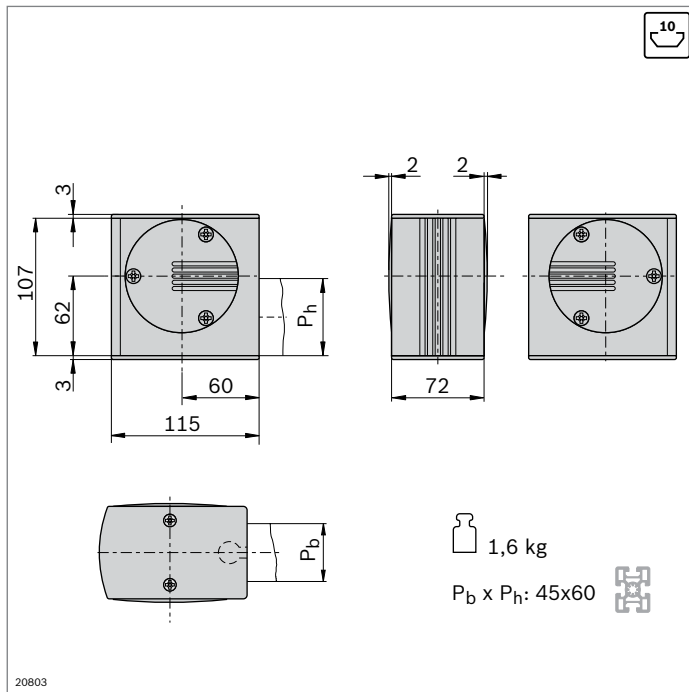
Scope of delivery: incl. fastening material (FS), cover caps

FS3



FS4



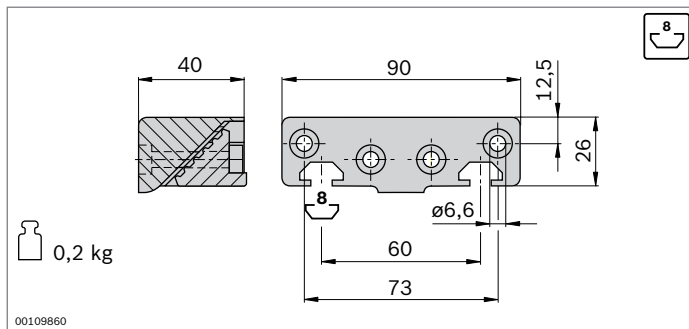
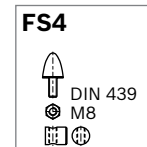
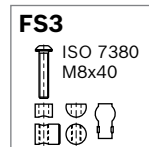


- ▶ Return head for tensioning the toothed belt and changing its direction
- ▶ Mounted directly on profile using longitudinal end connector
- ▶ Profile finishing: LF blind hole drilling for longitudinal end connector

Return head	No.	FS
LF6S	3 842 526 411	2xFS3, FS4

Material: aluminum, anodized
Hollow shaft: steel; galvanized
Caps: PA; black

Scope of delivery: incl. fastening material (FS), cover caps

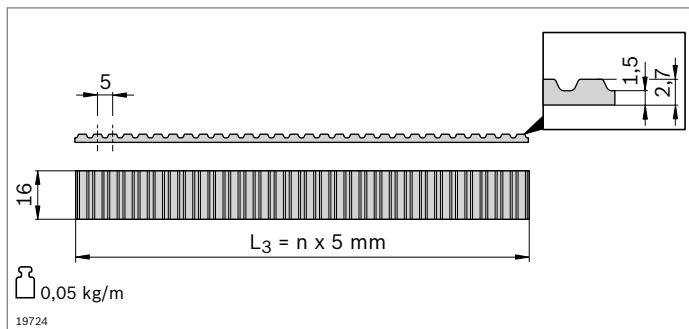
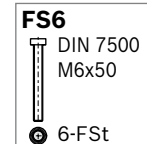


- ▶ Belt connector for fixing the toothed belt on the front of the trolley
- ▶ All connecting parts for mounting on the trolley profile LF6S are included

Belt connector	No.	FS
LF6S	2 3 842 535 682	2xFS5, 2xFS6

Material: aluminum, painted black

Scope of delivery: incl. fastening material (FS)

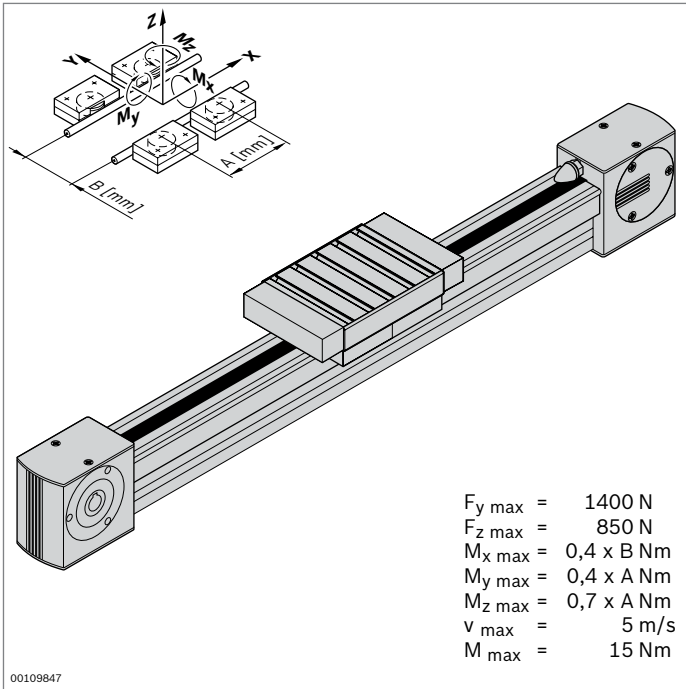


- ▶ Toothed belt as a trolley drive
- ▶ Pitch: AT5

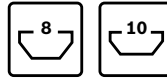
Toothed belt	L_3 (mm)	No.
LF6S	300 ... 50000	3 842 994 659 / L_3 ¹⁾
	50000	3 842 513 646

¹⁾ $L_3 = 2xL_2 - L_1 + 360$

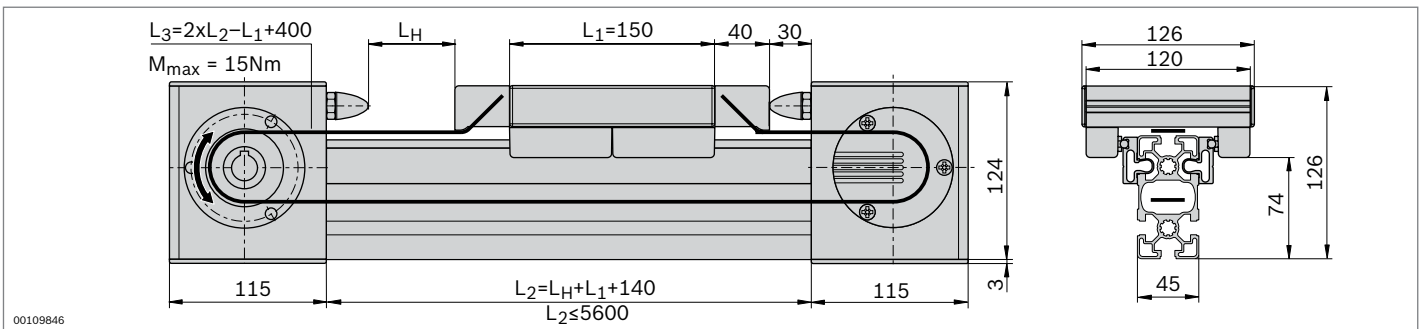
Material: PU with embedded steel wires



Cam roller guide LF6C – complete axis



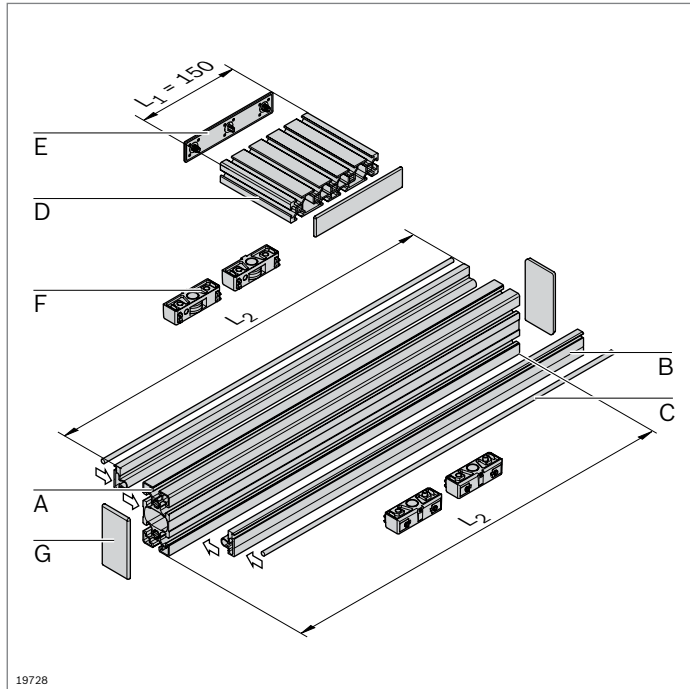
- ▶ Fully assembled cam roller guide
- ▶ Stroke can be individually selected
- ▶ Clamping profile clipped into strut profile 45x90L
- ▶ Incl. toothed belt drive; additional notes on the drive concept (p. 13-44)



Technical data

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

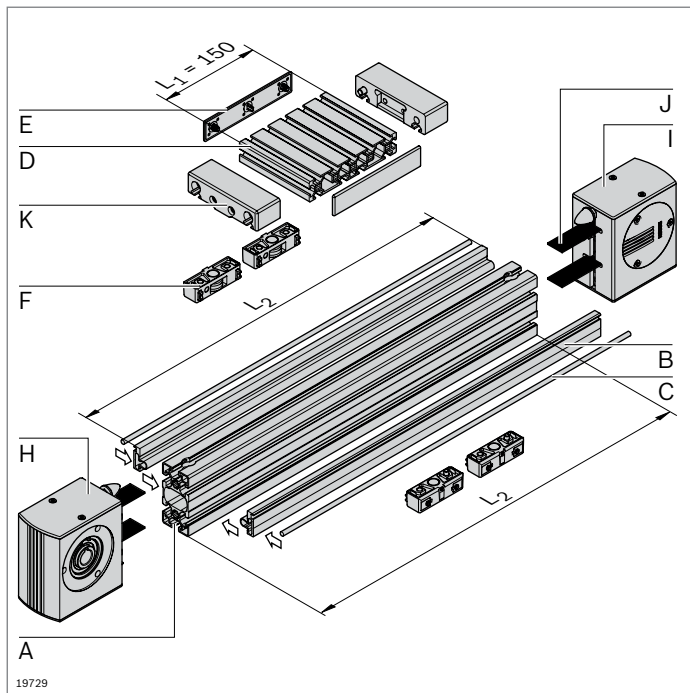


Cam roller guide LF6C – components

- Components for the individual assembly of cam roller guides, with or without drive

Parts list for cam roller guide LF6C without drive

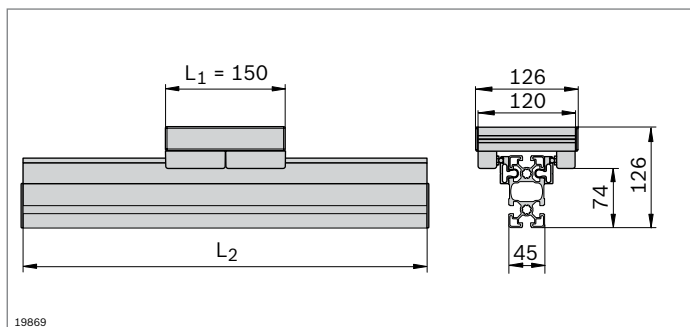
Component	No.	Qty.	Page
A Profile 45x90L	3 842 992 432 / L ₂	1	2-42
B Clamping profile LF6C	3 842 992 925 / L ₂	2	13-13
C Guide rod LF6	3 842 993 967 / L ₂	2	13-13
D Trolley profile LF6C	3 842 993 952 / 120 mm	1	13-13
E Cover cap LF6C	3 842 539 120	2	13-14
F Guide bearing LF6	3 842 535 662	4	13-13
G Cover cap 45x90	3 842 548 757	2	2-42

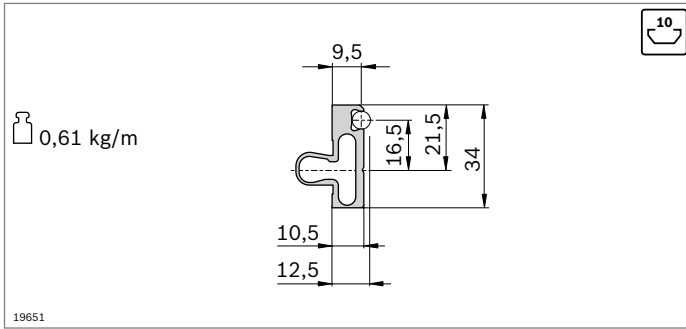


Parts list for cam roller guide LF6C with drive

Component	No.	Qty.	Page
A Profile 45x90L LF6C	3 842 993 084 / L ₂	1	2-42
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

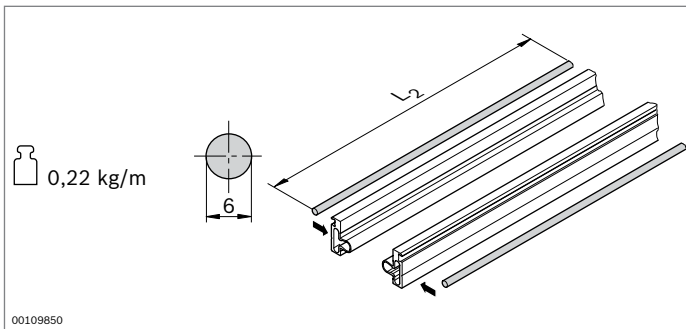




- ▶ The clamping profile is clipped into any 10 mm slot of the strut profile and it holds the guide rods

Clamping profile	L ₂ (mm)	No.
LF6C	1 pcs 150 ... 3000	3 842 992 925 / L₂
	20 pcs	3000 3 842 518 896

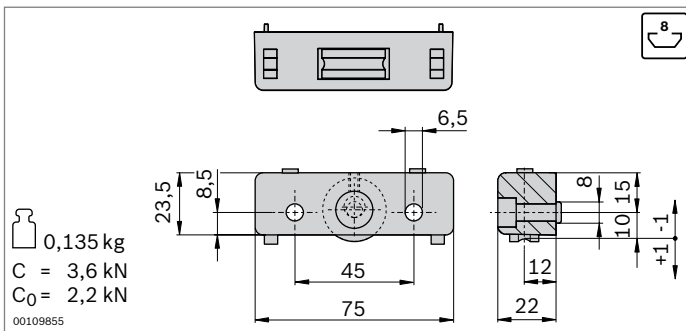
Material: aluminum, anodized



- ▶ The guide rod is pressed into the clamping profile
- ▶ The guide rod guides the guide bearing

Guide rod	L ₂ (mm)	No.
LF6	150 ... 3000	1 3 842 993 967 / L₂
	3000	20 3 842 539 414

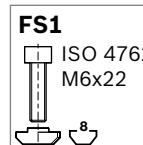
Material: Solid shaft VA, induction hardened, polished
 Condition on delivery: ungreased; greasing according to assembly instructions **3 842 527 226**



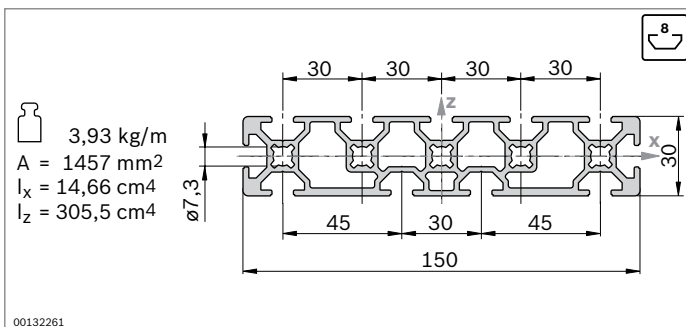
- ▶ Guide bearing for trolley construction
- ▶ Guiding via guide rod
- ▶ Rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free roller adjustment via eccentric bolts

Guide bearing	No.	FS
LF6	2	3 842 535 662 2xFS1

Material: Housing: Die-cast aluminum
 Roller: steel, hardened, polished
 Scope of delivery: incl. fastening material (FS)
 Condition on delivery: lubricating felts ungreased; greasing according to assembly instructions **3 842 527 226**

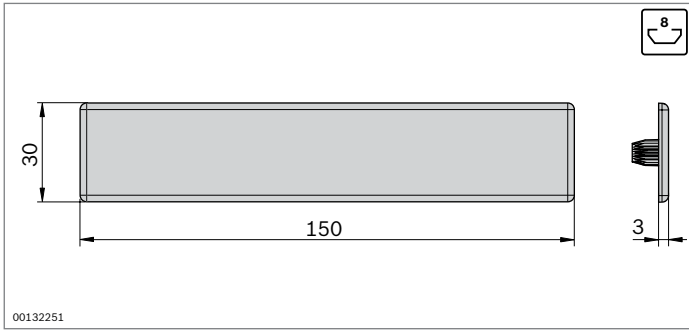


- ▶ Trolley profile for the construction of trolley LF6C



Trolley profile	L (mm)	No.
LF6C	150 ... 3000	3 842 993 952 / L

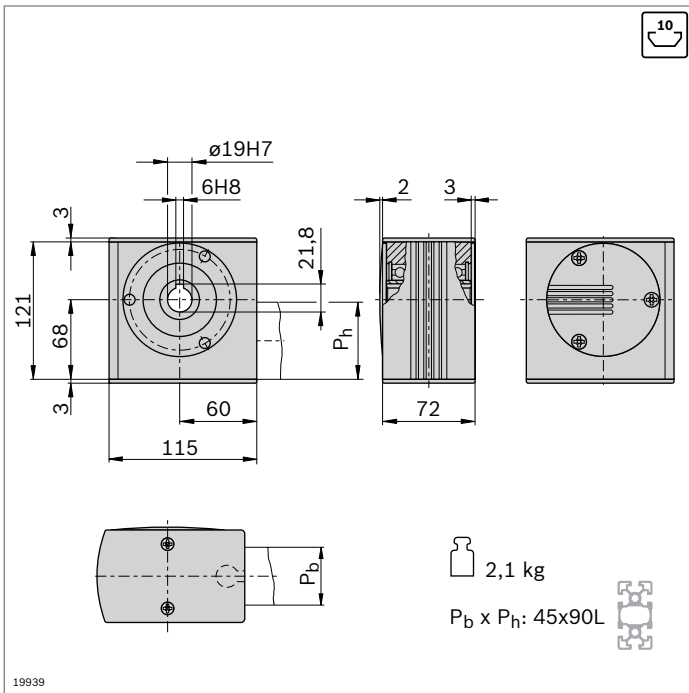
Material: aluminum, anodized



- ▶ Cover cap for trolley profile LF6C
- ▶ For use on trolleys which are not driven by a toothed belt

Cover cap	No.
LF6C	2 3 842 539 120

Material: PA; black

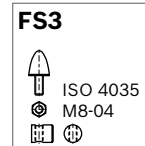
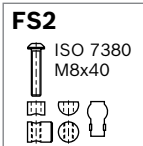


- ▶ Drive head for transferring drive torque to a toothed belt
- ▶ For direct mounting of a motor or (in conjunction with a center shaft) for mounting a hollow shaft gear or a coupling (p. 13-46)
- ▶ Mounted directly on profile 45x90L using longitudinal end connector
- ▶ Profile finishing: LF blind hole drilling for longitudinal end connector

Drive head	No.	FS
LF6C	3 842 526 416	2xFS2, FS3

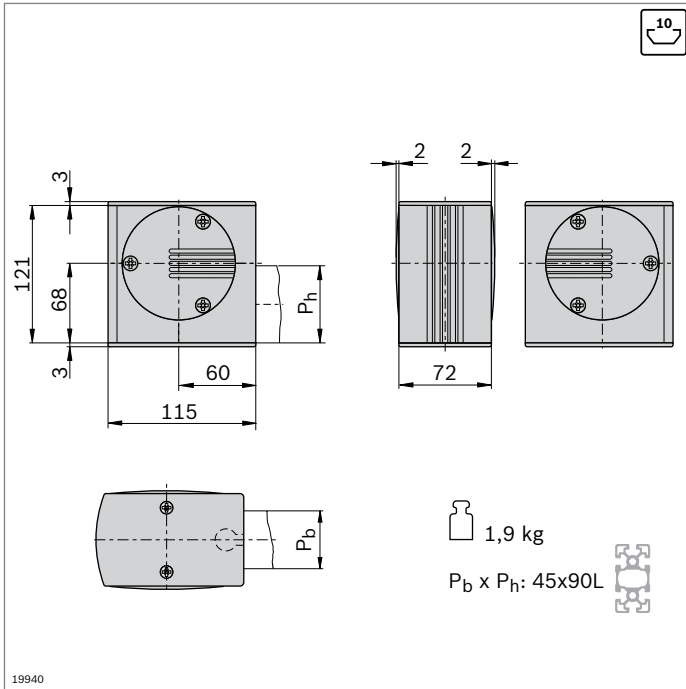
Material: aluminum, anodized
Hollow shaft: steel; galvanized
Caps: PA; black

Scope of delivery: incl. fastening material (FS), cover caps



19939

2,1 kg
 $P_b \times P_h: 45 \times 90L$

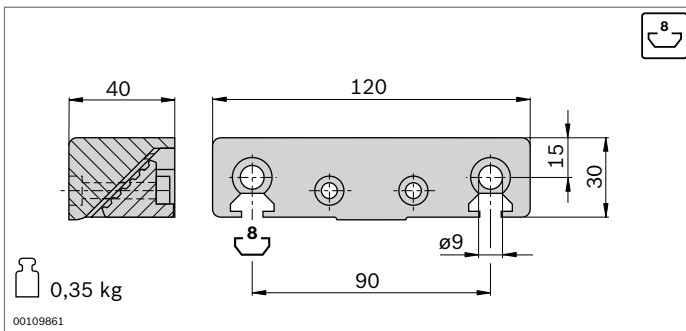
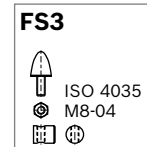
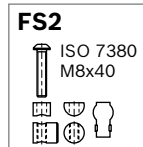


- ▶ Return head for tensioning the toothed belt and changing its direction
- ▶ Mounted directly on profile 45x90L using longitudinal end connector
- ▶ Profile finishing: LF blind hole drilling for longitudinal end connector

Return head	No.	FS
LF6C	3 842 526 417	2xFS2, FS3

Material: aluminum, anodized
Hollow shaft: steel; galvanized
Caps: PA; black

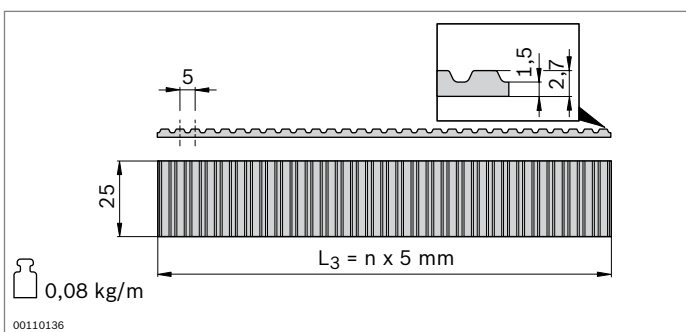
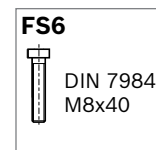
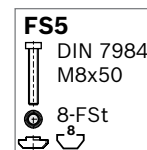
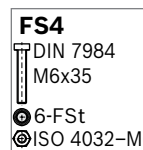
Scope of delivery: incl. fastening material (FS), cover caps



- ▶ Belt connector for fastening the toothed belt to the trolley slot
- ▶ All connecting parts for mounting on the trolley profile LF6C are included

Belt connector	No.	FS
LF6C	2 3 842 535 681	2xFS4, 2xFS5, 2xFS6

Material: aluminum, painted black
Scope of delivery: incl. fastening material (FS)

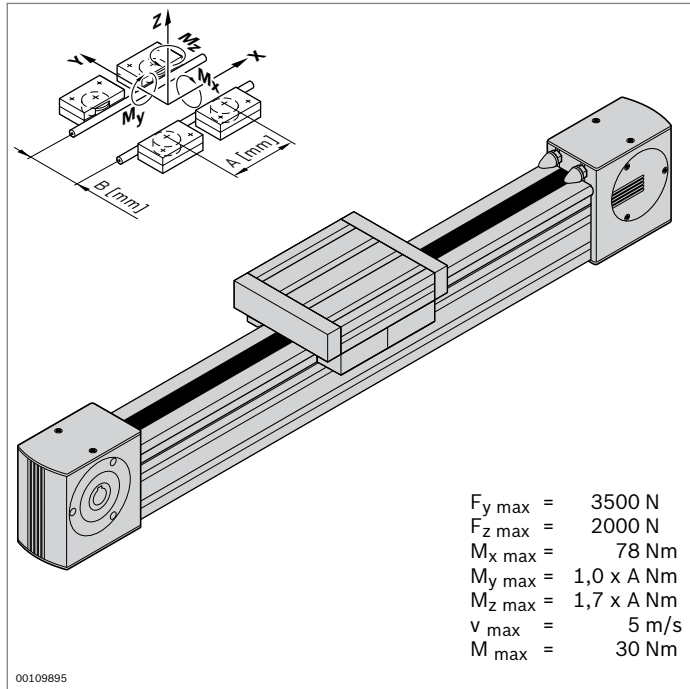


- ▶ Toothed belt as a trolley drive
- ▶ Pitch: AT5

Toothed belt	L ₃ (mm)	No.
LF6C	300 ... 50000	3 842 994 711 / L ₃ ¹⁾
	50000	3 842 518 856

¹⁾ L₃ = 2xL₂ - L₁ + 400

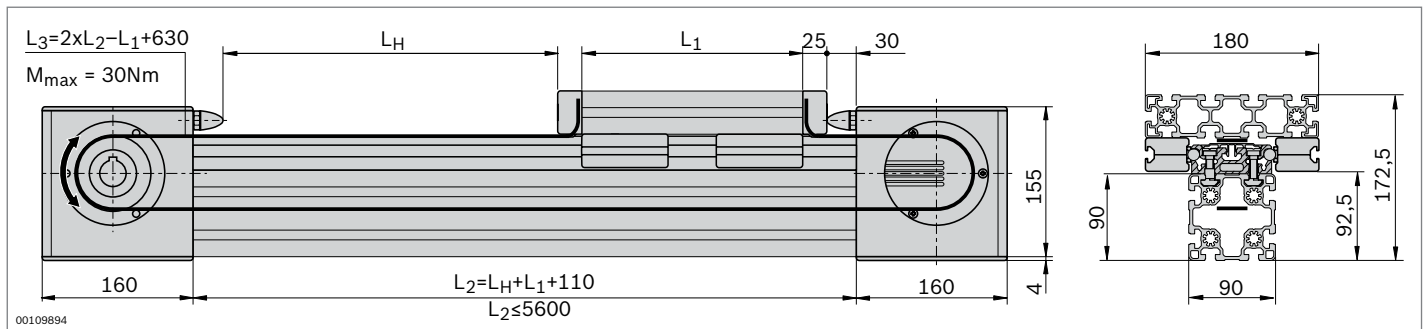
Material: PU with embedded steel wires



Cam roller guide LF12S – complete axis



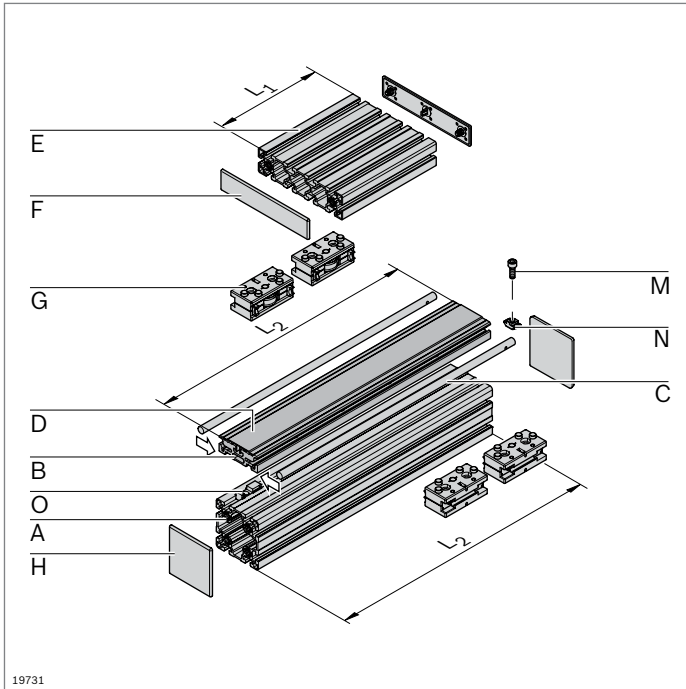
- ▶ Fully assembled cam roller guide
- ▶ Stroke and trolley length can be individually selected
- ▶ Rail profile screwed onto strut profile 90x90L
- ▶ Incl. toothed belt drive; additional notes on the drive concept (p. 13-44)



Technical data

See pages 13-57 for notes on layout and drive

Complete axis	L_H/L_1 (mm)	No.
LF12S	$L_1 + 50 \leq L_H \leq 5310$ $180 \leq L_1 \leq 1000$	3 842 998 497 / L_H / L_1



19731

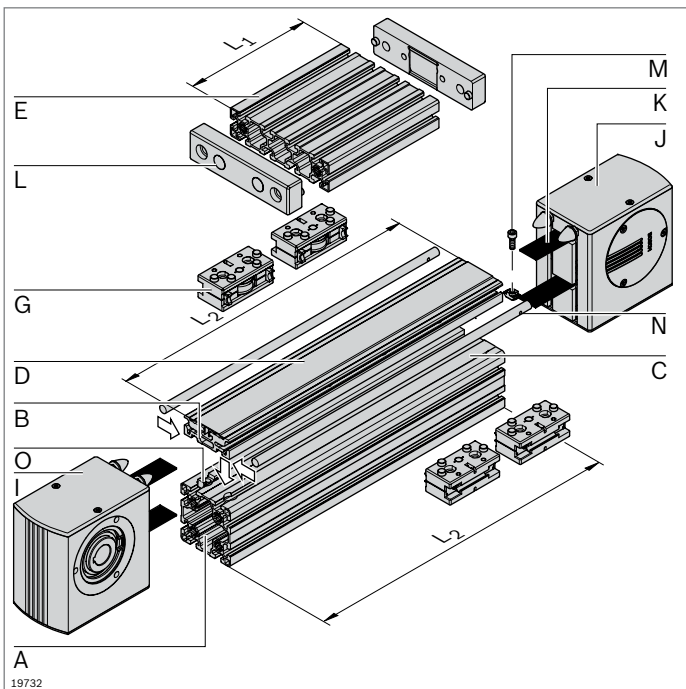
Cam roller guide LF12S – components

- Components for the individual assembly of cam roller guides, with or without drive

Parts list for cam roller guide LF12S without drive

Component	No.	Qty.	Page
A Profile 90x90L	3 842 992 415 / L ₂	1	2-46
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	2-44
F Cover cap 45x180	3 842 548 795	2	2-44
G Guide bearing LF12	3 842 535 664	4	13-19
H Cover cap 90x90L	3 842 548 759	2	2-46
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



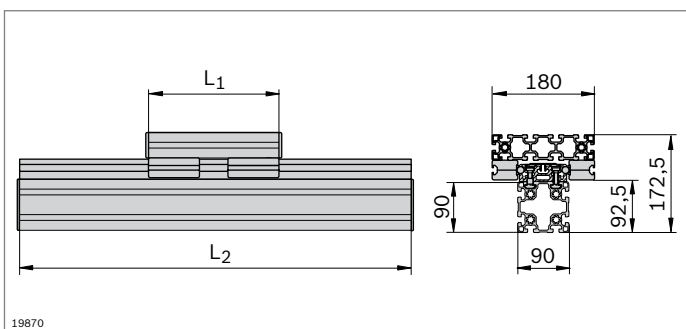
19732

Parts list for cam roller guide LF12S with drive

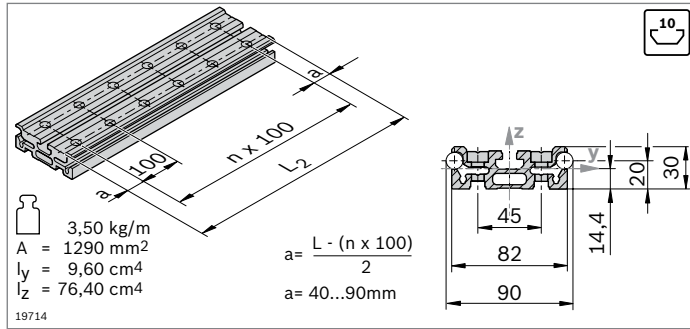
Component	No.	Qty.	Page
A Profile 90x90L LF12S	3 842 992 418 / L ₂	1	2-46
B Guide profile LF12S	3 842 992 438 / L ₂	1	13-18
C Guide rod LF12	3 842 993 968 / L ₂	2	13-18
D Cover profile LF12S	3 842 993 062 / L ₂	1	13-18
E Profile 45x180 M12	3 842 990 339 / L ₁	1	2-44
G Guide bearing LF12	3 842 535 664	4	13-19
I Drive head LF12S	3 842 526 412	1	13-21
J Return head LF12S	3 842 526 413	1	13-21
K Toothed belt	3 842 994 821 / L ₃ ¹⁾	1	13-22
L Belt connector	3 842 535 680	2	13-22
M Cylinder bolt DIN 7984 – M8x30		n ²⁾	
N T-nut M8, 10 mm slot	3 842 530 287	n ²⁾	3-4
O Sliding block	3 842 146 877	n ²⁾	13-18

¹⁾ L₃ = 2xL₂ - L₁ + 630

²⁾ For identification see page 13-18



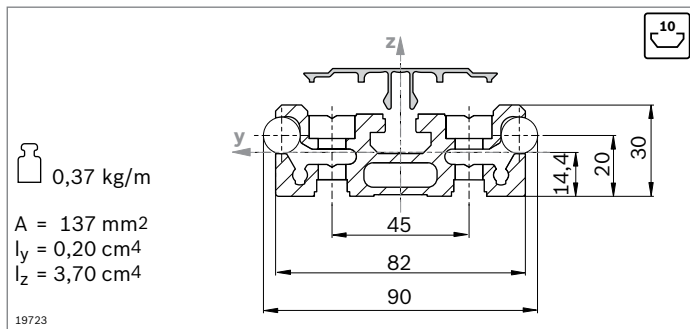
19870



- ▶ 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		150 ... 5600	3 842 992 438 / L_2
		5 pcs	5600 3 842 511 841

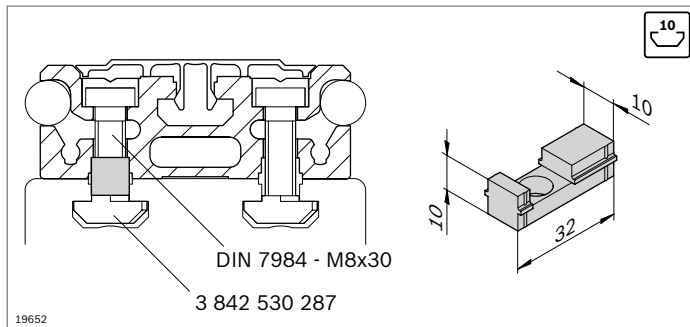
Material: aluminum, anodized
 Accessories: Cylinder bolt DIN 7984 – M8x30
 T-nut M8, 10 mm slot, **3 842 530 287**
 Sliding block, cover profile, guide rod



- ▶ Cover profile to prevent contamination on threaded connections

Cover profile		L_2 (mm)	No.
LF12S		150 ... 5600	3 842 993 062 / L_2

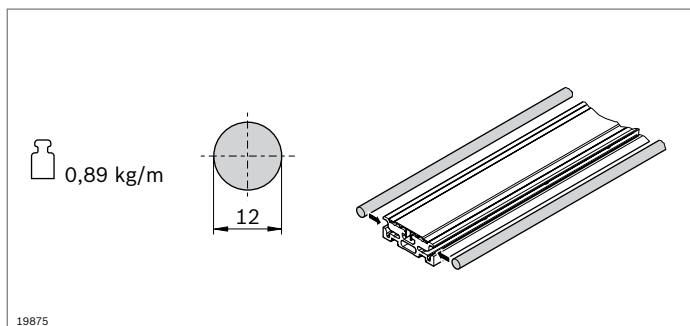
Material: PA; black



- ▶ Sliding block as a centering aid for mounting the guide profile in a 10 mm profile slot

Sliding block		No.
	50	3 842 146 877

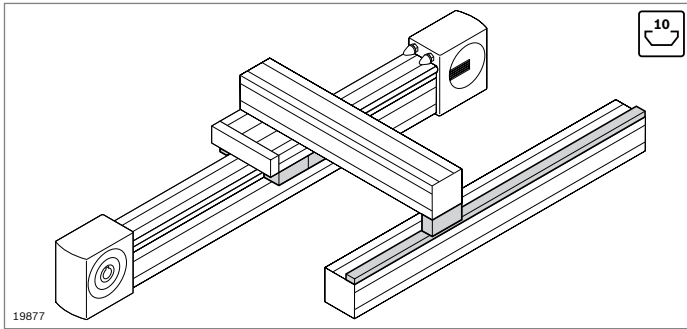
Material: PA; black



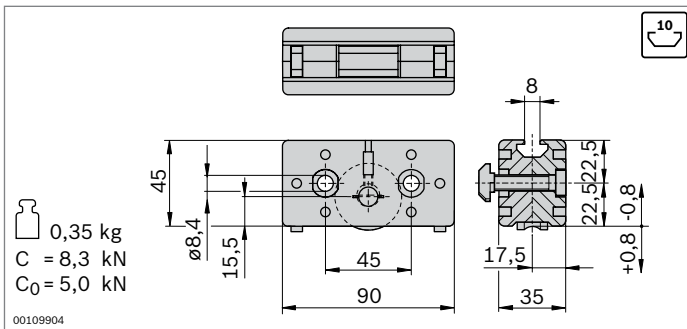
- ▶ The guide rod is pressed into the guide profile
- ▶ The guide rod guides the guide bearing

Guide rod		L_2 (mm)	No.
LF12		150 ... 2900	1 3 842 993 968 / L_2
		2900	20 3 842 539 415

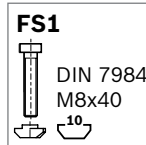
Material: Solid shaft VA, induction hardened and polished
 Condition on delivery: ungreased; greasing according to assembly instructions **3 842 527 226**



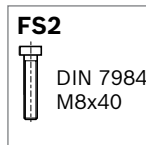
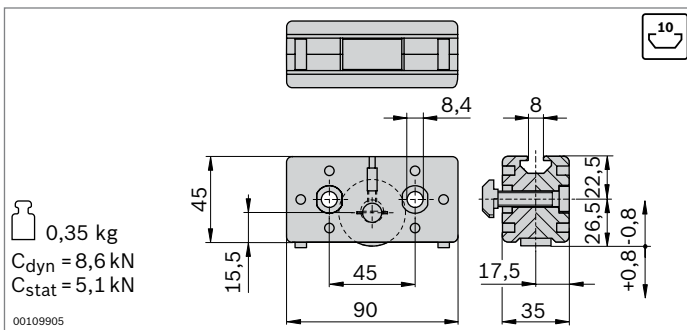
- ▶ Guide bearing for trolley construction
- ▶ Supporting bearing for brackets for bearing off-center forces
- ▶ Guide rail to support supporting bearings (p. 13-20)



- ▶ Guide bearing for trolley construction
- ▶ Guiding via guide rod
- ▶ Rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free roller adjustment via eccentric bolts
- ▶ Replacement of the lubricating felts possible from rear in installed state

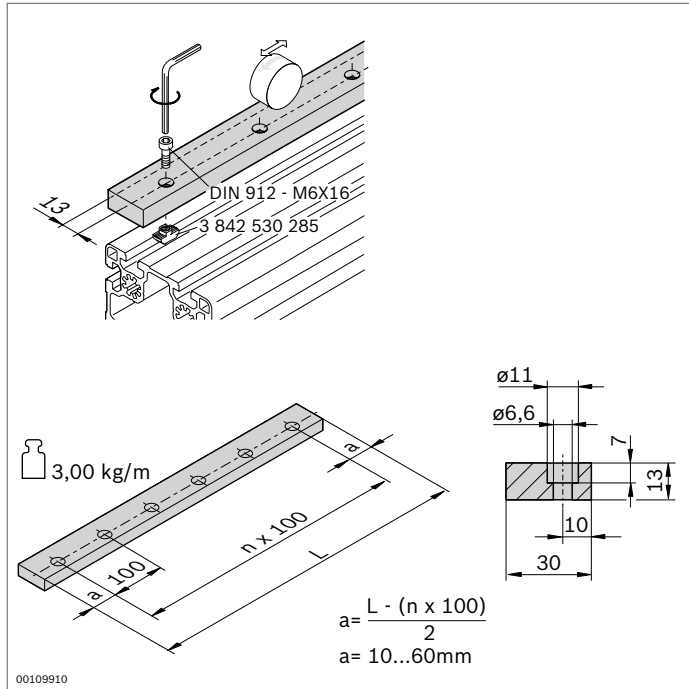


Guide bearing	No.	FS
LF12	2 3 842 535 664	2xFS1
Material:	Housing: Die-cast aluminum Roller: steel, hardened, polished	
Scope of delivery:	incl. fastening material (FS)	
Condition on delivery:	lubricating felts ungreased; greasing according to assembly instructions 3 842 527 226	



- ▶ Supporting bearing for brackets for bearing off-center forces
- ▶ For support on the guide rail
- ▶ Rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free roller adjustment via eccentric bolts
- ▶ Replacement of the lubricating felts possible from rear in installed state

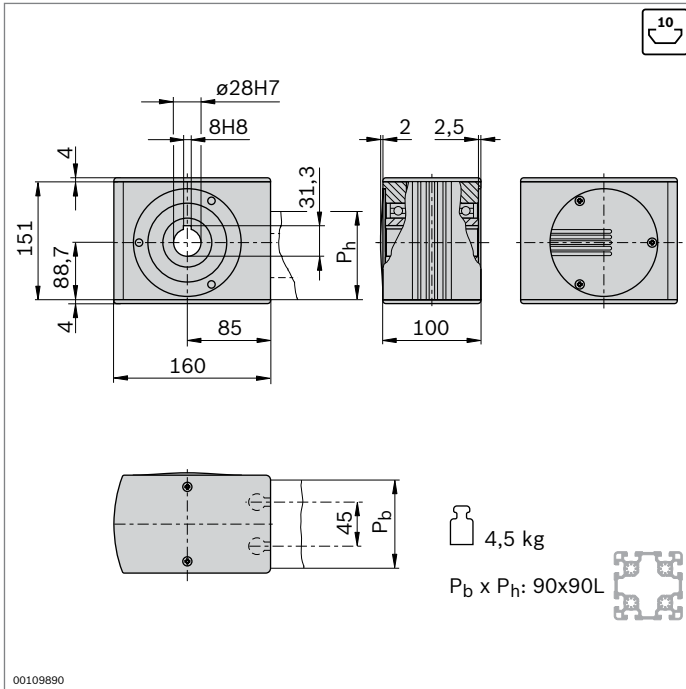
Supporting bearing	No.	FS
LF12	2 3 842 535 666	2xFS2
Material:	Housing: Die-cast aluminum Roller: steel, hardened, polished	
Scope of delivery:	incl. fastening material (FS)	
Condition on delivery:	lubricating felts ungreased; greasing according to assembly instructions 3 842 527 226	



► Guide rail to hold supporting bearings

Guide rail	L (mm)	No.
LF12	120 ... 2000	3 842 994 702 / L

Material: steel, hardened, polished
 Condition on delivery: ungreased; greasing according to assembly instructions **3 842 527 226**
 Accessories: cylinder bolt DIN 912 – M6x16
 T-nut M6, 10 mm slot (**3 842 530 285**)

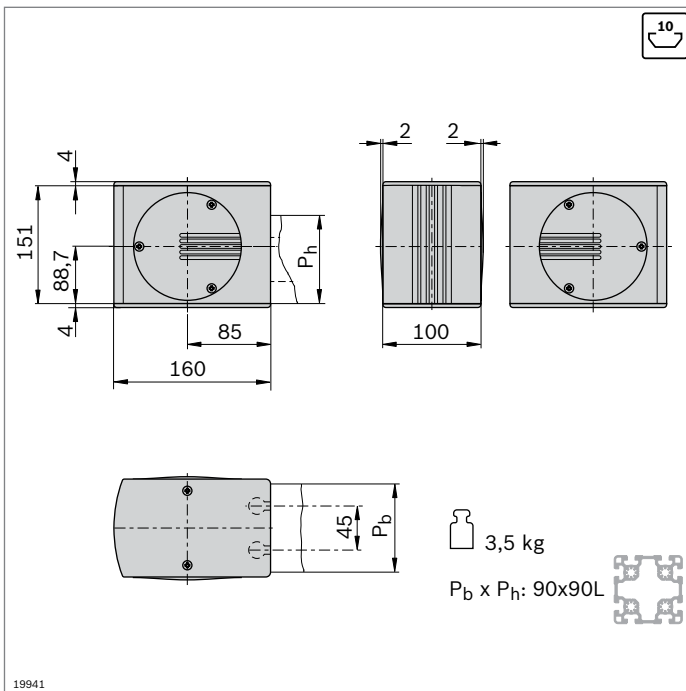
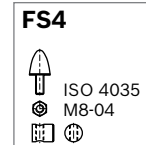
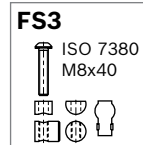


- ▶ Drive head for transferring drive torque to a toothed belt
- ▶ For direct mounting of a motor or (in conjunction with a center shaft) for mounting a hollow shaft gear or a coupling (p. 13-46)
- ▶ Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- ▶ Profile finishing: LF blind hole drilling for longitudinal end connector

Drive head	No.	FS
LF12S	3 842 526 412	2xFS3, 2xFS4

Material: Drive head: aluminum, anodized
Cover caps: PA, black
Hollow shaft: steel; galvanized

Scope of delivery: incl. fastening material (FS), cover caps

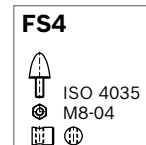
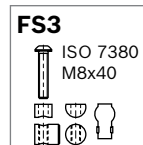


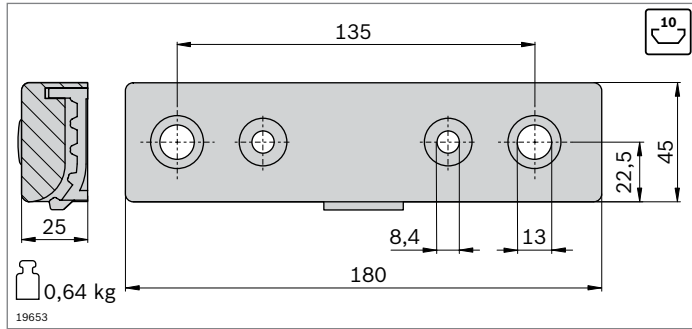
- ▶ Return head for tensioning the toothed belt and changing its direction
- ▶ Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- ▶ Profile finishing: LF blind hole drilling for longitudinal end connector

Return head	No.	FS
LF12S	3 842 526 413	2xFS3, 2xFS4

Material: aluminum, anodized
Hollow shaft: steel; galvanized
Caps: PA; black

Scope of delivery: incl. fastening material (FS), cover caps







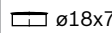
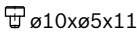


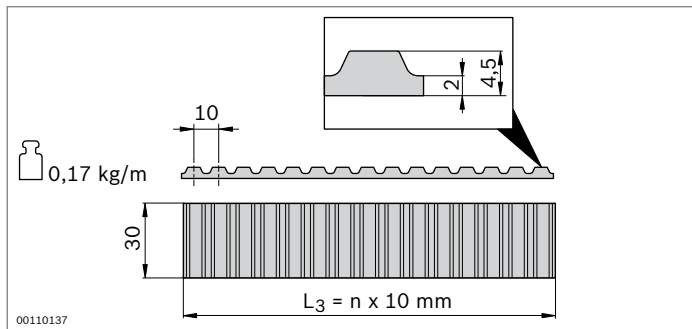


- ▶ Belt connector suitable for trolley built out of strut profiles 45x180
- ▶ All connecting parts included for mounting on the profile end (LF12S) or in the slot (LF12C)
- ▶ Profile finishing for strut profile 45x180 for trolley LF12S: M12

Belt connector	No.	FS
LF12	2	3 842 535 680 2xFS5, 2xFS6, 2xFS7, 2xFS8, 4xFS9

Material: aluminum, painted black
 Scope of delivery: incl. fastening material (FS)

FS5  DIN 7984 M12x40	FS6  DIN 7984 M8x30  DIN 125 A8,4 	FS7  DIN 7991 M8x30 	FS8  ø18x7
FS9  ø10xø5x11			

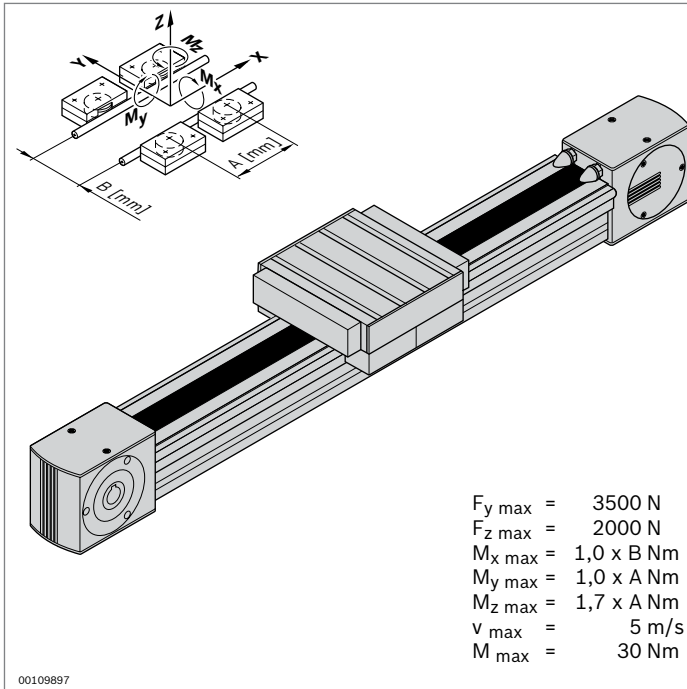


- ▶ Toothed belt as a trolley drive
- ▶ Pitch: AT10

Toothed belt	L ₃ (mm)	No.
LF12	300 ... 50000	3 842 994 821 / L₃¹⁾
	50000	3 842 526 422

¹⁾ L₃ = 2xL₂ - L₁ + 630

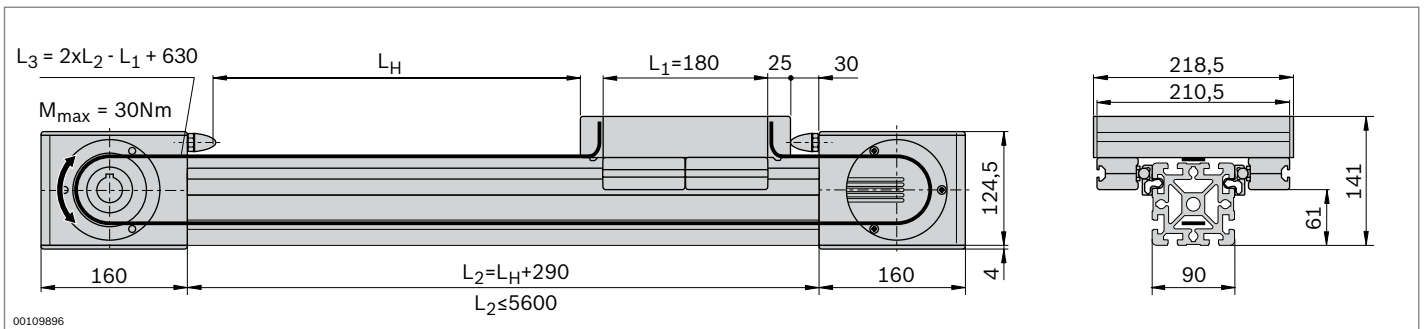
Material: PU with embedded steel wires



Cam roller guide LF12C – complete axis



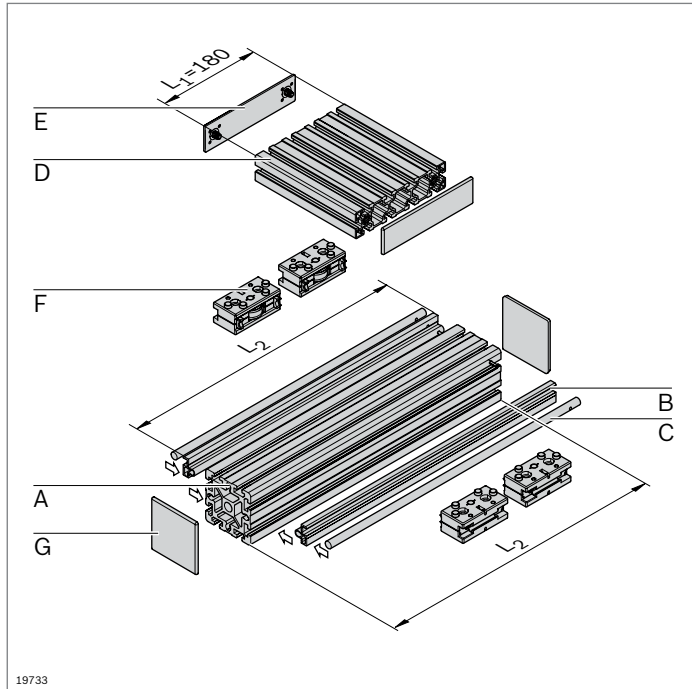
- ▶ Fully assembled cam roller guide
- ▶ Stroke can be individually selected
- ▶ Clamping profile clipped into strut profile 90x90
- ▶ Incl. toothed belt drive; additional notes on the drive concept (p. 13-44)



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

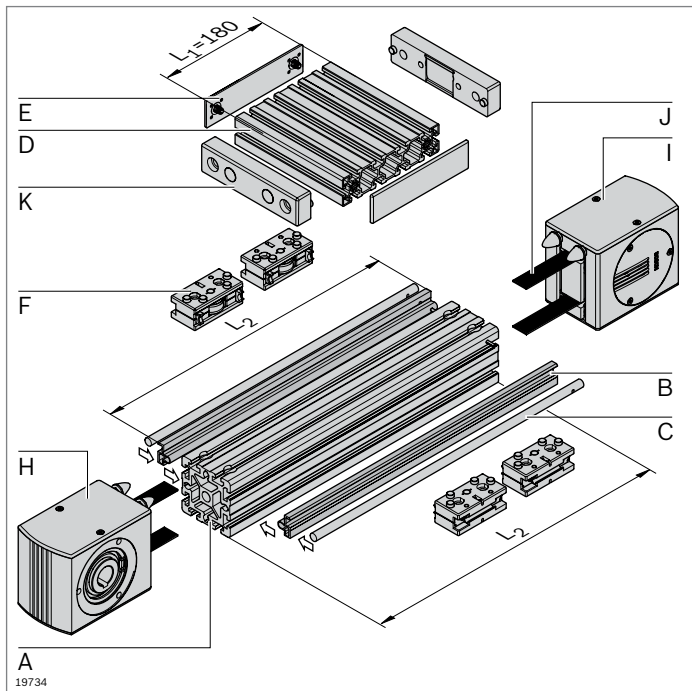


Cam roller guide LF12C – components

- Components for the individual assembly of cam roller guides, with or without drive

Parts list for cam roller guide LF12C without drive

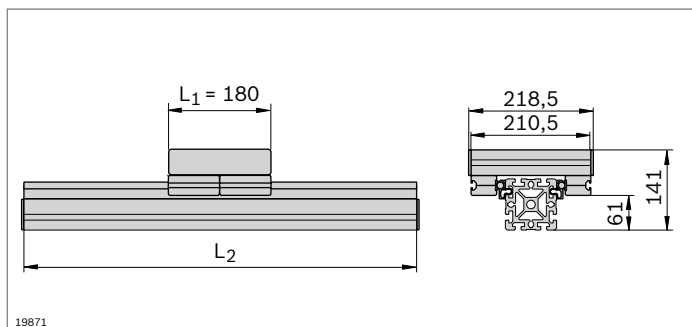
Component	No.	Qty.	Page
A Profile 90x90	3 842 990 500 / L₂	1	2-47
B Clamping profile LF12C	3 842 992 440 / L₂	2	13-25
C Guide rod LF12	3 842 993 968 / L₂	2	13-25
D Profile 45x180	3 842 990 335 / 210.5 mm	1	2-44
E Cover cap 45x180	3 842 548 795	2	2-44
F Guide bearing LF12	3 842 535 664	4	13-26
G Cover cap 90x90	3 842 548 761	2	2-47

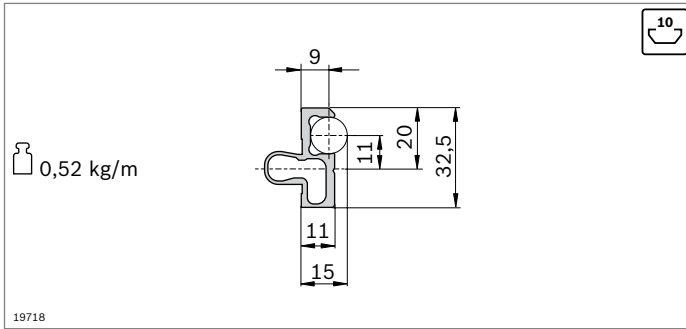


Parts list for cam roller guide LF12C with drive

Component	No.	Qty.	Page
A Profile 90x90 LF	3 842 993 082 / L₂	1	2-47
B Clamping profile LF12C	3 842 992 440 / L₂	2	13-25
C Guide rod LF12	3 842 993 968 / L₂	2	13-25
D Profile 45x180	3 842 990 335 / 210.5 mm	1	2-44
E Cover cap 45x180	3 842 548 795	2	2-44
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 / L₃¹⁾	1	13-29
K Belt connector LF12	3 842 535 680	2	13-29

¹⁾ L₃ = 2xL₂ - L₁ + 630

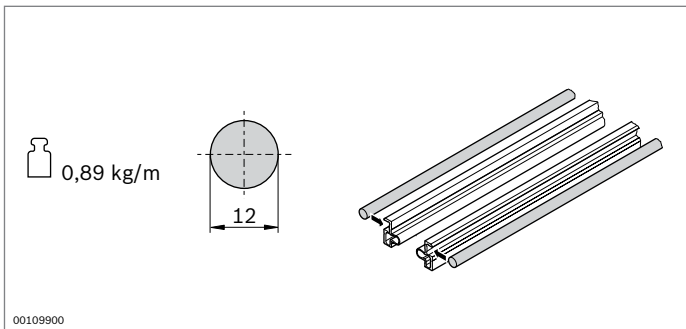




- ▶ The clamping profile is clipped into any chosen strut profile with a 10 mm slot and holds the guide rods

Clamping profile		L ₂ (mm)	No.
LF12C	1 pcs	150 ... 3000	3 842 992 440 / L₂
	20 pcs	3000	3 842 518 897

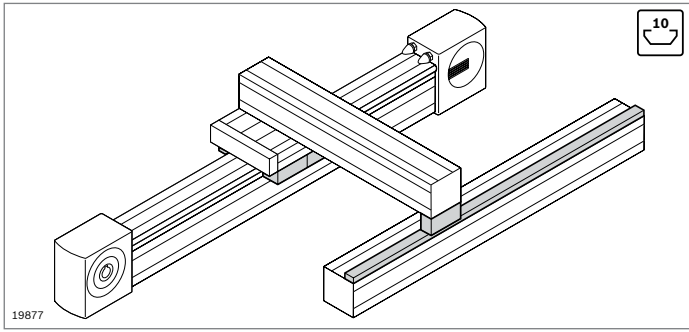
Material: aluminum, anodized



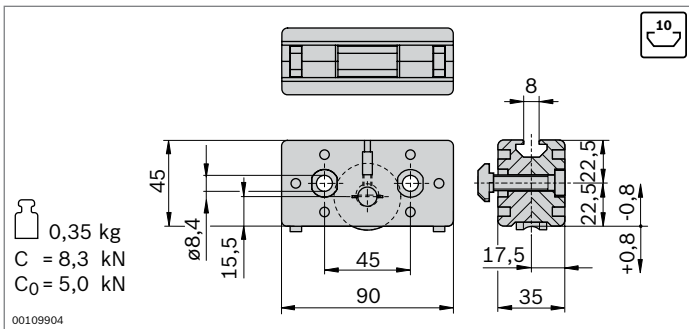
- ▶ The guide rod is pressed into the clamping profile
- ▶ The guide rod guides the guide bearing

Guide rod	L ₂ (mm)	No.	No.
LF12	150 ... 2900	1	3 842 993 968 / L₂
	2900	20	3 842 539 415

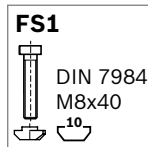
Material: Solid shaft VA, induction hardened and polished
 Condition on delivery: ungreased; greasing according to assembly instructions **3 842 527 226**



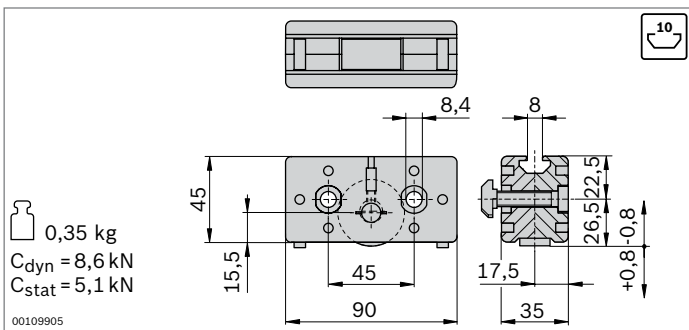
- ▶ Guide bearing for trolley construction
- ▶ Supporting bearing for brackets for bearing off-center forces
- ▶ Guide rail to support supporting bearings (p. 13-27)



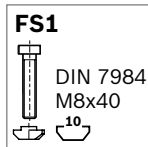
- ▶ Guide bearing for trolley construction
- ▶ Guiding via guide rod
- ▶ Rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free roller adjustment via eccentric bolts
- ▶ Replacement of the lubricating felts possible from rear in installed state



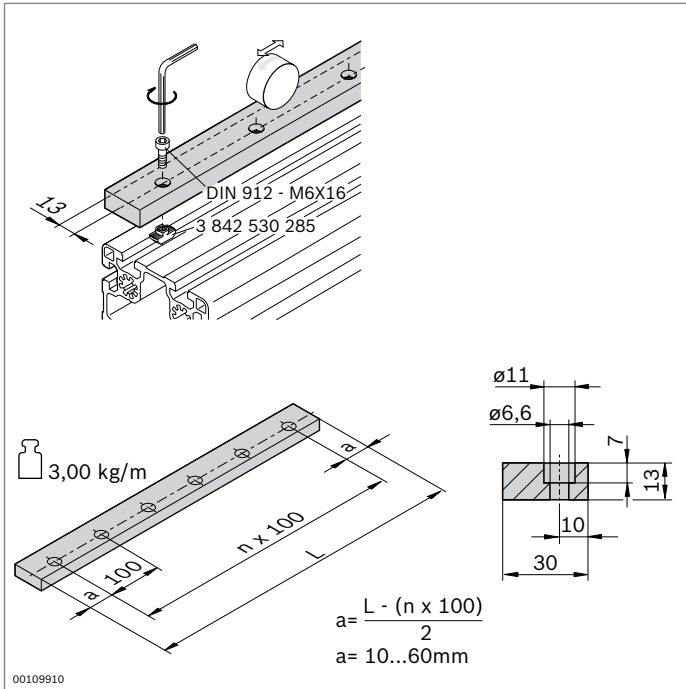
Guide bearing	No.	FS
LF12	2	3 842 535 664 2xFS1
Material:	Guide bearing Die-cast aluminum Roller: steel, hardened, polished	
Scope of delivery:	incl. fastening material (FS)	
Condition on delivery:	lubricating felts ungreased; greasing according to assembly instructions 3 842 527 226	



- ▶ Supporting bearing for brackets for bearing off-center forces
- ▶ For support on the guide rail
- ▶ Rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free roller adjustment via eccentric bolts
- ▶ Replacement of the lubricating felts possible from rear in installed state

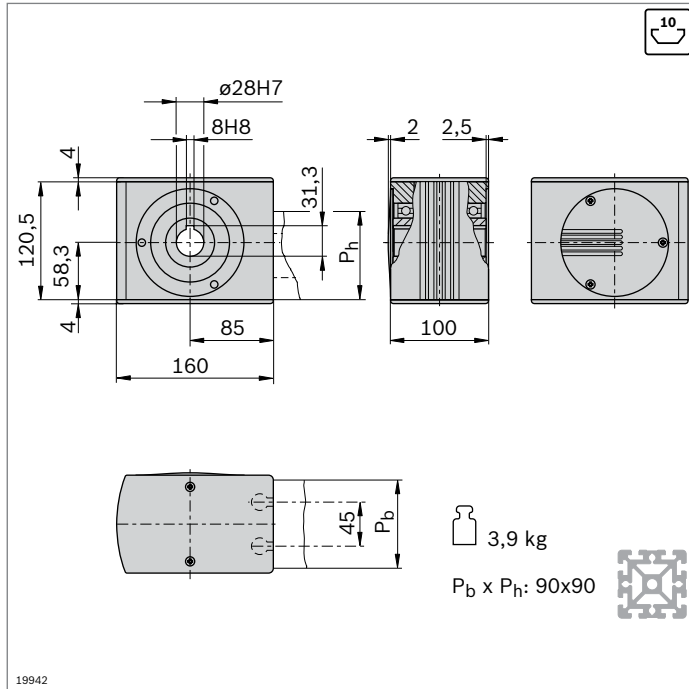


Supporting bearing	No.	FS
LF12	2	3 842 535 666 2xFS1
Material:	Guide bearing Die-cast aluminum Roller: steel, hardened, polished	
Scope of delivery:	incl. fastening material (FS)	
Condition on delivery:	lubricating felts ungreased; greasing according to assembly instructions 3 842 527 226	



► Guide rail to hold supporting bearings

Guide rail	L (mm)	No.
LF12	120 ... 2000	3 842 994 702 / L
Material:	steel, hardened, polished	
Condition on delivery:	ungreased; greasing according to assembly instructions 3 842 527 226	
Accessories:	cylinder bolt DIN 912 – M6x16 T-nut M6, 10 mm slot (3 842 530 285)	



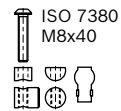
- ▶ Drive head for transferring drive torque to a toothed belt
- ▶ For direct mounting of a motor or (in conjunction with a center shaft) for mounting a hollow shaft gear or a coupling (p. 13-46)
- ▶ Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- ▶ Profile finishing: LF blind hole drilling for longitudinal end connector

Drive head	No.	FS
LF12C	3 842 526 863	4xFS2, 2xFS3

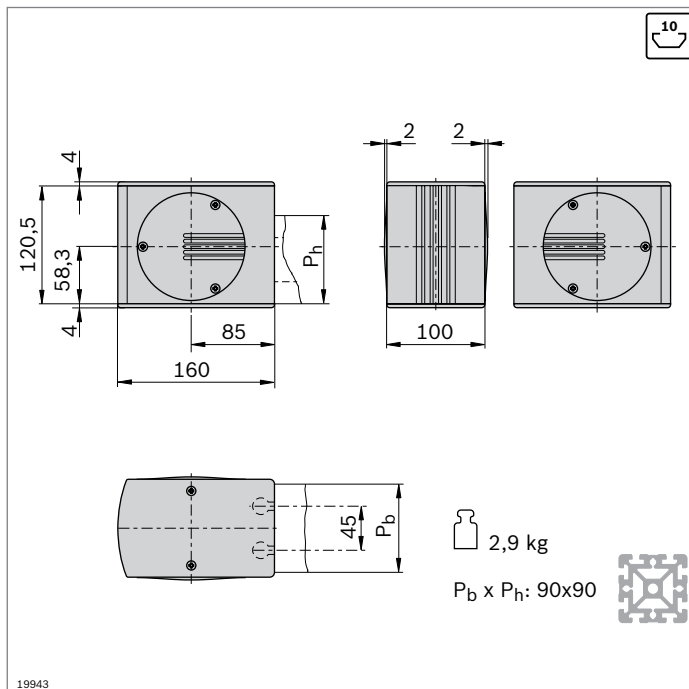
Material: Drive head aluminum, anodized
Hollow shaft: steel; galvanized
Caps: PA; black

Scope of delivery: incl. fastening material (FS), cover caps

FS2



FS3



- ▶ 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	4xFS2, 2xFS3

Material: Return head: aluminum, anodized
Hollow shaft: steel; galvanized
Caps: PA; black

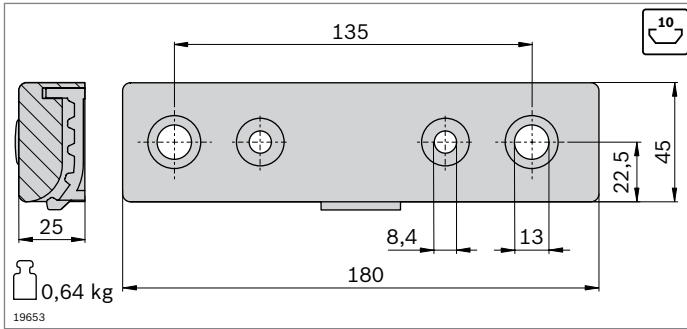
Scope of delivery: incl. fastening material (FS), cover caps

FS2



FS3





- ▶ Belt connector suitable for trolley built out of strut profiles 45x180
- ▶ All connecting parts included for mounting at the profile end (LF12S) or the slot (LF12C)
- ▶ Profile finishing for strut profile 45x180 for trolley LF12S: M12

Belt connector	No.	FS
LF12	2 3 842 535 680	2xFS4, 2xFS5, 2xFS6, 2xFS7, 4xFS8

Material: aluminum, painted black
 Scope of delivery: incl. fastening material (FS)

FS4

DIN7984
M12x40

FS5

DIN 7984
M8x30
DIN 125
A8,4

FS6

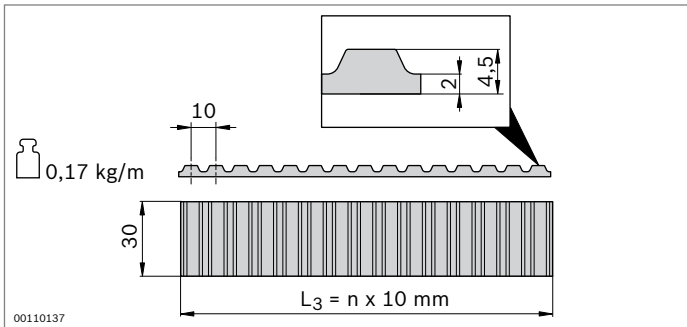
DIN 7991
M8x30

FS7

ø18x7

FS8

ø10xø5x11

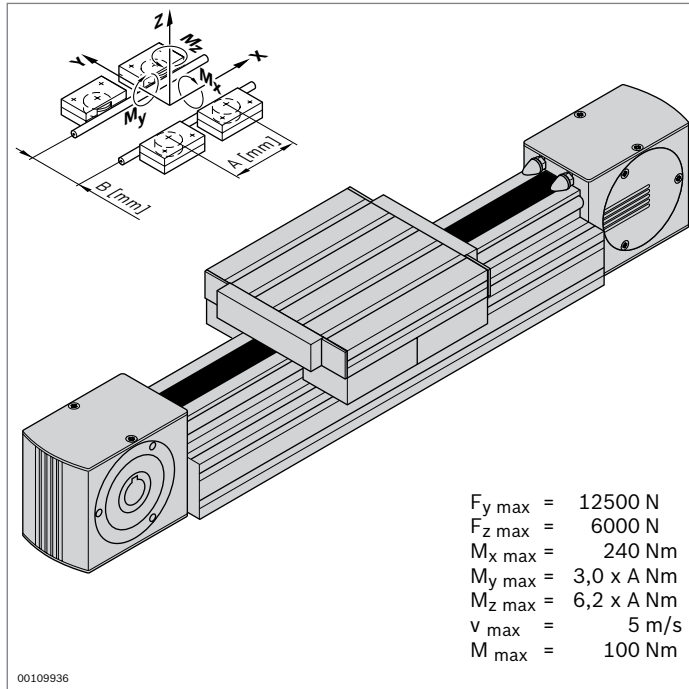


- ▶ Toothed belt as a trolley drive
- ▶ Pitch: AT10

Toothed belt	L_3 (mm)	No.
LF12	300 ... 50000	3 842 994 821 / $L_3$¹⁾
	50000	3 842 526 422

¹⁾ $L_3 = 2xL_2 - L_1 + 630$

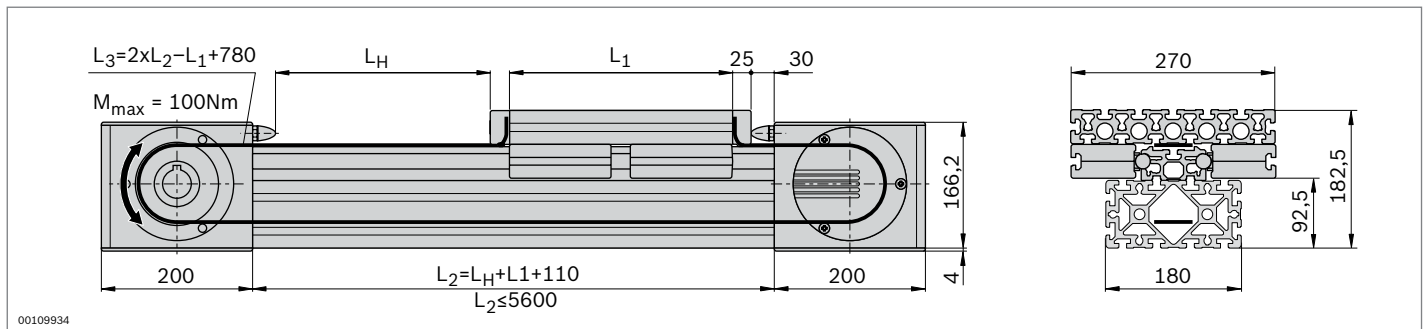
Material: PU with embedded steel wires



Cam roller guide LF20S – complete axis



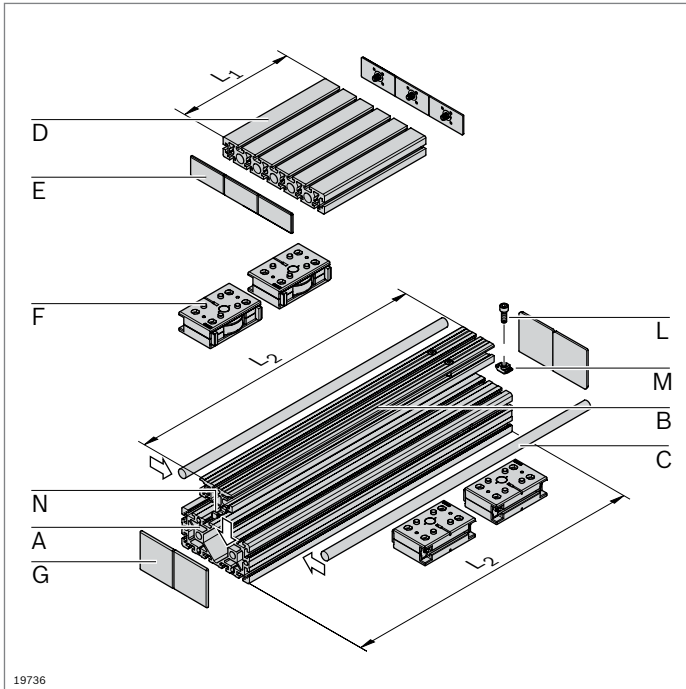
- ▶ Fully assembled cam roller guide
- ▶ Stroke and trolley length can be individually selected
- ▶ Rail profile mounted on strut profile 90x180
- ▶ Incl. toothed belt drive; additional notes on the drive concept (p. 13-44)



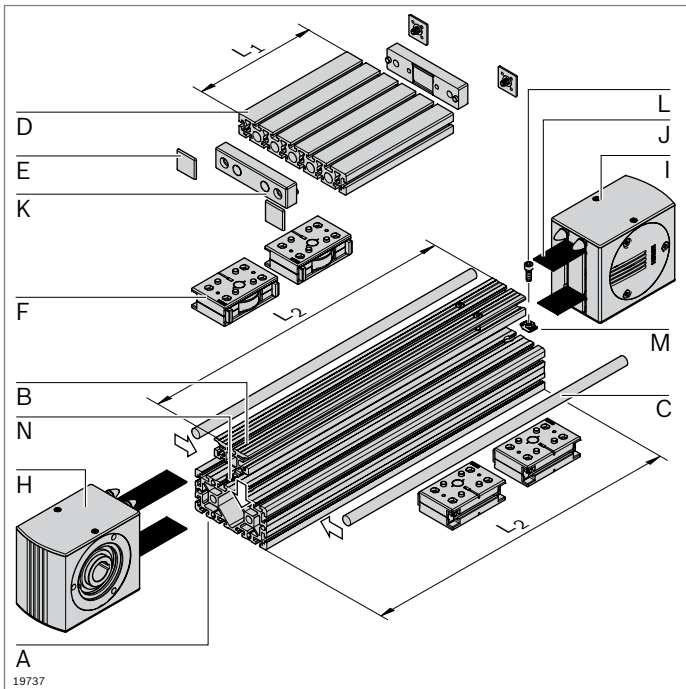
Technical data

See pages 13-57 for notes on layout and drive

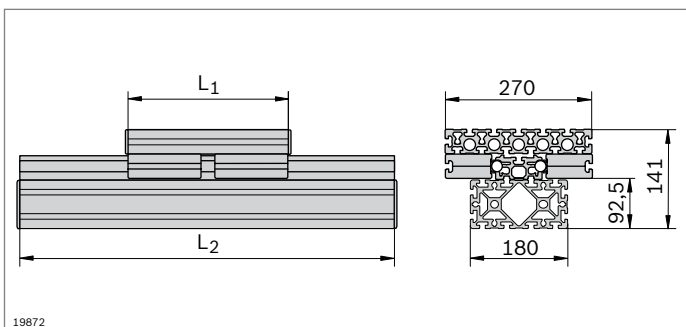
Complete axis	L_H / L_1 (mm)	No.
LF20S	$L_1 + 50 \leq L_H \leq 5220$ $270 \leq L_1 \leq 1000$	3 842 998 499 / L_H / L_1



19736



19737



19872

Cam roller guide LF20S – components

- Components for the individual assembly of cam roller guides, with or without drive

Parts list for cam roller guide LF20S without drive

Component	No.	Qty.	Page
A Profile 90x180	3 842 990 416 / L₂	1	2-48
B Guide profile LF20S	3 842 993 080 / L₂	1	13-32
C Guide rod LF20	3 842 993 969 / L₂	2	13-32
D Profile 45x270	3 842 992 927 / L₁	1	2-45
E Cover cap 45x90	3 842 548 757	6	2-45
F Guide bearing LF20	3 842 535 663	4	13-33
G Cover cap 90x90	3 842 548 761	4	2-47
L Cylinder bolt DIN 7984 – M8x45		n ¹⁾	
M T-nut M8, 10 mm slot	3 842 530 287	n ¹⁾	3-4
N Sliding block	3 842 146 877	n ¹⁾	13-32

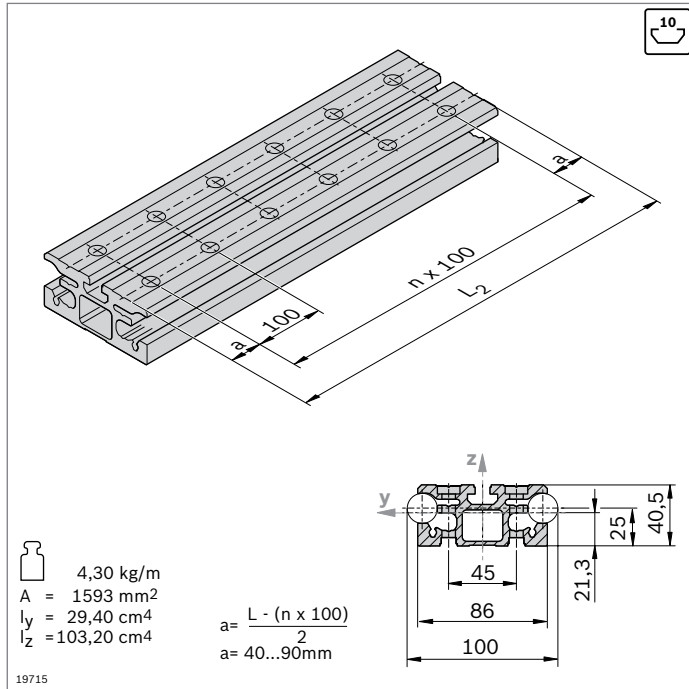
¹⁾ For identification see page 13-32

Parts list for cam roller guide LF20S with drive

Component	No.	Qty.	Page
A Profile 90x180 LF-S	3 842 993 081 / L₂	1	2-48
B Guide profile LF20S	3 842 993 080 / L₂	1	13-32
C Guide rod LF20	3 842 993 969 / L₂	2	13-32
D Profile 45x270 M12	3 842 992 928 / L₁	1	2-45
E Cover cap 45x45	3 842 548 753	4	2-40
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 / L₃¹⁾	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⁾ $L_3 = 2 \times L_2 - L_1 + 780$

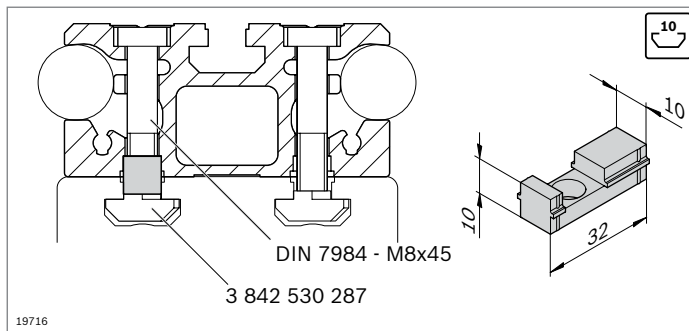
²⁾ For identification see page 13-32



- ▶ Guide profile LF20S to hold 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 pcs	150 ... 5600	3 842 993 080 / L_2
	5 pcs	5600	3 842 526 878

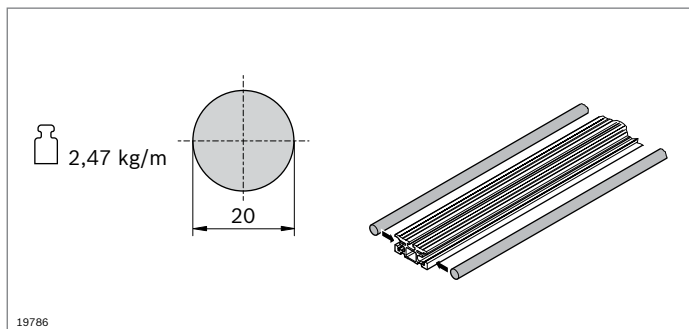
Accessories: Cylinder screw DIN 7984 – M8x45
 T-nut M8, 10 mm slot (p. 3-4)
 Sliding block



- ▶ Sliding block as a centering aid for mounting the guide profile in a 10 mm profile slot

Sliding block		No.
	50	3 842 146 877

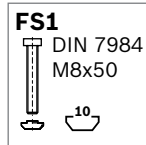
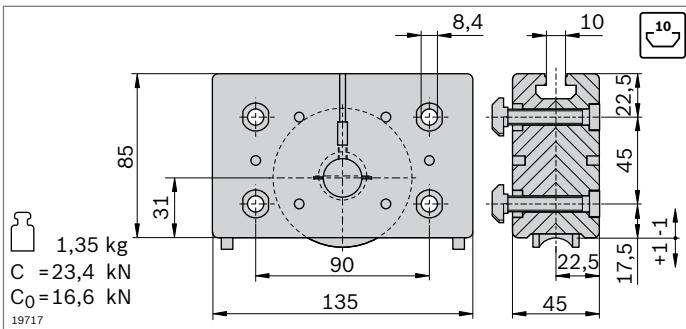
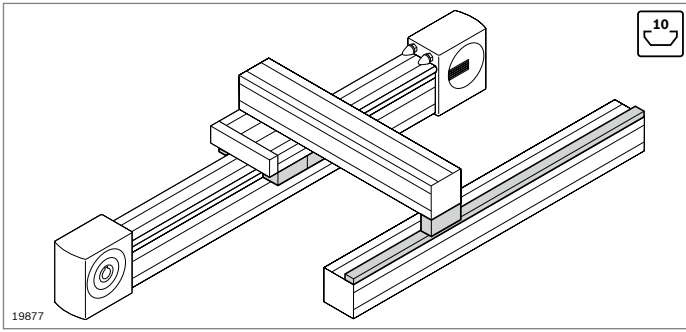
Material: PA; black



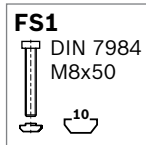
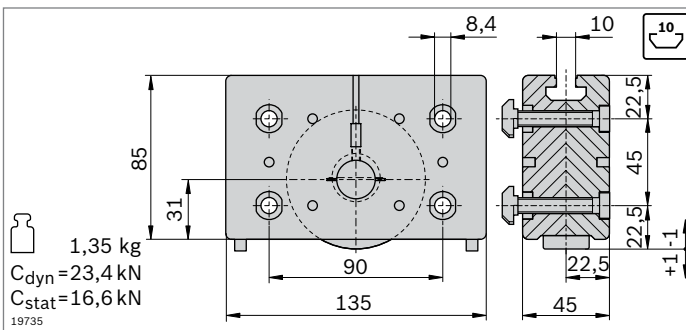
- ▶ The guide rod is pressed into the guide profile
- ▶ The guide rod guides the guide bearing

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**



- ▶ Guide bearing for trolley construction
- ▶ Supporting bearing for brackets for bearing off-center forces
- ▶ Guide rail to support supporting bearings (p. 13-34)

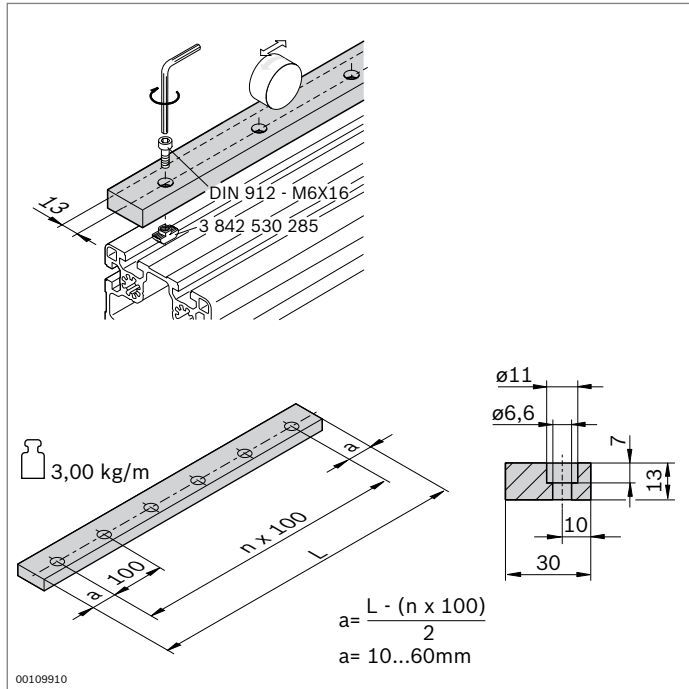


- ▶ Guide bearing for trolley construction
- ▶ Guiding via guide rod
- ▶ Rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free roller adjustment via eccentric bolts
- ▶ Replacement of the lubricating felts possible from rear in installed state

Guide bearing	No.	FS
LF20	2 3 842 535 663	4xFS1
Material:	Housing: Die-cast aluminum Roller: steel, hardened, polished	
Scope of delivery:	incl. fastening material (FS)	
Condition on delivery:	lubricating felts ungreased; greasing according to assembly instructions 3 842 527 226	

- ▶ Supporting bearing for brackets for bearing off-center forces
- ▶ For support on the guide rail
- ▶ Rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free roller adjustment via eccentric bolts
- ▶ Replacement of the lubricating felts possible from rear in installed state

Supporting bearing	No.	FS
LF20	2 3 842 535 665	4xFS1
Material:	Housing: Die-cast aluminum Roller: steel, hardened, polished	
Scope of delivery:	incl. fastening material (FS)	
Condition on delivery:	lubricating felts ungreased; greasing according to assembly instructions 3 842 527 226	



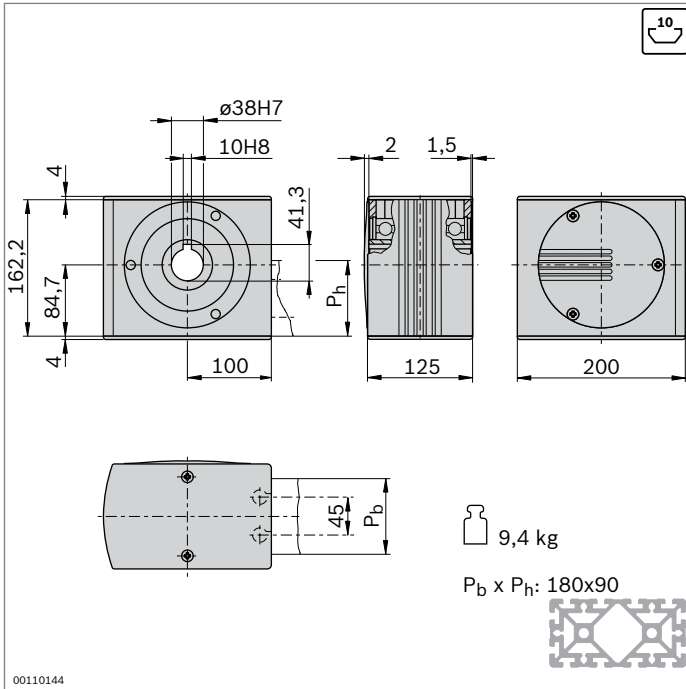
► Guide rail to hold supporting bearings

Guide rail	L (mm)	No.
LF20	120 ... 2000	3 842 994 702 / L

Material: steel, hardened, polished

Condition on delivery: ungreased; greasing according to assembly instructions **3 842 527 226**

Accessories: cylinder bolt DIN 912 – M6x16
T-nut M6, 10 mm slot (**3 842 530 285**)

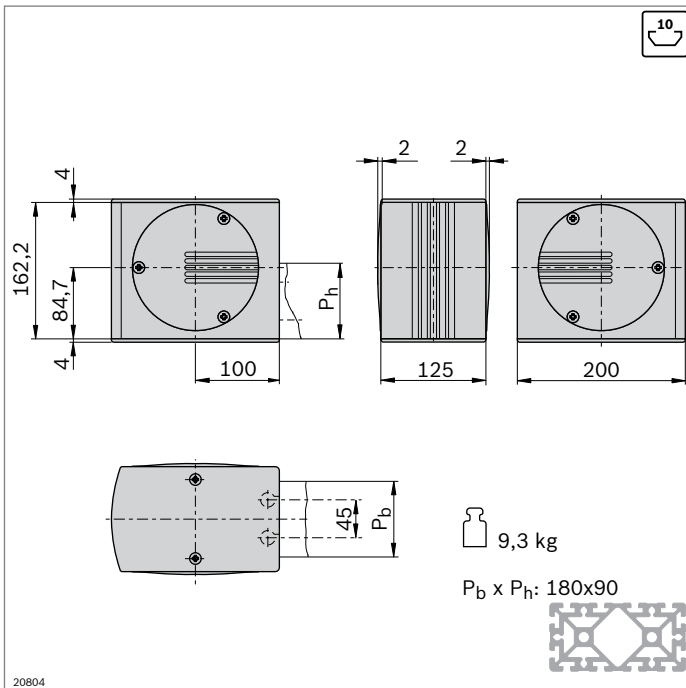
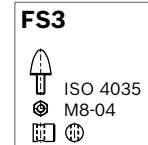
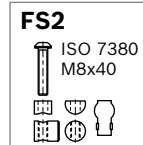


- ▶ Drive head for transferring drive torque to a toothed belt
- ▶ For direct mounting of a motor or (in conjunction with a center shaft) for mounting a hollow shaft gear or a coupling (p. 13-46)
- ▶ Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- ▶ Profile finishing: LF-S blind hole drilling for longitudinal end connector

Drive head	No.	FS
LF20S	3 842 526 414	4xFS2, 2xFS3

Material: Drive head: aluminum, anodized
Hollow shaft: steel; galvanized

Scope of delivery: incl. fastening material (FS), cover caps

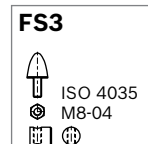
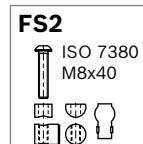


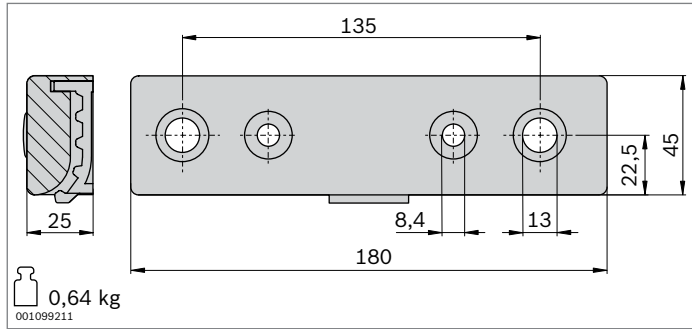
- ▶ Return head for tensioning the toothed belt and changing its direction
- ▶ Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- ▶ Profile finishing: LF-S blind hole drilling for longitudinal end connector

Return head	No.	FS
LF20S	3 842 526 415	4xFS2, 2xFS3

Material: Return head: aluminum, anodized
Hollow shaft: steel; galvanized
Caps: PA; black

Scope of delivery: incl. fastening material (FS), cover caps





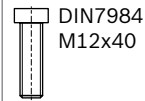
- ▶ Belt connector for fixing the toothed belt on the front of the trolley
- ▶ Profile finishing for strut profile 45x270 for trolley
LF20S: M12
- ▶ All connecting parts included for mounting at the profile end (LF20S) or the slot (LF20C)

Belt connector	No.	FS
LF20	2 3 842 535 680	2xFS4, 2xFS5, 2xFS6, 2xFS7, 4xFS8

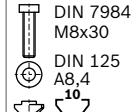
Material: aluminum, painted black

Scope of delivery: incl. fastening material (FS)

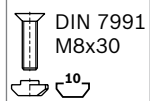
FS4



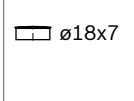
FS5



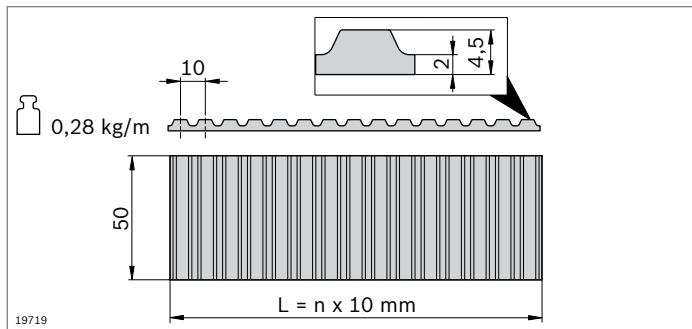
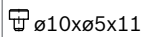
FS6



FS7



FS8

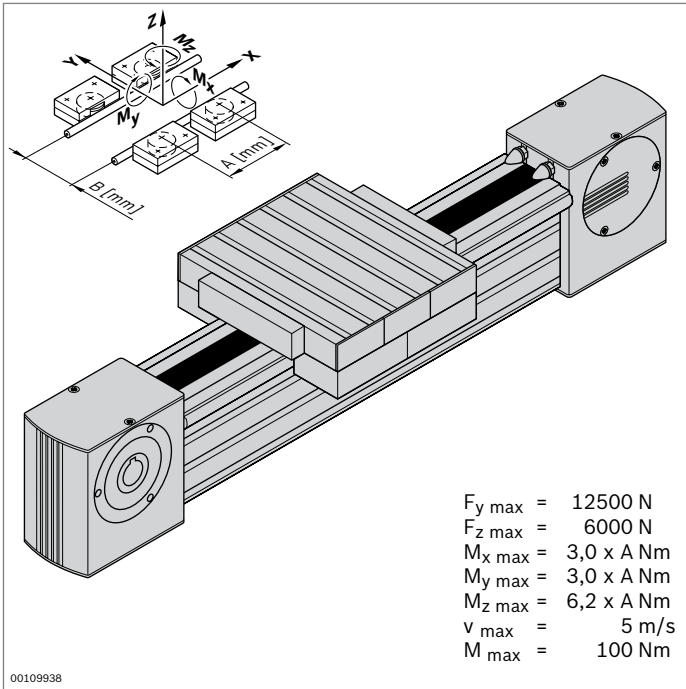


- ▶ Toothed belt as a trolley drive
- ▶ Pitch: AT10

Toothed belt	L ₃ (mm)	No.
LF20	300 ... 50000	3 842 994 662 / L₃¹⁾
	50000	3 842 513 648

¹⁾ L₃ = 2xL₂ - L₁ + 780

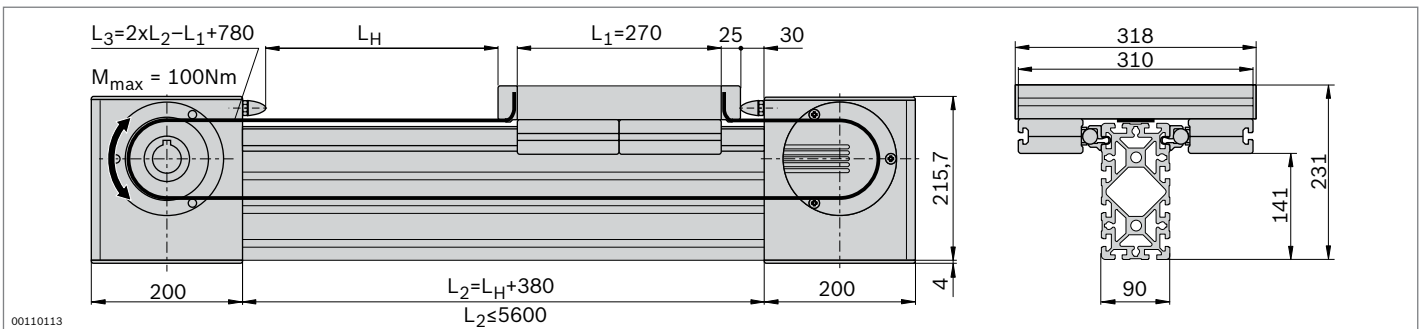
Material: PU with embedded steel wires



Cam roller guide LF20C – complete axis



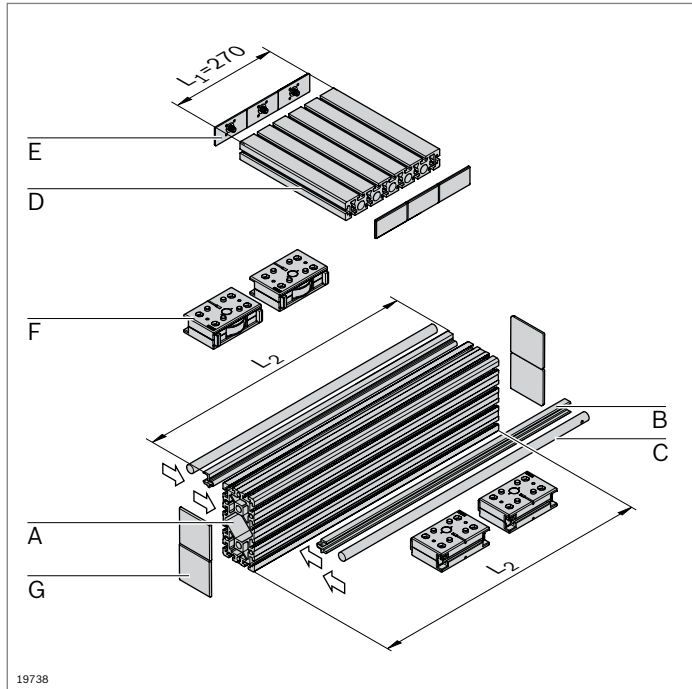
- ▶ Fully assembled cam roller guide
- ▶ Stroke can be individually selected
- ▶ Clamping profile clipped into strut profile 90x180
- ▶ Incl. toothed belt drive; additional notes on the drive concept (p. 13-44)



Technical data

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

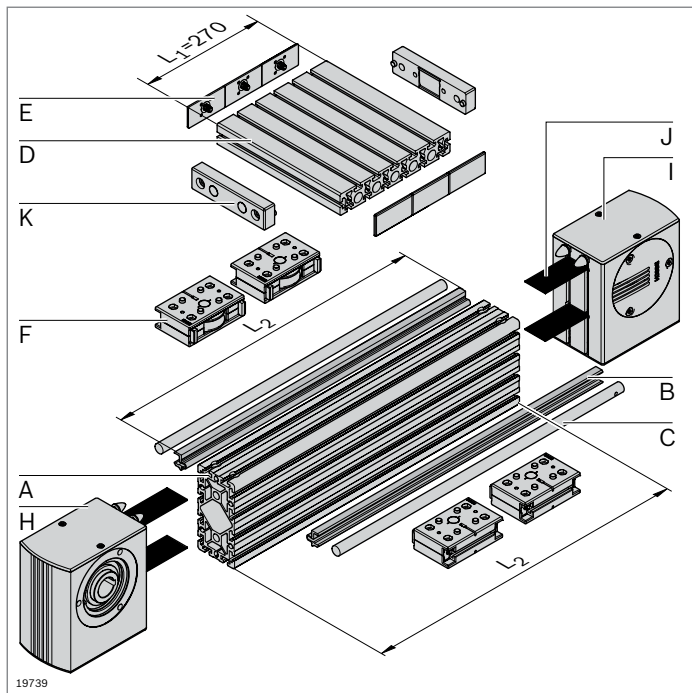


Cam roller guide LF20C – components

- Components for the individual assembly of cam roller guides, with or without drive

Parts list for cam roller guide LF20C without drive

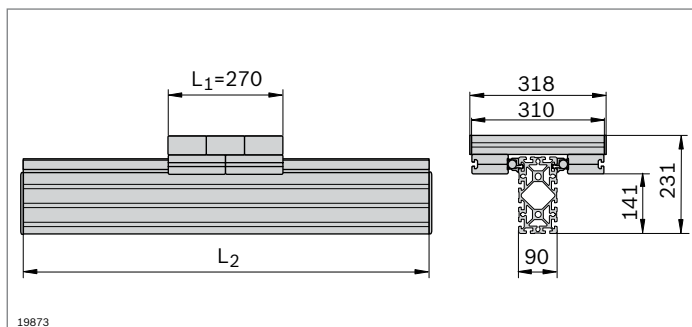
Component	No.	Qty.	Page
A Profile 90x180	3 842 990 416 / L_2	1	2-48
B Clamping profile LF20C	3 842 992 441 / L_2	2	13-39
C Guide rod LF20	3 842 993 969 / L_2	2	13-39
D Profile 45x270	3 842 992 927 / 310 mm	1	2-45
E Cover cap 45x90	3 842 548 757	6	2-45
F Guide bearing LF20	3 842 535 663	4	13-40
G Cover cap 90x90	3 842 548 761	4	2-48

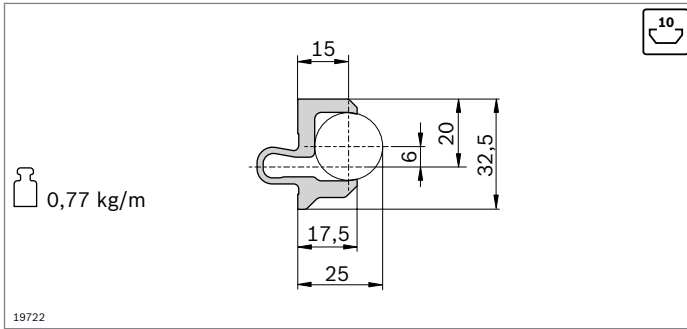


Parts list for cam roller guide LF20C with drive

Component	No.	Qty.	Page
A Profile 90x180 LF20C	3 842 992 898 / L_2	1	2-48
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	2-45
E Cover cap 45x90	3 842 548 757	6	2-45
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⁾ $L_3 = 2xL_2 - L_1 + 780$

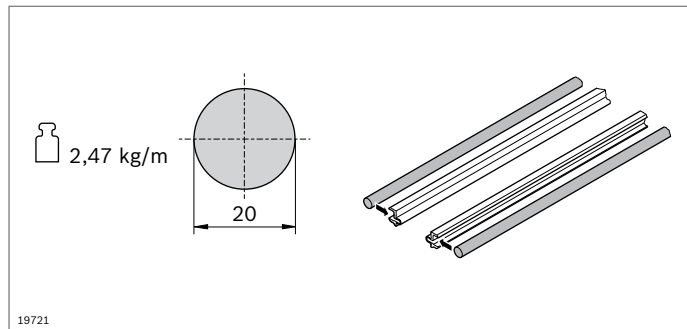




- ▶ The clamping profile is clipped into any chosen 10 mm strut profile slot and holds the guide rods

Clamping profile	L (mm)	No.
LF20C	1 pcs 150 ... 3000	3 842 992 441 / L
	20 pcs 3000	3 842 518 898

Material: aluminum, anodized

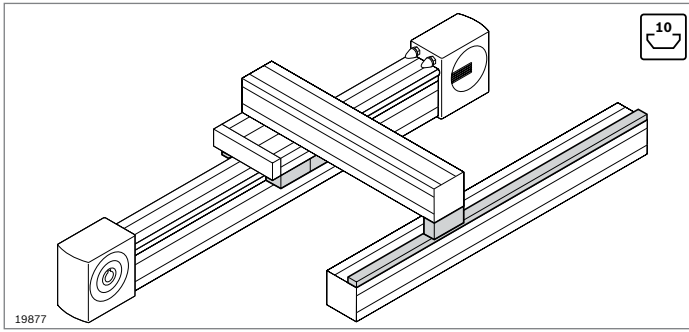


- ▶ The guide rod is pressed into the clamping profile
- ▶ The guide rod guides the guide bearing

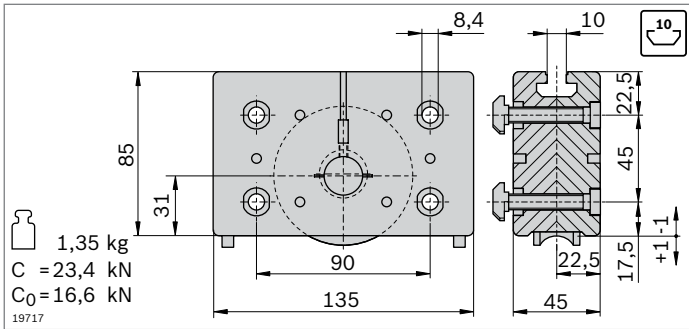
Guide rod	L (mm)	No.
LF20	150 ... 2900	1 3 842 993 969 / L
	2900	20 3 842 539 416

Material: Solid shaft VA, induction hardened, polished

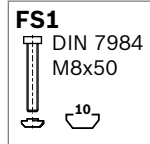
Condition on delivery: ungreased; greasing according to assembly instructions **3 842 527 226**



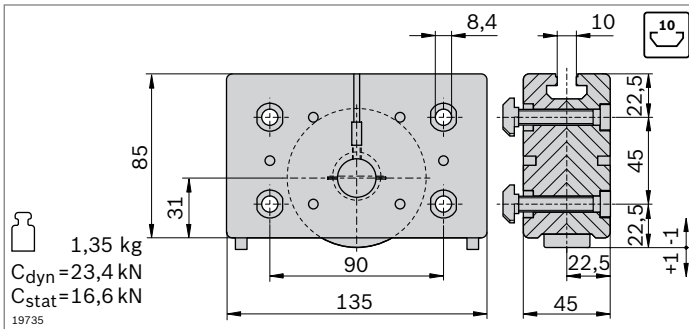
- ▶ Guide bearing for trolley construction
- ▶ Supporting bearing for brackets for bearing off-center forces
- ▶ Guide rail to support supporting bearings (p. 13-41)



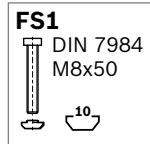
- ▶ Guide bearing for trolley construction
- ▶ Guiding via guide rod
- ▶ Rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free roller adjustment via eccentric bolts
- ▶ Replacement of the lubricating felts possible from rear in installed state



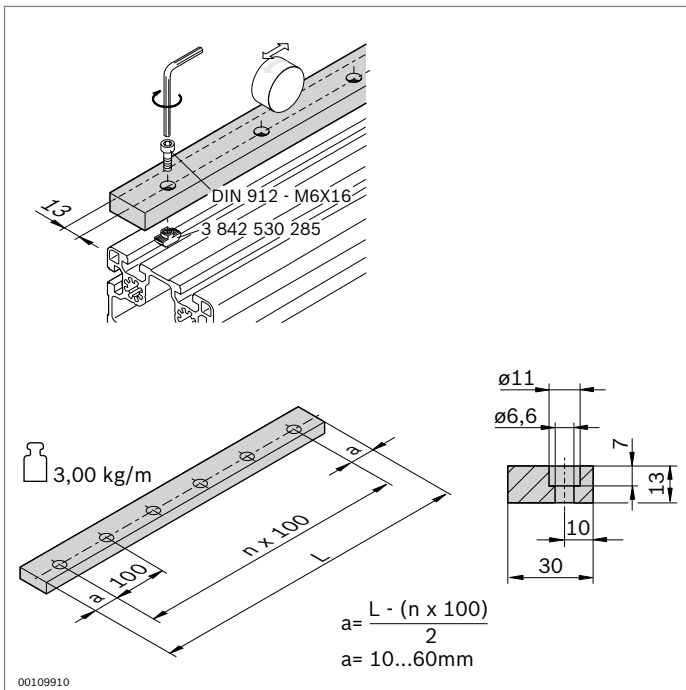
Guide bearing	No.	FS
LF20	2	3 842 535 663 4xFS1
Material:	Housing: Die-cast aluminum Roller: steel, hardened, polished	
Scope of delivery:	incl. fastening material (FS)	
Condition on delivery:	lubricating felts ungreased; greasing according to assembly instructions 3 842 527 226	



- ▶ Supporting bearing for brackets for bearing off-center forces
- ▶ For support on the guide rail
- ▶ Rollers with ball bearings, permanently lubricated
- ▶ Lubricating felts with guide rod lubrication reservoir
- ▶ Play-free roller adjustment via eccentric bolts
- ▶ Replacement of the lubricating felts possible from rear in installed state



Supporting bearing	No.	FS
LF20	2	3 842 535 665 4xFS1
Material:	Housing: Die-cast aluminum Roller: steel, hardened, polished	
Scope of delivery:	incl. fastening material (FS)	
Condition on delivery:	lubricating felts ungreased; greasing according to assembly instructions 3 842 527 226	



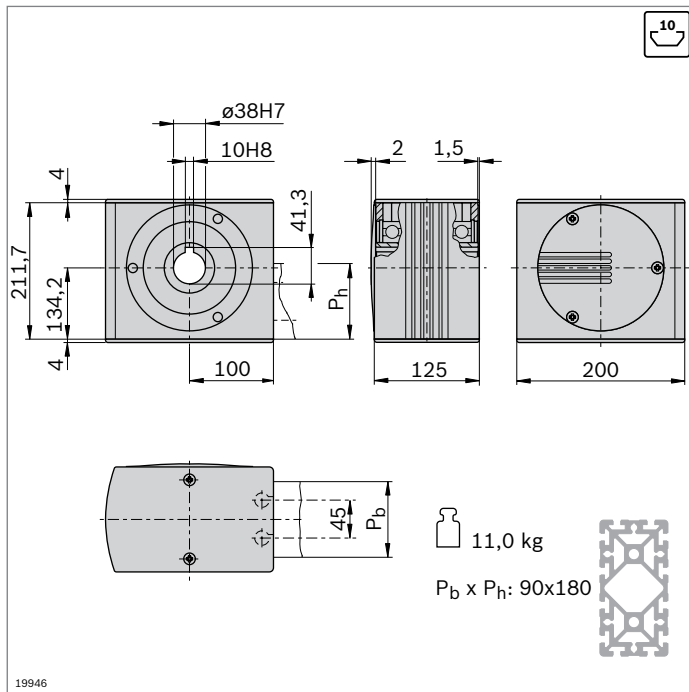
► Guide rail to hold supporting bearings

Guide rail	L (mm)	No.
LF20	120 ... 2000	3 842 994 702 / L

Material: steel, hardened, polished

Accessories: cylinder bolt DIN 912 – M6x16
T-nut M6, 10 mm slot (**3 842 530 285**)

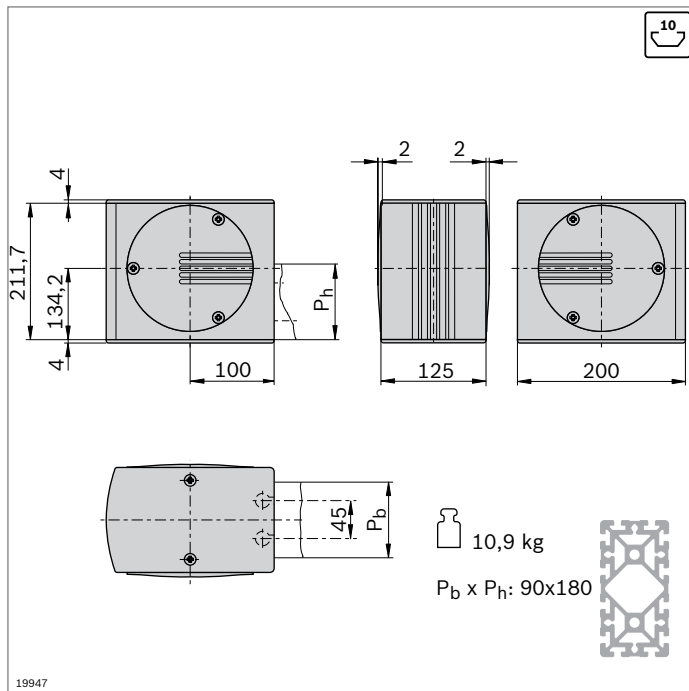
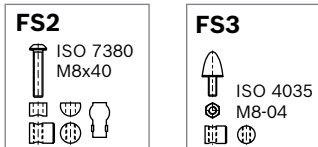
Condition on delivery: ungreased; greasing according to assembly instructions **3 842 527 226**



- ▶ Drive head for transferring drive torque to a toothed belt
- ▶ For direct mounting of a motor or (in conjunction with a center shaft) for mounting a hollow shaft gear or a coupling (p. 13-46)
- ▶ Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- ▶ Profile finishing: LF blind hole drilling for longitudinal end connector

Drive head	No.	FS
LF20C	3 842 526 867	4xFS2, 2xFS3

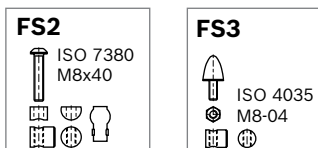
Material: Drive head: aluminum, anodized
Hollow shaft: steel; galvanized
Scope of delivery: incl. fastening material (FS), cover caps

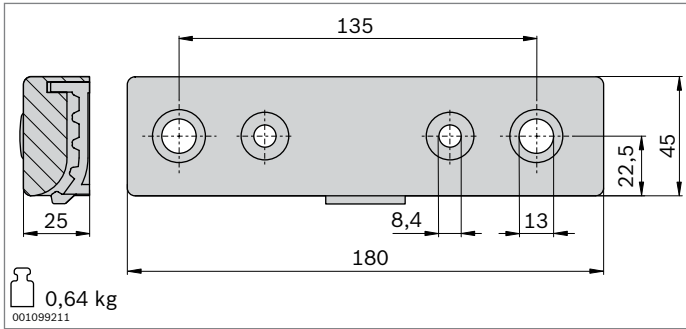


- ▶ Return head for tensioning the toothed belt and changing its direction
- ▶ Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- ▶ Profile finishing: LF blind hole drilling for longitudinal end connector

Return head	No.	FS
LF20C	3 842 526 869	4xFS2, 2xFS3

Material: Return head: aluminum, anodized
Hollow shaft: steel; galvanized
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 2xFS4, 2xFS5, 2xFS6, 2xFS7, 4xFS8


Material: aluminum, painted black
 Scope of delivery: incl. fastening material (FS)

FS4




DIN7984
M12x40

FS5



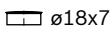
DIN 7984
M8x30
DIN 125
A8,4
10

FS6




DIN 7991
M8x30
10

FS7

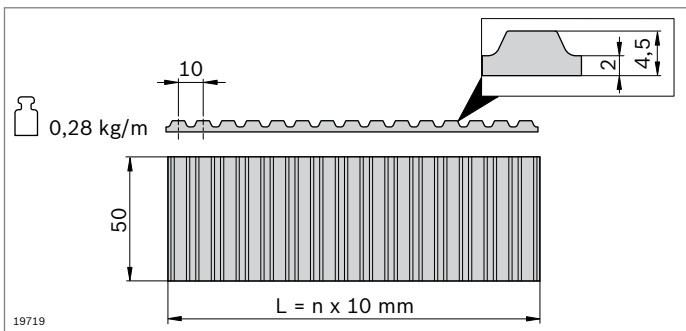


ø18x7

FS8



ø10xø5x11

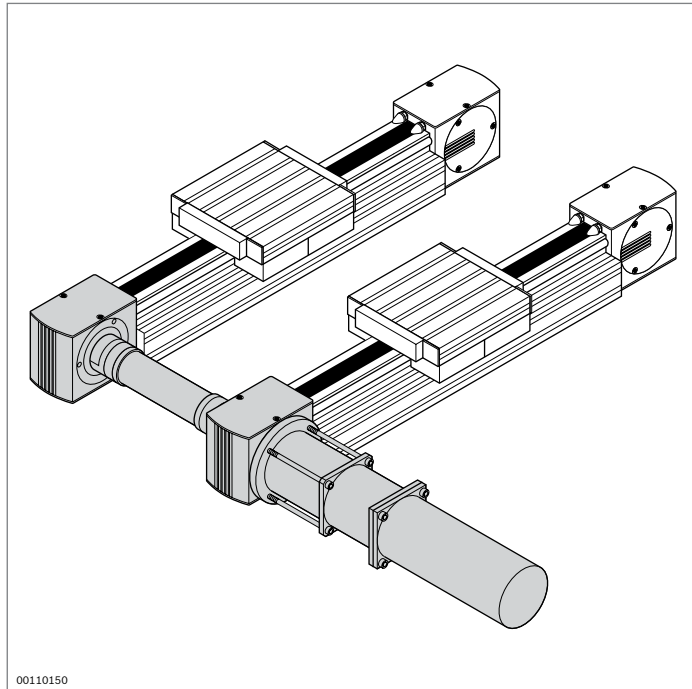


- ▶ Toothed belt as a trolley drive
- ▶ Pitch: AT10

Toothed belt	L (mm)	No.
LF20	300 ... 50000	3 842 994 662 / L₃¹⁾
	50000	3 842 513 648

¹⁾ $L_3 = 2 \times L_2 - L_1 + 780$

Material: PU with embedded steel wires



Linear guide drives

Drive concept

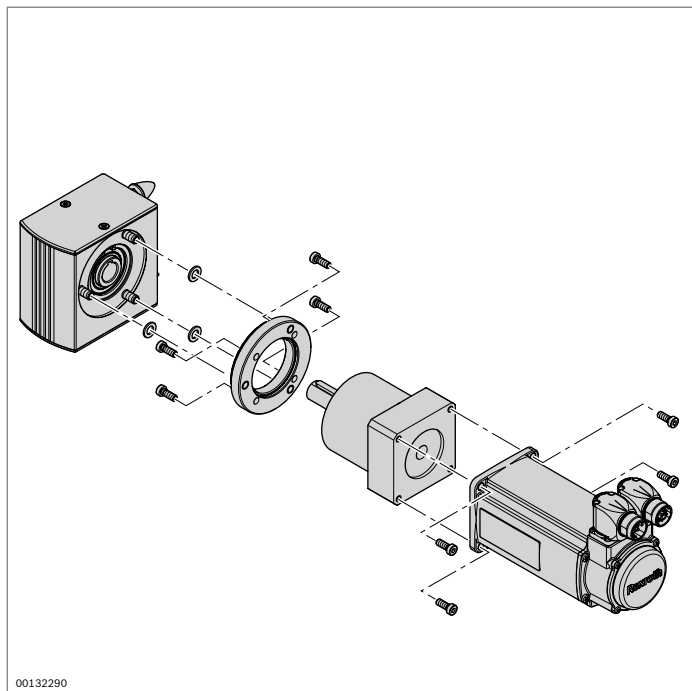
The linear guides are driven via the hollow shaft in the drive head. The drive head is used to directly install a motor or alternatively (in connection with a center shaft) a hollow shaft gear or a coupling. Depending on the desired speeds of movement for the application, it is necessary to use various motor types in conjunction with intermediate gears. Due to the multitude of drive components available in the market, there are a large number of possible combinations.

The MGE modular profile system makes it easy to assemble Bosch Rexroth linear guides through the use of a standard shaft and simple connection dimensions.

Fastening

The drive head is directly secured on the profile by means of longitudinal end connectors.

The motor, or the intermediate gear flange, can be screwed to the drive head as a complete unit from the left- or right-hand side.

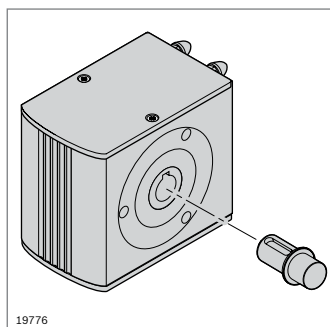


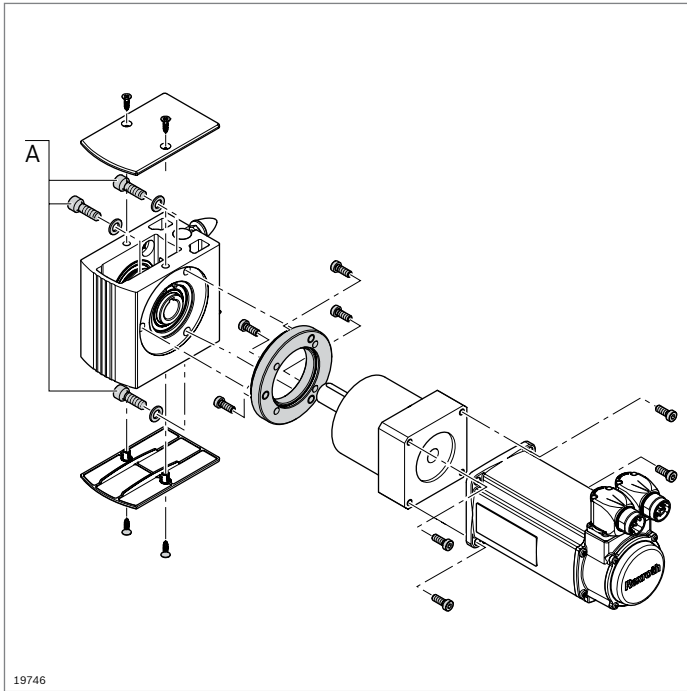
Synchronous shafts

The use of synchronous shafts (p. 13-47) enables several linear axes to be operated with one drive.

Connection dimensions (flange)

The connection dimensions for the size LF6, LF12 and LF20 linear guides are shown on pages 13-45.





Flange

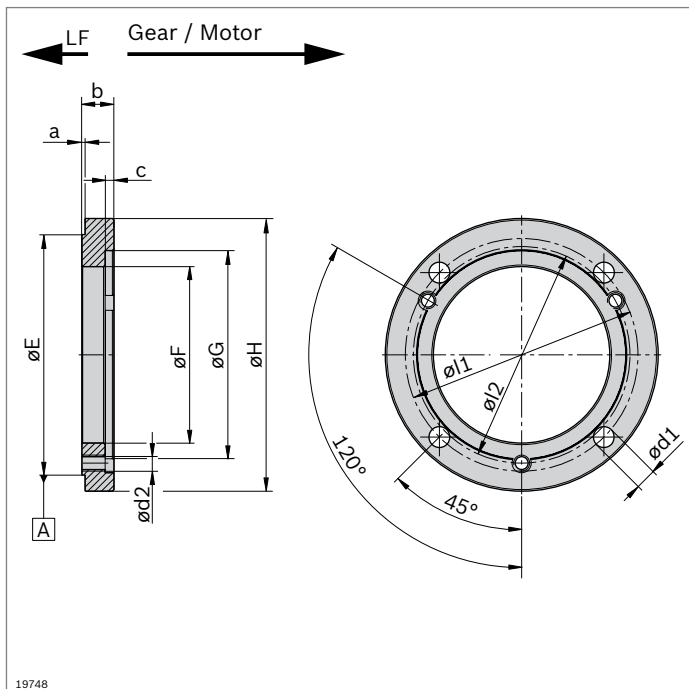
A flange is generally required for fixing the motor/gear unit in place. The connection dimensions for connection to the drive head are shown below. The connection to the motor/gear unit depends on the model chosen in each case.

See also the connection dimensions for the drive heads LF6S (p. 13-9), LF6C (p. 13-14), LF12C (p. 13-28), LF12S (p. 13-21), LF20C (p. 13-42), LF20S (p. 13-35)

Fastening material flange A

Note regarding flange in self-build version. Adapt fastening material to suit differing flange thicknesses.

	LF6 (b = 14.5 mm)	LF12 (b = 20 mm)	LF20 (b = 20 mm)
Drive head – flange	ISO 4762 – M8x22 (3x) ISO 7092 – 8 (3x)	ISO 4762 – M8x25 (3x) ISO 7092 – 8 (3x)	ISO 4762 – M10x30 (3x) ISO 7092 – 10 (3x)



Drawing and dimensions for flange in self-build version. Customer-specific adjustment is necessary, depending on the motor and gear unit. The fastening material must be self-sourced.

Flange

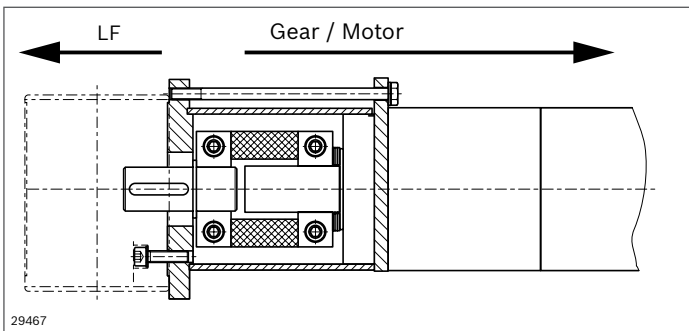
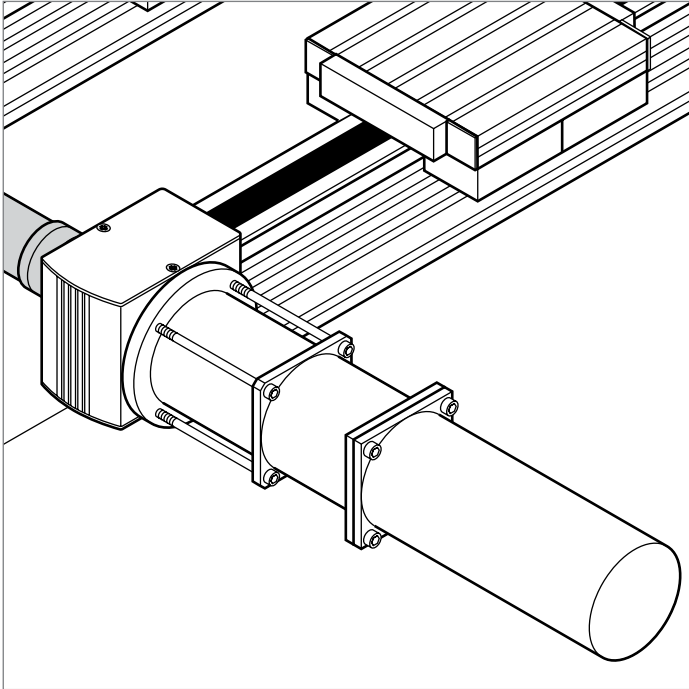
Dimension parameter	LF6 (mm)	LF12 (mm)	LF20 (mm)
a	3.5 ± 0.15	3.5 ± 0.15	2 ± 0.15
b _{min} ^{*)} //	0.05	*)	*)
c ^{*)}	*)	*)	*)
E	Ø 88 -0.1/-0.3	Ø 111 -0.1/-0.3	Ø 150 -0.1/-0.3
F _{min} ^{*)}	Ø *)	Ø *)	Ø *)
G ^{*)} ⊙	0.05 A	Ø *)	Ø *)
H ^{*)}	Ø *)	Ø *)	Ø *)
l1 ^{*)}	Ø *)	Ø *)	Ø *)
l2	Ø 78	Ø 100	Ø 135
d1 ^{*)}	Ø *)	Ø *)	Ø *)
d2	⊕ Ø 0.25	M8	M10

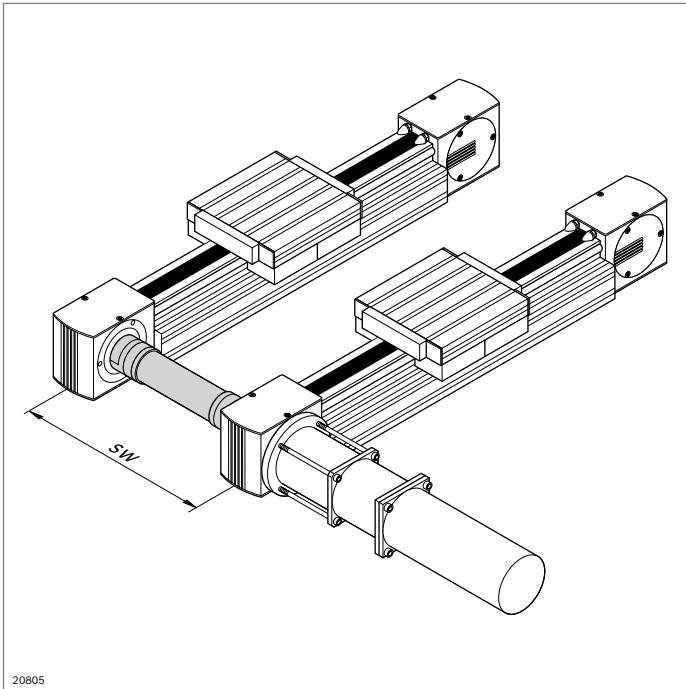
^{*)} Dimension according to customer drive.

Note: The values must be checked by the user.

Alternative mounting with coupling

Instead of direct mounting over the section link, a coupling can be inserted. This allows any user truing errors to be rectified. The coupling must be designed and sourced by the customer.





20805

Center shafts, synchronous shafts

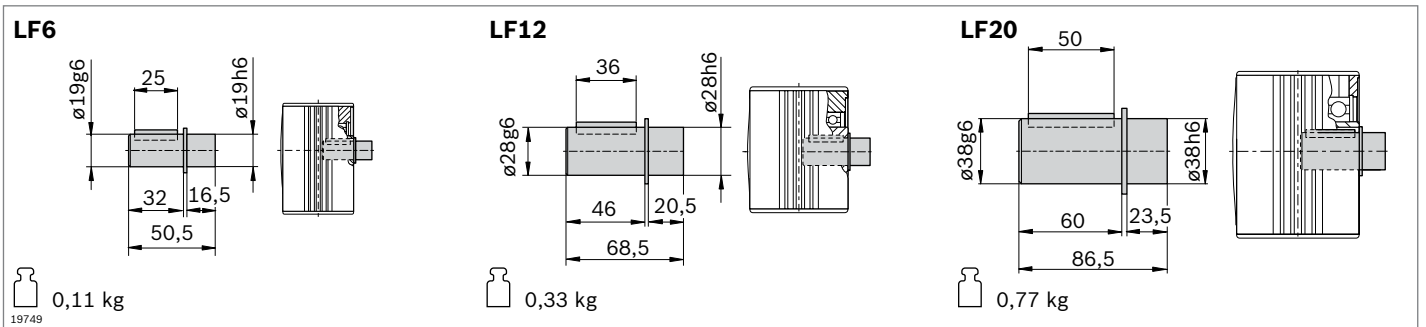
Center shafts

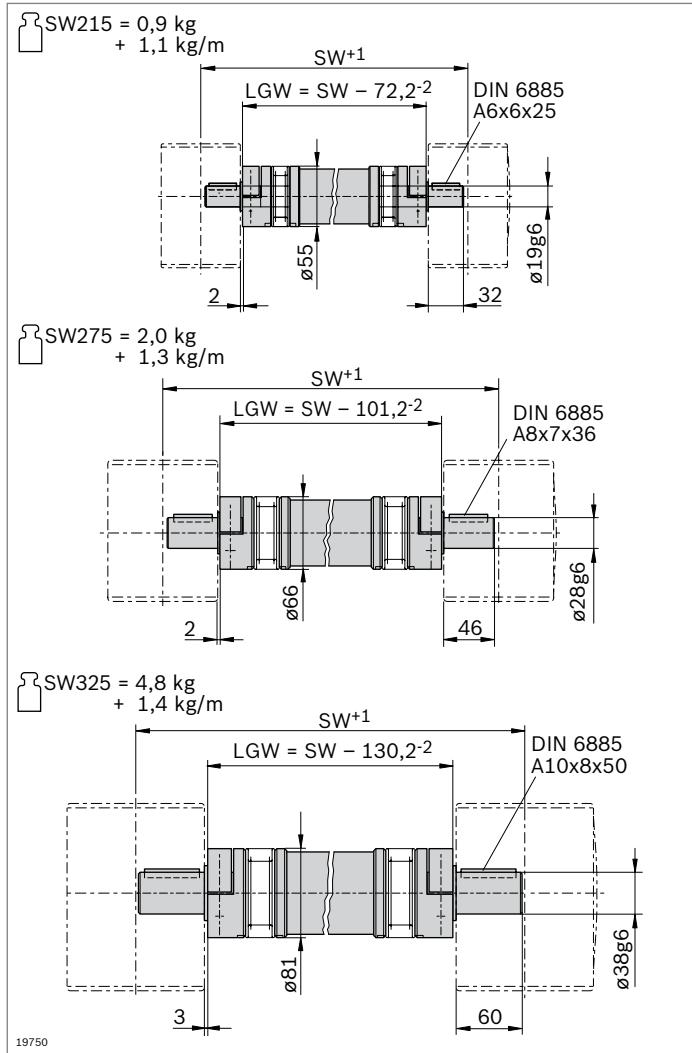
- ▶ Enable the installation of customized drive solutions

Center shaft	No.
LF6	3 842 526 893
LF12	3 842 526 894
LF20	3 842 526 895

Material: steel, nickel-plated

SW = support separation





SW = support separation

LGW = length of synchronous shaft

Synchronous shafts

- ▶ Allow several linear guides to be operated synchronously while being driven by a common motor
- ▶ The synchronous shaft can be replaced without the drive heads having to be disassembled

The selection diagrams on 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

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 lubrication 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

$$L = \left(\frac{C}{F} \right)^3 \cdot 10^5$$

$$L_h = \left(\frac{L}{2 \cdot s \cdot n_s \cdot 60} \right)$$

L = nominal service life (m)

L_h = nominal service life (h)

C = dynamic load capacity (N)

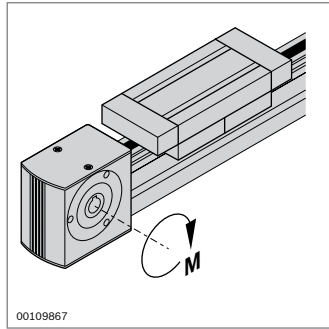
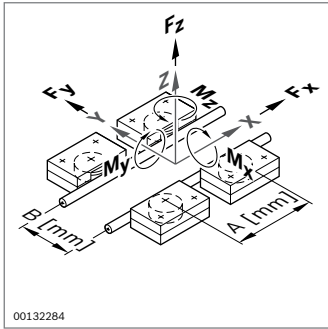
F = equivalent load (N)

s = length of stroke* (m)

n_s = stroke frequency (double stroke) (min^{-1})

*) For $s < 2 \times L_1$ (trolley length) load capacities are reduced.

Please consult us.



Load-dependent design

- The specified values are maximum single loads, which are reduced when loads are combined

Note: If cumulative forces and moments arise in your application, please use the Linear Motion Designer LF-MGE linear guide calculation program to recalculate your design (p. 13-57)

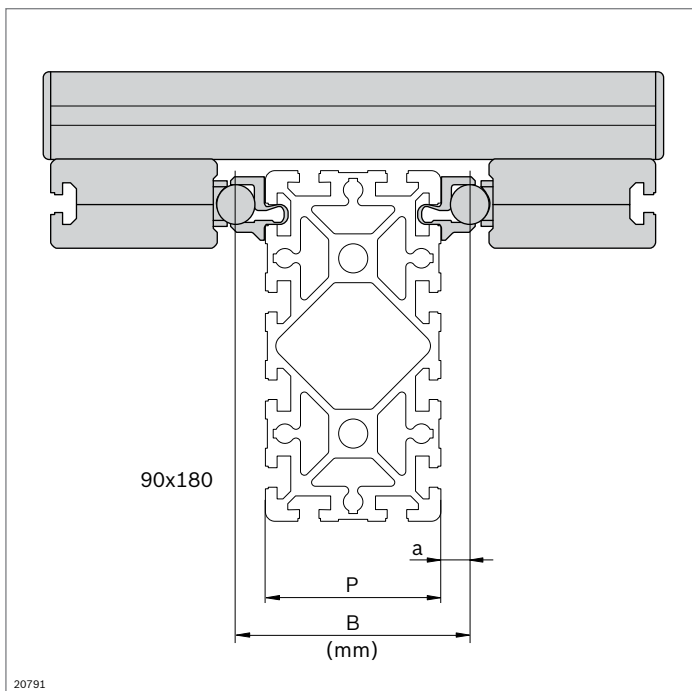
	$A_{min}^{1)}$ (mm)	F_z (N)	F_y (N)	M_x (Nm)	M_z (Nm)	M_y (Nm)	v_{max} (m/s)	M_{max} (Nm)
LF6S	75	850	1400	13.6	$0.7 \times A^2$	$0.4 \times A^2$	5	9.5 / 7.6
LF6C	75	850	1400	$0.4 \times B^2$	$0.7 \times A^2$	$0.4 \times A^2$	5	15
LF12S	90	2000	3500	78.0	$1.7 \times A^2$	$1.0 \times A^2$	5	30
LF12C	90	2000	3500	$1.0 \times B^2$	$1.7 \times A^2$	$1.0 \times A^2$	5	30
LF20S	135	6000	12500	240.0	$6.2 \times A^2$	$3.0 \times A^2$	5	100
LF20C	135	6000	12500	$3.0 \times B^2$	$6.2 \times A^2$	$3.0 \times A^2$	5	100

¹⁾ A_{min} = Length guide bearing

²⁾ Note: A (spacing of support wheels, see image above) in mm; see below for calculation of B (track width)

Do not exceed the maximum loading of the screwed connections for rails, carriages and fastenings.

Take account of the general service life of lubricants!



Calculating the track width B

$$B = P + 2 \times a$$

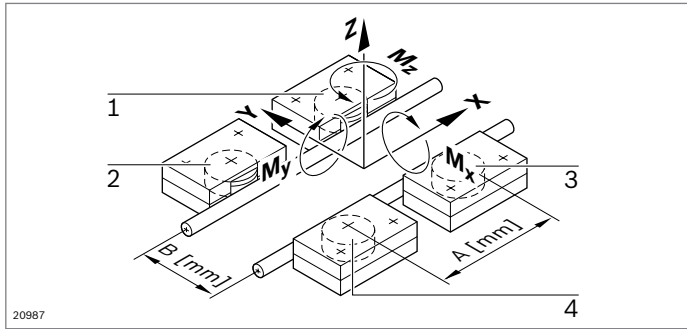
- B = track width (in mm)
- P = profile width (in mm)
- a = rod spacing (in mm)

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)



Roller 1:

$$F_r = -\left(\frac{F_y}{2}\right) - \left(\frac{M_z}{A}\right)$$

$$F_a = \left(\frac{F_z}{4}\right) + \left(\frac{M_x}{2 \cdot B}\right) - \left(\frac{M_y}{2 \cdot A}\right)$$

Roller 3:

$$F_r = +\left(\frac{F_y}{2}\right) + \left(\frac{M_z}{A}\right)$$

$$F_a = \left(\frac{F_z}{4}\right) - \left(\frac{M_x}{2 \cdot B}\right) - \left(\frac{M_y}{2 \cdot A}\right)$$

Roller 2:

$$F_r = -\left(\frac{F_y}{2}\right) + \left(\frac{M_z}{A}\right)$$

$$F_a = \left(\frac{F_z}{4}\right) + \left(\frac{M_x}{2 \cdot B}\right) + \left(\frac{M_y}{2 \cdot A}\right)$$

Roller 4:

$$F_r = +\left(\frac{F_y}{2}\right) - \left(\frac{M_z}{A}\right)$$

$$F_a = \left(\frac{F_z}{4}\right) - \left(\frac{M_x}{2 \cdot B}\right) + \left(\frac{M_y}{2 \cdot A}\right)$$

Table 1: Load factors for rollers

	Load case: $F_r \geq F_a $				Load case: $F_r < F_a $			
	x	y	x_0	y_0	x	y	x_0	y_0
LF6	1	3.1	1.2	3.5	0.5	3.6	1	3.7
LF12	1	4.2	1.2	5.2	0.5	4.7	1	5.4
LF20	1	4	1.2	4.9	0.5	4.5	1.1	5

Table 2: Rollers - load capacities

	C for 10^5 m (N)	C_0 (N)
LF6	3670	2280
LF12	8300	5000
LF20	23400	16600

Calculation of load on bearing for a trolley

Loading of the individual rollers

- ▶ A mm: spacing of the rollers' rotational axes
- ▶ B mm: center-to-center distance between the guide rods
- ▶ Only compressive forces can be transferred between rollers and guide rods in the radial direction. The following therefore applies in respect of radial forces:
 $F_r \leq 0$: $F_r = 0$
- ▶ Rollers can be loaded equally in both directions.
Therefore force F_a is sufficient for calculating P and P_0

Equivalent dynamic and static loads

To calculate the service life of a cam roller guide, the roller with the greatest load has to be considered.

The following must be determined:

$$P = \max(P_1, \dots, P_4)$$

$$P_0 = \max(P_{01}, \dots, P_{04})$$

Equivalent dynamic load P

$$P = x \cdot |F_r| + y \cdot |F_a|$$

Equivalent static load P_0

$$P_0 = x_0 \cdot |F_r| + y_0 \cdot |F_a|$$

F_r (N): radial load of the roller

The following applies: $F_r \leq 0$: $F_r = 0$

F_a (N): axial load of the roller

x, x_0 : radial factor (Table 1)

y, y_0 : axial factor (Table 1)

C: dynamic load capacity (Table 2)

C_0 : static load capacity (Table 2)

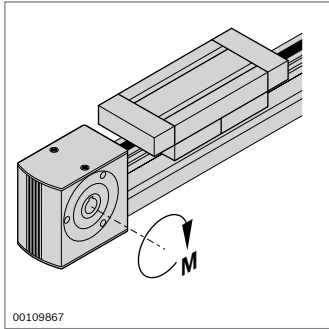
Static

safety values:

$S_0 \geq 4$ recommended!

$$S_0 = \left(\frac{C_0}{P_0}\right)$$

Size selection



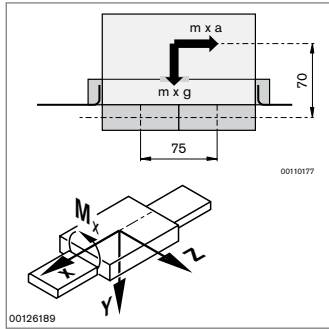
Determining the forces and moments which arise

$$\begin{matrix} F_{x\text{dyn}}, F_{y\text{dyn}}, F_{z\text{dyn}} \\ M_{x\text{dyn}}, M_{y\text{dyn}}, M_{z\text{dyn}} \end{matrix} \quad ^1)$$

¹⁾ $F_{z\text{dyn}}$ includes the weight of the trolley

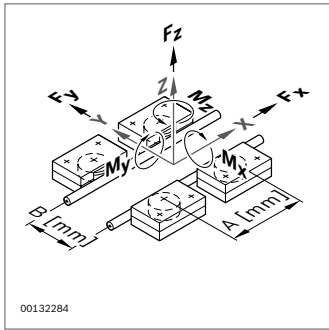
All the influences must be considered, e.g.:

- net mass and load
- acceleration forces and moments
- process forces and moments
- loads caused by dampers and/or stops



Determining the permissible forces and moments

For values see p. 13-51



Selection of the suitable size

$$\begin{matrix} F_{x, y, z \text{ dyn}} < F_{x, y, z \text{ dyn perm}} ! \\ M_{x, y, z \text{ dyn}} < M_{x, y, z \text{ dyn perm}} ! \end{matrix}$$

If F and M are cumulative:

recalculate using linear guide calculation program.

Note: When using the program, account must be taken of the directions of the respective forces and moments, i.e. the plus/minus sign, in order for the program to be able to calculate correctly.

You can order the CD directly from our media catalog, number 3 842 540 900.

www.boschrexroth.com/mediadirectory

Example:

$$\begin{aligned} m &= 30 \text{ kg} & a &= 2.5 \text{ m/s}^2; \\ L_1 &= 150 \text{ mm} & L_2 &= 5000 \text{ mm} \\ g &= 9.81 \text{ m/s}^2 \end{aligned}$$

$$F_{z\text{dyn}} = m \cdot g = 294 \text{ N}$$

$$M_{y\text{dyn}} = m \cdot a \cdot 70 \text{ mm} = 5.25 \text{ Nm}$$

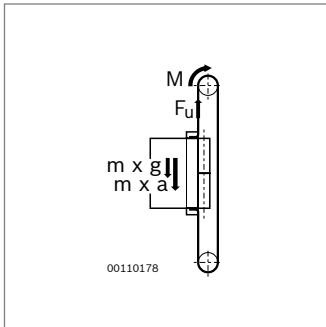
Example of LF 6 S, LF 6 C

$$\begin{aligned} F_{z\text{dyn perm}} &= 850 \text{ N} > F_{z\text{dyn}} = 294 \text{ N} \\ M_{y\text{dyn perm}} &= 0.4 \cdot A = 0.4 \cdot 75 \text{ mm} \\ &= 30 \text{ Nm} > M_{y\text{dyn}} = 5.25 \text{ Nm} \end{aligned}$$

Example:

$$\begin{aligned} F_{z\text{dyn}} &= 294 \text{ N} < F_{z\text{dyn perm}} = 850 \text{ N} ! \\ M_{y\text{dyn}} &= 5.25 \text{ Nm} < M_{y\text{dyn perm}} \\ &= 30 \text{ Nm} ! \end{aligned}$$

Calculating the drive

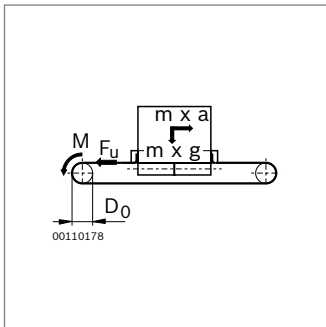


Peripheral force F_u

$$F_u = m \cdot a + m \cdot g + F_0 + \mu \cdot m \cdot g$$

$$F_u \leq F_{u \text{ perm}} !$$

F_0 : frictional force on return units
 μ : coefficient of friction of the guide
 see table below.



Alternative calculation formula

$$F_u = m \cdot a + F_0 + \mu \cdot m \cdot g \leq F_{u \text{ perm}} !$$

Example of LF6C

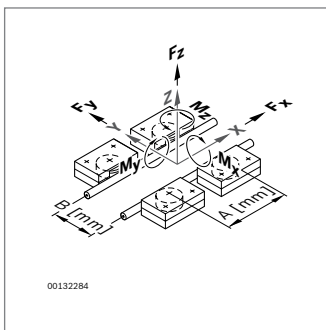
$$m = 30 \text{ kg}; \quad a = 2.5 \text{ m/s}^2$$

$$F_u = (30 \cdot 2.5) \text{ N} + 10 \text{ N}$$

$$+ (0.025 \cdot 30 \cdot 9.81) \text{ N}$$

$$F_u = 75 \text{ N} + 10 \text{ N} + 0.025 \cdot 294 \text{ N}$$

$$F_u = 92.35 \text{ N} < F_{u \text{ perm}} = 600 \text{ N} !$$



Required drive torque M

$$M = \frac{1}{2} \cdot D_0 \cdot F_u \leq M_{\text{perm}} !$$

Example:

$$M = \frac{1}{2} \cdot 50.94 \text{ mm} \cdot 92.35 \text{ N}$$

$$= 2.4 \text{ Nm}$$

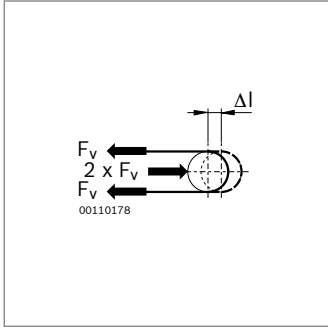
$$M = 2.35 \text{ Nm} \leq M_{\text{perm}}$$

$$= 15 \text{ Nm} !$$

	v (m/s)	$F_{u \text{ perm}}$ (N)	M_{perm} (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

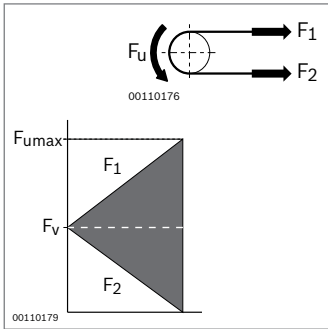
$$0.5 \cdot F_u \leq F_v \leq F_u$$

Recommendation: $F_v = 0.5 \cdot F_u$

Example:

$$F_u = 92.35 \text{ N}$$

$$F_v = 50 \text{ N}$$



Maximum toothed belt force $F_{1 \max}$

$$F_{1 \max} = F_v + 0.5 \cdot F_u \leq F_{1 \text{ perm}} !$$

$$F_{2 \min} = F_v - 0.5 \cdot F_u > 0 !$$

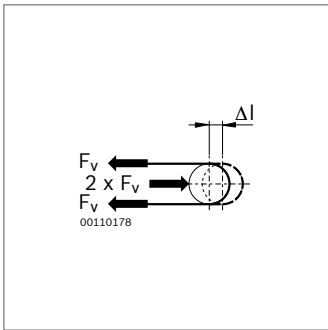
Example of LF6C

$$F_{1 \max} = 50 \text{ N} + 0.5 \cdot 92.35 \text{ N}$$

$$F_{1 \max} = 96.18 \text{ N} < F_{1 \text{ perm}} = 900 \text{ N} !$$

$$F_{2 \min} = 50 \text{ N} - 0.5 \cdot 92.35 \text{ N}$$

$$F_{2 \min} = 3.825 \text{ N} > 0 !$$



Required preload length Δl

$$\Delta l = 0.5 \cdot F_v \cdot L / C_{\text{spec}} \leq \Delta l_{\max} !$$

Example:

$$L = 2 \cdot L_2 - L_1 + 400 \text{ mm}$$

$$L = 10 \cdot 250 \text{ mm}$$

$$\Delta l = 0.5 \cdot 50 \text{ N} \cdot 10 \cdot 250 \text{ mm}$$

$$/ 420 \cdot 000 \text{ N}$$

$$\Delta l = 0.8 \text{ mm} < \Delta l_{\max} = 13 \text{ mm} !$$

	$F_{1 \text{ perm}}$ (N)	C_{spec} (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_{spec} : Belt stiffness;

L: Long toothed belts, 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






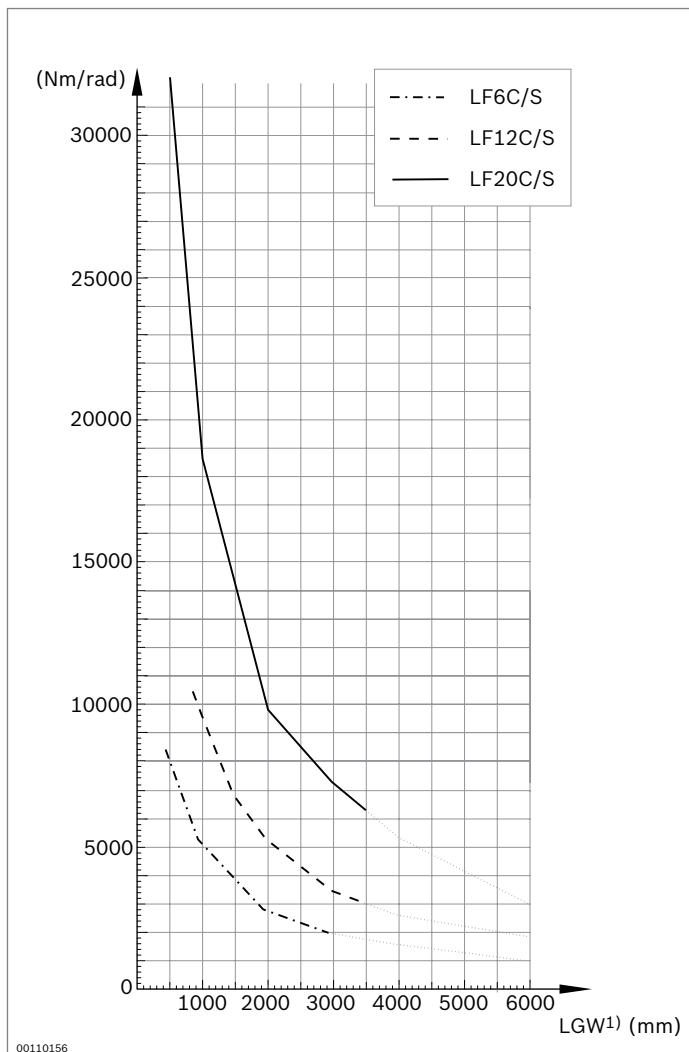
			LF6	LF12	LF20
Support separation SW	horizontal		215 ... 3000 mm	275 ... 3500 mm	325 ... 3500 mm
	vertical		215 ... 2000 mm	275 ... 2000 mm	325 ... 1100 mm
Nominal torque			max. 30 Nm	max. 60 Nm	max. 150 Nm
Permitted rpm			Diagram 3 (p. 13-56) max. 0.7 · nk	Diagram 3 (p. 13-56) max. 0.7 · nk	Diagram 3 (p. 13-56) max. 0.7 · nk
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)
	torsion 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

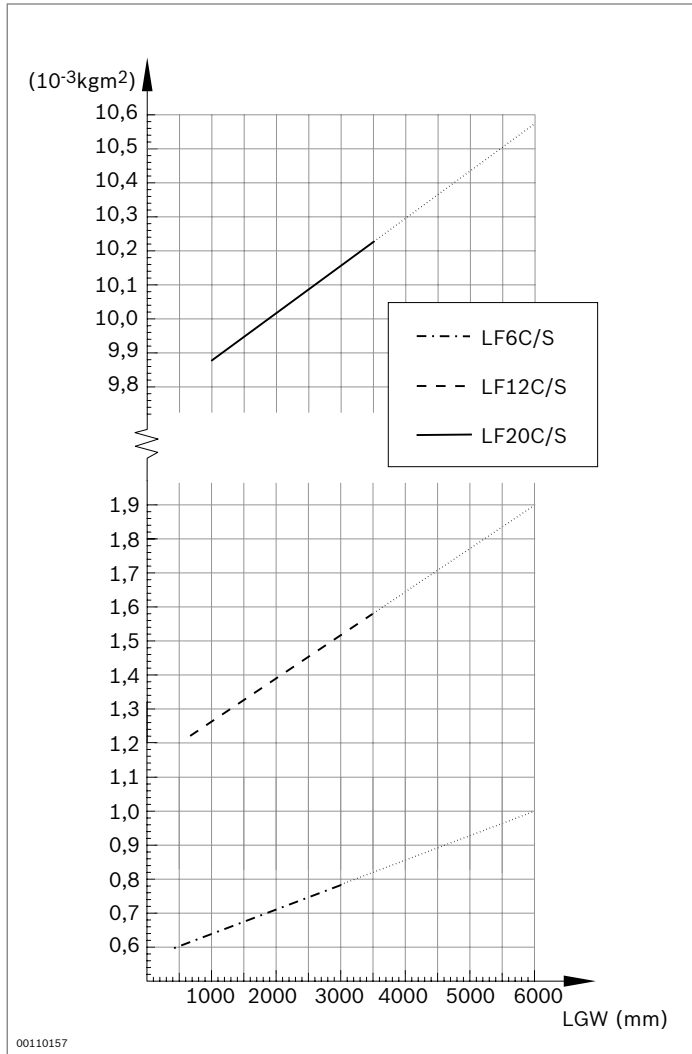


Diagram 3: Critical rpm nk due to bending

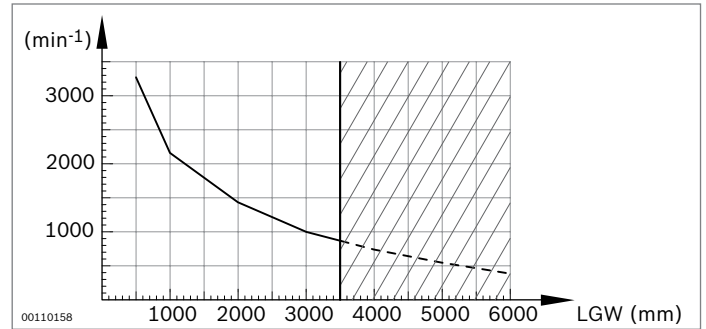
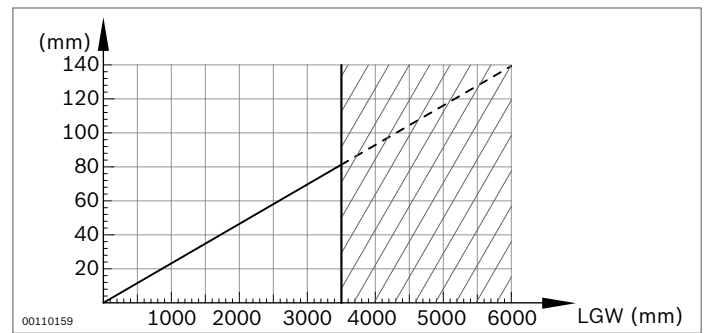
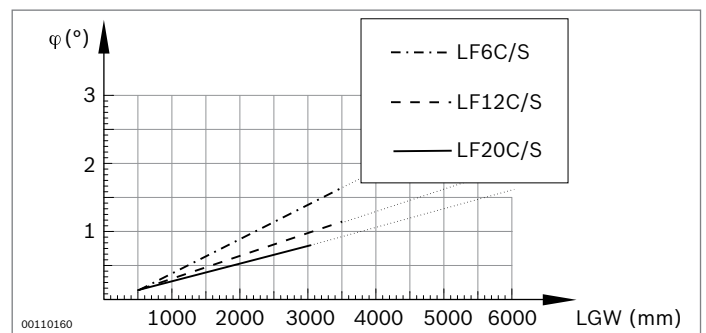


Diagram 4: Lateral offset



Aligned shafts are recommended.

Diagram 5: torsion angle



Planning tool LF-MGE

Automation from a single source

Planning, implementation, commissioning and training – Rexroth offers you support in every project phase.

Besides the catalogs and brochures, we provide you with powerful planning tools.

On our website you can find information on new products as well as continually updated information on our existing products.

In addition, our sales and service teams are on hand to answer specific questions.

When implementing our systems, we also support you with our broad range of training measures.

Design program

With the LF-MGE Linear Motion Designer we offer a professional planning tool for the quick and easy design of linear guides.

LF-MGE	No.
	3 842 540 900

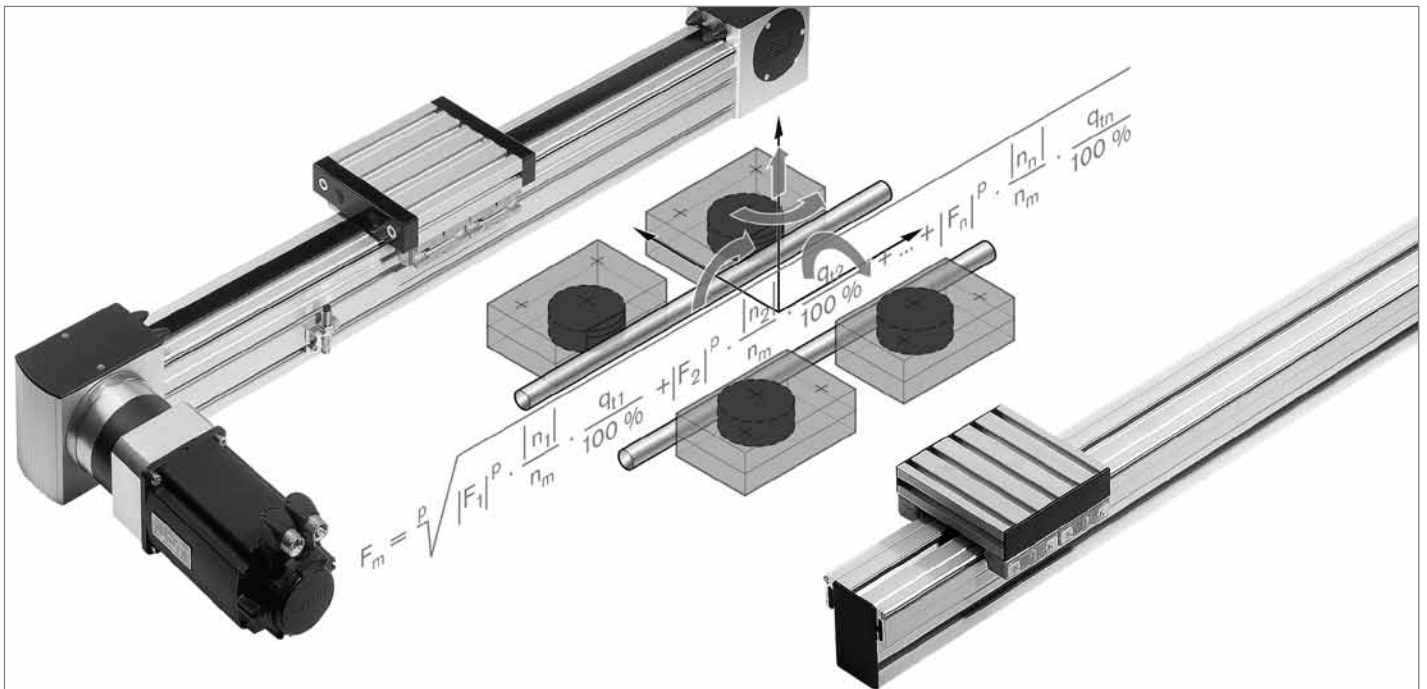
Performance characteristics

- ▶ Calculation of the service life of the individual guide bearings
- ▶ Combination of up to 16 guide bearings
- ▶ Dynamic movement sequence input
- ▶ Checking of the selected size
- ▶ Quick and easy design
- ▶ Clear displaying and documenting of results

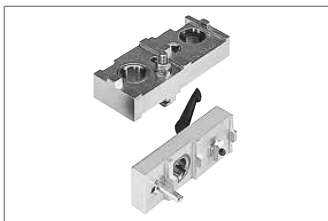
Multilingual content and graphical user interface in 5 different languages (de/en/fr/it/es). The program can be run directly from the CD without separate installation.

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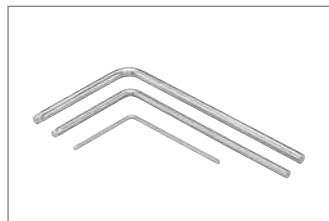
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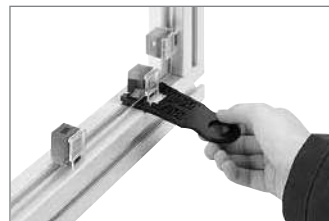
Tools



Drilling jigs (p. 14-2)



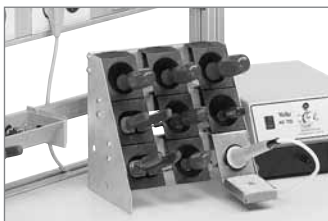
Offset screwdriver Torx®
(p. 14-6)



Variofix remover, flexible
grinder for anodized
surfaces (p. 14-7)



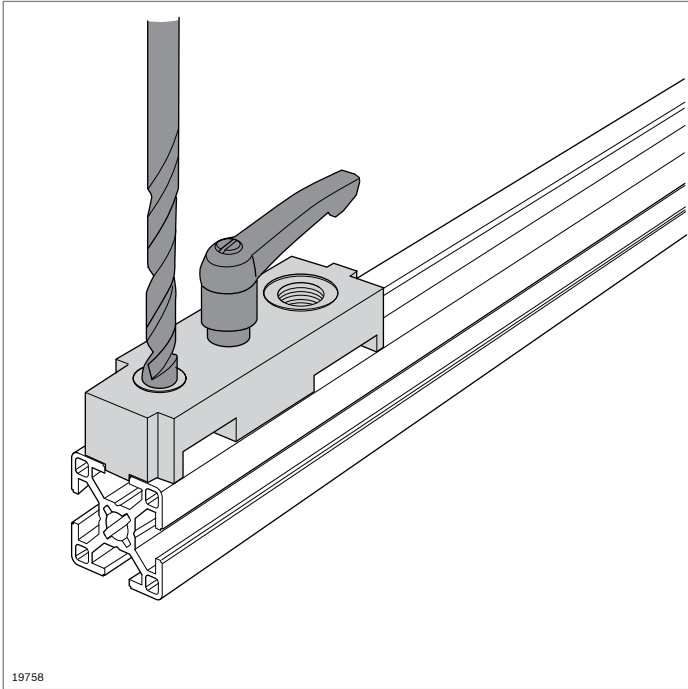
Beveling shears (p. 14-7)



Tool shelf, tool holder
(p. 14-8)

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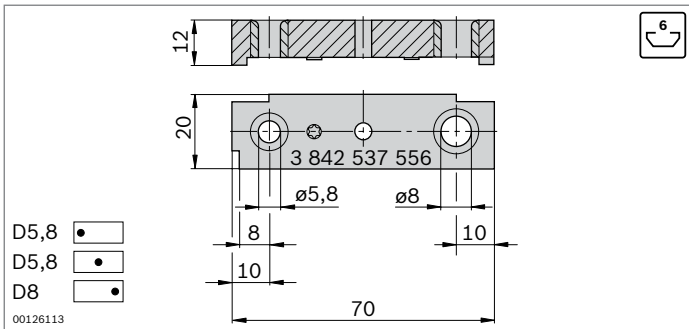


19758

Drilling jigs



- ▶ For simple drilling of standard holes for the Rexroth range of connectors
- ▶ Stopping surfaces and edges for precise hole positioning
- ▶ Lockable



D5,8

D5,8

D8

00126113

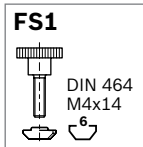
Drilling jigs – slot 6 mm

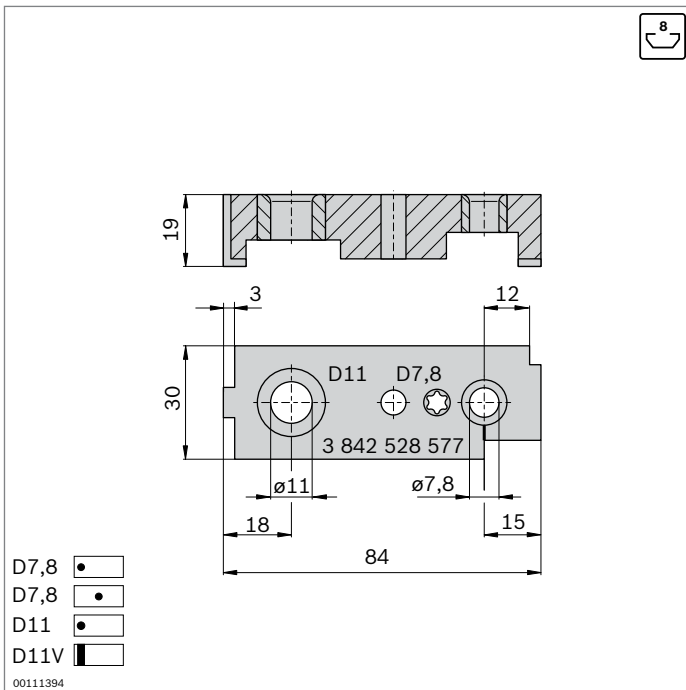
- ▶ For through-holes ($\varnothing 5.8$) for hexagonal-star socket screwdrivers T25
- ▶ For fastening holes ($\varnothing 8$) for quick connectors

Drilling jig	No.	FS
Slot 6 mm	3 842 537 556	FS1

Material: aluminum

Scope of delivery: incl. fastening material (FS)



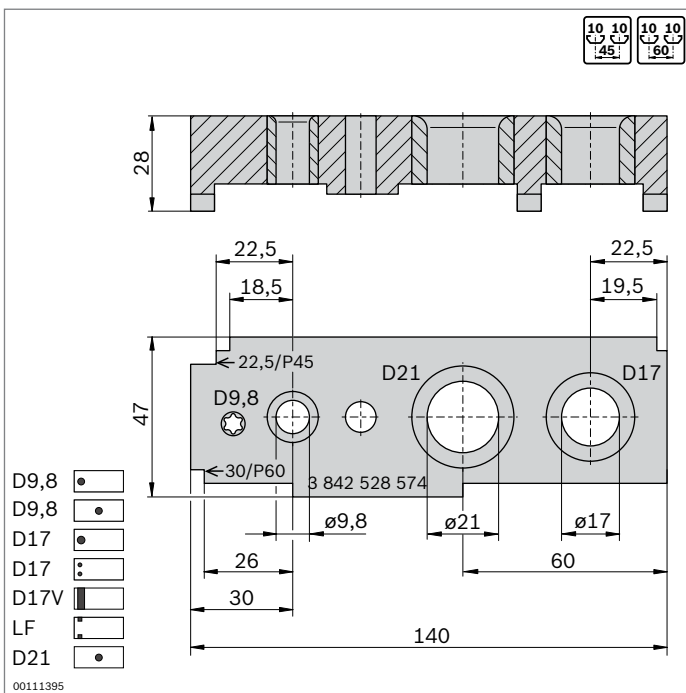
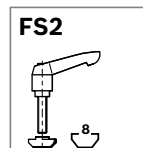


Drilling jigs – slot 8 mm

- ▶ For through-holes ($\varnothing 7.8$) for hexagonal-star socket screwdrivers T40
- ▶ For fastening holes ($\varnothing 11$) for quick connectors

Drilling jig	No.	FS
Slot 8 mm	3 842 528 577	FS2

Material: steel; galvanized
 Scope of delivery: incl. fastening material (FS)

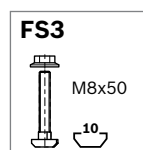


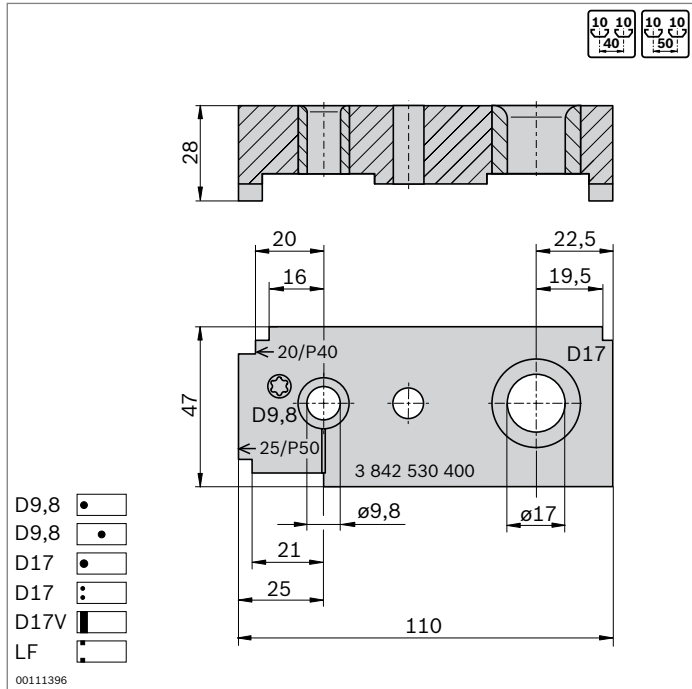
Drilling jigs – slot 10 mm, modular dimensions 45, 60

- ▶ For fastening holes ($\varnothing 17$) for bolt connectors, quick connectors, and threaded sleeves
- ▶ For through-holes ($\varnothing 9.8$) for hexagonal-star socket screwdrivers T50
- ▶ For counterbores ($\varnothing 21$) for pneumatic connections

Drilling jig	No.	FS
Slot 10 mm, modular dimensions 45, 60	3 842 528 574	FS3

Material: steel; galvanized
 Scope of delivery: incl. fastening material (FS)





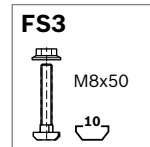
Drilling jigs – slot 10 mm, modular dimensions 40, 50

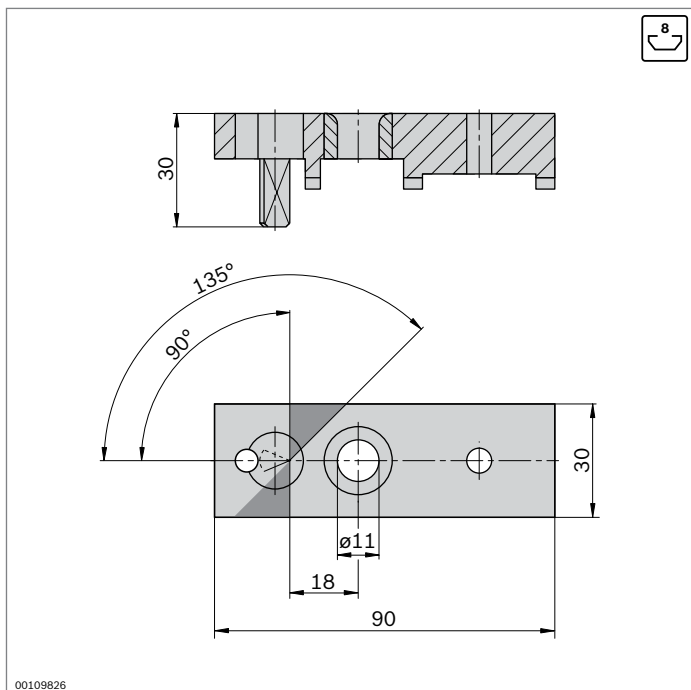
- ▶ For through-holes ($\varnothing 9.8$) for hexagonal-star socket screwdrivers T50
- ▶ For fastening holes ($\varnothing 17$) for bolt connectors, quick connectors, and threaded sleeves

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

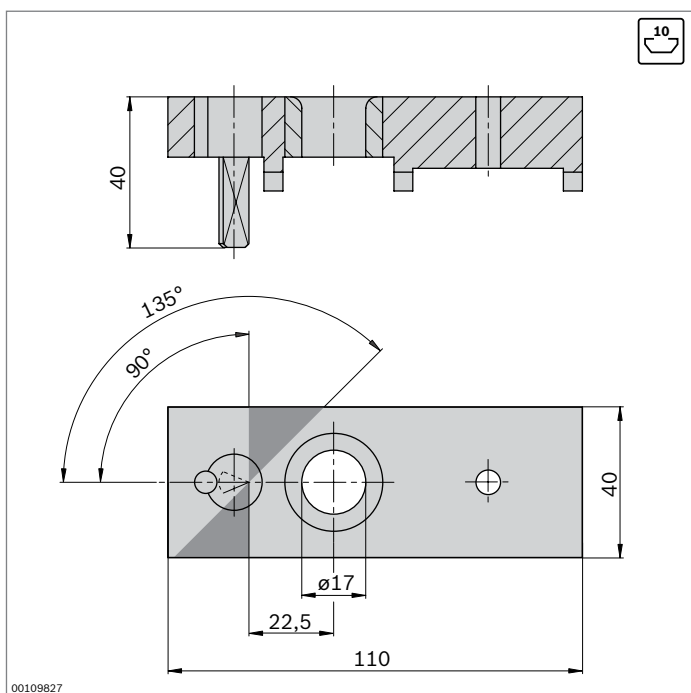
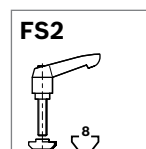
- For fastening holes ($\varnothing 11$) for bendable quick connectors

Drilling jig	No.	FS
Slot 8 mm – diagonally sawn profiles	3 842 516 729	FS2

Material: aluminum

Scope of delivery: incl. fastening material (FS)

Also see bendable quick connector (p. 3-56)



Drilling jig for diagonally sawn profiles – slot 10 mm

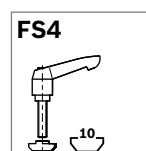
- For fastening holes ($\varnothing 17$) for bendable quick connectors

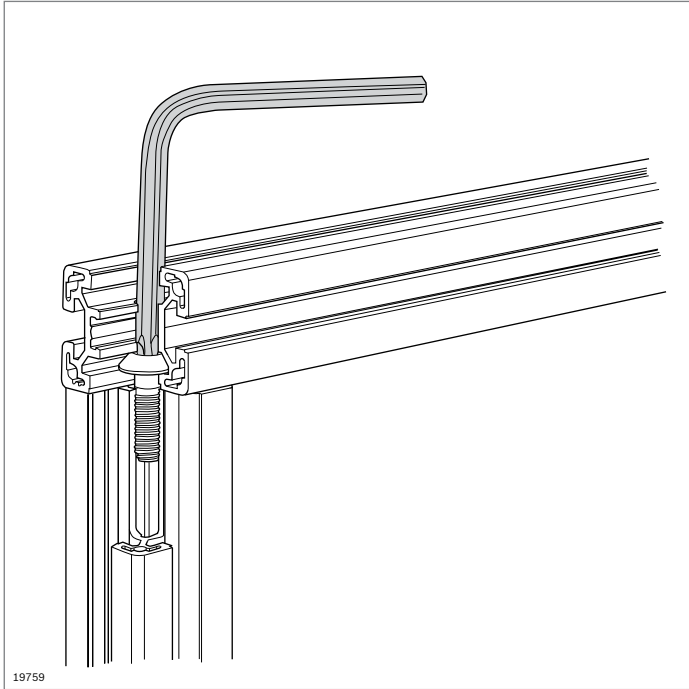
Drilling jig	No.	FS
Slot 10 mm – diagonally sawn profiles	3 842 516 731	FS4

Material: aluminum

Scope of delivery: incl. fastening material (FS)

Also see bendable quick connector (p. 3-56)

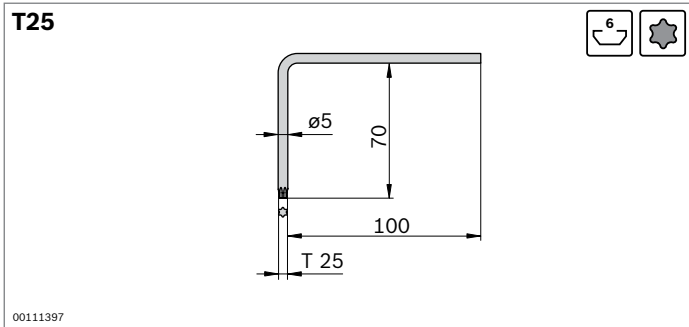




Offset screwdriver Torx®

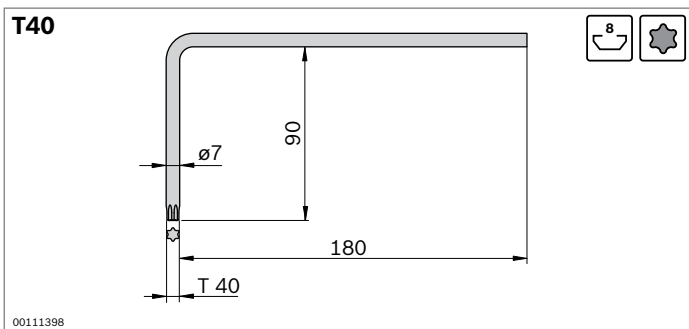


- ▶ Offset screwdriver for the central bolts (p. 3-40):
 - S6x16-**T25**
 - S8x25-**T40**
 - S12x30-**T50**, M12x30-**T50**
- ▶ Long shank for easy screw head access



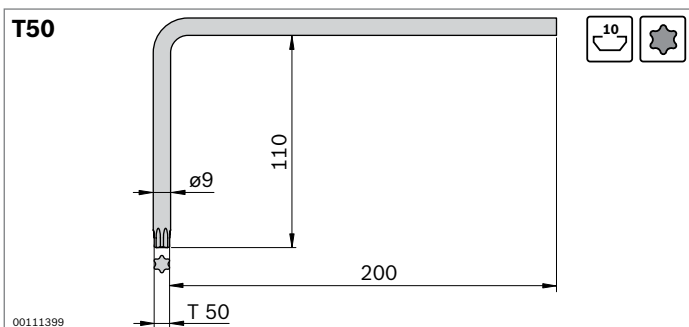
Offset screwdriver T25		No.
	5	3 842 528 590

Material: chrome vanadium steel



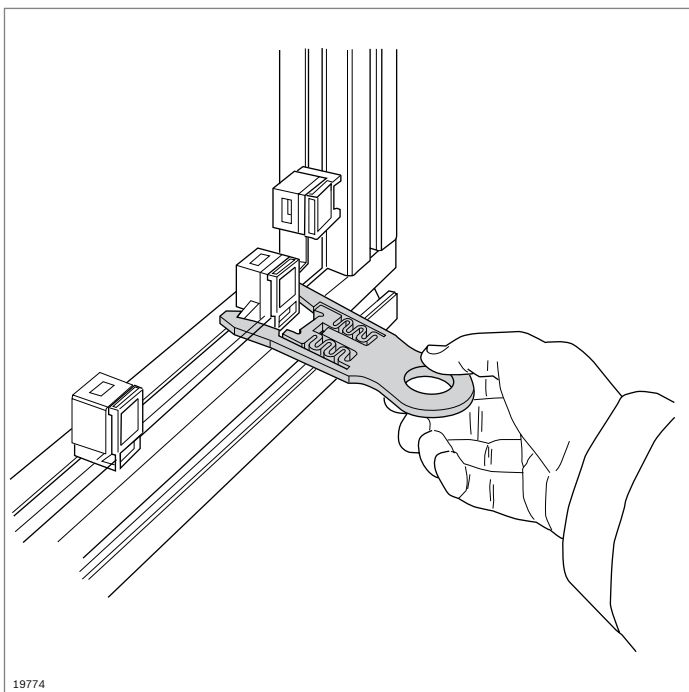
Offset screwdriver T40		No.
	5	3 842 528 588

Material: chrome vanadium steel



Offset screwdriver T50		No.
	5	3 842 528 586

Material: chrome vanadium steel



19774

Variofix remover

- ▶ For fast, easy removal of the Variofix snap-in clip (p. 7-6), even in hard-to-reach places
- ▶ The remover is pushed onto the snap-in clip of the Variofix block so that it spreads the teeth of the clip and can then be removed together with the clip

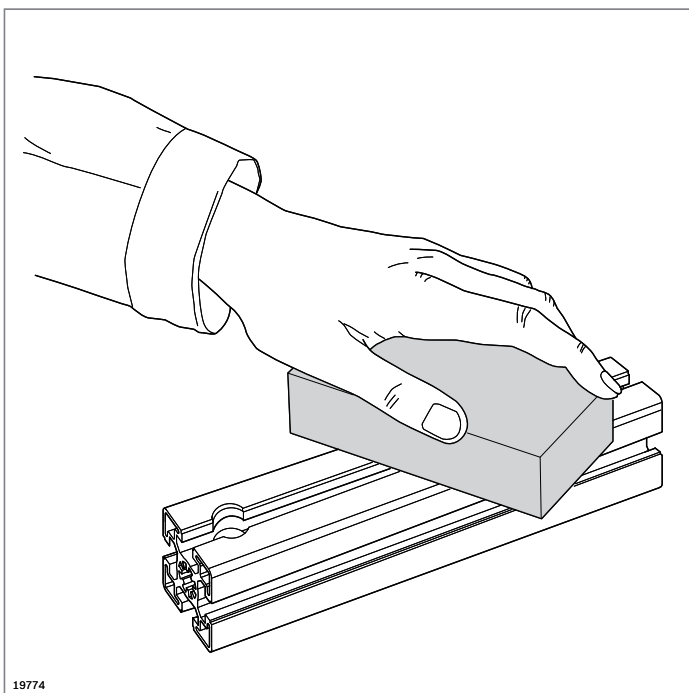
Variofix remover		No.	
Material: PA		10	3 842 526 589



No.

10 3 842 526 589

Material: PA



19774

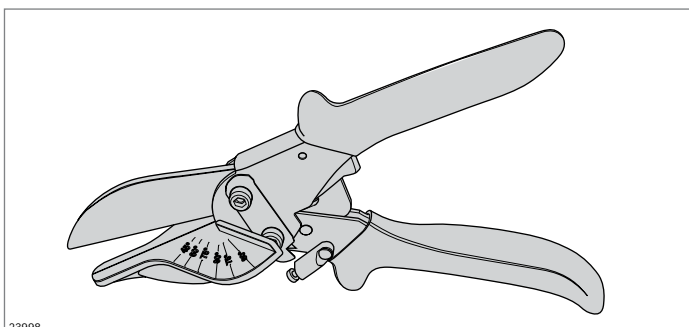
Flexible grinder for anodized surfaces

- ▶ Hand grinder for removing light soiling and minor scratches
- ▶ Handy grindstone made of flexible base material containing abrasive agents
- ▶ Long service life thanks to automatic, continual surface renewal, like an eraser
- ▶ Suitable for all natural-colored, anodized surfaces, e.g. also for aluminum windows and doors

Flexible grinder for anodized surfaces		No.	
Material: silicon carbide 60% polyurethane 40%		3 842 518 650	

No.

3 842 518 650

Material: silicon carbide 60%
polyurethane 40%

23998

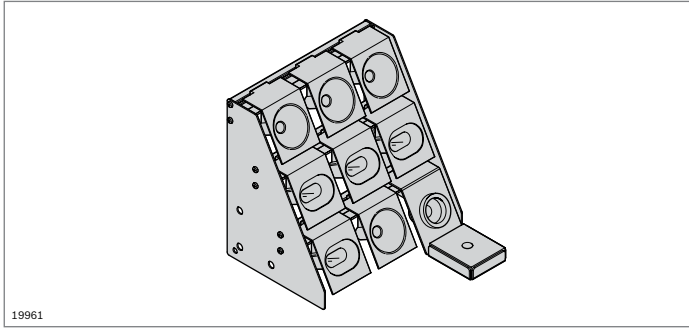
Miter cutter

- ▶ For length-trimming of polymer profiles, e.g. slot cover profiles

Miter cutter		No.	
		3 842 547 982	

No.

3 842 547 982

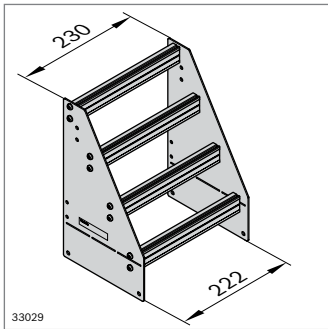


Tool shelf Tool holder



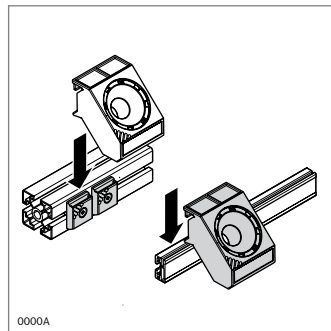
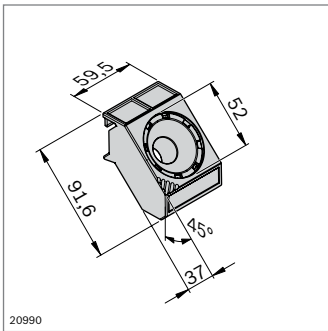
► Tool shelf and tool holder for ergonomic and handy positioning of tools at the workstation

- Tool shelf can be individually equipped
- Accessories: Container mount (p. 2-61)



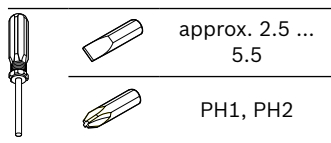
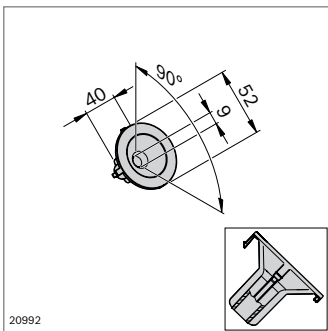
Tool shelf	ESD	No.
		3 842 554 909

Material: Side parts: Sheet aluminum
Suspension profile: aluminum, anodized

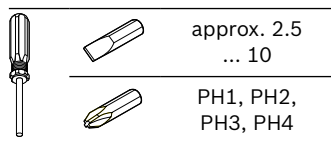
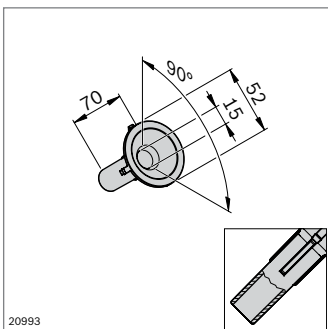


Tool holder D52 for bucket-trays D52-9 and D52-15

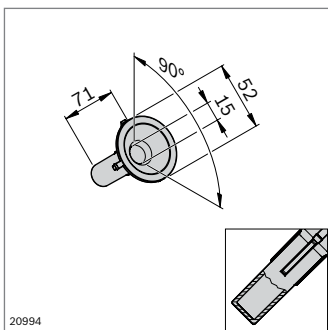
Tool holder D52	ESD	No.
		3 842 544 832



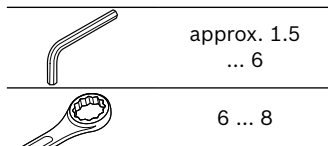
Bucket-tray D52-9 (open base)	ESD	No.
		3 842 544 834



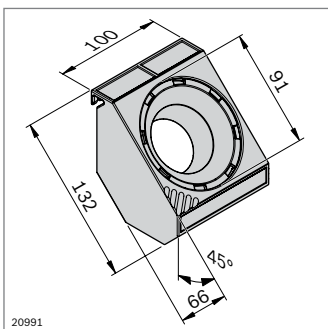
Bucket-tray D52-15 (open base)	ESD	No.
		3 842 544 835



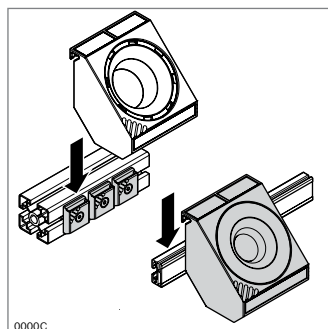
20994



Bucket-tray D52-15 (closed base)	ESD No.
	3 842 544 836



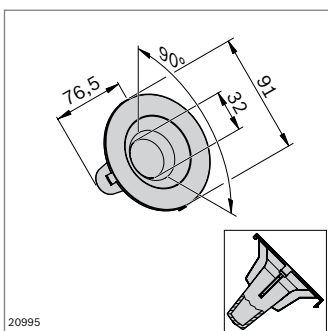
20991



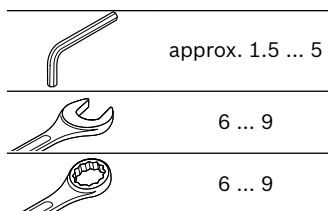
0000C

Tool holder D91 for bucket-trays D91-32, D91 Oval53 L100 and D91 Oval53 L136

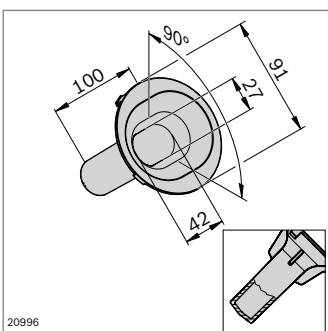
Tool holder D91	ESD No.
	3 842 544 833



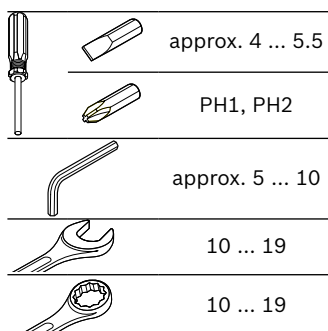
20995



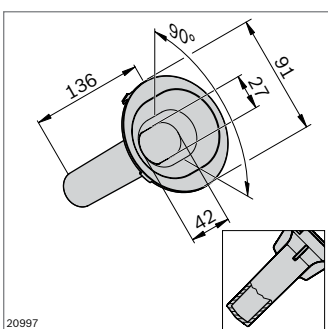
Bucket-tray D91-32 (closed base)	ESD No.
	3 842 544 837



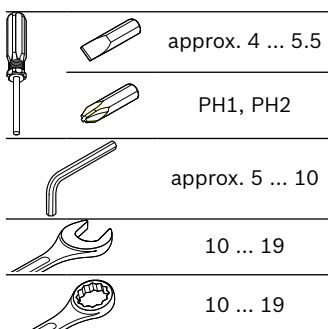
20996



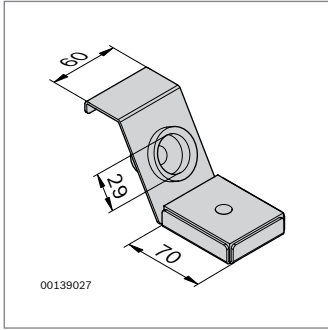
Bucket-tray D91 Oval53 L100 (closed base)	ESD No.
	3 842 546 744




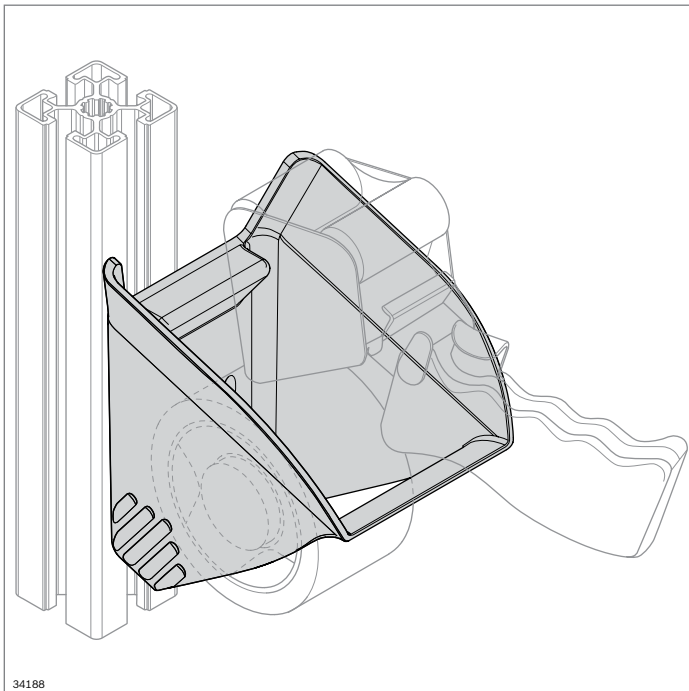
20997



Bucket-tray D91 Oval53 L136 (closed base)	ESD No.
	3 842 546 745



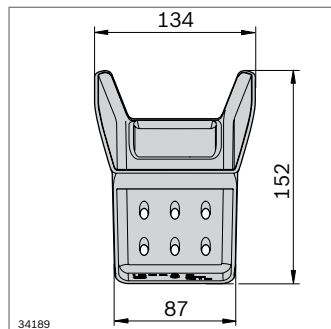
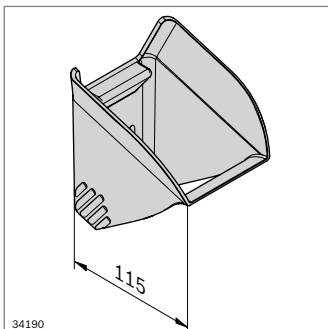
Tool holder for soldering irons	ESD No.
	 3 842 514 524




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: Includes 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)

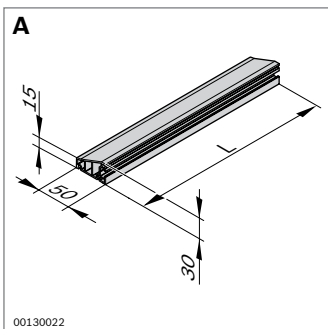


FiFo station

- ▶ 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



00130024

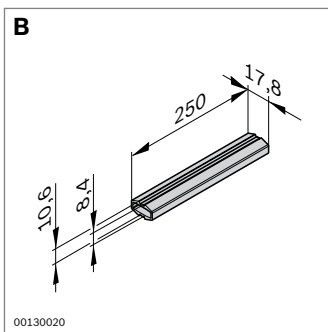


00130022

- ▶ Adhesive strips for fastening to floor
- ▶ Screw fitting to floor possible at end caps

Guide rail	L (mm)	No.	No.
A	1200	10	3 842 540 012
	2400	10	3 842 539 894

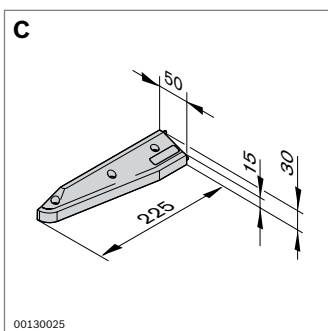
Material: PVC, yellow



- ▶ For the parallel connection of guide rails, or a guide rail with a 30x30 profile

Adapter		No.
B	20	3 842 539 898

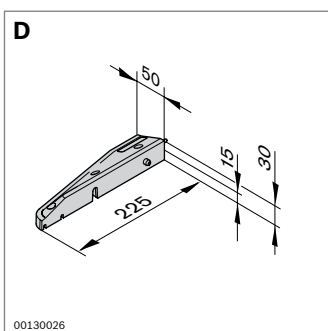
Material: PP



- ▶ For use as a jointing aid and for fastening the guide rails to the floor

Right-hand end cap, small		No.
C	10	3 842 539 895

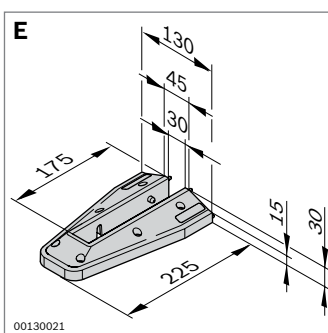
Material: PA 6; black



- ▶ For use as a jointing aid and for fastening the guide rails to the floor

Left-hand end cap, small		No.
D	10	3 842 539 896

Material: PA 6; black



- ▶ For installing a 30x30 profile between two guide rails
- ▶ The 30x30 profile can be used to construct flow rack systems, information boards, and height limits. Since the guide rails are flat-sided, setup can be done using a wide profile (40, 45, 50)

Required accessories:

- ▶ Profile 30x30 (p. 2-17)

End cap, large		No.
E	10	3 842 539 897

Material: PA 6; black

Components for lateral guides



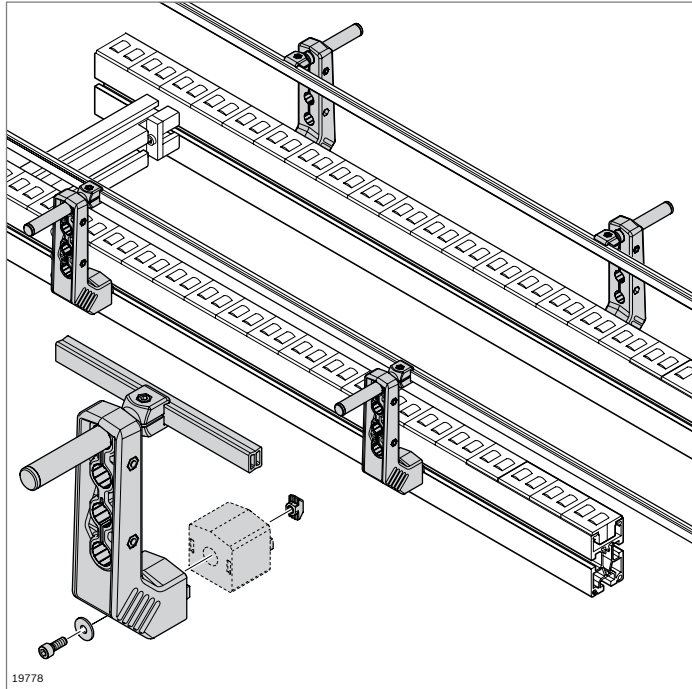
Profile rails, slide rails
(p. 16-3)



Holder, fixed (p. 16-6)



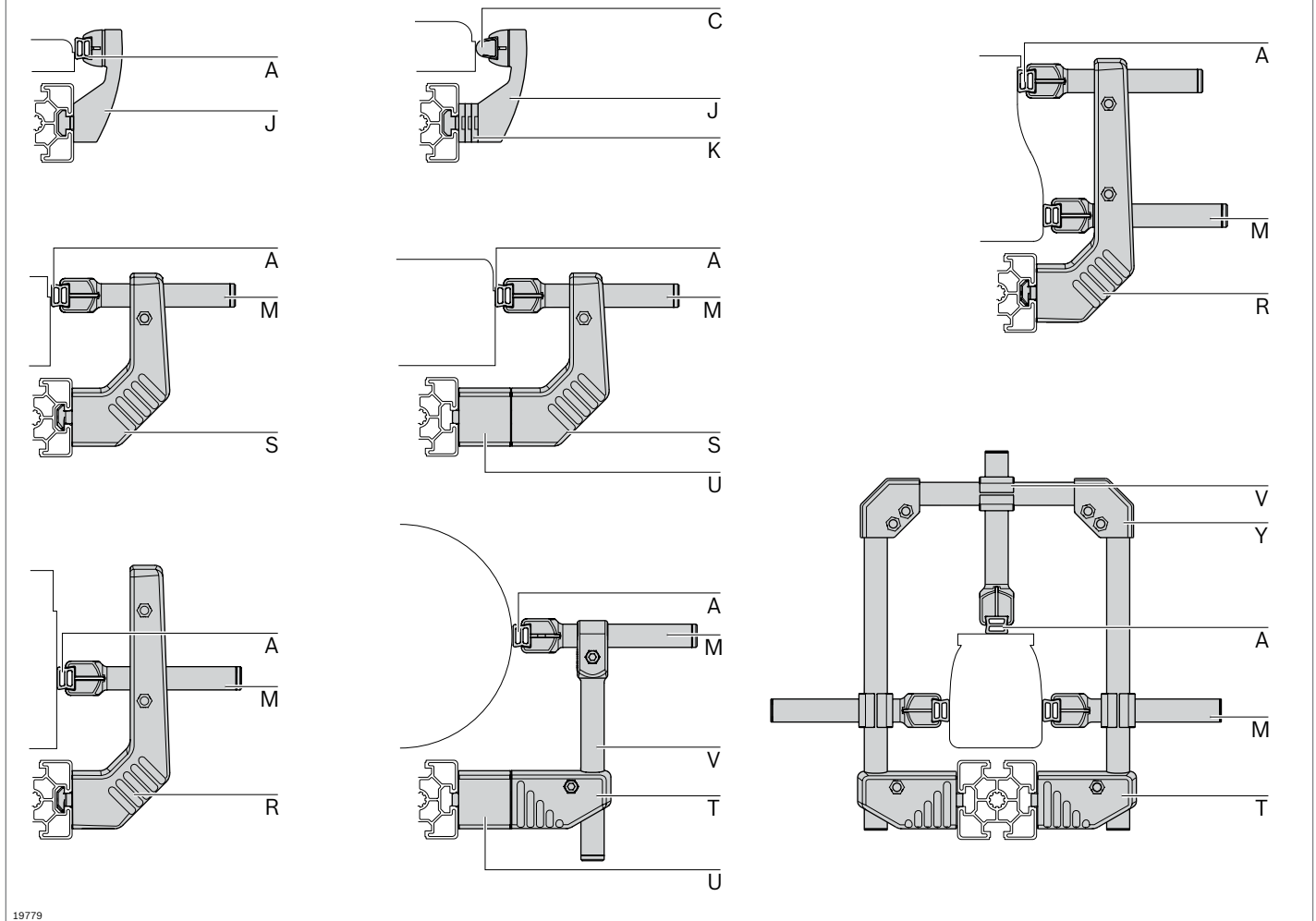
Holder, variable (p. 16-8)

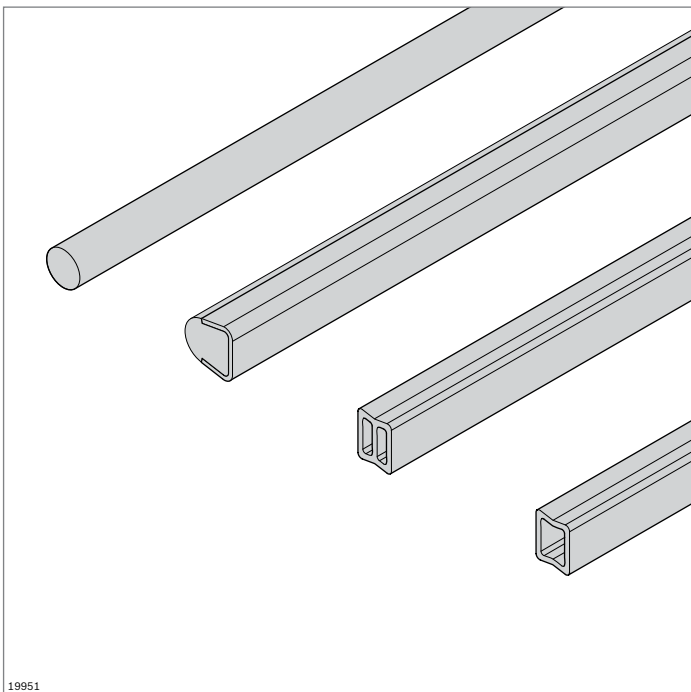


Components for lateral guides

- ▶ Wide variety of profile rail and holder combinations for individual solutions
- ▶ Easy to clean
- ▶ Sturdy
- ▶ Only one tool required for adjustment
- ▶ 10 mm slot interface

Mounting variants

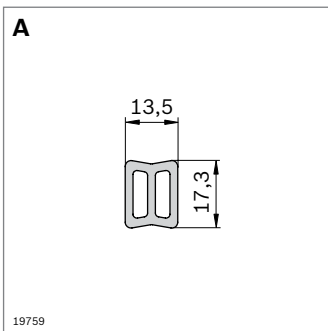




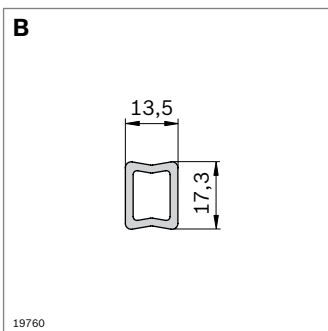
19951

Profile rails for lateral guides

- ▶ Sectional rails for lateral guiding of the transported material
- ▶ Suitable for fixed lateral guide holders (p. 16-6), and variable lateral guide holders (p. 16-8)
- ▶ Various materials and geometries for different applications



19759



19760

- ▶ Aluminum profile rail for robust lateral guides

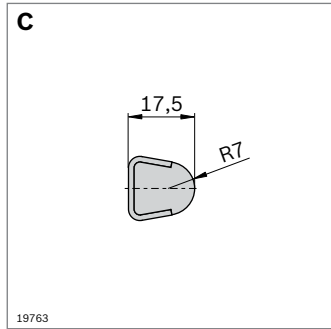
Aluminum profile rail		L (mm)	No.
1 pcs		200 ... 3000	3 842 993 887 / L
20 pcs		3000	3 842 538 829

Material: aluminum; natural, anodized
 Accessories: narrow slide rail (E); high slide rail (F); outer profile connector (G); inner profile connector (H); cover cap (I); clamping holder C L100 (M); holder (J); clamping head (L); clamping head (O)

- ▶ HDPE profile rail for light applications
- ▶ Bendable

HDPE profile rail		L (mm)	No.
1 pcs		3000	3 842 538 388

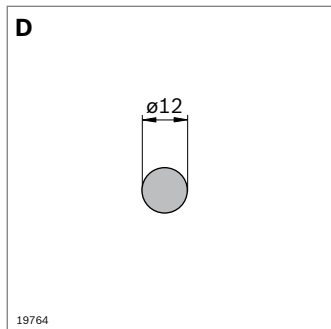
Material: HDPE; gray
 Accessories: narrow slide rail (E); high slide rail (F); outer profile connector (G); inner profile connector (H); cover cap (I); clamping holder C L100 (M); holder (J); clamping head (L); clamping head (O)



- ▶ Profile rail 17x17.5 in robust stainless steel version with PE guide for gentle product handling

Profile rail 17x17.5		L (mm)	No.
1 pcs		200 ... 3000	3 842 994 863 / L
20 pcs		3000	3 842 529 850

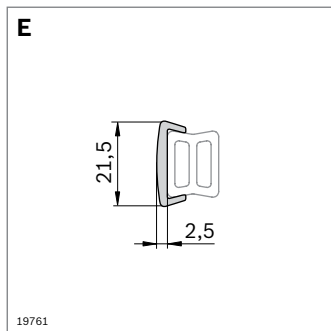
Material: steel, non-rusting / PE, natural
 Accessories: outer profile connector (**G**); clamping holder C L100 (**M**); holder (**J**); clamping head (**L**); clamping head (**O**)



- ▶ Profile rail D12 in robust stainless steel version

D12 profile rail		L (mm)	No.
1 pcs		200 ... 3000	3 842 993 306 / L
6 pcs		3000	3 842 533 841

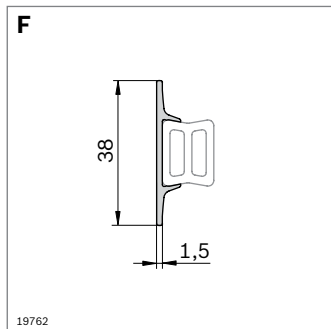
Material: Steel; stainless
 Accessories: clamping holder D12 L100 (**N**)



- ▶ 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.
	3000		3 842 538 209
	3000		3 842 539 340

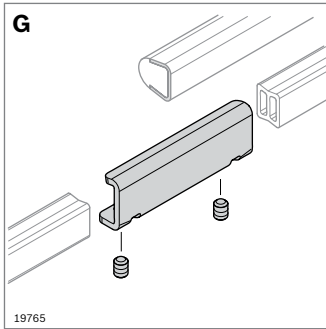
Material: HDPE; gray
 ESD: PE-UHMW, conductive, black




- ▶ 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.
	3000	3 842 538 389

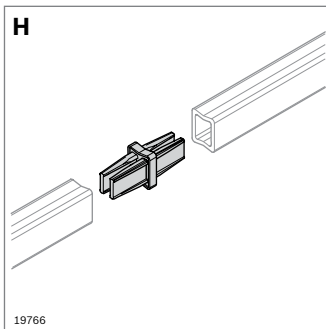
Material: HDPE; gray




- ▶ Outer profile connector for aluminum profile rails **(A)**, HDPE profile rail **(B)**, 17x17.5 profile rail **(C)**

External profile connector		No.
	10	3 842 539 613

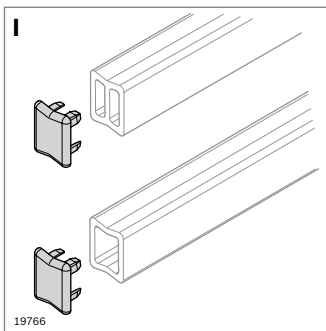
Material: Steel; stainless
 Scope of delivery: Incl. 2 x headless setscrews




- ▶ Inner profile connector for profile rail in aluminum **(A)**, HDPE **(B)**

Inner profile connector		No.
	10	3 842 539 345

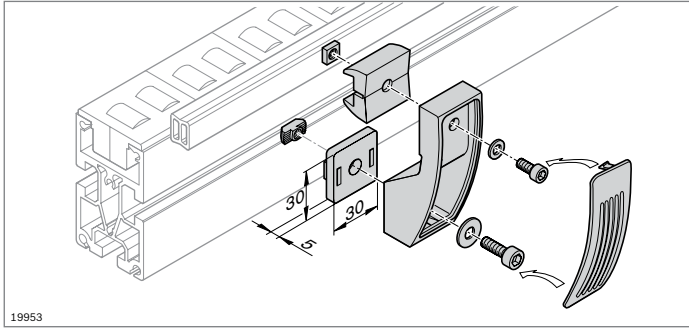
Material: PA; black, conductive



- ▶ Cap for aluminum **(A)** profile rail, HDPE **(B)** profile rail

Cover cap		No.
	10	3 842 538 208

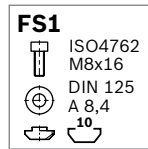
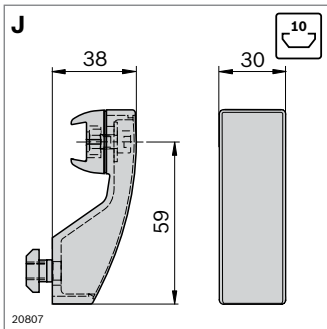
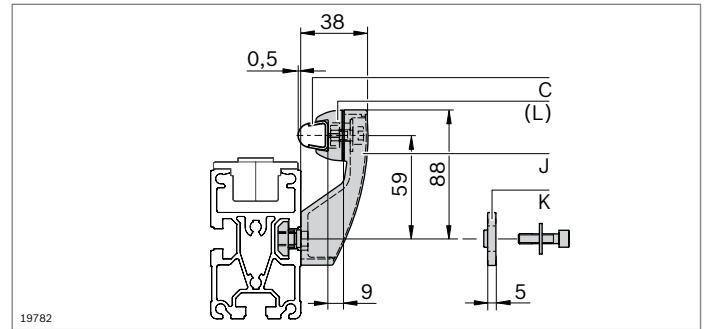
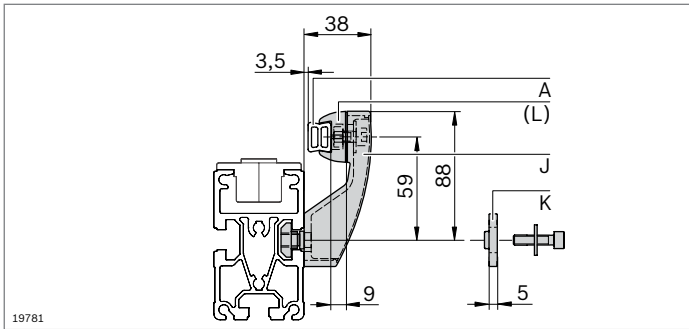
Material: PA; black, conductive



Holder for lateral guide, fixed



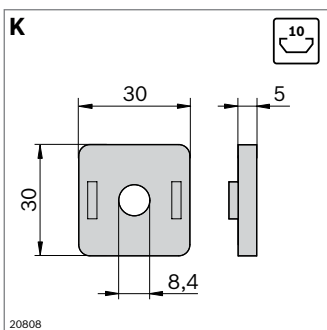
- Holders for lateral guides with fixed installation height and fixed guide width



- Holder, fixed, for aluminum profile rail (A), HDPE profile rail (B) and 17x17.5 profile rail (C)
- For fixed guide width
- Spacer plate (K) for guide width enlargement

Holder, fixed	No.	FS
Set	3 842 527 851	FS1

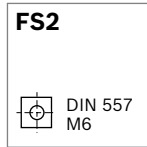
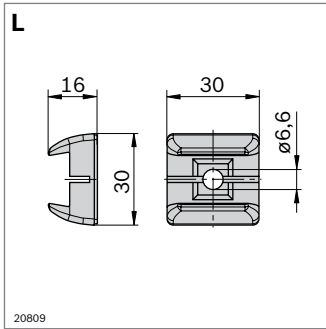
Material: PA; black
Fastening material: steel; galvanized
Scope of delivery: Incl. clamping head, fastening material (FS)




- Spacer plate for holders, fixed, for guide width enlargement

Spacer plate	No.
	10 3 842 527 738

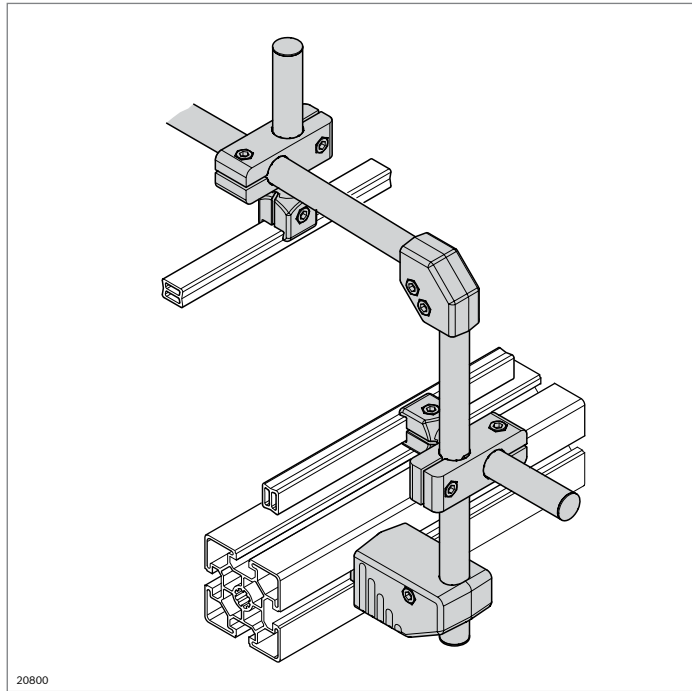
Material: PA; black



- Clamping head for on-site construction of supports for protruding transported material

Clamping head		No.	FS
Set	10	3 842 536 295	FS2

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

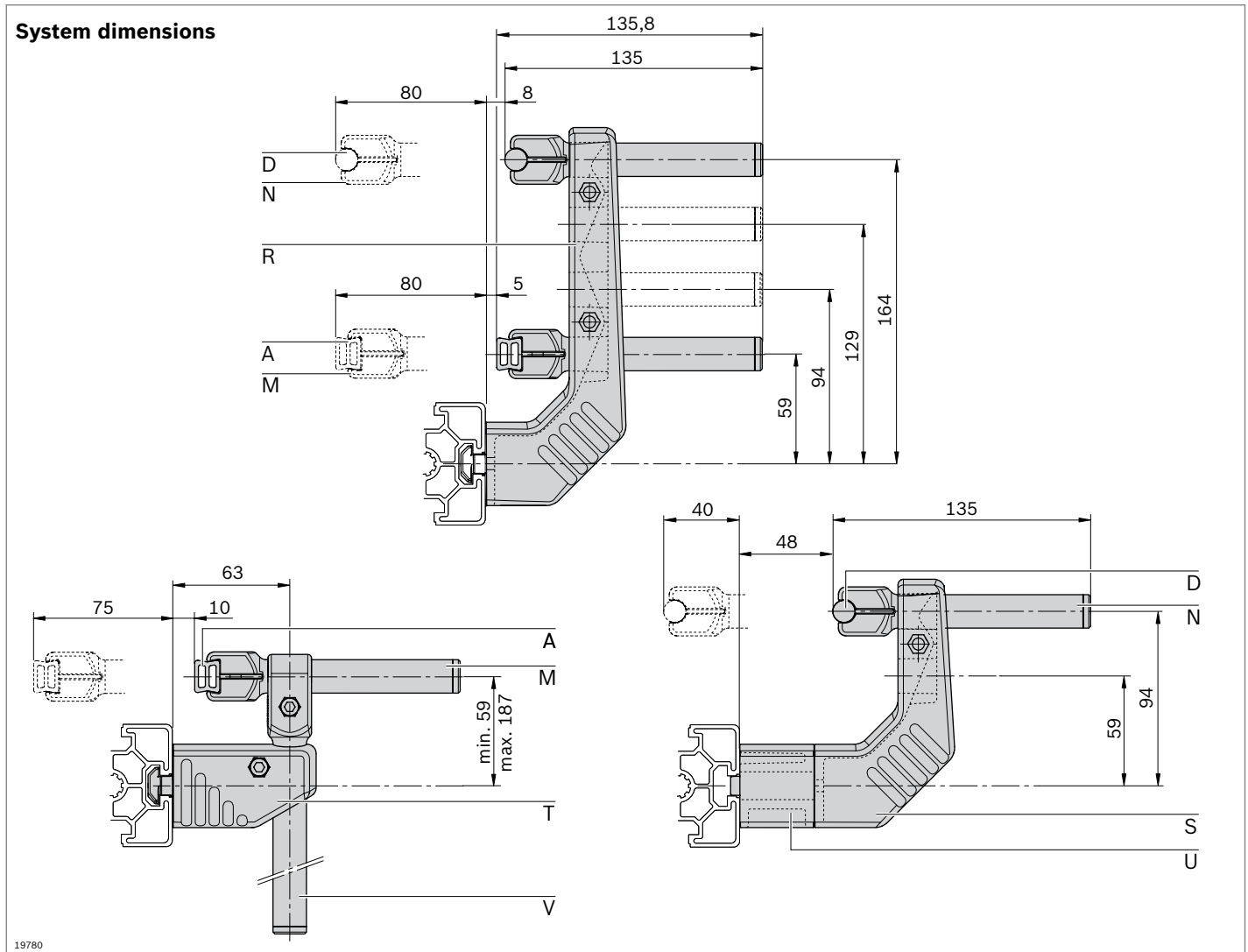


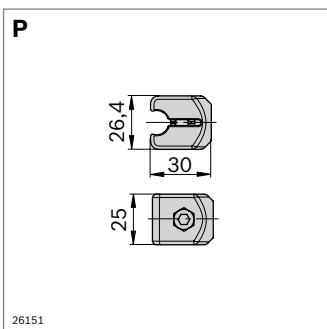
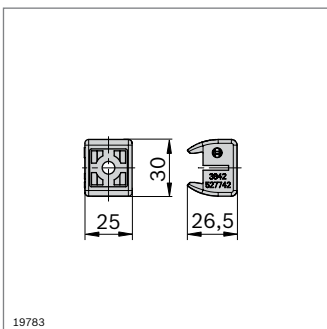
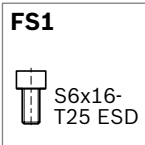
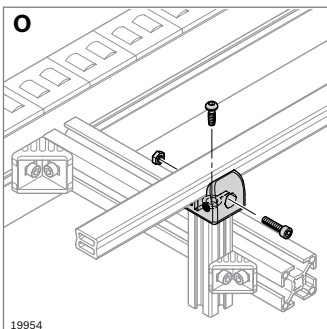
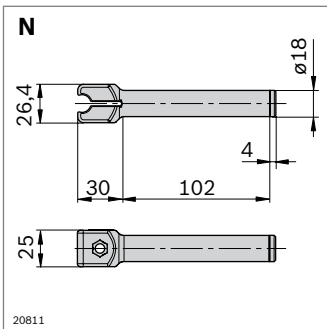
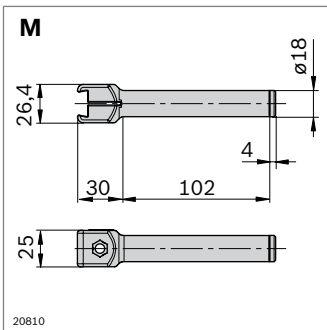
Holder for lateral guide, flexible



- ▶ Holders and clamping holders make variable adjustment of the guide height and width possible
- ▶ Easy to clean

Note: For stability in the direction of rotation, at least 2 holders must be connected with a continuous profile rail.





- ▶ Clamping holder C L100 for supporting aluminum (A), HDPE (B) or 17x17.5 (C) profile rails
- ▶ Scaling in mm and inches for simple alignment

Clamping holder C L100	No.
10	3 842 539 499

Material: Clamping holder: PA; black
Nut, bolt: Steel; stainless
Accessories: Plug (X)

- ▶ Clamping holder D12 for supporting profile rails D12 (D)
- ▶ Scaling in mm and inches for simple alignment

Clamping holder D12 L100	No.
10	3 842 539 498

Material: Clamping holder: PA; black
Nut, bolt: Steel; stainless
Accessories: Plug (Z)

- ▶ Clamping head for supporting aluminum (A), HDPE (B) profile rails, or stainless steel profile rails with PE guide (C)
- ▶ Direct mounting on profiles with 10 mm slot

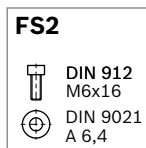
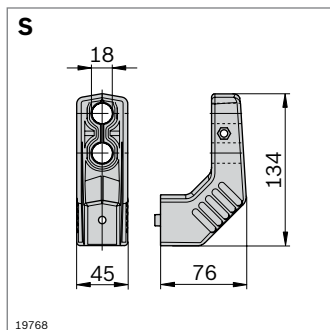
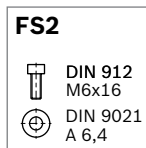
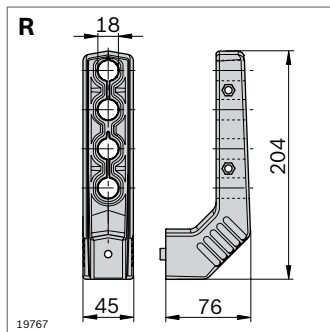
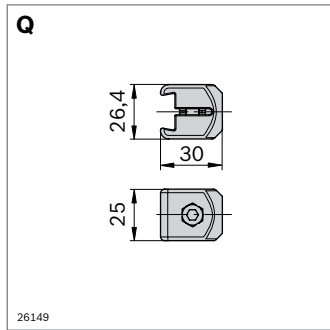
Clamping head	No.	FS
Set	10	3 842 528 009 FS1

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

- ▶ Clamping holder D12 for supporting profile rails D12 (D)
- ▶ In conjunction with tube 18 (W) to build longer clamping holders

Clamping holder D12	No.
P	10 3 842 547 227

Material: Clamping holder: PA; black
Nut, bolt: Steel; stainless
Accessories: Plug (Z), tube D18 (W)



- ▶ Clamping holder C for supporting aluminum **(A)**, HDPE **(B)** or 17x17.5 **(C)** profile rails
- ▶ In conjunction with tube D18 **(W)** for constructing longer clamping holders

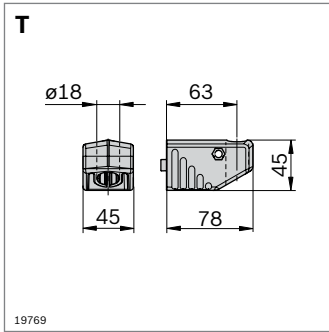
Clamping holder C		No.
N	10	3 842 547 228
Material:	Clamping holder: PA; black Nut, bolt: Steel; stainless	
Accessories:	Plug (Z) , tube D18 (W)	

- ▶ Holder for fastening clamping holders C L100 **(M)** or D12 L100 **(N)**
- ▶ Various installation heights possible for clamping holders
- ▶ Variable guide widths possible
- ▶ Spacer **(U)** for added enlargement of guide width
- ▶ Optional accessories: Clamping lever M6x40 (p. 4-11)


Holder L204	No.	FS
Set	3 842 539 494	FS2
Material:	PA, black Fastening material: Steel; stainless	
Scope of delivery:	incl. fastening material (FS)	
Accessories:	T-nut M6, 10 mm slot (p. 3-4) Spacer (U)	

- ▶ Holder for fastening clamping holders C L100 **(M)** or D12 L100 **(N)**
- ▶ Various installation heights possible for clamping holders
- ▶ Variable guide widths possible
- ▶ Spacer **(U)** for added enlargement of guide width
- ▶ Optional accessories: Clamping lever M6x40 (p. 4-11)

Holder L134	No.	FS
Set	3 842 539 495	FS2
Material:	PA; black Fastening material: Steel; stainless	
Scope of delivery:	incl. fastening material (FS)	
Accessories:	T-nut M6, 10 mm slot (p. 3-4) Spacer (U)	




FS2

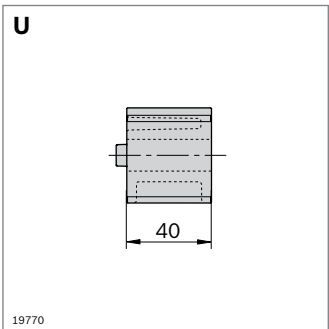
 DIN 912
M6x16

 DIN 9021
A 6,4


- ▶ Holder L45 for fastening vertical clamping holders or tube D18 (**W**)
- ▶ For infinitely height-adjustable lateral guides
- ▶ Spacer (**U**) for enlargement of guide width
- ▶ Optional accessories: Clamping lever M6x40 (p. 4-11)


Holder L45		No.	FS
Set	10	3 842 539 496	FS2


Material: PA; black
Fastening material: Steel; stainless
Scope of delivery: incl. fastening material (FS)
Accessories: T-nut M6, 10 mm slot (p. 3-4)
Spacer (**U**)



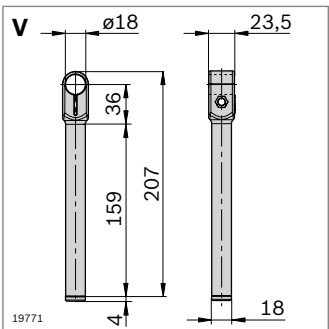
FS3

 DIN 912
M6x55


 DIN 9021
-A6,4

Spacer		No.	FS
Set	10	3 842 539 497	FS3

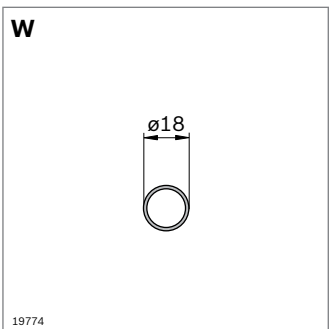
Material: PA; black
Fastening material: Steel; stainless
Scope of delivery: incl. fastening material (FS)



- ▶ Vertical clamping head for constructing height-adjustable guides
- ▶ Optional accessories: Clamping lever M6x40 (p. 4-11)

Vertical clamping holder D18 L160		No.
	10	3 842 539 500

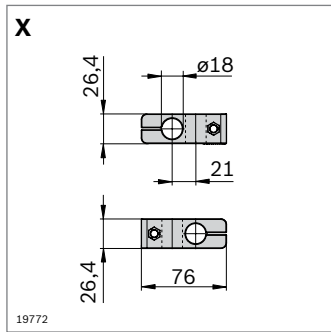
Material: PA; black
Nut, screw: Steel; stainless
Accessories: Plug (**Z**)




- ▶ Tube D18 for the construction of height-adjustable vertical holders or cross members for upper guides

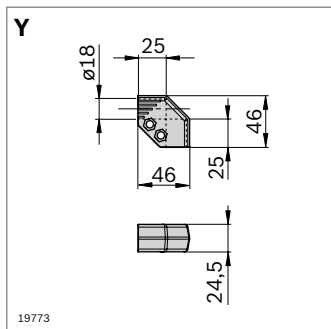
Tube D18	L (mm)	No.
	3000	3 842 539 339

Material: Stainless steel
Accessories: Plug (**Z**)




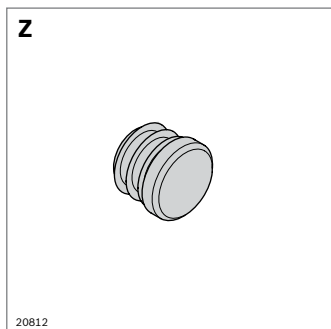
- ▶ Crosspiece for intersecting, perpendicular connections of tubes D18 (**W**) and clamping holders C L100 (**M**) or D12 L100 (**N**)
- ▶ Optional accessories: Clamping lever M6x40 (p. 4-11)

Crosspiece		No.
	10	3 842 539 501
Material:	Cross piece: PA; black Nut, screw: Steel; stainless	




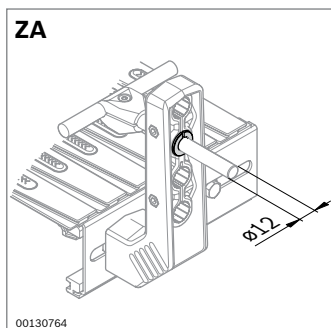
- ▶ Corner piece for end-to-end, perpendicular connections of tubes D18 (**W**) and clamping holders C L100 (**M**) or D12 L100 (**N**)

Corner piece		No.
	10	3 842 539 505
Material:	Corner piece: PA; black Nut, screw: Steel; stainless	




- ▶ Plug for sealing clamping holder C L100, (**M**), clamping holder D12 L100 (**N**), vertical clamping holder D18 L160 (**V**) or tube D18 (**W**)

Plug		No.
	10	3 842 539 826
Material:	PA; black	



- ▶ Reducing adapter for accommodating round profiles ø 12 in D18 mountings

Reduction piece		No.
	20	3 842 539 344
Material:	PA; black	

Components for ESD applications



Set of grounding components (p. 17-2)



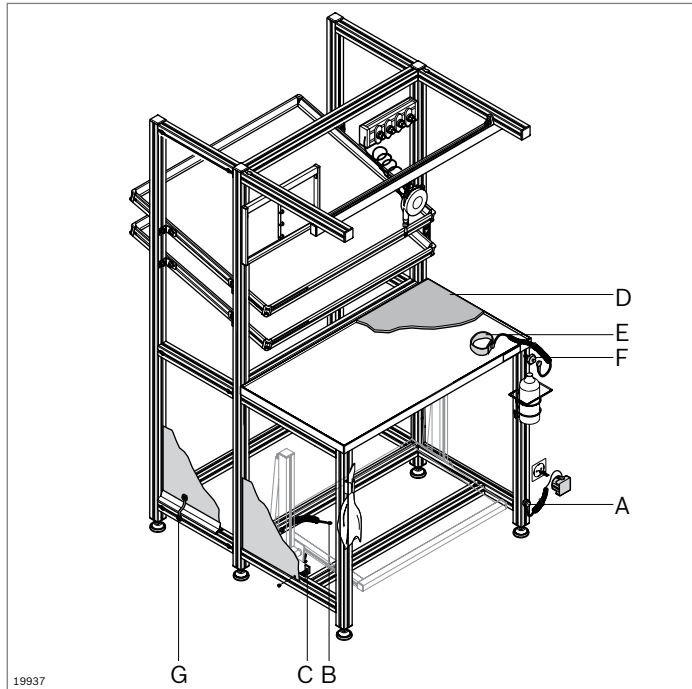
Grounding cable (p. 17-2)



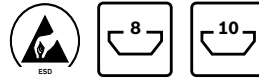
Potential fix (p. 17-3)



Wrist band, connection piece (p. 17-3)



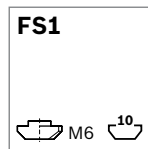
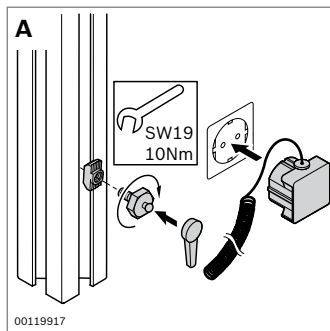
Components for ESD applications



ESD – Electro Static Discharge

Components which, due to their electrical properties and inner structure, are damaged or destroyed by static discharge also cause economic losses running into millions of euros each year.

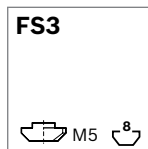
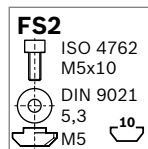
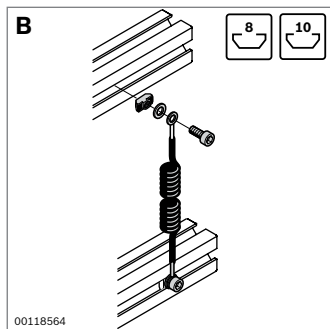
You can use Rexroth components for ESD applications to protect your products from this type of damage. Look for the ESD mark when selecting products (⚡).



- ▶ Set of grounding components for defined grounding of ESD workstations
- ▶ Conduction resistance $R_A = 1 \times 10^6 \Omega$ (DIN EN 61340-5-1)

Accessories:

Damping ring or damping plate for insulation from conductive floors makes defined conduction possible (p. 6-4, 6-6)



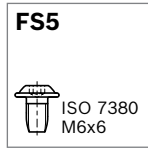
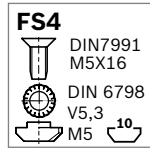
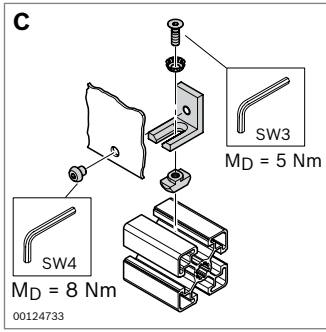
- ▶ Grounding cable to create defined conductive paths between strut profiles in order to protect ESD-sensitive components

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	ESD No.	FS
B	⚡ 3 842 519 465	2xFS2, FS3

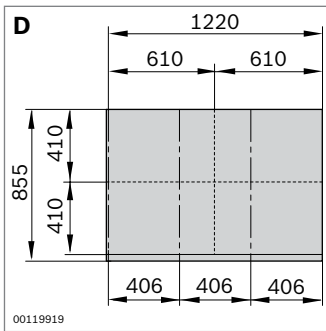
Material: Fastening material: steel; galvanized
Scope of delivery: incl. fastening material (FS)



- ▶ Potential fix for defined grounding of surface elements such as side panels

Potentialfix	ESD	No.	FS
C		3 842 536 320	FS4, FS5

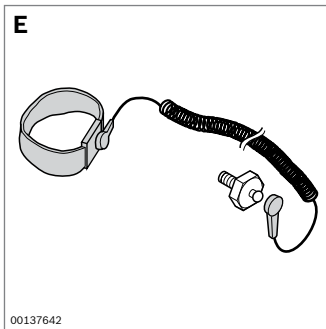
Material: Bracket: aluminum
Fastening material: steel; galvanized
Scope of delivery: incl. fastening material (FS)



- ▶ ESD mat insert for protecting ESD-sensitive components
- ▶ To create a safe, conductive connection, e.g. to ESD material shelves, we recommend using adhesive copper tape
- ▶ Conduction resistance $R_A = 1 \times 10^6 - 1 \times 10^9 \Omega$ according to DIN EN 61340-5-1

ESD mat insert	ESD	No.
D 1220 mm x 855 mm		3 842 522 012

Material: rubber (thickness: 2 mm)



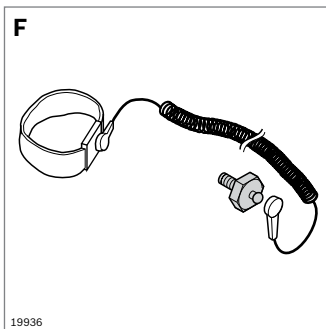
- ▶ Wrist band for defined grounding of people and protection of ESD-sensitive components

Required accessories:

- ▶ connection piece
- ▶ T-nut M6, or sliding block, swivel-in with spring, M6

Wrist band	ESD	No.
E		3 842 516 908

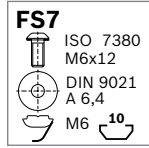
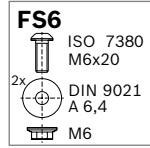
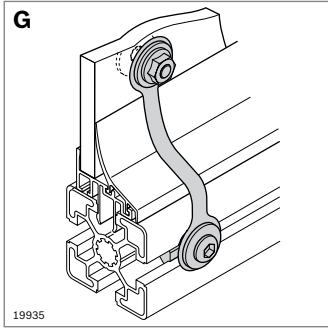
Material: Textile with woven-in conductive plastic, navy blue



- ▶ Connection piece for connecting the wrist band to the profile construction

Connection piece	ESD	No.
F		10 3 842 516 905

Material: steel; galvanized



- Potential equalizer for creating electrostatic conduction between surface elements and strut profiles

Potential equalizer	ESD	No.	FS
G		10	3 842 536 148 FS6, FS7

Material: strip steel, non-rusting fastening material: steel; galvanized

Scope of delivery: incl. fastening material (FS)

Sensors and switch brackets



SH 1/S (p. 18-2)



SH 1/U (p. 18-3)



SH 2/S, SH 2/ST (p. 18-4)



SH 2/S-H (p. 18-5)



SH 2/U (p. 18-7)



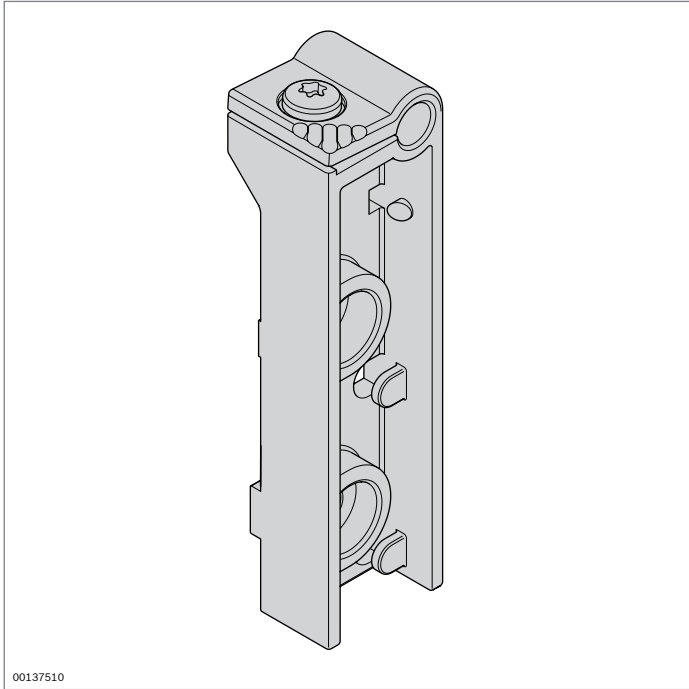
SH 2/U-H (p. 18-7)



Sensor (p. 18-8)



Stop (p. 18-10)

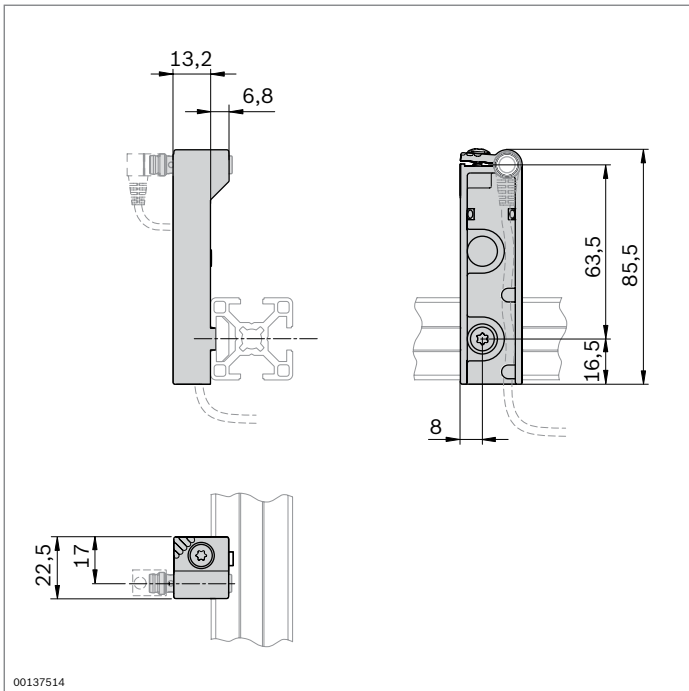


SH 1/S switch bracket



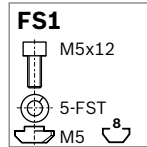
► For fastening a sensor Ø6.5 mm

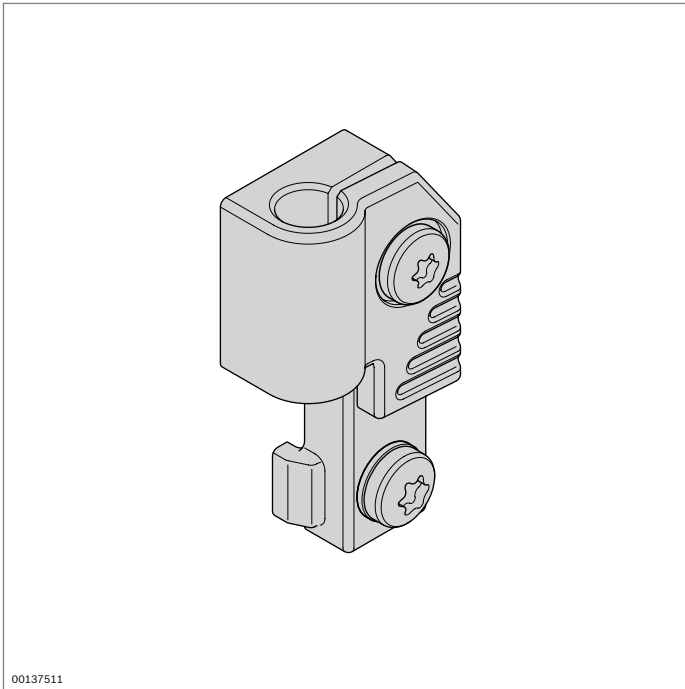
Required accessories:
Sensor Ø6.5mm (p. 18-8)



Switch bracket	ESD No.	FS
SH 1/S	3 842 542 556	FS1

Material: SH 1/S: PE 6.6, black
Fastening material: steel; galvanized
Scope of delivery: incl. fastening material (FS)





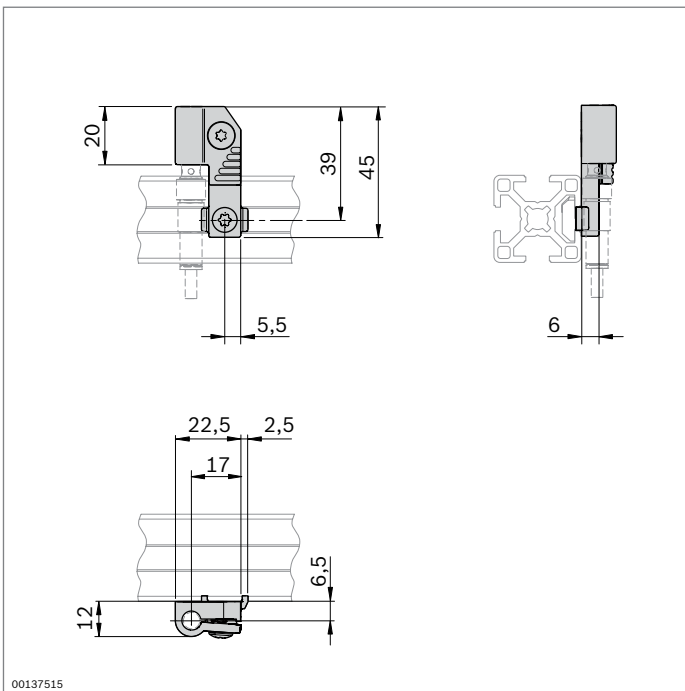
SH 1/U switch bracket



► For fastening a sensor Ø6.5 mm

Required accessories:

Sensor Ø6.5 mm (p. 18-8)



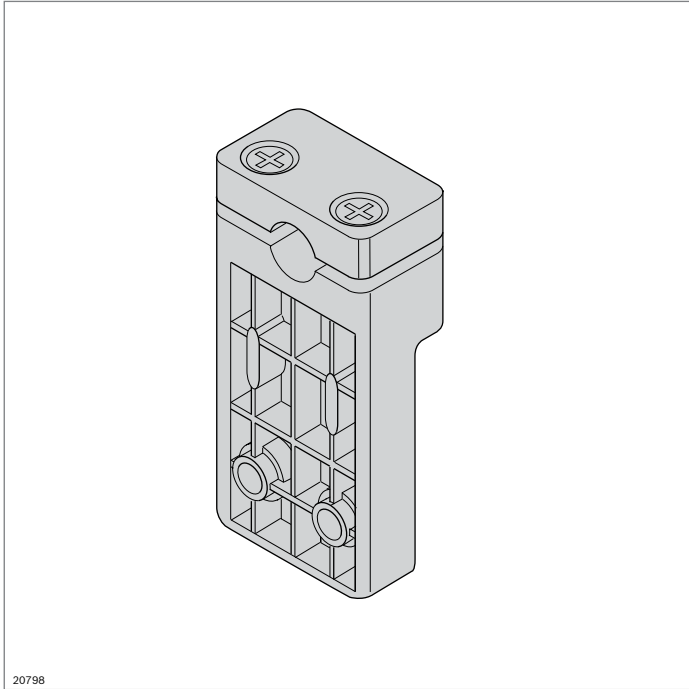
Switch bracket	ESD No.	FS
SH 1/U	3 842 542 555	FS1

Material: SH 1/U: PE 6.6, black

Fastening material: steel; galvanized

Scope of delivery: incl. fastening material (FS)

FS1	
M5x12	
5-FST	
M5	8

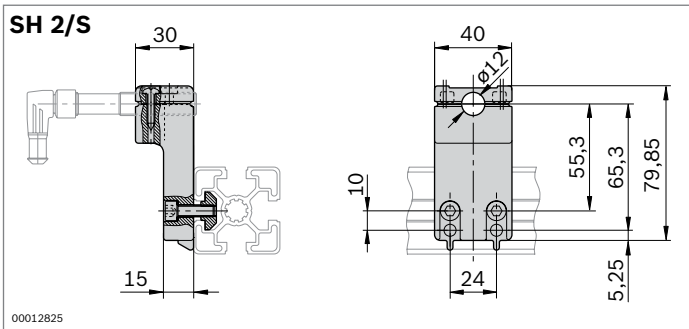


Switch bracket SH 2/S, SH 2/ST



- For fastening a sensor M12
- SH 2/ST: Switch cover to protect switches and cables

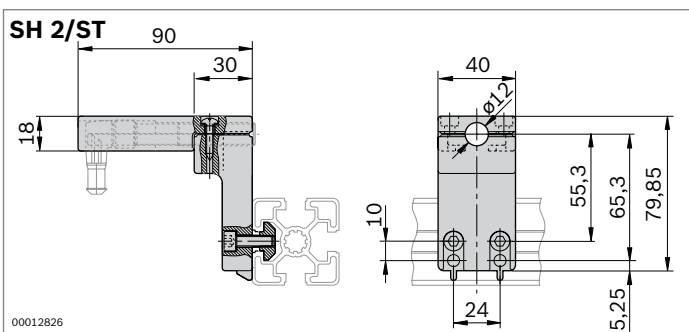
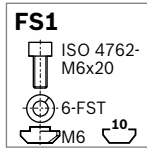
Required accessories:
Sensor M12x50 (p. 18-9)



Switch bracket	No.	FS
SH 2/S	3 842 168 830	2xFS1

Material: Housing: PA6, black
Switch cover (30 mm): PA6, black
Fastening material: steel; galvanized
incl. fastening material (FS)

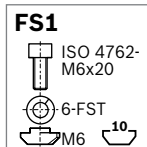
Scope of delivery:

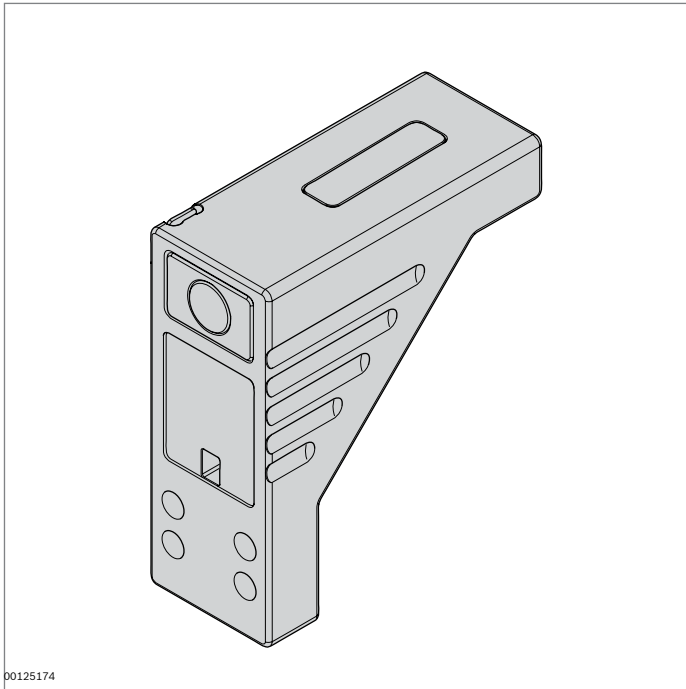


Switch bracket	No.	FS
SH 2/ST	3 842 168 850	2xFS1

Material: Housing: PA6, black
Switch cover (90 mm): ABS; transparent
Fastening material: steel; galvanized
incl. fastening material (FS)

Scope of delivery:





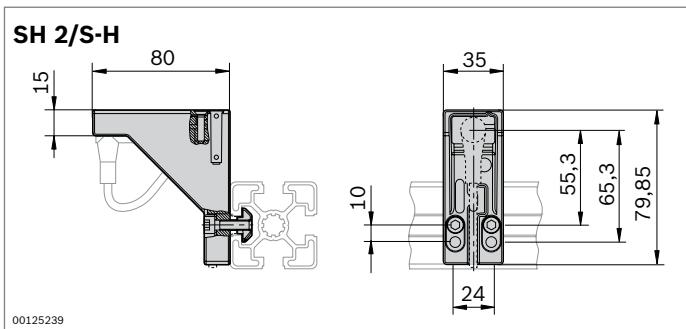
SH 2/S-H switch bracket



- ▶ For fastening a sensor M12
- ▶ Especially sturdy metal design
- ▶ Able to bear loads of up to 100 kg
- ▶ Centering lugs for pre-positioning and quick assembly in the profile groove
- ▶ Integrated stop for 12 mm sensor
- ▶ Integrated cable guide

Required accessories:

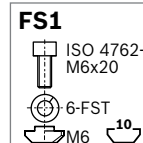
Sensor M12x50 (p. 18-9)

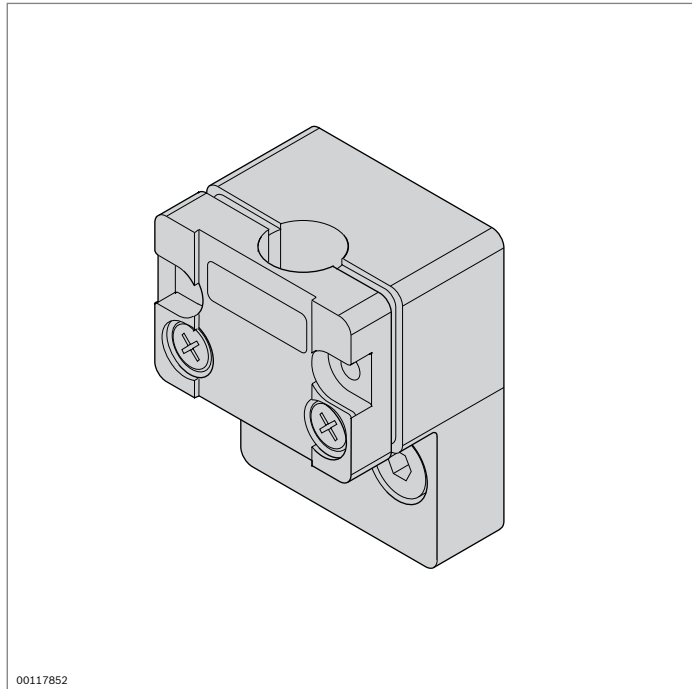


Switch bracket	No.	FS
SH 2/S-H	3 842 537 280	2xFS1

Material: SH 2/S-H: Die-cast aluminum
Fastening material: steel; galvanized

Scope of delivery: incl. fastening material (FS)



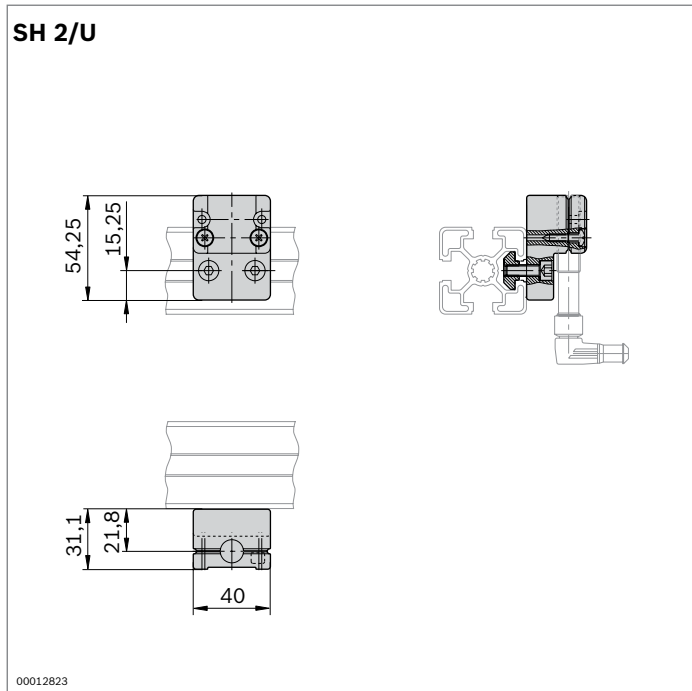


Switch bracket SH 2/U



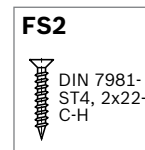
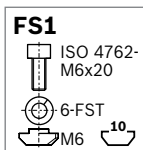
► For fastening a sensor M12

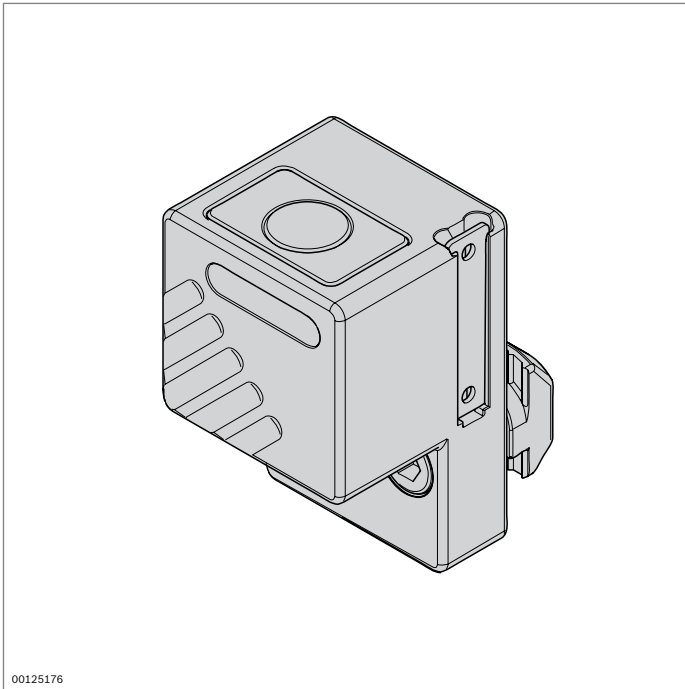
Required accessories:
Sensor M12x50 (p. 18-9)



Switch bracket	No.	FS
SH 2/U	3 842 168 820	2xFS1, 2xFS2

Material: SH 2/U: PA6 granulate, black
Fastening material: steel; galvanized
Scope of delivery: incl. fastening material (FS)





SH 2/U-H switch bracket

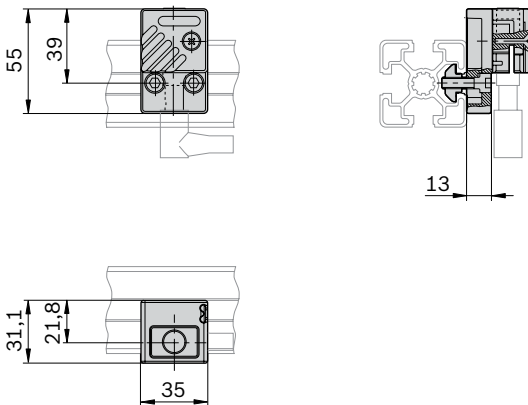


- ▶ For fastening a sensor M12
- ▶ Especially sturdy metal design
- ▶ Able to bear loads of up to 100 kg
- ▶ Centering lugs for pre-positioning and quick assembly in the profile groove
- ▶ Integrated stop for 12 mm sensor

Required accessories:

Sensor M12x50 (p. 18-9)

SH 2/U-H

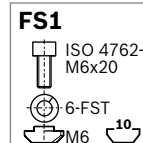


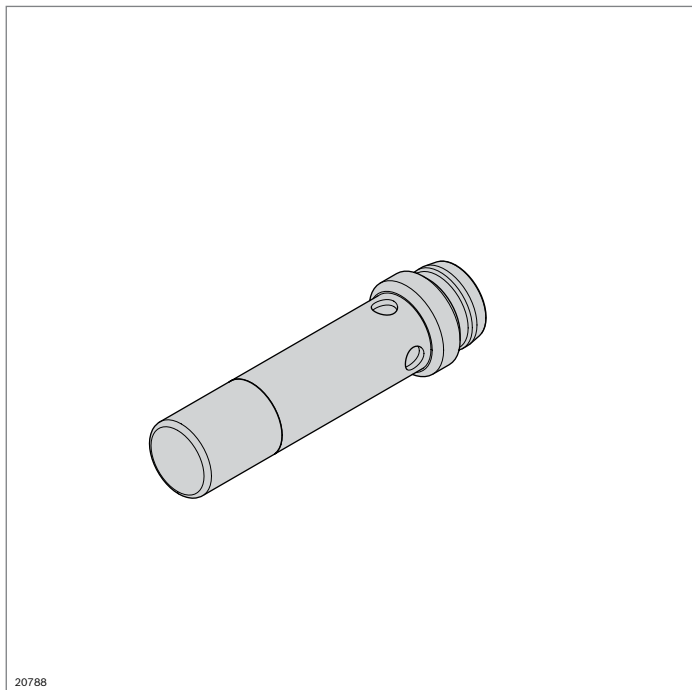
00125240

Switch bracket	No.	FS
SH 2/U-H	3 842 537 289	2xFS1

Material: SH 2/U-H: Die-cast aluminum
Fastening material: steel; galvanized

Scope of delivery: incl. fastening material (FS)





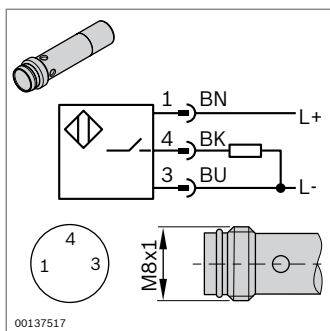
20788

Sensor Ø6.5 x 30 mm, inductive

- ▶ For installation in switch bracket SH 1/...
- ▶ Version:
 - PNP contact
 - Optical LED function display
 - Compact length of 30 mm; Ø6.5 mm
 - M8 plug connection
 - Switch distance $S_N = 4$ mm
 - Operating voltage 0...30 V
 - Switching frequency 1500 Hz
 - Operating current 200 mA
 - Protection class IP 67
 - Ambient temperature: -20 to 70 °C

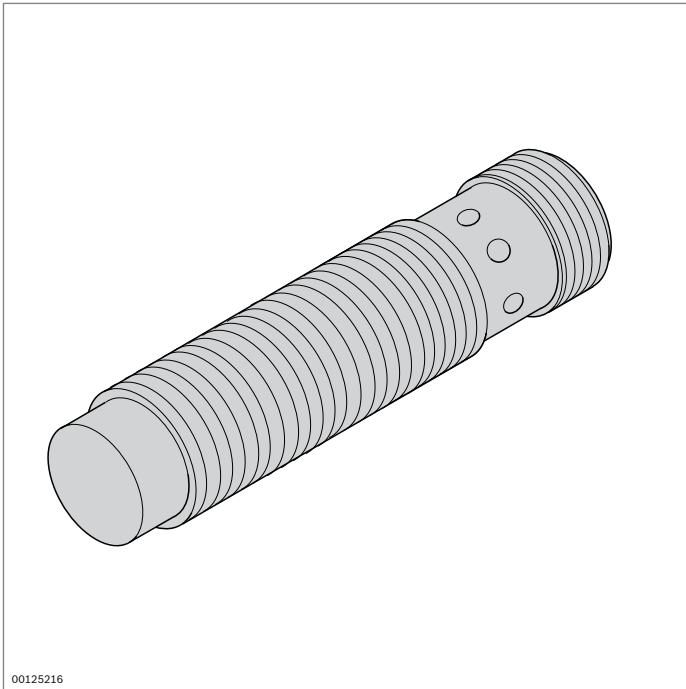
Required accessories:

SH 1/... switch bracket (p. 18-2f)



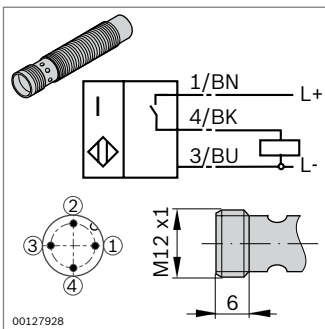
00137517

Sensor	No.
Ø6.5 x 30 mm	3 842 542 500
Material:	brass, nickel-plated



Sensor M12x50, inductive

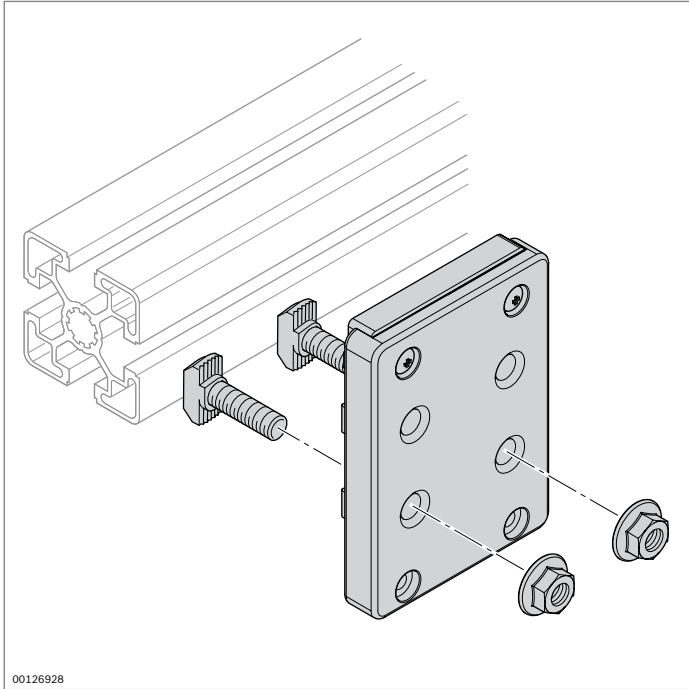
- ▶ For installation in switch bracket SH2/...
- ▶ Version:
 - PNP contact according to IEC/EN 60947-5-2-2004
 - Connection via V1 plug (M12)
 - Resistant to media such as test oil and test fuel
 - Optical LED function display
 - Gold-plated contacts
 - Compact length of 50 mm
 - Metal thread M12x1
 - Switch distance $S_N = 7$ mm
 - Operating voltage: 0...30 V
 - Switching frequency: 300 Hz
 - Operating current: 150 mA
 - No-load current: max. 15 mA
 - Protection class: IP 67
 - Ambient temperature: -25 to 70 °C



Required accessories:

SH 2/... switch bracket (p. 18-4ff)

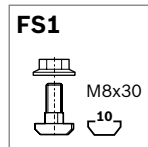
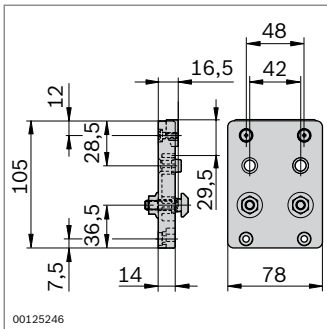
Sensor	No.
M12 x 50 mm	3 842 537 995
Material:	brass, nickel-plated



Stop



- ▶ Can be mounted on profiles with 10 mm slot
- ▶ Centering aid can be broken off for flexible installation



Stop	ESD No.	FS
	3 842 519 717	2xFS1

Material: Stop: PA6
Fastening material: steel; galvanized

Scope of delivery: incl. fastening material (FS)

Technical data

Technical data for strut profiles

EN AW – Al MgSi		Material designation according to DIN EN 573 for Rexroth strut profiles
EN AW – 6060		Material number according to DIN EN 573
R_m	= 245 N/mm ²	Minimum tensile strength (in direction of pressure)
$R_{p0,2}$	= 195 N/mm ²	0.2% proof stress (in direction of pressure)
A_5	= 10%	Ductile yield A_5 or A_{10}
A_{10}	= 8 %	
E	= 70000 N/mm ²	Modulus of elasticity E
75 HB		Brinell hardness
$\alpha_{(-50...+20\text{ °C})}$	= 21.8 x 10 ⁻⁶ 1/K	Longitudinal expansion coefficient
$\alpha_{(+20...100\text{ °C})}$	= 23.4 x 10 ⁻⁶ 1/K	

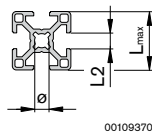
μ = 0.34 Poisson's ratio

E6/EV1 - 12 μm - 300 HV Anodizing process – layer thickness – layer hardness

L_{max}	11-20	22.5-30	40	45-60
t	± 0.15	± 0.2	+0.6	± 0.3

Permitted dimensional tolerance t (mm) for profiles from different deliveries

L_{max}	80	90	120	160
t	+0.8	± 0.4	+1.0	+1.6



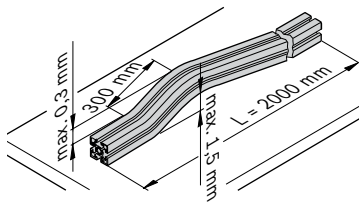
L_{max}	180	270	360
t	± 0.6	± 1.0	± 1.5

L2	6	8	10
t	+0.3	+0.3	+0.4

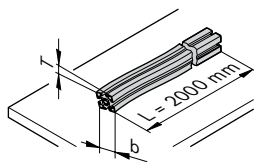
\emptyset	5.5	7.3	10	15
t	-0.1	-0.1	± 0.15	± 0.15
	+0.2	+0.2		

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.



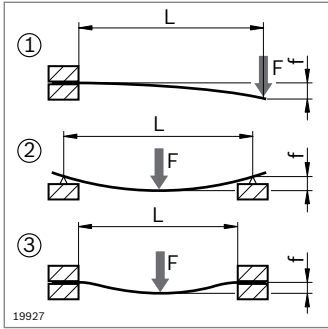
Longitudinal straightness tolerance of profile



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



$$f_{①} = \frac{F \times L^3}{3 E \times I \times 10^4}$$

Profile deflection due to force F for static load cases ①②③

$$f_{②} = \frac{F \times L^3}{48 E \times I \times 10^4}$$

$$f_{③} = \frac{F \times L^3}{192 E \times I \times 10^4}$$

$$f_{①} = \frac{m' \times g \times L^4}{8 E \times I \times 10^4}$$

Profile deflection due to the profile's own weight

$$f_{②} = \frac{5 \times m' \times g \times L^4}{384 E \times I \times 10^4}$$

$$f_{③} = \frac{m' \times g \times L^4}{384 E \times I \times 10^4}$$

$$\sigma_{①} = \frac{(m' \times g \times L + F) \times L}{W \times 10^3}$$

Control of max. occurring bending stress $\sigma_{b \max}$

$$\sigma_{②} = \frac{(m' \times g \times L + F) \times L}{4 W \times 10^3}$$

$$\sigma_{③} = \frac{(m' \times g \times L + F) \times L}{8 W \times 10^3}$$

$$\sigma_{b \max} < \sigma_{b \text{perm}}!$$

$S_{F \text{ req}}$: Safety value required to avoid deformation (flow)

$$\sigma_{b \text{perm}} = \frac{R_{p0,2}}{S_{F \text{ erf}}}$$

$\sigma_{b \text{ perm}}$: Max. permissible bending stress

f (mm)

W (cm³)

F (N)

E = 70000 N/mm²

L (mm)

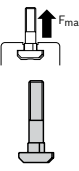
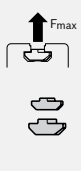
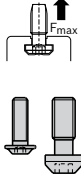

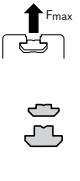



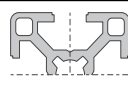

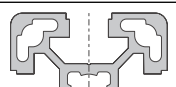
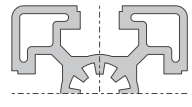
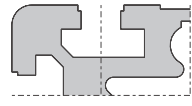
m' (kg/mm); m' = m/1000; m (p. 2-4 ... 2-7)

I (cm⁴)

g = 9.81 m/s² ≈ 10 m/s²

Profile slot load-bearing capacity

Static load limit values of slot (beginning of plastic deformation) **for connectors with the largest thread in each case**





							
			T-bolt	T-nut	Central bolt	Sliding block, swivel-in	Sliding block
		20x20, 20x20R 10x40 20x40, 20x60 20x40x40	1700 N	1700 N	2000 N	–	3000 N
		30x30, 30x30R 30x30°, 30x45°, 30x60° 11x20, 15x120 30x45, 30x60, 30x60x60 30x90, 30x120	4000 N	4000 N	5000 N	2200 N	6000 N
		90x90SL 40x40L, 40x40L R 40x30°, 40x45°, 40x60° 40x80L, 40x120L, 40x160L 40x80x80L 80x80L 80x120L, 80x160L 45x45L, 45x45L R 45x30°, 45x45°, 45x60° 15x22,5 , 15x180, 22,5x45 45x90L, 45x90x90L 50x50L, 50x50L R 50x100L , 50x150L 100x100L , 100x200L 60x60L	6000 N 7000 N	6000 N 7000 N	9000 N 10000 N	8000 N 9000 N	11000 N 12000 N
		45x45 60x60 90x90L 22,5x180 45x60 45x90 , 45x180 90x180L	12000 N	12000 N	15000 N	13000 N	17000 N
		45x270 60x90 90x90 90x180 90x360	18000 N	18000 N	22000 N	18000 N	24000 N

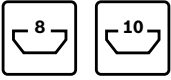





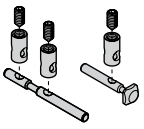
Load-bearing capacity of profile connection

The stated tightening and loading limit values were determined as an example in (dry) trials. You must take account of legal safety factors and building regulations as

well as those corresponding to accepted engineering practices!

Static load limit values of the connection (beginning of plastic deformation)

		D	Groove					
		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		
	Quick connector (p. 3-53)	9.8	10 / 10	↻ 6 Nm	800 N	50 Nm		

		Groove						
	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

Quick connector, bendable (p. 3-56)

		Groove				
	ø11, L=30	8	↻ 6 Nm	2500 N	60 Nm	20 Nm
	ø17, L=40	10	↻ 25 Nm	4000 N	180 Nm	40 Nm
	ø17, L=45	10	↻ 25 Nm	4000 N	180 Nm	60 Nm
	ø17, L=50	10	↻ 25 Nm	4000 N	200 Nm	65 Nm
	ø17, L=60	10	↻ 25 Nm	4000 N	200 Nm	80 Nm
	ø17, L=80	10	↻ 25 Nm	5000 N	800 Nm	170 Nm
	ø17, L=90	10	↻ 25 Nm	5000 N	800 Nm	200 Nm
	ø17, L=100	10	↻ 25 Nm	5000 N	1000 Nm	480 Nm
Bolt connector (p. 3-59)	ø28, L=22.5	10	↻ 25 Nm	2000 N	-	-

		Groove				
	S6	6	↻ 10 Nm	500 N	8 Nm	
	S8	8	↻ 25 Nm	800 N	43 Nm	
	S12	10	↻ 35 Nm	1300 N	80 Nm	
	Central bolt (p. 3-40)	M12	10	↻ 35 Nm	3000 N	80 Nm

		Groove						
	20/2	6	↻	10 Nm		18 Nm		
	20/3	6	↻	10 Nm			23 Nm	
	30/2	8	↻	25 Nm		80 Nm		
	30/3	8	↻	25 Nm			85 Nm	
	40/2	10	↻	35 Nm		60 Nm		
	40/3	10	↻	35 Nm			70 Nm	
	45/2	10	↻	35 Nm	45x45L	150 Nm		
						45x45	200 Nm	
	45/3	10	↻	35 Nm	45x45L		170 Nm	
						45x45		240 Nm
50/2	10	↻	35 Nm		120 Nm			
50/3	10	↻	35 Nm			140 Nm		

Cubic connector (p. 3-42)

		Profile	Groove						
	SV8	30x...	8	↻	6 Nm	1000 N	35 Nm	15 Nm	
	SV 10L	45x... L	10	↻	15 Nm	3500 N	110 Nm	30 Nm	
	SV 10	40x..., 45x...	10	↻	15 Nm	3500 N	110 Nm	30 Nm	
		60x...	10	↻	15 Nm	3500 N	195 Nm	60 Nm	


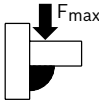
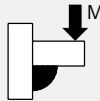
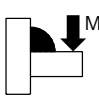
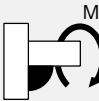
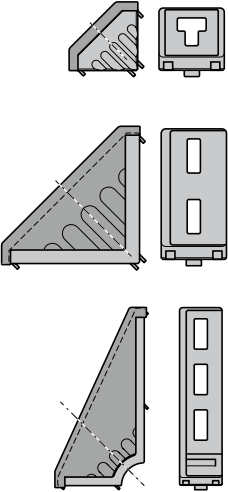



















Tensioning connector (p. 3-12)

		Groove					
	8 / 8	↻	12 Nm		2200 N	50 Nm	
	10 / 10	↻	15 Nm		2800 N	100 Nm	


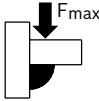
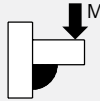
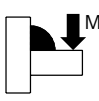
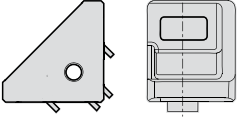




Inner bracket (p. 3-13)

		Groove					
	6 / 6	↻	3 Nm		600 N	10 Nm	
	8 / 8	↻	12 Nm		2500 N	50 Nm	
	10 / 10	↻	15 Nm		3000 N	100 Nm	


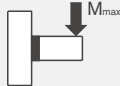
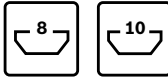
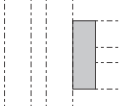
Inner bracket R (p. 3-14)

		Groove						
	20/20	6		3 Nm	700 N	6 Nm	25 Nm	–
	20/40	6		3 Nm	1400 N	15 Nm	50 Nm	8 Nm
	30/30	8		10 Nm	1250 N	25 Nm	75 Nm	–
	30/60	8		10 Nm	2500 N	100 Nm	170 Nm	25 Nm
	30/120	8		10 Nm	3750 N	100 Nm		47 Nm
	60/60-8	8		10 Nm	5000 N	320 Nm	370 Nm	110 Nm
	60/60-10	10		25 Nm	3000 N	125 Nm	150 Nm	–
	40/40	10		25 Nm	3000 N	55 Nm	145 Nm	35 Nm
	40/80	10		25 Nm	6000 N	180 Nm	400 Nm	60 Nm
	40/160	10		25 Nm	9000 N	250 Nm		60 Nm
	80/80	10		25 Nm	14000 N	500 Nm	1000 Nm	400 Nm
	45/45	10		25 Nm	3000 N	60 Nm	160 Nm	–
	45/90	10		25 Nm	6000 N	180 Nm	400 Nm	60 Nm
	45/180	10		25 Nm	9000 N	250 Nm		65 Nm
	90/90	10		25 Nm	12000 N	370 Nm	800 Nm	200 Nm
	43x42	10		25 Nm	2000 N	–	160 Nm	–
	50/50	10		25 Nm	4000 N	125 Nm	250 Nm	38 Nm
	50/100	10		25 Nm	7500 N	300 Nm	600 Nm	73 Nm
	100/100	10		25 Nm	15000 N	550 Nm	1100 Nm	480 Nm

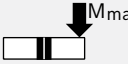


Bracket (p. 3-17)

		Groove					
	S 20x20	6		2.5 Nm	700 N	3.6 Nm	25 Nm
	S 30x30	8		8.5 Nm	1250 N	16 Nm	75 Nm
	S 40x40	10		25 Nm	3000 N	36 Nm	160 Nm
	S 45x45	10		25 Nm	3000 N	36 Nm	160 Nm

Bracket S (p. 7-8)

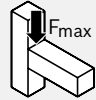
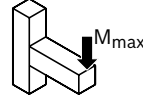
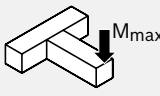


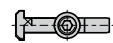
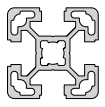

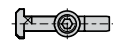
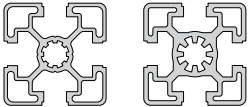

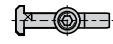
		Groove				
		30x30	8	↻ 25 Nm (M8) / 5 Nm (M5)	4000 N	80 Nm
		40x40	10	↻ 35 Nm (S12) / 10 Nm (M6)	9000 N	150 Nm
		45x45	10	↻ 35 Nm (S12) / 10 Nm (M6)	9000 N	200 Nm
		50x50	10	↻ 35 Nm (S12) / 10 Nm (M6)	10000 N	170 Nm

T-connector (p. 3-50)

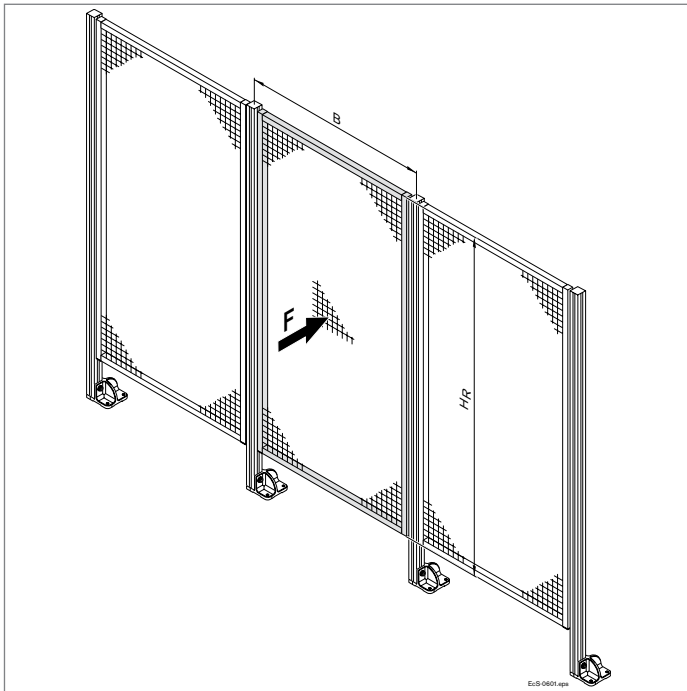
		Groove			
		30x30	8	↻ 25 Nm (M8) / 5 Nm (M5)	81 Nm
		40x40	10	↻ 35 Nm (S12) / 10 Nm (M6)	170 Nm
		45x45	10	↻ 35 Nm (S12) / 10 Nm (M6)	200 Nm
		50x50	10	↻ 35 Nm (S12) / 10 Nm (M6)	180 Nm

End connector (p. 3-48)

Profile connection load-bearing capacity with radial compensation (p. 2-85)

		Groove						
	30x30		S8	8	↻ 25 Nm	600 N	37 Nm	28 Nm
				8 / 8	↻ 12 Nm	600 N	37 Nm	28 Nm
	40x40		M12 S12	10	↻ 30 Nm	1000 N	47 Nm	55 Nm
				10 / 10	↻ 22 Nm	1000 N	47 Nm	55 Nm
	45x45		S12 M12	10	↻ 35 Nm	1200 N	53 Nm	59 Nm
				10 / 10	↻ 25 Nm	1200 N	53 Nm	59 Nm

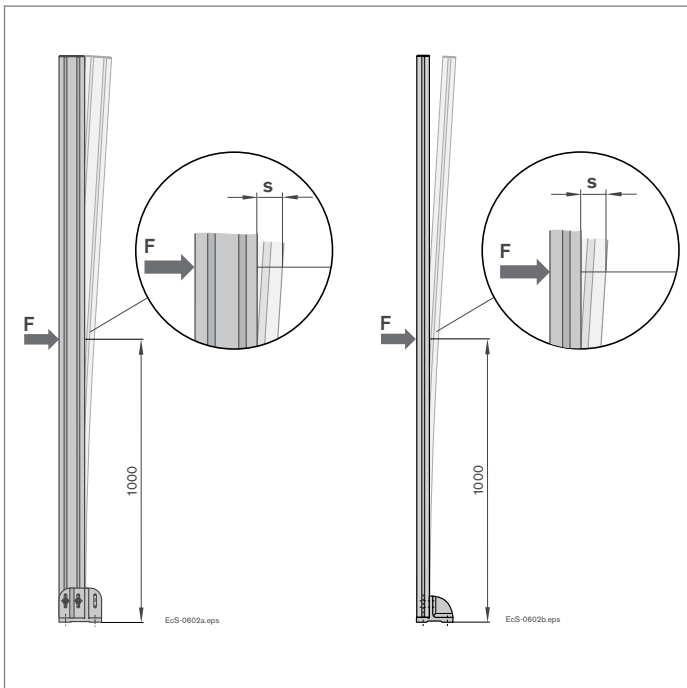
Load-bearing capacity data for EcoSafe protective frames and EcoSafe supports



EcoSafe protective frames withstand high loadings. The permissible forces which act on the protective grille have been determined in series of tests.

Test structure: In the case of a protective fence consisting of 3 frames, the woven wire grille in the middle frame is exposed to a maximum load force acting on its center.

Protective frame	HR (mm)	B (mm)	F (N)	No.
	1800	750	1650	3 842 554 283
	1800	1000	1100	3 842 554 284
	1800	1500	800	3 842 554 285



The force required to deflect the EcoSafe system supports has been determined in series of tests.

Test structure: A force acts on an installed system support at a height of 1 m (spring balance).

F (N)		100	150	300	450	600
s (mm)	45x45	4	6	13	21	31
	45x90	2	3	6	12	18

Material number overview

0 842 901 309	2-37, 12-2	3 842 506 958	2-71	3 842 517 179	2-46	3 842 523 098	5-3
1 845 719 000	2-43	3 842 506 959	2-72	3 842 517 180	2-47	3 842 523 102	5-6
3 842 071 941	12-39	3 842 508 087	5-5	3 842 517 183	2-47	3 842 523 135	3-4
3 842 111 987	3-10	3 842 508 088	5-5	3 842 517 198	2-53	3 842 523 140	3-7
3 842 111 988	3-10	3 842 508 102	2-14	3 842 517 200	2-73	3 842 523 142	3-7
3 842 111 989	3-10	3 842 508 104	2-15	3 842 517 543	3-43	3 842 523 145	3-9
3 842 146 813	3-32	3 842 508 967	12-39	3 842 518 204	2-39	3 842 523 165	10-12
3 842 146 815	3-33	3 842 509 177	8-30	3 842 518 205	2-39	3 842 523 166	10-12
3 842 146 848	3-33	3 842 509 178	2-51	3 842 518 343	7-2	3 842 523 170	10-13
3 842 146 877	13-7, 13-8,	3 842 509 183	2-88	3 842 518 347	7-2	3 842 523 205	12-14
	13-17, 13-18,	3 842 509 184	2-75	3 842 518 351	7-2	3 842 523 206	12-14
	13-31, 13-32	3 842 509 185	2-88	3 842 518 367	2-40	3 842 523 207	12-15
3 842 146 902	8-31	3 842 509 189	2-81	3 842 518 368	2-40	3 842 523 209	12-14
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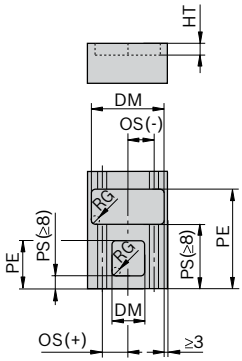
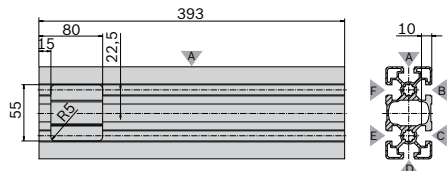
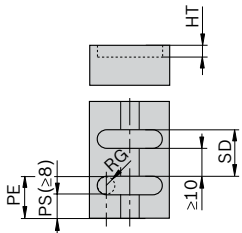
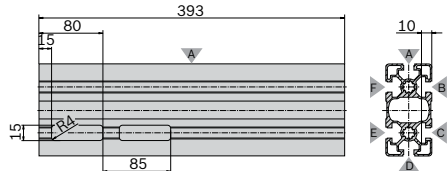
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– with mounting flange	6-24

Notes

Lengthwise milling MI, lengthwise milling sequence MIS

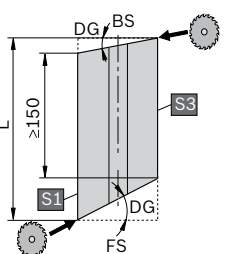
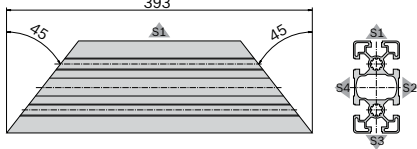
Material number / length / [slot designation=MI; PS=...; OS=...; DM=...; HT=...; PE=...; RG=...]; [...]

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)	 3 842 993 662 / 393 / [B=MI; PS=15; OS=22.5; DM=55; HT=10; PE=80; RG=5]
	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	 3 842 993 662 / 393 / [C=MIS; PS=15; DM=15; HT=10; PE=80; RG=4; SN=2; SD=85]
	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

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	 3 842 993 662 / 393 / [FS=S3; DG=45]; [BS=S3; DG=45]
	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)	

Drilling DI, drilling sequence DIS

Material number / length / [slot designation=DI; PS=...; OS=...; DM=...; HT=...]; [...]

Material number / length / [slot designation=DIS; PS=...; OS=...; DM=...; HT=...; SN=...; SD=...]; [...]

End finishing	Parameter	Order example for profile 45x90L
Hole DI 	PS Center point of hole $PS_{min} = DM/2 + 3 \text{ mm};$ $PS_{max} = L - (DM/2 + 3 \text{ mm})$	 3 842 993 662 / 393 / [B=DI; PS=60; OS=22.5; DM=9.8]
	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 hole (optional) Through-holes made if no information provided HT_{max} see table	
Drilling sequence DIS 	PS, OS, DM, HT As for DI hole drilling	 3 842 993 662 / 393 / [B=DIS; PS=60; OS=22.5; DM=9.8; SN=4; SD=35]
	SN Number of finishes $SN_{max} = INT((L - 3 \cdot PS - DM/2) / SD) + 1$	
	SD Distance between adjacent finishes $SD_{min} = DM + 3$	

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

CAUTION: 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	 3 842 993 662 / 393 / [D=MT; PS=50; HT=12.5; PE=90]
	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 $PE_{max} = L - 8 \text{ mm}; 8 \text{ mm} \leq PE - PS \leq 100 \text{ mm}$	
Cross milling sequence MTS 	PS, HT, PE As for cross milling MT	 3 842 993 662 / 393 / [D=MTS; PS=50; HT=12.5; PE=90; SN=4; SD=53]
	SN Number of finishes $SN_{max} = INT((L - 8 \cdot PE) / SD) + 1$	
	SD Distance between adjacent finishes $SD_{min} = (PE - PS) + 10$	

Standard profile finishing





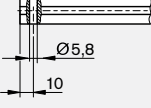
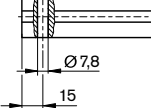
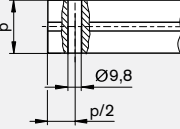

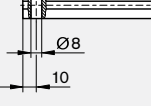
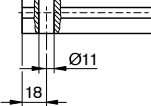
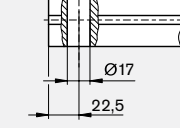

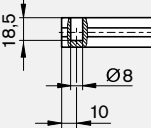
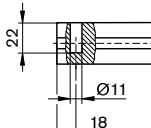
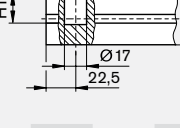

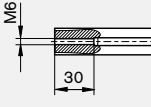
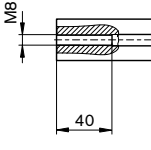
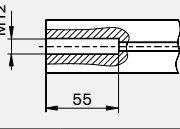
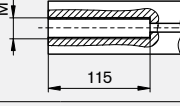

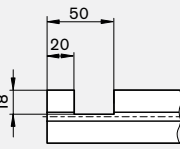
Order syntax for through-holes, blind holes, standard milling

Material number / length / slot designation = finishing at profile start / finishing at profile end; ...




Order syntax for threads

Material number / length / Z = Mx at profile start / Mx at profile end

Standard profile finishing

		Slot 6 mm 	Slot 8 mm 	Slot 10 mm 										
Through-hole for corner connections with central bolt		D5.8 	D7.8 	D9.8 										
Through-hole for bolt connectors and quick connectors		D8 	D11 	D17 										
Blind hole for longitudinal end connectors and quick connectors in closed profiles		DB8 	DB11 	DB17  <table 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										
Thread in all central holes for accessories		M6 	M8 	M12  M16 										
Standard milling for cross connectors				F1 										

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

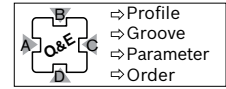
	M6	D5.8	D8/ DB8		M8	D7.8	D11/ DB11		M12	M16	D9.8	D17/ DB17	F1	
-	50	50	50	-	50	50	50	-	50	60	120	50	60	60
M6	50	70	50	M8	50	80	62	M12	60	110	180	90	60	110
D5.8	50	50	50	D7.8	50	62	60	M16	120	180	240	150	170	170
D8/ DB8	50	50	50	D11/ DB11	50	70	50	D9.8	50	90	150	80	70	90
								D17/ DB17	60	90	170	70	80	90
								F1	60	110	170	90	90	80

Note: In the case of clashes with the values in the order table, the larger value applies.

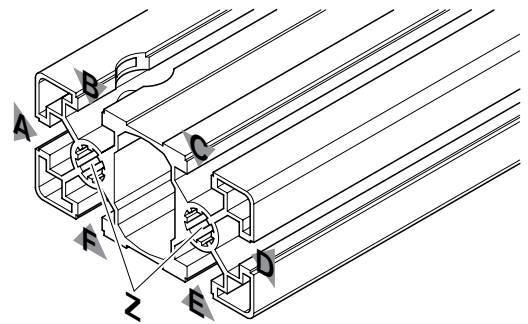
Quick & Easy profile finishing

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 D17 through-hole in slot B

Standard profile finishing

- ▶ Through-hole drilling D
- ▶ Blind hole drilling DB
- ▶ Thread cutting M
- ▶ Standard milling F1

Individual profile finishing

- ▶ Hole drilling 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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www.boschrexroth.com/contact

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