

Connection elements



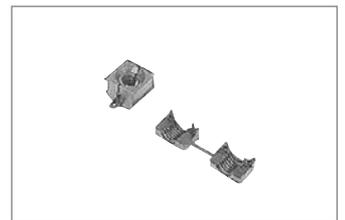
T-nut (p. 3-4)
Collar screw (p. 3-5)



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



Sliding block (p. 3-7)



Expanding nut (p. 3-10)



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Tensioning connector
(p. 3-12)



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Miter bracket (p. 3-17)



Bracket (p. 3-18)



Bracket R (p. 3-30)



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bracket (p. 3-33)



Foundation bracket
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Holder (p. 3-35)



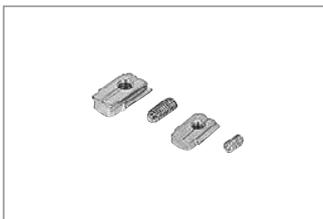
Supporting bracket
(p. 3-37)



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Longitudinal end connector
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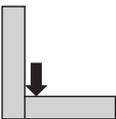
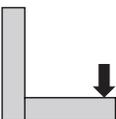
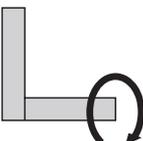
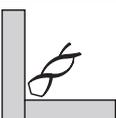
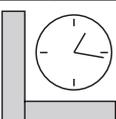
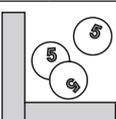
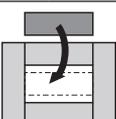
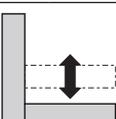
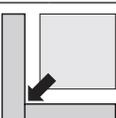
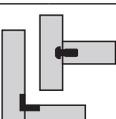


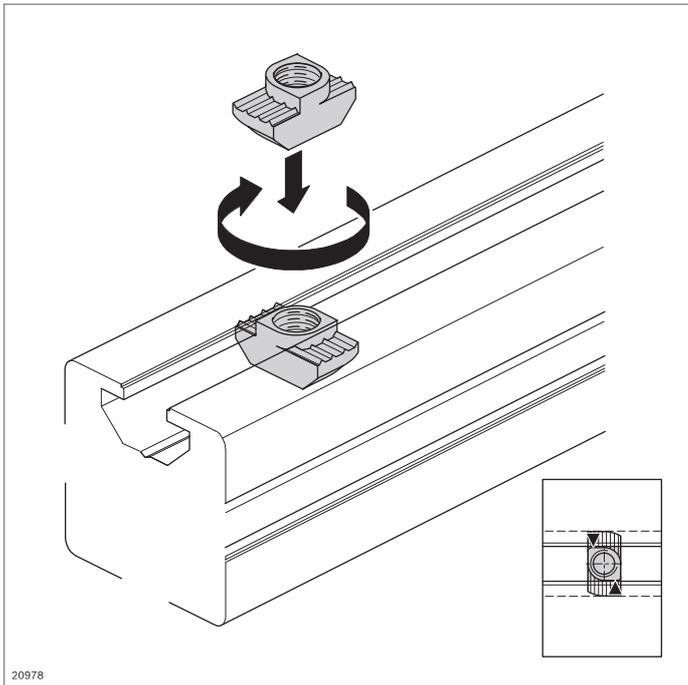
Bolt connector (p. 3-60)



QV mounting kit (p. 3-62)

Connection elements, selection criteria

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



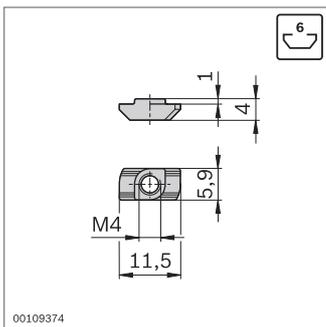
T-nut



- ▶ Standard element for a secure and conductive connection
- ▶ End stop for correct positioning in the profile slot
- ▶ Stainless steel T-nut, e.g. for outdoor or cleanroom applications
- ▶ Profile finishing: Not required

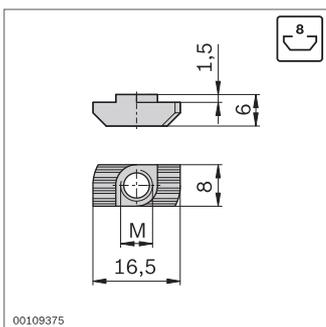
Technical data (p. 18-15)

Accessories:
Insulating cap (p. 3-5)



Slot	
6	1700 N

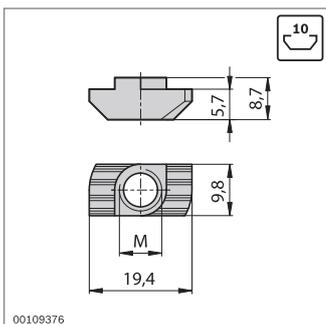
T-nut, 6 mm slot	Slot	M	ESD		No.
Steel; galvanized	6	M4		100	3 842 523 135
Stainless steel	6	M4		100	3 842 536 599



Slot	
8 (M6)	4000 N

T-nut, 8 mm slot	Slot	M	ESD		No.
Steel; galvanized	8	M4		100	3 842 501 751
		M5*		100	3 842 501 752
		M6*		100	3 842 501 753
Stainless steel	8	M4		100	3 842 536 600
		M5		100	3 842 536 601
		M6		100	3 842 536 602

* Suitable for standard screws. **Attention:** T-nuts have driving torque for safe turning in the base of the slot.

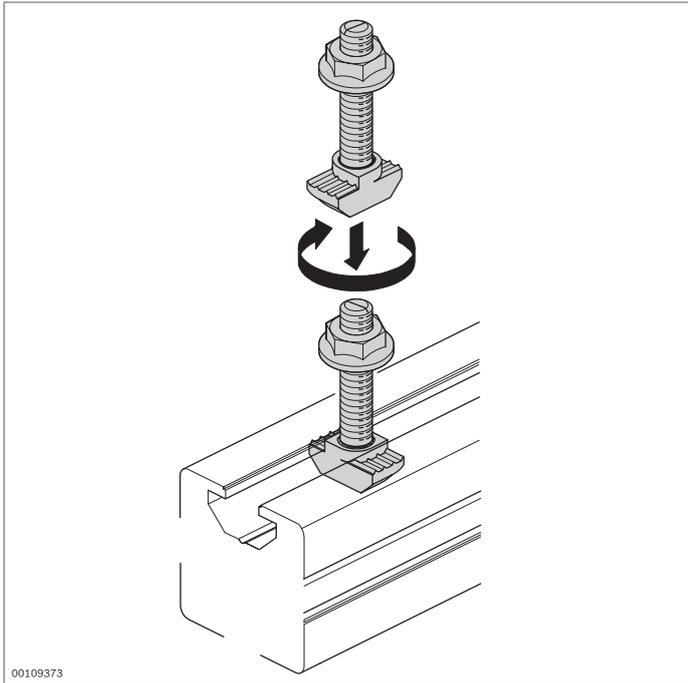


Slot	
10 (M8)	6000 ... 18000 N ¹⁾

¹⁾ Depending on profile (p. 19-5)

T-nut, 10 mm slot	Slot	M	ESD		No.
Steel; galvanized	10	M4		100	3 842 530 281
		M5*		100	3 842 530 283
		M6*		100	3 842 530 285
		M8*		100	3 842 530 287
Stainless steel	10	M4		100	3 842 536 606
		M5		100	3 842 536 605
		M6		100	3 842 536 604
		M8		100	3 842 536 603

* Suitable for standard screws. **Attention:** T-nuts have driving torque for safe turning in the base of the slot.



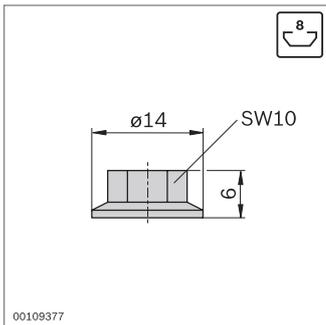
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Flange nut T-bolt

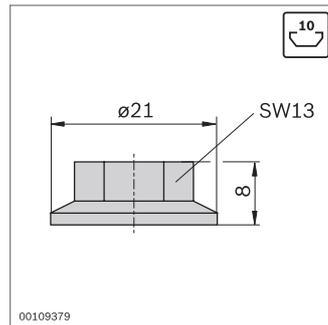


- ▶ Secure and conductive connection
- ▶ Notch at bolt end as marker for correct position recognition
- ▶ Profile finishing: Not required

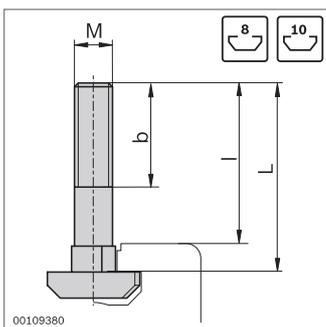
Technical data (p. 18-15)



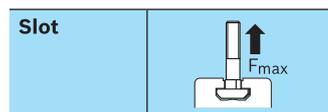
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Slot	
8	4000 N
10	6000 ... 18000 N ¹⁾

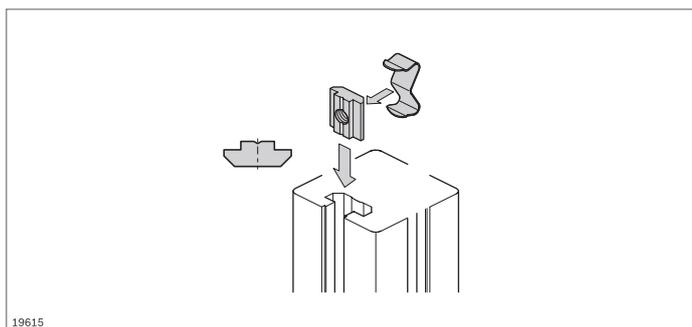
¹⁾ Depending on profile (p. 18-15)

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

Material: Steel; galvanized

T-bolt	Slot	MxL	b (mm)	l (mm)	ESD	No.
	8	M6x16	10	14	100	3 842 523 920
		M6x20	14	18	100	3 842 523 921
		M6x25	18	23	100	3 842 523 922
	10	M8x20	14	14	100	3 842 528 715
		M8x25	19	19	100	3 842 528 718
		M8x30	24	24	100	3 842 528 721
		M8x40	22	34	100	3 842 528 724
		M8x50	22	44	100	3 842 528 727
		M8x60	22	54	100	3 842 528 730

Material: Steel; galvanized



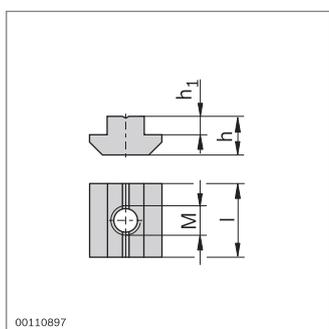
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Sliding block, sliding block profile



- ▶ Sliding block for reliable absorption of high forces
- ▶ Sliding block profile for self-assembly of individual fastening elements
- ▶ Profile finishing: Not required
- ▶ The spring assists with the assembly and positioning of the sliding block and swivel-in sliding block (p. 3-8)

Technical data (p. 18-15)



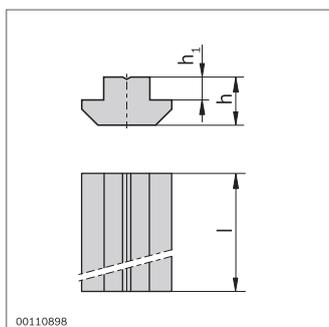
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Slot	F_{max}
6 (M5)	3000 N
8 (M8)	6000 N
10 (M8)	8000 ... 24000 N ¹⁾

¹⁾ Depending on profile (p. 18-15)

Sliding block	Slot	M	h (mm)	h ₁ (mm)	l (mm)	ESD	No.	
Steel; galvanized	6	M4	4.0	1.0	12		100 3 842 542 692	
		M5	4.0	1.0	12		100 3 842 542 693	
	8	M4	6.0	2.0	16		100 3 842 514 928	
		M5	6.0	2.0	16		100 3 842 514 929	
		M6	6.0	2.0	16		100 3 842 514 930	
	10	M8	6.0	2.0	16		100 3 842 514 931	
		M5	10.5	5.0	20		100 3 842 528 741	
		M6	10.5	5.0	20		100 3 842 528 738	
	Steel; stainless	6	M4	4.0	1.0	12		100 3 842 523 140
			M5	4.0	1.0	12		100 3 842 523 142
		8	M4	6.0	2.0	16		100 3 842 547 817
			M5	6.0	2.0	16		100 3 842 547 816
M6			6.0	2.0	16		100 3 842 547 815	
10		M8	6.0	2.0	16		100 3 842 547 814	
		M5	10.5	5.0	20		100 3 842 547 813	
		M6	10.5	5.0	20		100 3 842 547 812	
	M8	10.5	5.0	20		100 3 842 547 811		

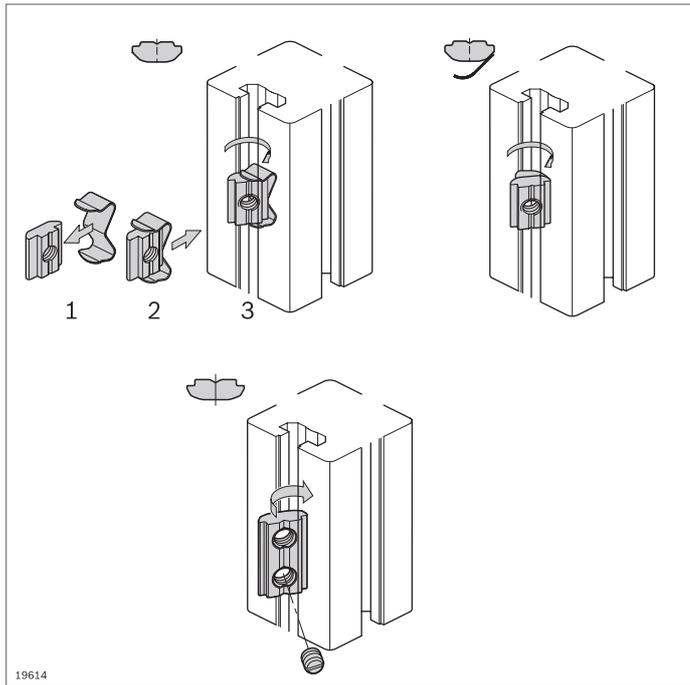
Accessories: Spring (p. 3-9)



00110898

Sliding block profile	Slot	h (mm)	h ₁ (mm)	l (mm)	No.
Steel; galvanized	6	4.0	1.0	1000	3 842 542 694
	8	6.0	2.0	1000	3 842 510 078
	10	10.5	5.0	1000	3 842 528 744
Steel; stainless	6	4.0	1.0	1000	3 842 523 438

Accessories: Spring (p. 3-9)

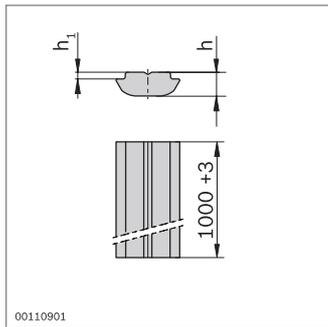


Swivel-in sliding block
Swivel-in sliding block profile
Spring



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

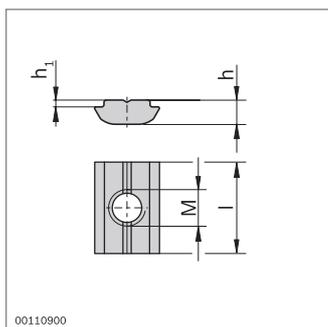
Technical data (p. 18-15)



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

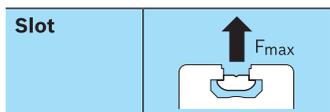
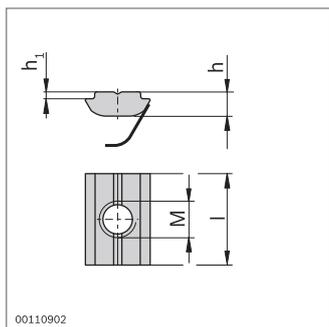
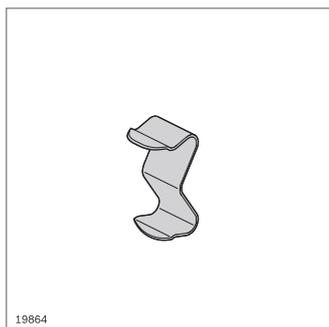
¹⁾ Depending on profile (p. 18-15)

Swivel-in sliding block profile	Slot	h (mm)	h ₁ (mm)	l (mm)	No.
Steel; galvanized	8	4.8	1.0	1000	3 842 529 327
	10	5.3	1.5	1000	3 842 529 325



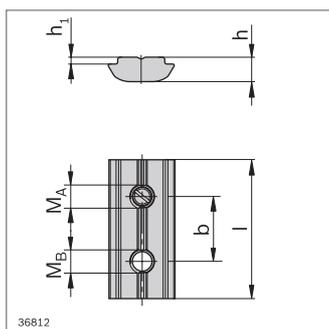
Swivel-in sliding block	Slot	M	h (mm)	h ₁ (mm)	l (mm)	ESD	No.
Steel; galvanized	8	M5	4.8	1.0	16	100	3 842 529 319
		M6	4.8	1.0	16	100	3 842 529 320
		M8	4.8	1.0	16	100	3 842 529 321
	10	M6	5.3	1.5	20	100	3 842 529 323
		M8	5.3	1.5	20	100	3 842 529 324
Steel; stainless	6	M3	3.0	0.9	12		100 3 842 547 826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

Accessories: spring (p. 3-9)



Slot	F_{max}
8 (M8)	2200 N
10 (M8)	8000 ... 18000 N ¹⁾

¹⁾ Depending on profile (p. 18-15)



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

Spring	Slot		No.
Spring steel; stainless	6	100	3 842 523 145
	8	100	3 842 516 685
	10	100	3 842 516 669

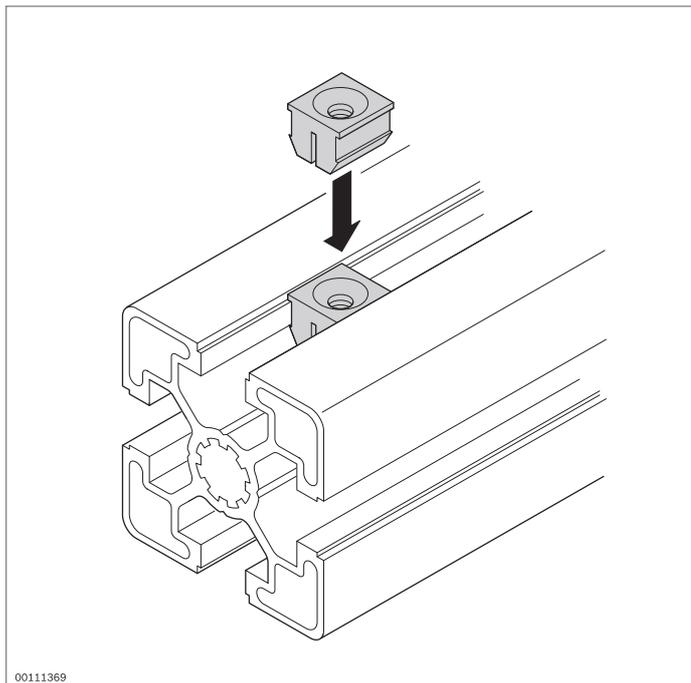
Swivel-in sliding block with spring	Slot	M	h (mm)	h ₁ (mm)	l	ESD	No.
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Steel; galvanized	8	M4	4.8	1.0	16		100 3 842 529 294
		M5	4.8	1.0	16		100 3 842 529 295
		M6	4.8	1.0	16		100 3 842 529 296
		M8	4.8	1.0	16		100 3 842 529 297
	10	M4	5.3	1.5	20		100 3 842 541 393
		M5	5.3	1.5	20		100 3 842 529 298
		M6	5.3	1.5	20		100 3 842 529 299
		M8	5.3	1.5	20		100 3 842 529 300
Steel; stainless	8	M4	4.8	1.0	16		100 3 842 547 824
		M5	4.8	1.0	16		100 3 842 547 823
		M6	4.8	1.0	16		100 3 842 547 822
		M8	4.8	1.0	16		100 3 842 547 821
	10	M5	5.3	1.5	20		100 3 842 547 808
		M6	5.3	1.5	20		100 3 842 547 807
		M8	5.3	1.5	20		100 3 842 547 806

Material: Spring: Spring steel; stainless

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



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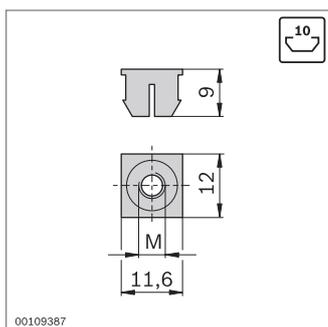
Expanding nut



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

Required accessories:

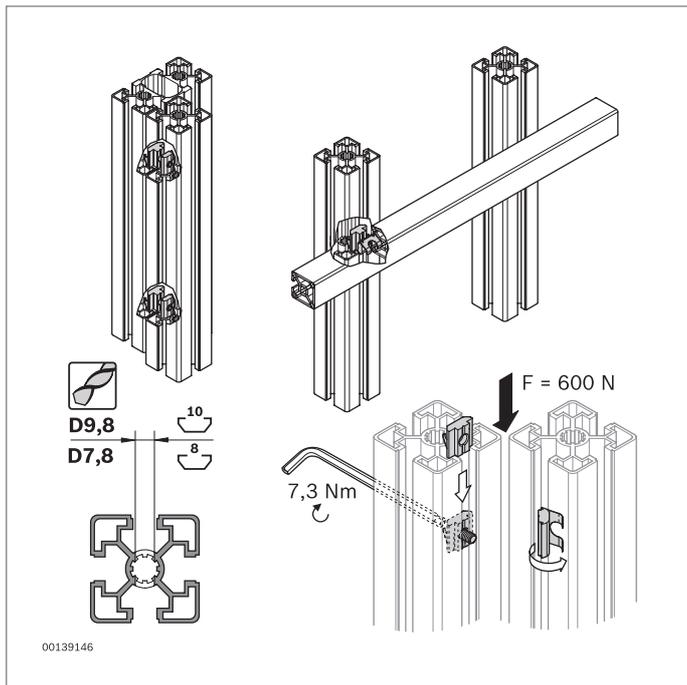
Countersunk screw



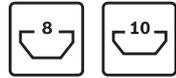
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Expanding nut	Slot	M	100	No.
	10	M4	100	3 842 554 774
		M5	100	3 842 554 776
		M6	100	3 842 554 778

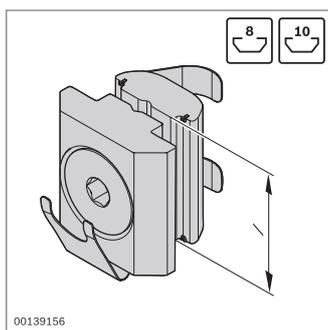
Material: PA; signal gray similar to RAL 7004



Parallel connector



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

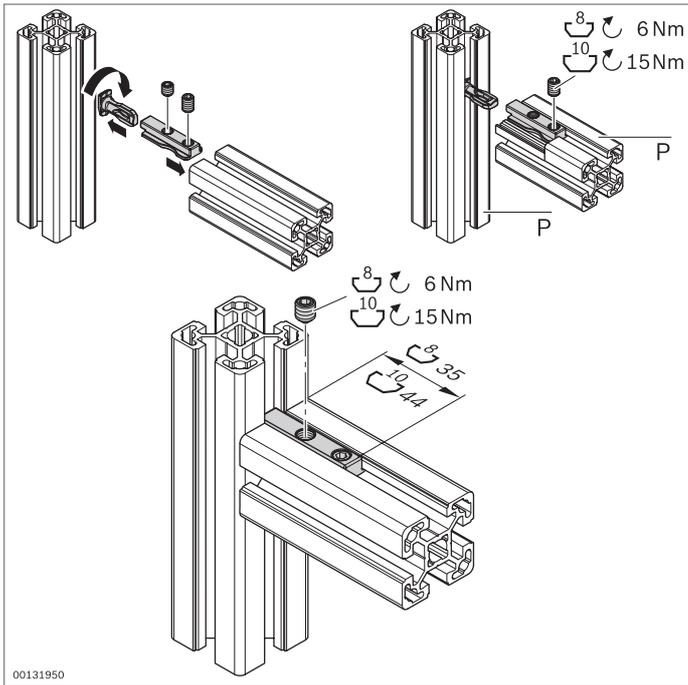


Slot	F_{max}
8	600 N
10	600 N

Parallel connector	Slot I (mm)	No.
	8 16 10	3 842 542 737
	10 20 10	3 842 542 736

Material: Sliding block: Steel; galvanized
 Spring: Spring steel; stainless

Scope of delivery: Sliding block with spring, swivel-in sliding block with spring, countersunk screw M5



Tensioning connector



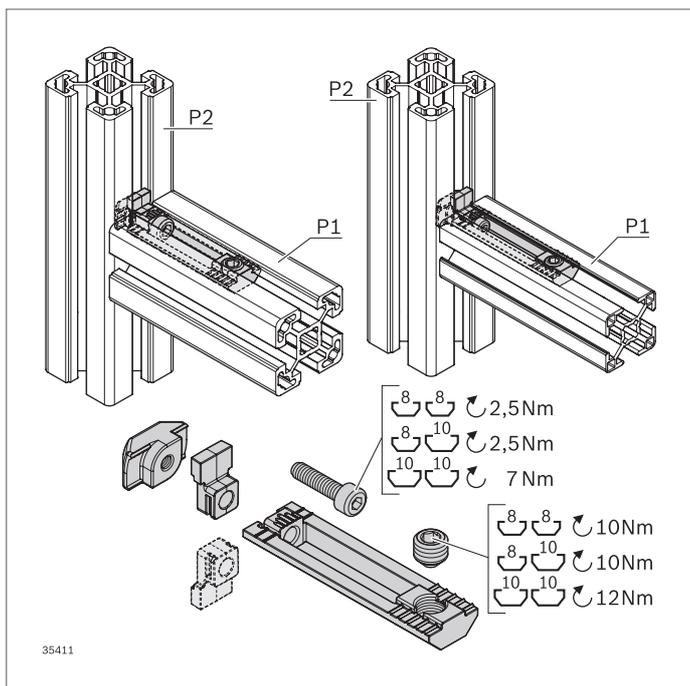
- ▶ Tensioning connector for fast assembly
- ▶ The connector can be moved within the slot
- ▶ Easily accessible screws
- ▶ Three slots are left free for mounting of panel elements
- ▶ Profile finishing: Not required

Technical data (p. 18-18)

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

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

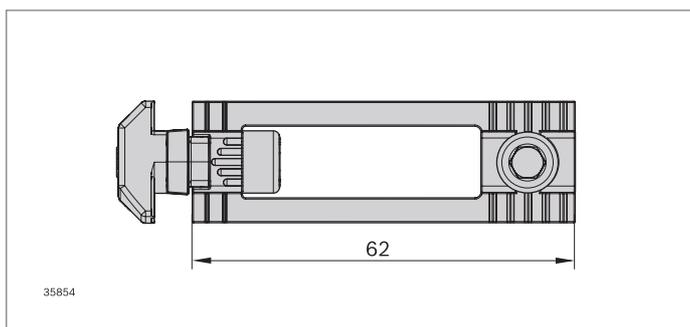
Material: Steel; galvanized



Slot connector



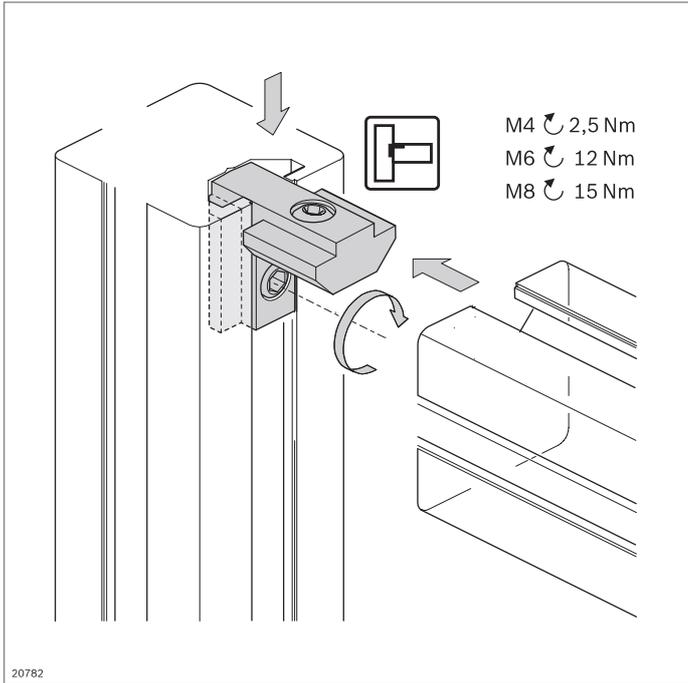
- ▶ Slot connector for fast assembly
- ▶ The connector can be moved within the slot
- ▶ Easily accessible screws
- ▶ Anti-torsion element can be removed if necessary, variable alignment (slot 10/10; 8/10)
- ▶ Headless setscrew, preassembled
- ▶ Profile finishing: Not required



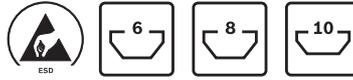
Slot connector	P1	P2	ESD	No.
8/8	8	8		3 842 558 566
8/10	8	10		3 842 558 567
10/10	10	10		3 842 558 568

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

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

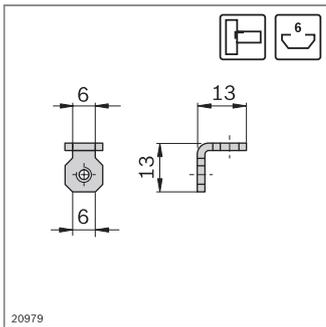


Inner bracket



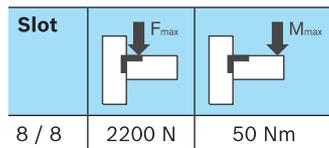
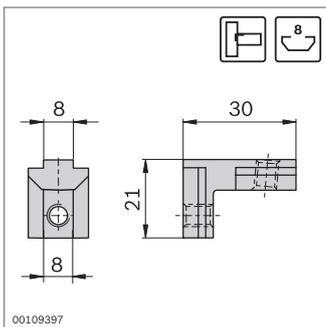
- ▶ For elegant, easy-to-assemble profile connections
- ▶ Especially suitable for constructing door frames, protective grilles, or partition walls
- ▶ The inner bracket, 6 mm slot, can also be used as an inner bracket R, 6 mm slot
- ▶ Profile finishing: Not required

Technical data (p. 18-18)



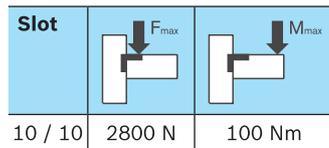
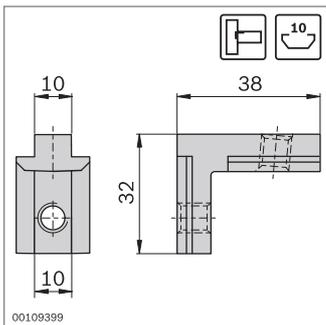
Inner bracket	Slot	ESD	No.	FS
	6 / 6		10	3 842 535 574 2xFS1

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



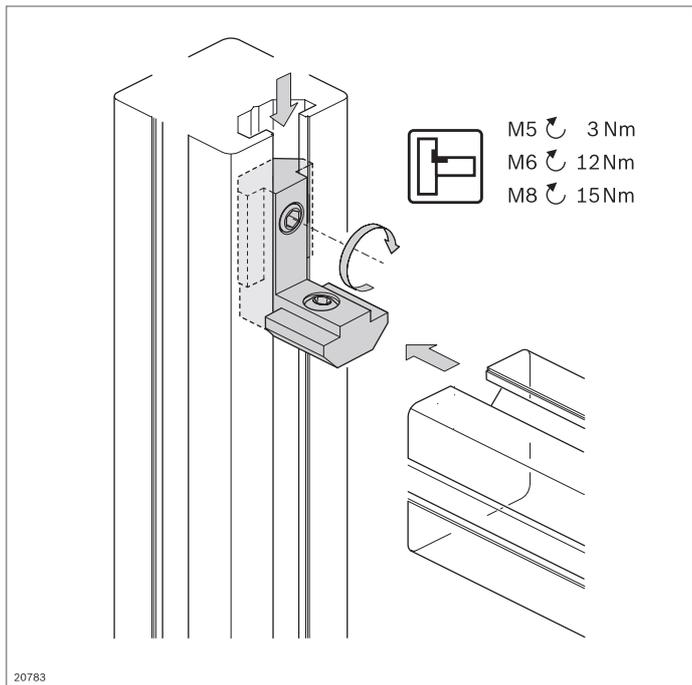
Inner bracket	Slot	ESD	No.	FS
	8 / 8		10	3 842 535 578 2xFS2

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



Inner bracket	Slot	ESD	No.	FS
	10 / 10		10	3 842 535 572 2xFS3

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

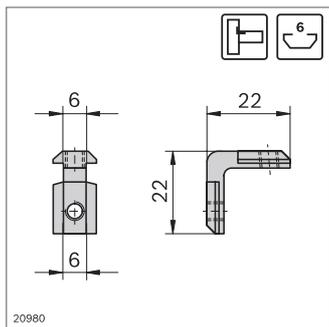


Inner bracket R



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

Technical data (p. 18-18)

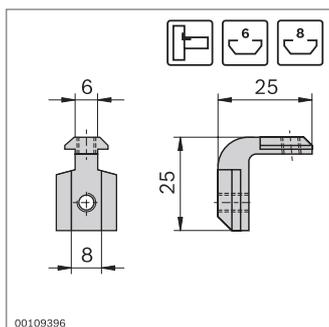


Slot	F_{max}	M_{max}
6 / 6	600 N	10 Nm

FS1
 DIN 913
 M5x5

Inner bracket R	Slot	ESD	No.	FS
	6 / 6		10 3 842 535 575	2xFS1

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

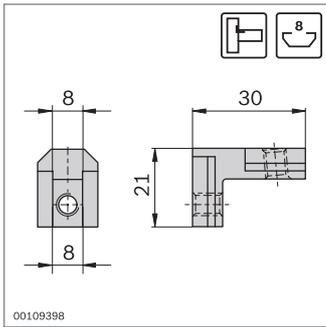


Slot	F_{max}	M_{max}
6 / 8	600 N	10 Nm

FS1
 DIN 913
 M5x5

Inner bracket R	Slot	ESD	No.	FS
	6 / 8		10 3 842 535 573	2xFS1

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

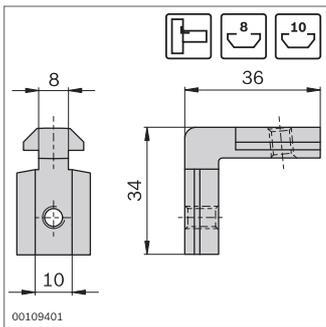


Slot	F_{max}	M_{max}
8 / 8	2500 N	50 Nm



Inner bracket R	Slot	ESD	No.	FS
	8 / 8		10 3 842 535 577	2xFS2

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

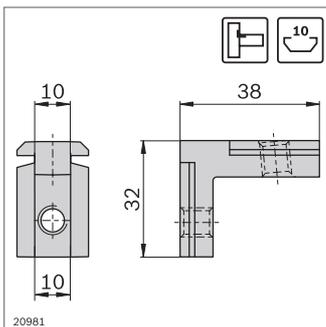


Slot	F_{max}	M_{max}
8 / 10	2500 N	50 Nm



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

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

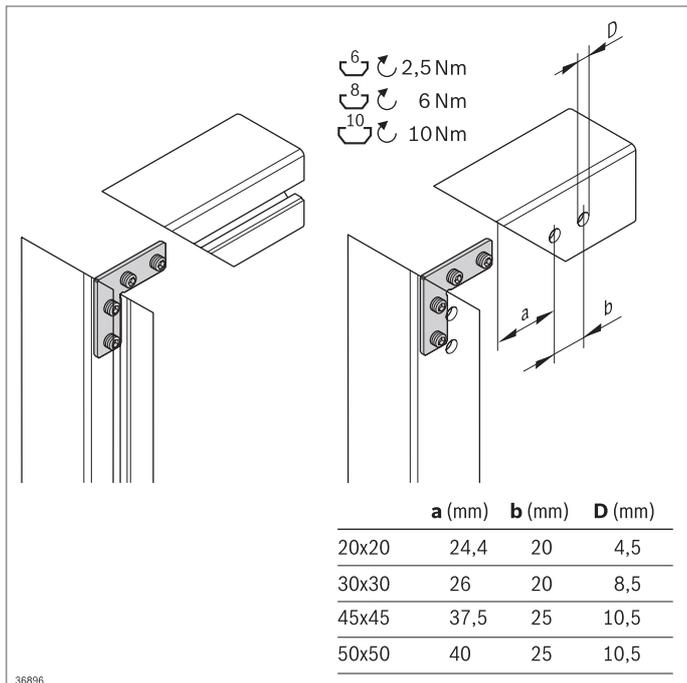


Slot	F_{max}	M_{max}
10 / 10	3000 N	100 Nm



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

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

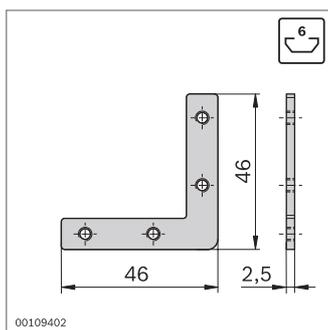


Miter bracket



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

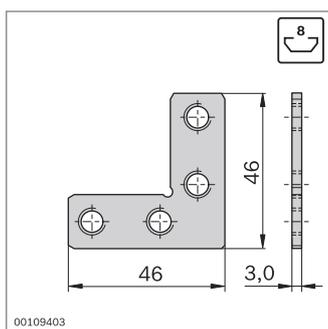
3



FS1
DIN EN ISO 4027
M4x5

Miter bracket	Slot	ESD	No.	FS
	6		20	3 842 535 626 4xFS1

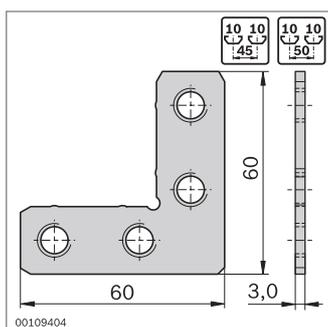
Material: Steel; stainless
Fastening material: Steel; galvanized
Scope of delivery: Incl. fastening material (FS)



FS2
DIN EN ISO 4026
M8x8

Miter bracket	Slot	ESD	No.	FS
	8		20	3 842 535 627 4xFS2

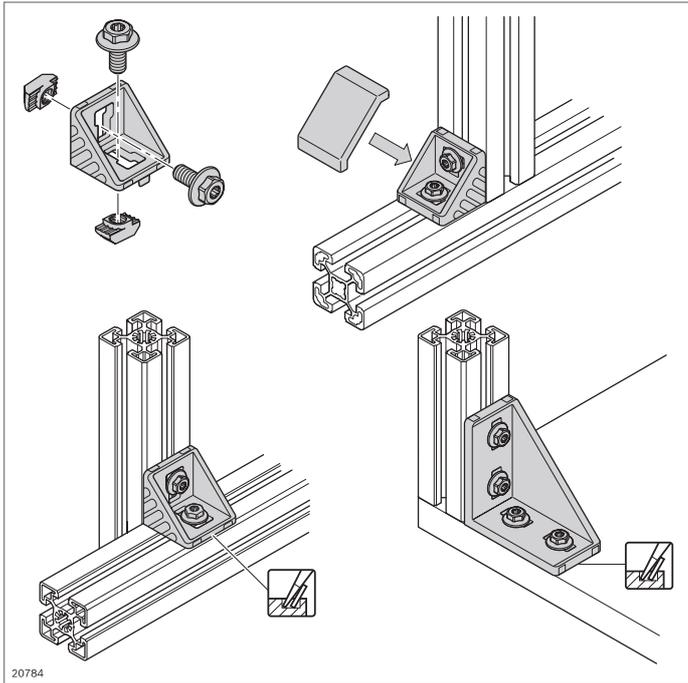
Material: Steel; galvanized
Fastening material: Steel; galvanized
Scope of delivery: Incl. fastening material (FS)



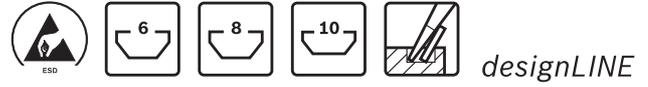
FS3
DIN EN ISO 4026
M10x10

Miter bracket	Slot	ESD	No.	FS
	10		20	3 842 535 625 4xFS3

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



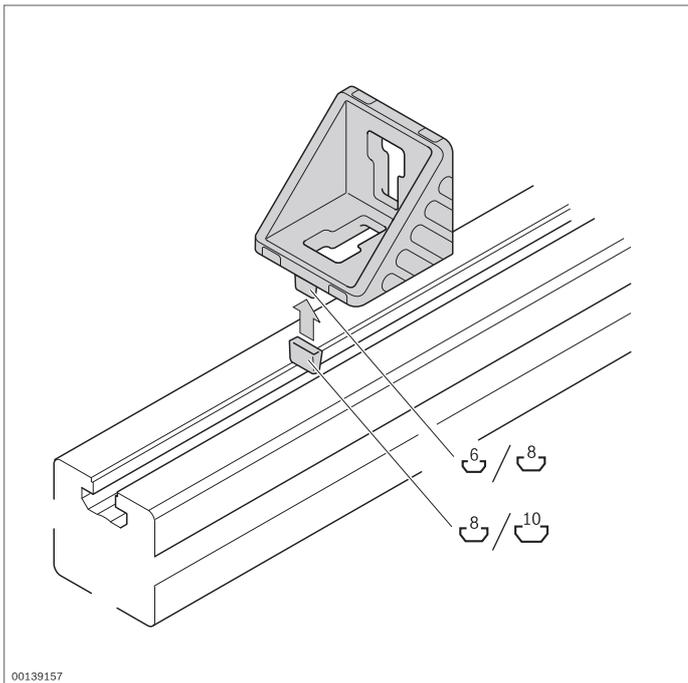
Bracket

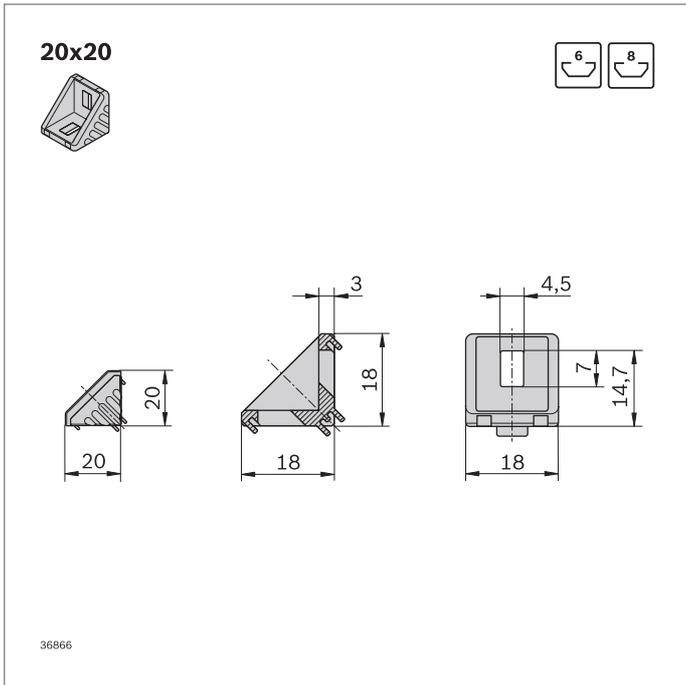


- ▶ Brackets with centering lugs for rapid, precise assembly with protection against turning
- ▶ Centering lugs can be easily broken off for assembly on plates or at right angles to the slot
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- ▶ Intermediate element for positioning brackets in the next largest slot
- ▶ Sliding block offset for off-center positioning of the 45/45 bracket
- ▶ For preventing dry running. available in signal gray (RAL 7004) and black ESD (RAL 9005)
- ▶ Profile finishing: Not required

Technical data (p. 18-19)

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



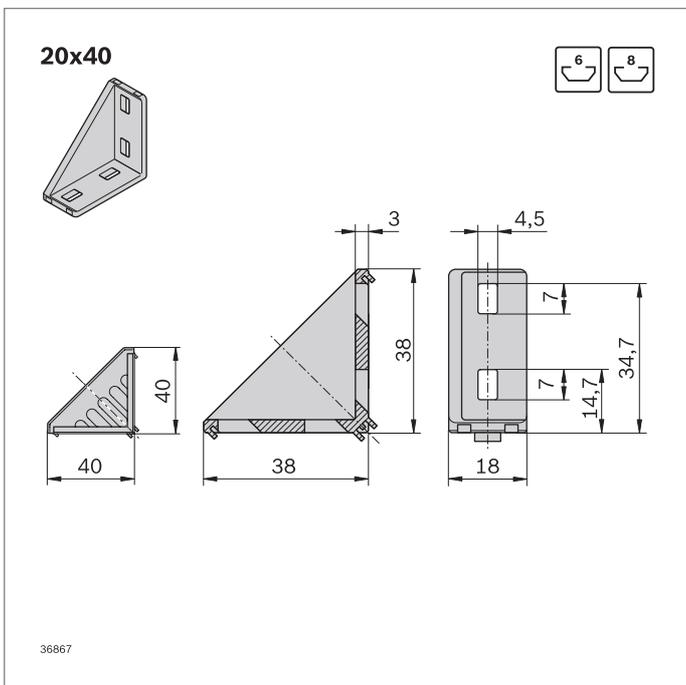


20x20	Slot	ESD	No.	FS
Set (standard)	6 / 6		1 3 842 523 511	2xFS1
<i>designLINE</i> set	6 / 6		1 3 842 551 596	2xFS1
Bracket (standard)	6		100 3 842 523 508	
Cover cap, signal gray			100 3 842 548 842	
Cover cap, black			20 3 842 548 843	
Intermediate element for 8 mm slot	6 / 8		100 3 842 523 516	

Material: Bracket: Diecast aluminum, vibratory ground
designLINE bracket: painted (RAL 9006)
 Intermediate element: PA; black
 Cover cap: PP
 Fastening material: Steel; galvanized

Scope of delivery: Set incl. fastening material (FS)

Type				
20x20	700 N	6 Nm	25 Nm	–



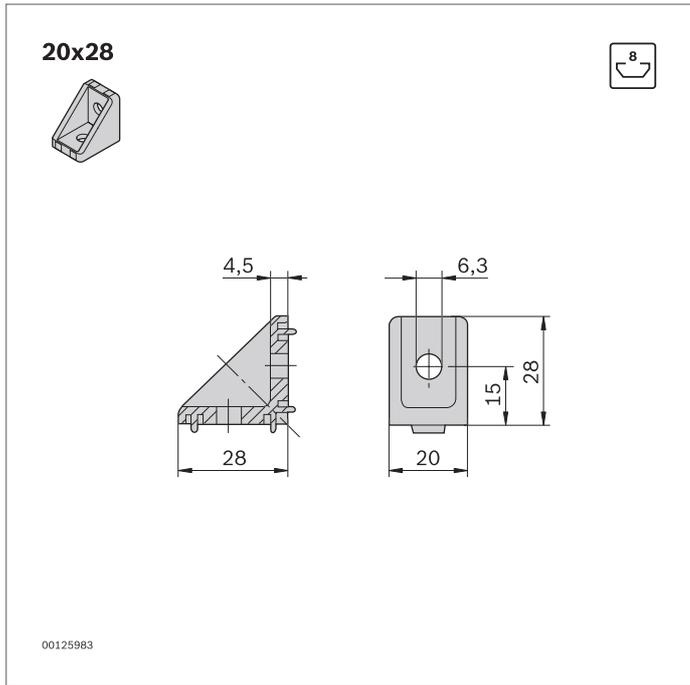
20x40	Slot	ESD	No.	FS
Set (standard)	6 / 6		1 3 842 523 520	4xFS1
<i>designLINE</i> set	6 / 6		1 3 842 551 597	4xFS1
Bracket (standard)	6		20 3 842 523 517	
Cover cap, signal gray			20 3 842 548 844	
Cover cap, black			20 3 842 548 845	
Intermediate element for 8 mm slot	6 / 8		100 3 842 523 516	

Material: Bracket: Diecast aluminum, vibratory ground
designLINE bracket: painted (RAL 9006)
 Intermediate element: PA; black
 Cover cap: PP
 Fastening material: Steel; galvanized

Scope of delivery: Set incl. fastening material (FS)

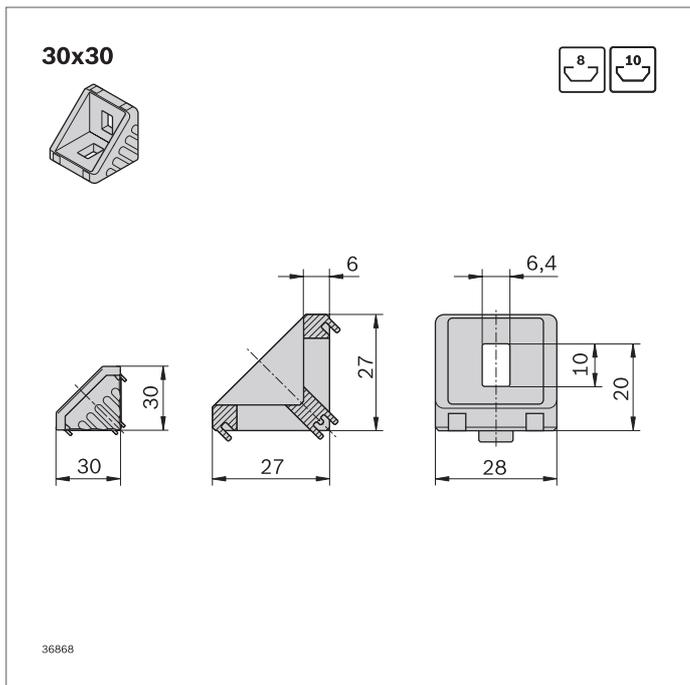
Type				
20x40	1400 N	15 Nm	50 Nm	8 Nm





20x28	Slot	ESD	No.	FS
Set (standard)	8 / 8		1 3 842 502 137	2xFS1
Bracket (standard)	8		100 3 842 501 587	

Material: Diecast zinc
 Fastening material: Steel; galvanized
 Scope of delivery: Set incl. fastening material (FS)



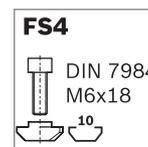
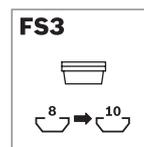
30x30	Slot	ESD	No.	FS
Set (standard)	8 / 8		1 3 842 523 528	2xFS2
	8 / 10		1 3 842 523 530	1xFS2, 2xFS3, 1xFS4
	10 / 10		1 3 842 523 532	4xFS3, 2xFS4
designLINE set	8 / 8		1 3 842 551 598	2xFS2
	8 / 10		1 3 842 551 600	1xFS2, 2xFS3, 1xFS4
	10 / 10		1 3 842 551 599	4xFS3, 2xFS4

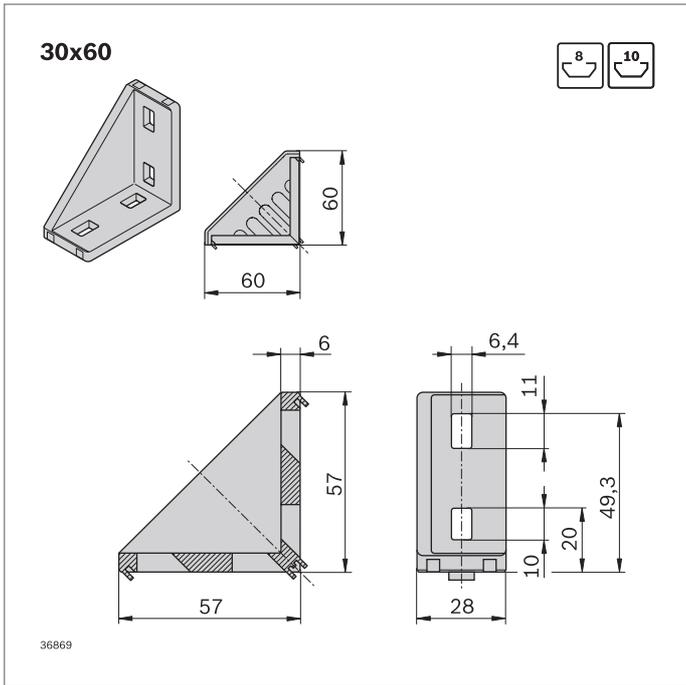
Bracket (standard)	8		100 3 842 523 525
Cover cap, signal gray			100 3 842 548 846
Cover cap, black			20 3 842 548 847
Intermediate element for 10 mm slot	8 / 10		100 3 842 523 537

Material: Bracket: Diecast aluminum, vibratory ground
 designLINE bracket: painted (RAL 9006)
 Intermediate element: PA; black
 Cover cap: PP
 Fastening material: Steel; galvanized

Scope of delivery: Set incl. fastening material (FS)

Type				
30x30	1250 N	25 Nm	75 Nm	—



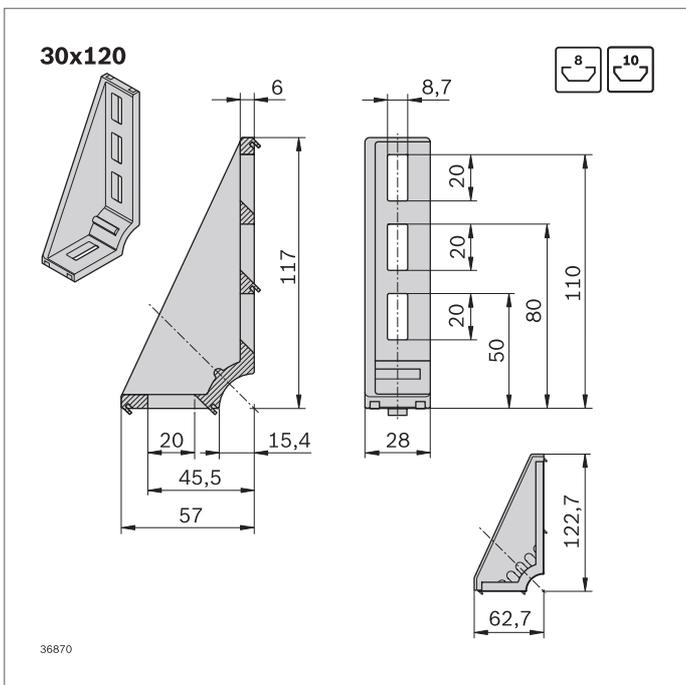
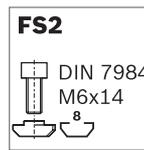


30x60	Slot	ESD	No.	FS
Set (standard)	8 / 8		1	3 842 523 541 4xFS2
<i>designLINE</i> set	8 / 8		1	3 842 551 601 4xFS2
Bracket (standard)	8		20	3 842 523 538
Cover cap, signal gray			20	3 842 548 848
Cover cap, black			20	3 842 548 849
Intermediate element for 10 mm slot	8 / 10		100	3 842 523 537

Material: Bracket: Diecast aluminum, vibratory ground
designLINE bracket: painted (RAL 9006)
 Intermediate element: PA; black
 Cover cap: PP
 Fastening material: Steel; galvanized

Scope of delivery: Set incl. fastening material (FS)

Type				
30x60	2500 N	100 Nm	170 Nm	25 Nm

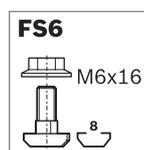


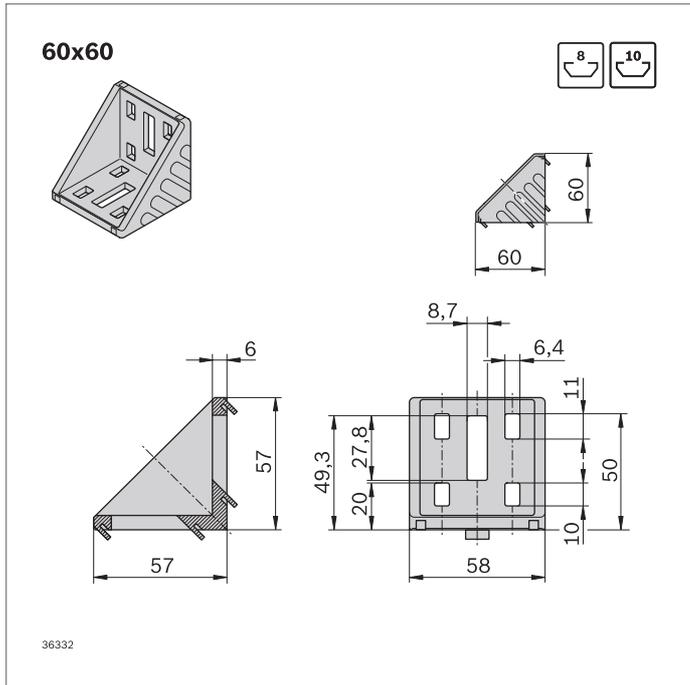
30x120	Slot	ESD	No.	FS
<i>designLINE</i> set	8 / 8		1	3 842 551 602 2xFS6
Bracket (standard)	8		20	3 842 523 587
Cover cap, signal gray			20	3 842 548 850
Cover cap, black			20	3 842 548 851
Intermediate element for 10 mm slot	8 / 10		100	3 842 523 537

Material: Bracket: Diecast aluminum, vibratory ground
designLINE bracket: painted (RAL 9006)
 Intermediate element: PA; black
 Cover cap: PP
 Fastening material: Steel; galvanized

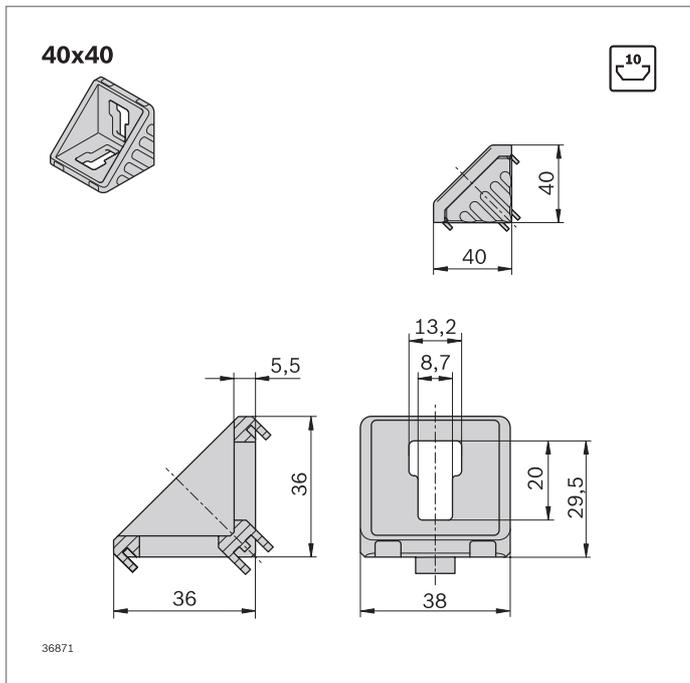
Scope of delivery: Set incl. fastening material (FS)

Type			
30x120	3750 N	100 Nm	47 Nm





Type	Slot	F_{max}	M_{max}	M_{max}	M_{max}
60x60	8	5000 N	320 Nm	370 Nm	110 Nm
	10	3000 N	125 Nm	150 Nm	-

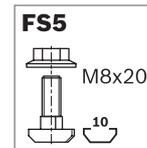
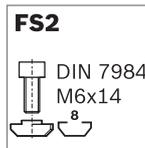


Type	F_{max}	M_{max}	M_{max}	M_{max}
40x40	3000 N	55 Nm	145 Nm	35 Nm

60x60	Slot	ESD	No.	FS
Set (standard)	8 / 8		1 3 842 523 549	8xFS2
	8 / 10		1 3 842 523 551	4xFS2, 1xFS5
	10 / 10		1 3 842 523 553	2xFS5
<i>designLINE</i> set	8 / 8		1 3 842 551 609	8xFS2
	8 / 10		1 3 842 551 610	4xFS2, 1xFS5
	10 / 10		1 3 842 551 611	2xFS5
Bracket (standard)	8		20 3 842 523 546	
Cover cap, signal gray			20 3 842 548 852	
Cover cap, black			20 3 842 548 853	
Intermediate element for 10 mm slot	10		100 3 842 523 537	

Material: Bracket: Diecast aluminum, vibratory ground
designLINE bracket: painted (RAL 9006)
 Intermediate element: PA; black
 Cover cap: PP
 Fastening material: Steel; galvanized

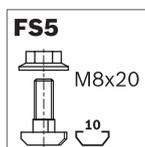
Scope of delivery: Set incl. fastening material (FS)

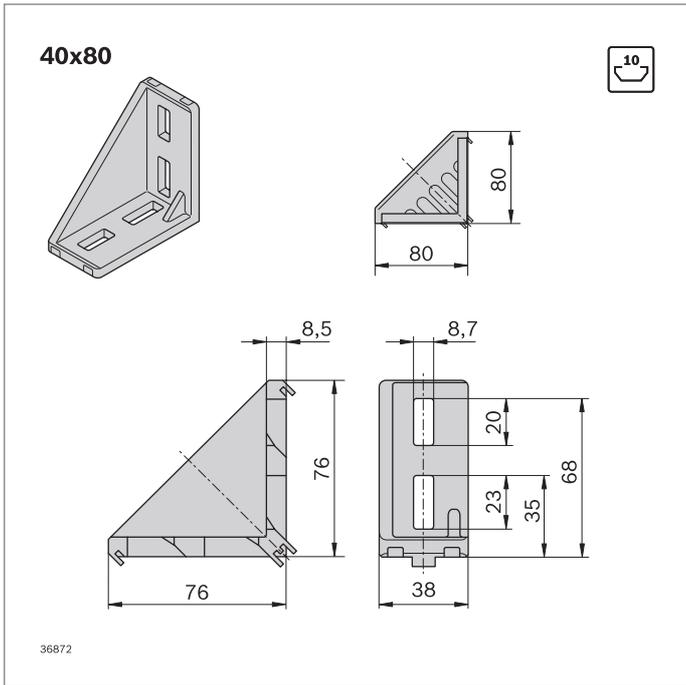


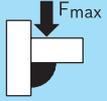
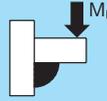
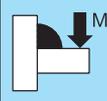
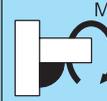
40x40	Slot	ESD	No.	FS
Set (standard)	10 / 10		1 3 842 529 383	2xFS5
	10 / 10		1 3 842 551 603	2xFS5
Bracket (standard)	10		100 3 842 528 967	
Cover cap, signal gray			100 3 842 548 854	
Cover cap, black			20 3 842 548 855	

Material: Bracket: Diecast aluminum, vibratory ground
designLINE bracket: painted (RAL 9006)
 Cover cap: PP
 Fastening material: Steel; galvanized

Scope of delivery: Set incl. fastening material (FS)

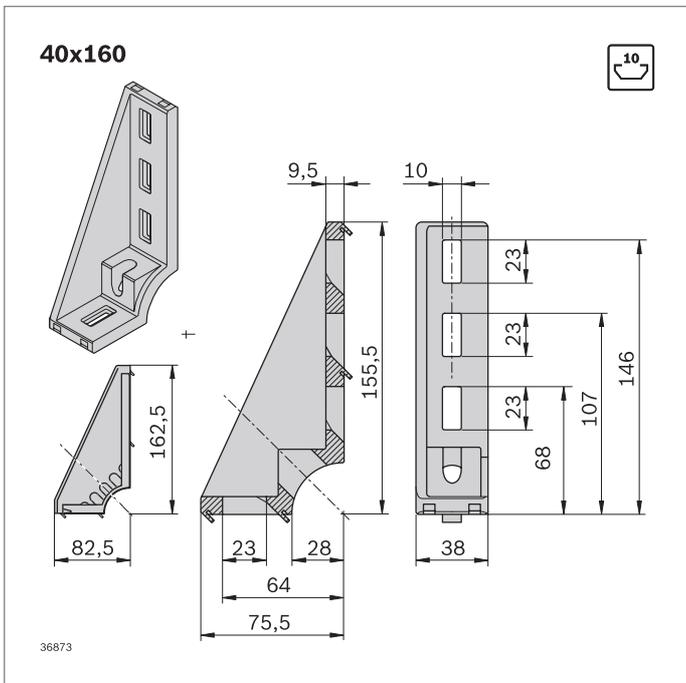
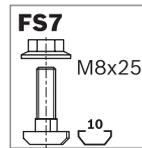


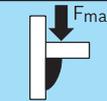
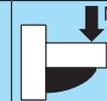
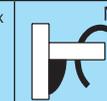


Type				
40x80	6000 N	180 Nm	400 Nm	60 Nm

40x80	Slot	ESD		No.	FS
Set (standard)	10 / 10		1	3 842 529 386	4xFS7
<i>designLINE</i> set	10 / 10		1	3 842 551 604	4xFS7
Bracket (standard)	10		20	3 842 529 005	
Cover cap, signal gray			20	3 842 548 856	
Cover cap, black			20	3 842 548 857	

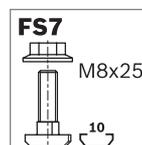
Material: Bracket: Diecast aluminum, vibratory ground
designLINE bracket: painted (RAL 9006)
 Cover cap: PP
 Fastening material: Steel; galvanized
 Scope of delivery: Set incl. fastening material (FS)

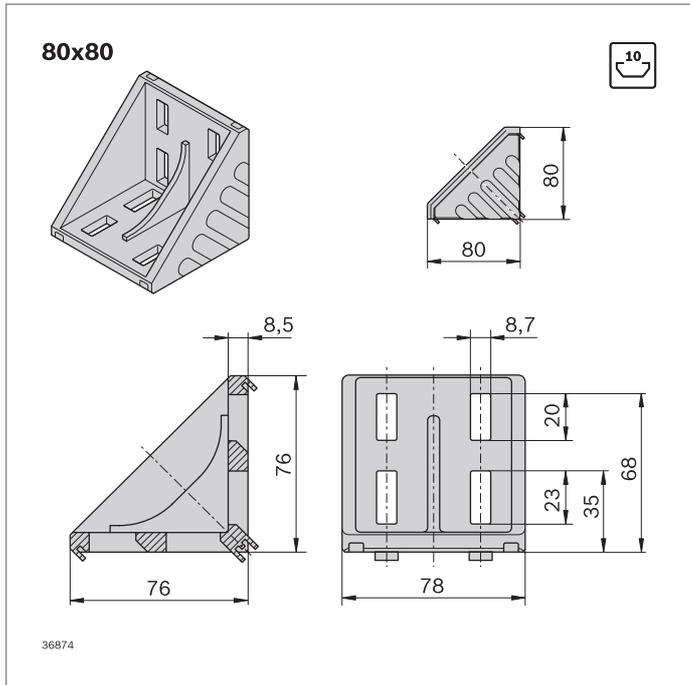


Type			
40x160	9000 N	250 Nm	60 Nm

40x160	Slot	ESD		No.	FS
<i>designLINE</i> set	10 / 10		1	3 842 551 605	2x FS7
Bracket (standard)	10		20	3 842 529 006	
Cover cap, signal gray			20	3 842 548 858	
Cover cap, black			20	3 842 548 859	

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

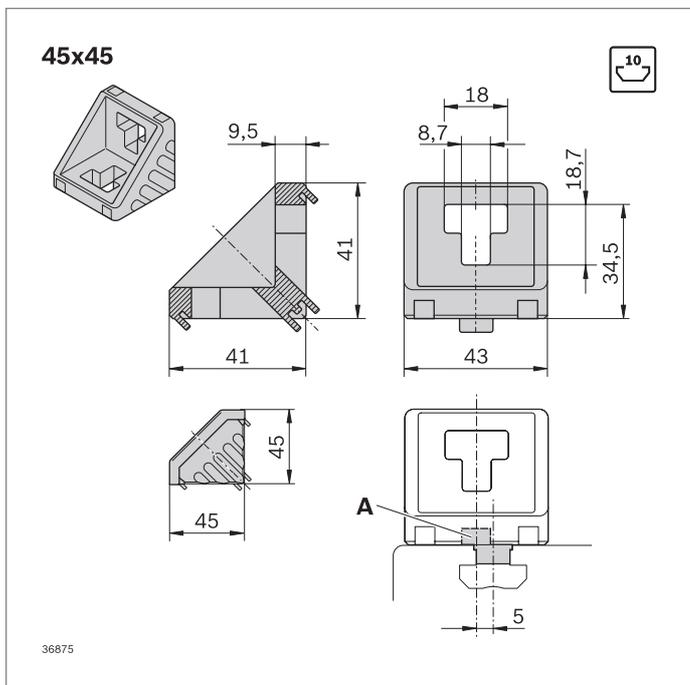
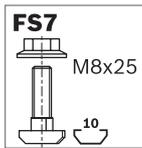




Type	F_{max}	M_{max}	M_{max}	M_{max}
80x80	14000 N	500 Nm	1000 Nm	400 Nm

80x80	Slot	ESD	No.	FS
Set (standard)	10 / 10		1	3 842 530 360 8xFS7
<i>designLINE</i> set	10 / 10		1	3 842 551 612 8xFS7
Bracket (standard)	10		20	3 842 530 231
Cover cap, signal gray			20	3 842 548 860
Cover cap, black			20	3 842 548 861

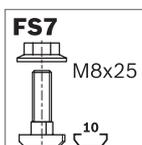
Material: Bracket: Diecast aluminum, vibratory ground
designLINE bracket: painted (RAL 9006)
 Cover cap: PP
 Fastening material: Steel; galvanized
 Scope of delivery: Set incl. fastening material (FS)

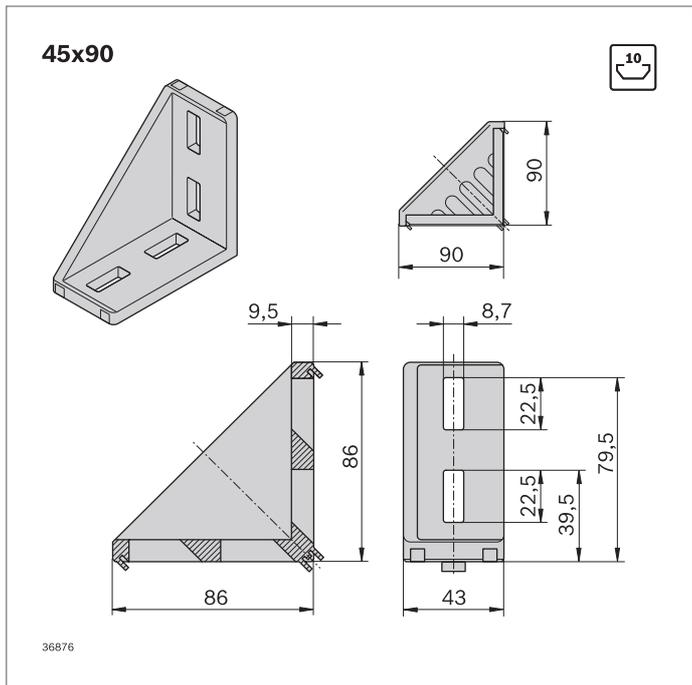


Type	F_{max}	M_{max}	M_{max}	M_{max}
45x45	3000 N	60 Nm	160 Nm	-

45x45	Slot	ESD	No.	FS
Set (standard)	10 / 10		1	3 842 523 561 2xFS7
<i>designLINE</i> set	10 / 10		1	3 842 551 606 2xFS7
Bracket (standard)	10		100	3 842 523 558
Cover cap, signal gray			100	3 842 548 862
Cover cap, black			20	3 842 548 863
Sliding block, offset (A)	10		100	3 842 523 593

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

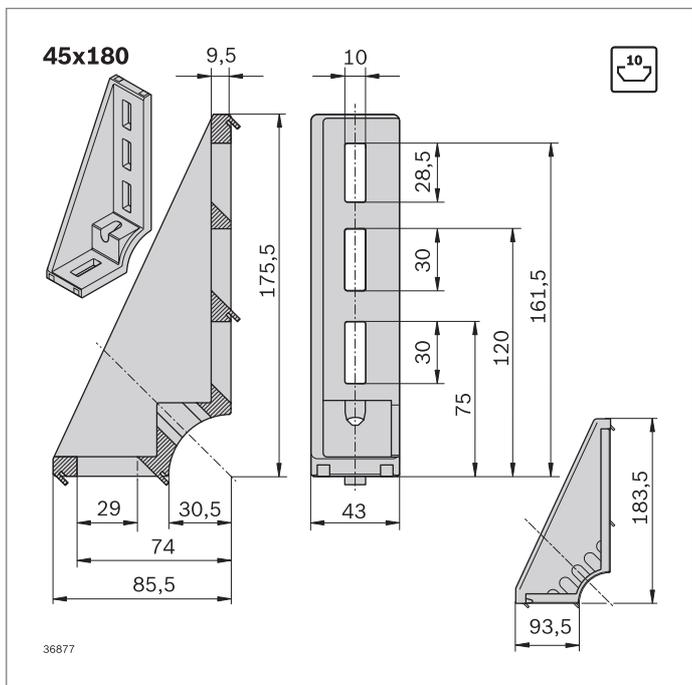
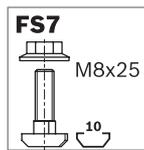




Type	F_{max}	M_{max}	M_{max}	M_{max}
45x90	6000 N	180 Nm	400 Nm	60 Nm

45x90	Slot	ESD	No.	FS
Set (standard)	10 / 10		1	3 842 523 570 4xFS7
<i>designLINE</i> set	10 / 10		1	3 842 551 607 4xFS7
Bracket (standard)	10		100	3 842 523 567
Cover cap, signal gray			20	3 842 548 864
Cover cap, black			20	3 842 548 865

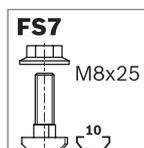
Material: Bracket: Diecast aluminum, vibratory ground
designLINE bracket: painted (RAL 9006)
 Cover cap: PP
 Fastening material: Steel; galvanized
 Scope of delivery: Set incl. fastening material (FS)

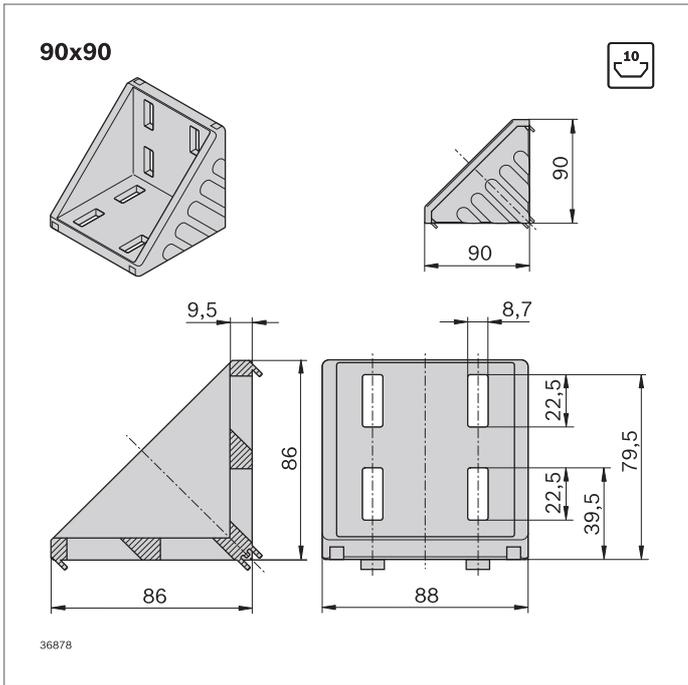


Type	F_{max}	M_{max}	M_{max}
45x180	9000 N	250 Nm	65 Nm

45x180	Slot	ESD	No.	FS
<i>designLINE</i> set	10 / 10		1	3 842 551 608 2xFS7
Bracket (standard)	10		20	3 842 523 583
Cover cap, signal gray			20	3 842 548 866
Cover cap, black			20	3 842 548 867

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

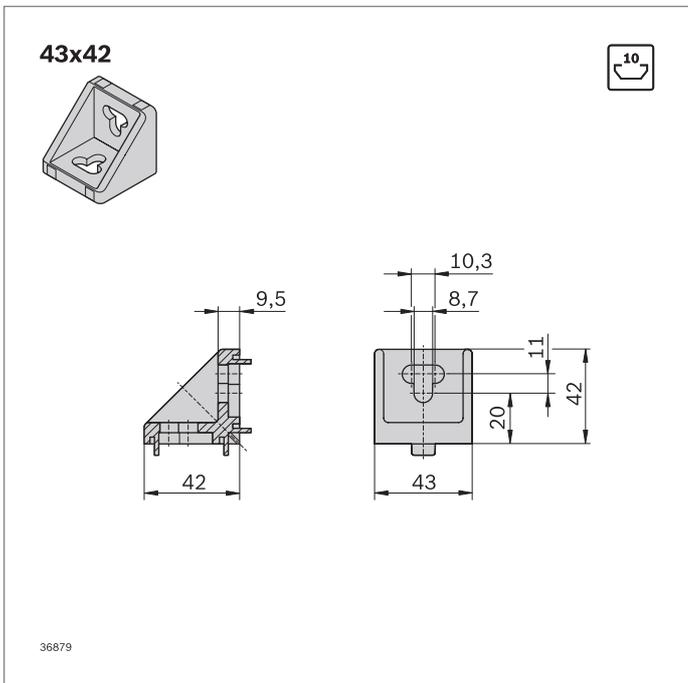
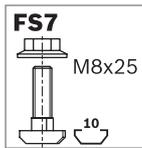




Type	F_{max}	M_{max}	M_{max}	M_{max}
90x90	12000 N	370 Nm	800 Nm	200 Nm

90x90	Slot	ESD		No.	FS
Set (standard)	10 / 10		1	3 842 523 578	8xFS7
<i>designLINE</i> set	10 / 10		1	3 842 551 613	8xFS7
Bracket (standard)	10		20	3 842 523 575	
Cover cap, signal gray			20	3 842 548 868	
Cover cap, black			20	3 842 548 869	

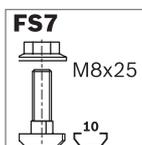
Material: Bracket: Diecast aluminum, vibratory ground
designLINE bracket: painted (RAL 9006)
 Cover cap: PP
 Fastening material: Steel; galvanized
 Scope of delivery: Set incl. fastening material (FS)

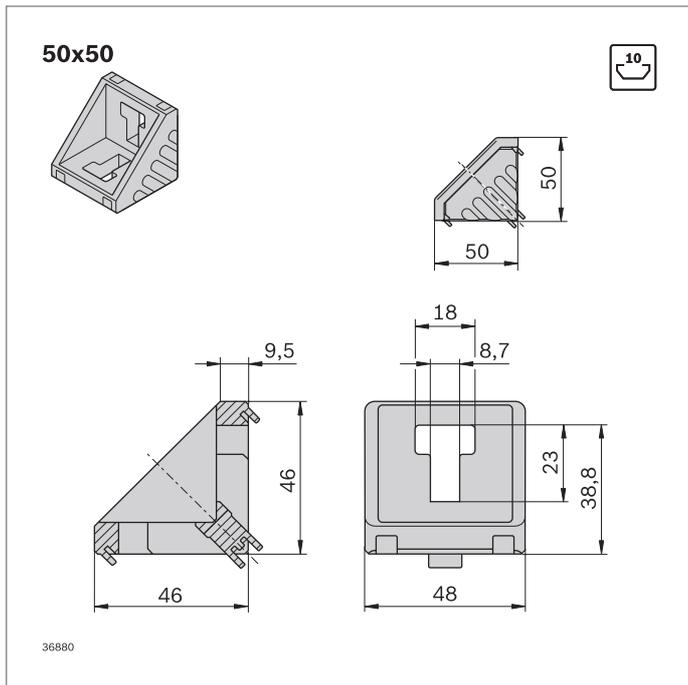


Type	F_{max}	M_{max}	M_{max}	M_{max}
43x42	2000 N	-	160 Nm	-

43x42	Slot	ESD		No.	FS
Set (standard)	10 / 10		1	3 842 352 009	2xFS7
Bracket (standard)	10		100	3 842 348 526	

Material: Bracket: Diecast aluminum
 Fastening material: Steel; galvanized
 Scope of delivery: Set incl. fastening material (FS)



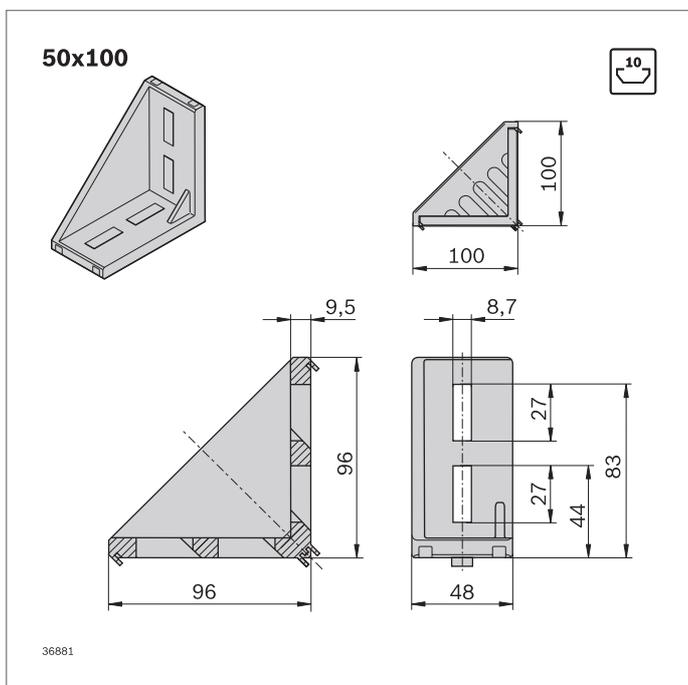
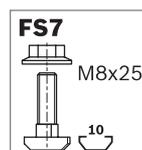


50x50	Slot	ESD	No.	FS
Set (standard)	10 / 10		1	3 842 530 259 2xFS7
Bracket (standard)	10		20	3 842 530 381
Cover cap, signal gray			20	3 842 548 870
Cover cap, black			20	3 842 548 871

Material: Bracket: Diecast aluminum, vibratory ground
Cover cap: PP
Fastening material: Steel; galvanized

Scope of delivery: Set incl. fastening material (FS)

Type				
50x50	4000 N	125 Nm	250 Nm	38 Nm

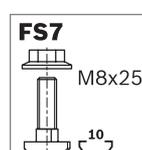


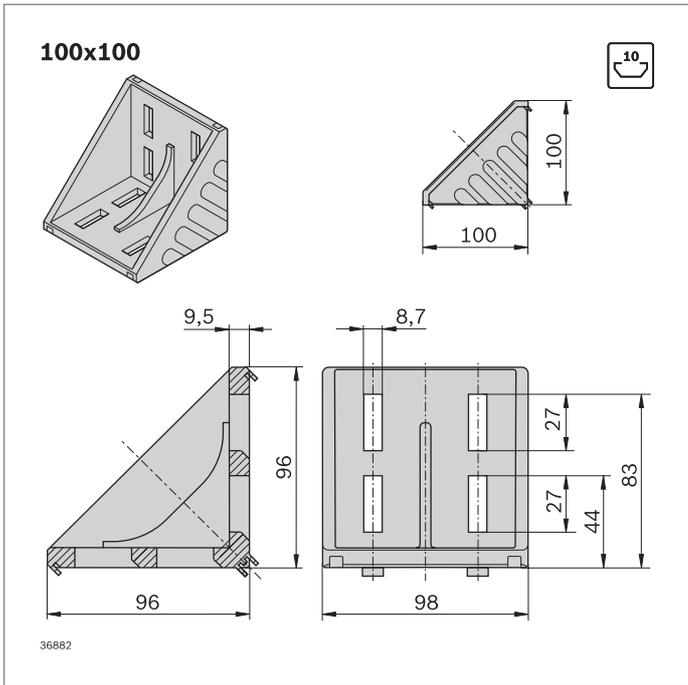
50x100	Slot	ESD	No.	FS
Set (standard)	10 / 10		1	3 842 530 260 4xFS7
Bracket (standard)	10		20	3 842 530 382
Cover cap, signal gray			20	3 842 548 872
Cover cap, black			20	3 842 548 873

Material: Bracket: Diecast aluminum, vibratory ground
Cover cap: PP
Fastening material: Steel; galvanized

Scope of delivery: Set incl. fastening material (FS)

Type				
50x100	7500 N	300 Nm	600 Nm	73 Nm

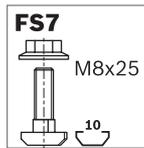


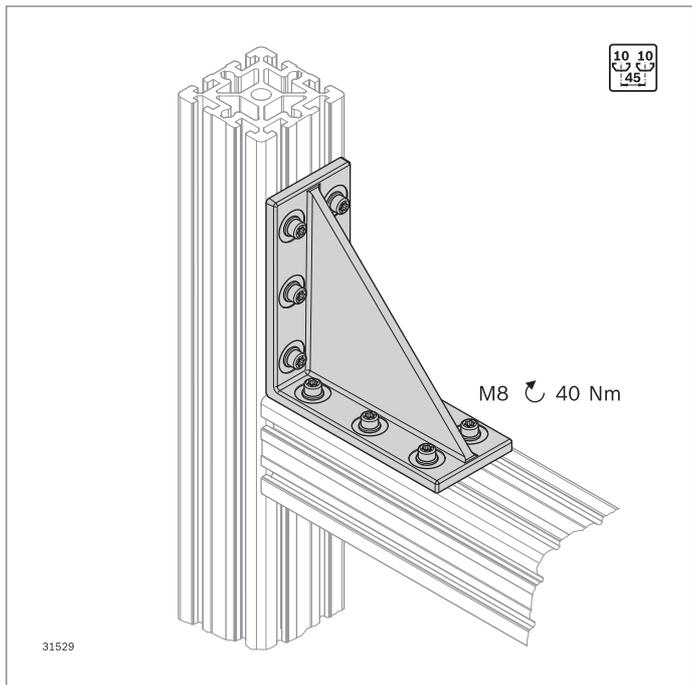


100x100	Slot	ESD		No.	FS
Set (standard)	10 / 10		1	3 842 530 361	8xFS7
Bracket (standard)	10		20	3 842 530 460	
Cover cap, signal gray			20	3 842 548 874	
Cover cap, black			20	3 842 548 875	

Material: Bracket: Diecast aluminum, vibratory ground
 Cover cap: PP
 Fastening material: Steel; galvanized
 Scope of delivery: Set incl. fastening material (FS)

Type				
100x100	15000 N	550 Nm	1100 Nm	480 Nm



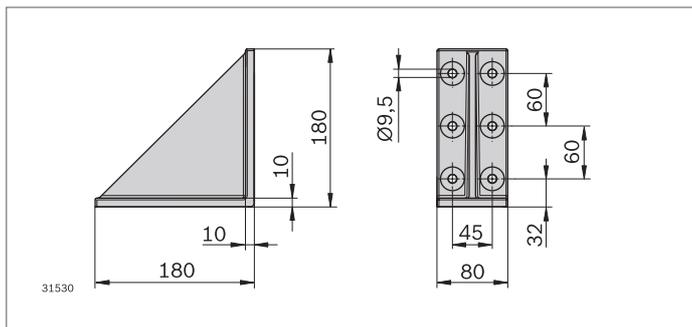


Heavy-duty connector 180x180 dynamic load



- ▶ Heavy-duty connector for reliable absorption of high forces
- ▶ Can be used for both static and dynamic forces
- ▶ Connection possible in any position
- ▶ Profile finishing: Not required
- ▶ Calculation program for static and dynamic forces included in MTpro planning software
- ▶ Focus profile: 90x90, 90x180, 90x360

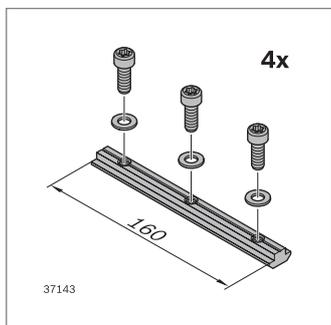
Required accessories:
Mounting kit



180x180	Slot	ESD	No.
	10		3 842 555 616

Material: Cast iron; galvanized
Scope of delivery: Bracket

Type				
180x180	30000 N	5600 Nm	5600 Nm	1400 Nm



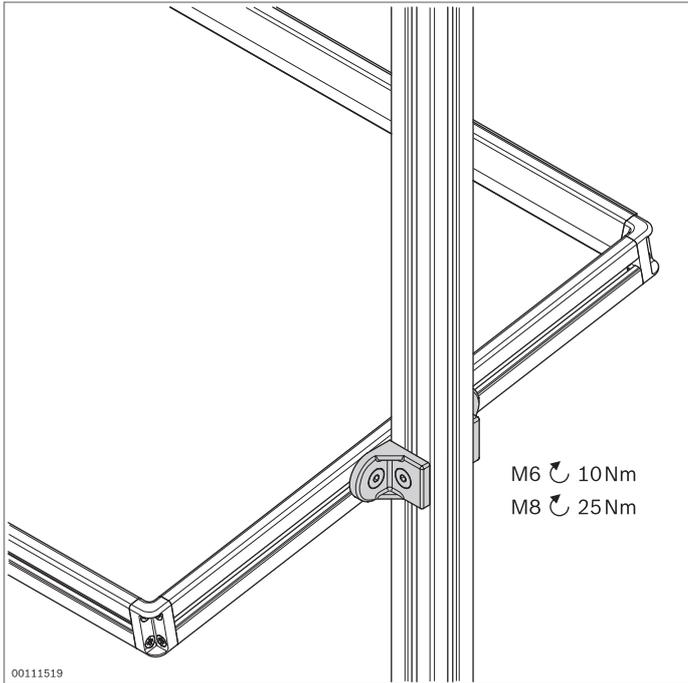
Slot	
10 (M8)	6000 ... 18000 N

Mounting kit

- ▶ For connecting a heavy-duty angle to a profile
- ▶ Set consists of 4 sliding blocks and 12 screws with washers

Mounting kit	Slot	M	ESD	No.
	10	8		Set 3 842 548 955

Material: Screws: Steel; galvanized
Sliding block: Steel; galvanized
Scope of delivery: 4 x sliding blocks, 12 x washers, 12 x screws M8 10.9 microencapsulated

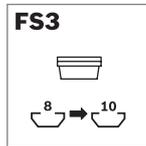
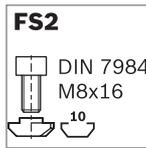
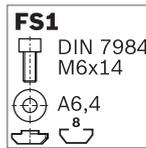
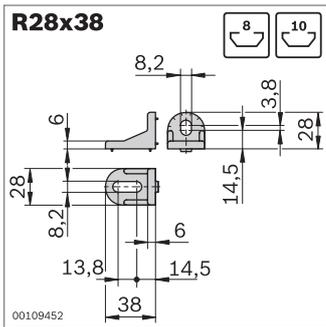


Bracket R



designLINE

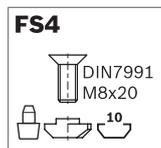
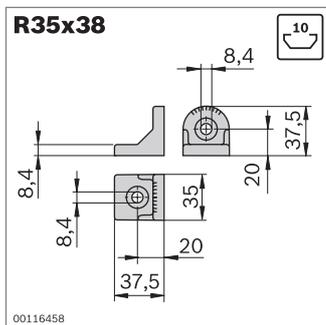
- ▶ For connecting profiles at any angle
- ▶ No interfering edges thanks to rounded bracket
- ▶ Brackets with centering lugs for rapid, precise assembly with protection against turning
- ▶ Centering lugs can be easily broken off for assembly on plates or at right angles to the slot
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- ▶ Profile finishing: Not required



R28x38	Slot	ESD	No.	FS
Set (standard)	8 / 10		1 3 842 515 547	FS1, FS2, 2xFS3
	10 / 10		1 3 842 521 580	2xFS2, 4xFS3
<i>designLINE</i> set	8 / 10		1 3 842 538 703	FS1, FS2, 2xFS3
	10 / 10		1 3 842 538 704	2xFS2, 4xFS3
Bracket (standard)	8 / 10		100 3 842 515 473	

Material: Bracket: Diecast zinc
designLINE bracket: painted (RAL 9006)
 Intermediate element: PA; black
 Fastening material: Steel; galvanized

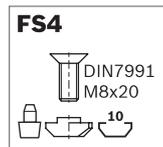
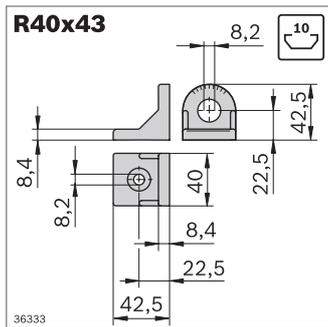
Scope of delivery: Set incl. fastening material (FS)



R35x38	Slot	ESD	No.	FS
Set (standard)	10 / 10		1 3 842 532 274	2xFS4
<i>designLINE</i> set	10 / 10		1 3 842 538 705	2xFS4
Bracket (standard)	10		100 3 842 529 020	

Material: Bracket: Diecast aluminum
designLINE bracket: painted (RAL 9006)
 Centering bolts: PA6, black
 Fastening material: Steel; galvanized

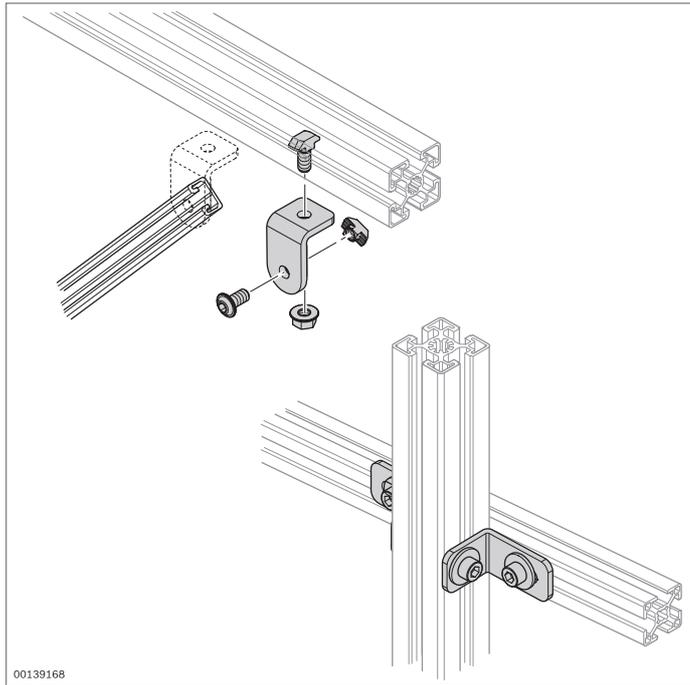
Scope of delivery: Set incl. fastening material (FS)



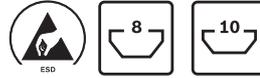
R40x43	Slot	ESD		No.	FS
Set (standard)	10 / 10		1	3 842 518 424	2xFS4
<i>designLINE</i> set	10 / 10		1	3 842 538 706	2xFS4
Bracket (standard)	10		100	3 842 504 760	

Material: Bracket: Diecast zinc
designLINE bracket: painted (RAL 9006)
 Centering bolts: PA6, black
 Fastening material: Steel; galvanized

Scope of delivery: Set incl. fastening material (FS)

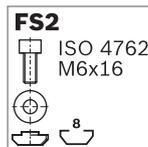
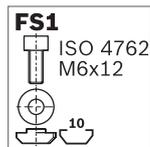
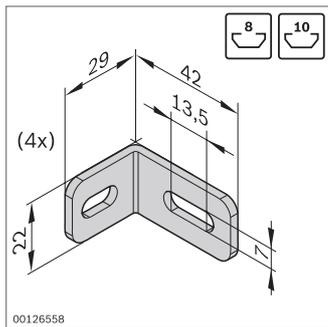


Steel bracket



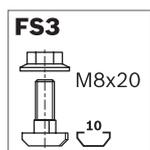
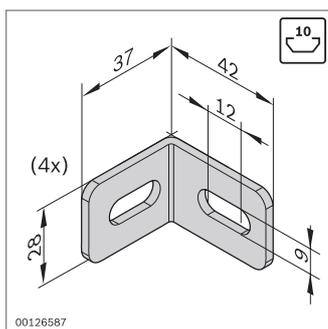
- ▶ Steel bracket without centering lugs for fastening at any angle
- ▶ Profile finishing: Not required

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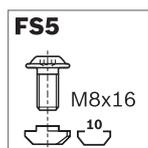
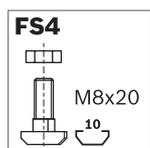
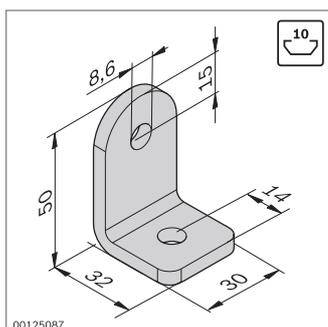
Bracket set	Slot	ESD	No.	FS
	8 / 10		4	3 842 537 862 4xFS1, 4xFS2

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



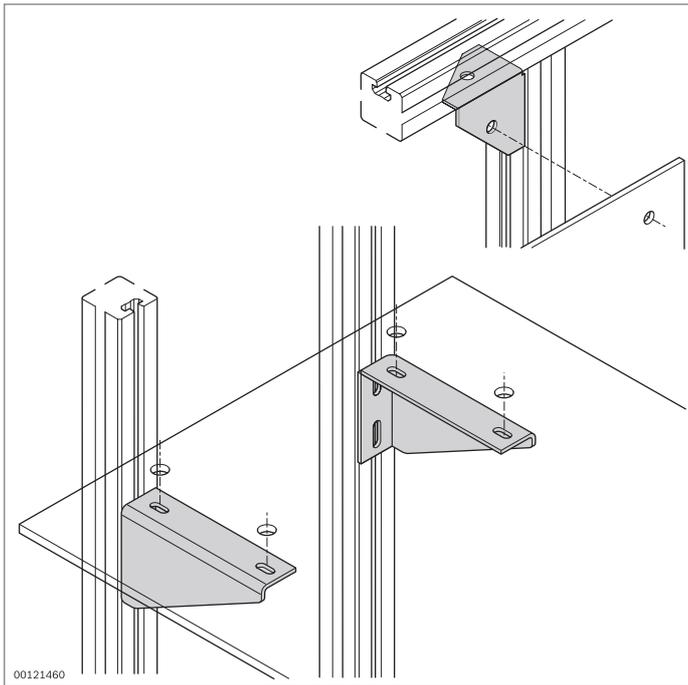
Bracket set	Slot	ESD	No.	FS
	10 / 10		4	3 842 537 861 8xFS3

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

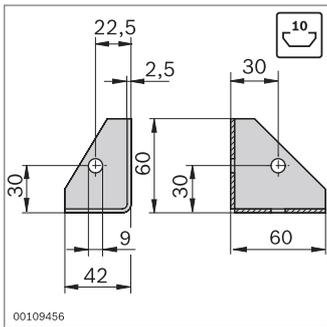


Bracket set	Slot	ESD	No.	FS
	10 / 10		20	3 842 536 729 FS4, FS5

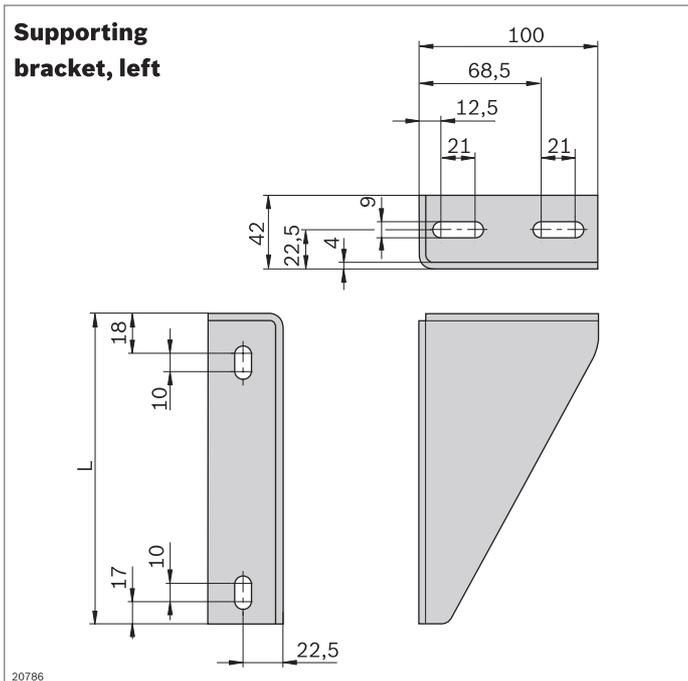
Material: Steel; galvanized
 Fastening material: Steel; galvanized
 Scope of delivery: Set incl. fastening material (FS)



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Metal bracket Supporting bracket



Metal bracket

- ▶ Metal bracket for right-angled profile connections
- ▶ Screw fitting of panel elements in the stiffening fin bore
- ▶ Profile finishing: Not required

Supporting bracket

- ▶ Supporting bracket for fastening panel elements to profiles, e.g. for shelves
- ▶ Profile finishing: Not required

Metal bracket	ESD	No.
	20	3 842 146 813

Material: Sheet steel; galvanized

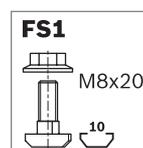
Required accessories:

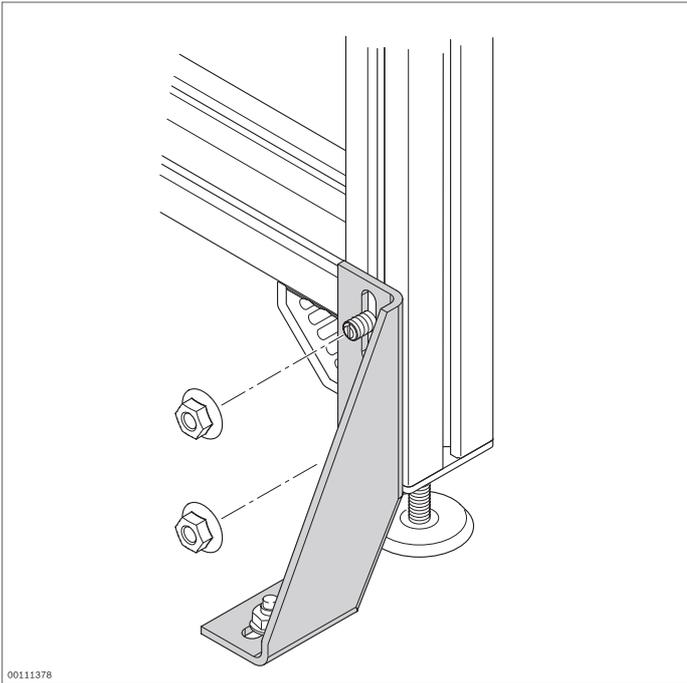
- ▶ T-bolt M8x20, 10 mm slot, **3 842 528 715** (p. 3-6)
- ▶ Flange nut M8, **3 842 345 081** (p. 3-6)

Supporting bracket	L (mm)	ESD	No.	FS
left	255		3 842 536 119	2xFS1
	335		3 842 536 121	2xFS1
	415		3 842 536 123	2xFS1
	495		3 842 536 125	2xFS1
right	255		3 842 536 120	2xFS1
	335		3 842 536 122	2xFS1
	415		3 842 536 124	2xFS1
	495		3 842 536 126	2xFS1

Material: Sheet steel; powder-coated, RAL 7037
Fastening material: Steel; galvanized

Scope of delivery: Incl. fastening material (FS)





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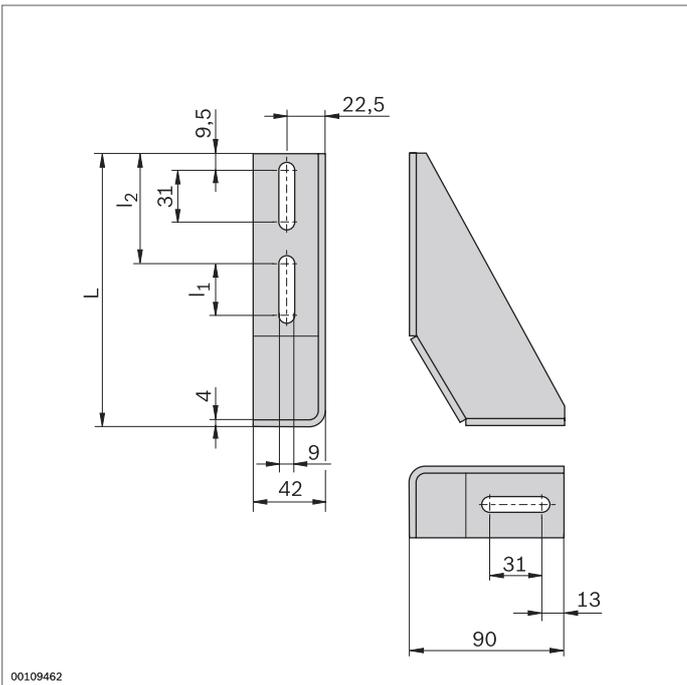
Foundation bracket



- ▶ Foundation bracket for securing frames to the floor
- ▶ The drilled hole for the floor dowel can be created without removing the foundation bracket
- ▶ Profile finishing: Not required

Required accessories:

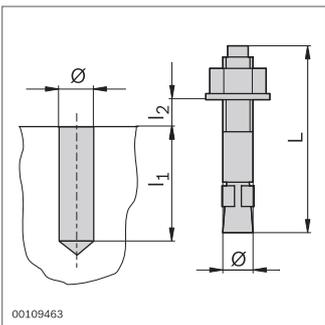
- ▶ T-bolt M8x20, 10 mm slot, **3 842 528 715** (p. 3-6)
- ▶ Flange nut M8, **3 842 345 081** (p. 3-6)
- ▶ Floor dowel



00109462

Foundation bracket	L (mm)	l ₁ (mm)	l ₂ (mm)		No.
	160	31	64.5	20	3 842 146 815
	210	91	54.5	20	3 842 146 848

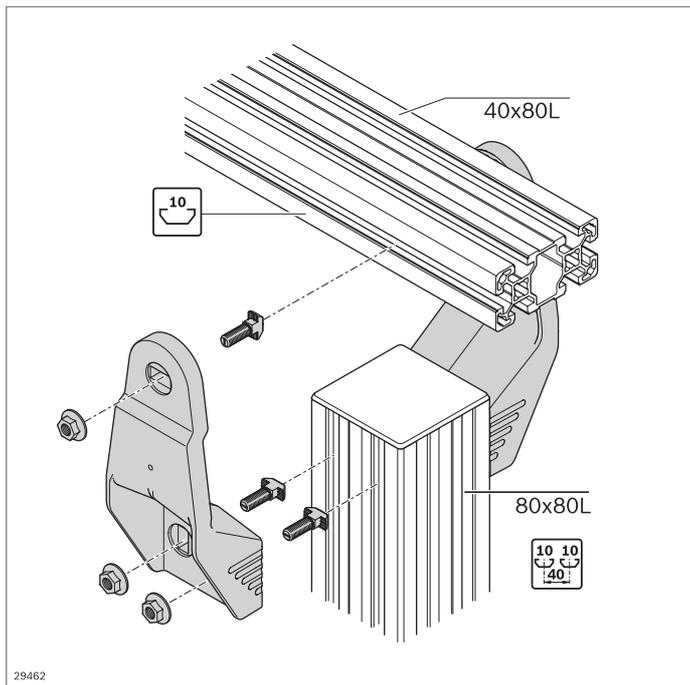
Material: Sheet steel; galvanized



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Floor dowel	Ø	L (mm)	l ₁ (mm)	l _{2 max} (mm)		No.
	8	80	65	15	100	3 842 526 560

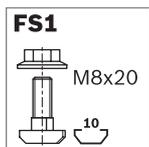
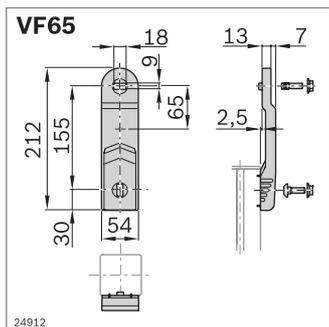
Material: Steel; galvanized



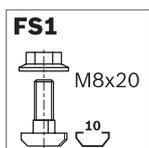
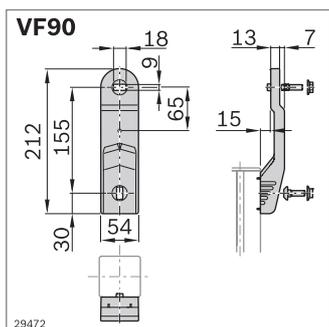
Holder AL



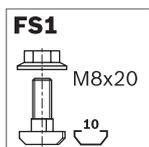
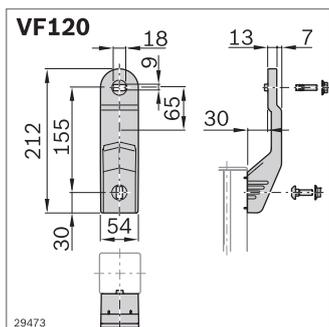
- ▶ For connecting profiles at right-angles to each other and with defined spacing, e.g. for floor supports made of 80x80L or 60x60 profiles
- ▶ Longitudinal connection possible in all profiles with 10 mm slot
- ▶ Transverse connection possible with 40 mm slot spacing
- ▶ Profile finishing: Not required



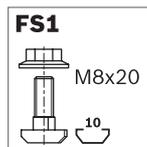
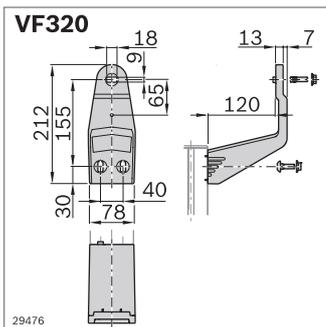
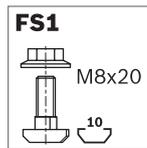
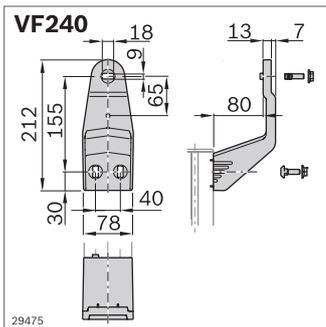
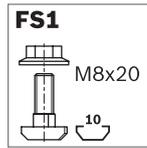
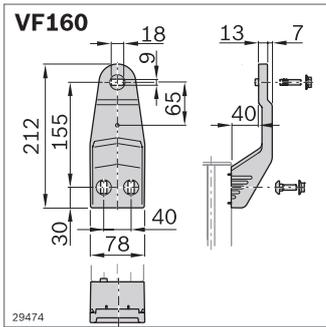
Holder	No.	FS
VFplus 65	Set 3 842 546 625	8xFS1
Material:	Holder: Diecast aluminum; powder-coated (RAL 9006) Fastening material: Steel; galvanized	
Scope of delivery:	2 x holder, fastening material (FS)	



Holder	No.	FS
VFplus 90	Set 3 842 546 626	8xFS1
Material:	Holder: Diecast aluminum; powder-coated (RAL 9006) Fastening material: Steel; galvanized	
Scope of delivery:	2 x holder, fastening material (FS)	



Holder	No.	FS
VFplus 120	Set 3 842 546 627	8xFS1
Material:	Holder: Diecast aluminum; powder-coated (RAL 9006) Fastening material: Steel; galvanized	
Scope of delivery:	2 x holder, fastening material (FS)	



Holder	No.	FS
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VFplus 160 Set **3 842 546 628** 8xFS1

Material: Holder: Diecast aluminum; powder-coated (RAL 9006)

Fastening material: Steel; galvanized

Scope of delivery: 2 x holder, fastening material (FS)

Holder	No.	FS
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VFplus 240 Set **3 842 546 629** 8xFS1

Material: Holder: Diecast aluminum; powder-coated (RAL 9006)

Fastening material: Steel; galvanized

Scope of delivery: 2 x holder, fastening material (FS)

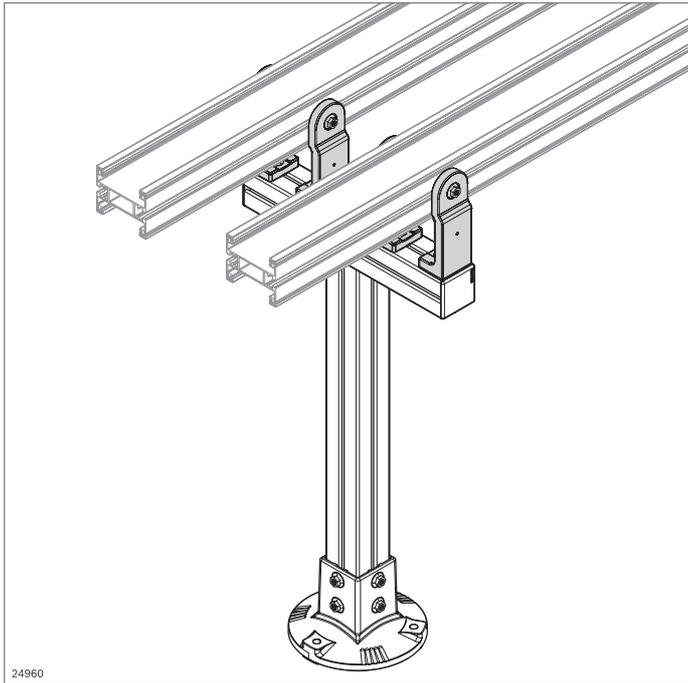
Holder	No.	FS
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VFplus 320 Set **3 842 546 630** 8xFS1

Material: Holder: Diecast aluminum; powder-coated (RAL 9006)

Fastening material: Steel; galvanized

Scope of delivery: 2 x holder, fastening material (FS)

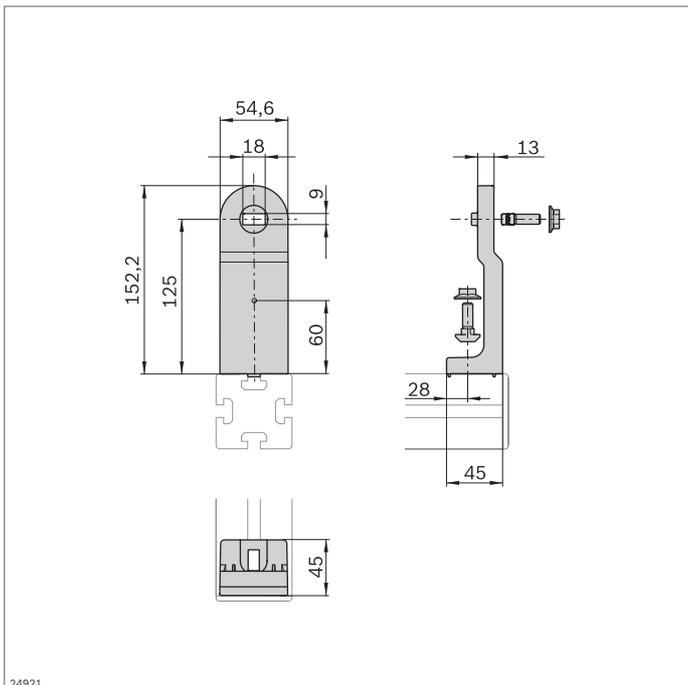


24960

Supporting bracket AL



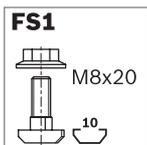
- ▶ Supporting bracket for connecting two profiles with defined spacing (approx. 2–3 m)
- ▶ Profile finishing: Not required
- ▶ Centering lugs make centering the supporting brackets in the slot easy
- ▶ If the centering lugs are removed, the supporting bracket can also be used for upward and downward sloping sections (up to approx. 45° depending on the return chain)
- ▶ Very simple assembly thanks to pluggable screwed connection
- ▶ Easy-to-clean design with draining surfaces

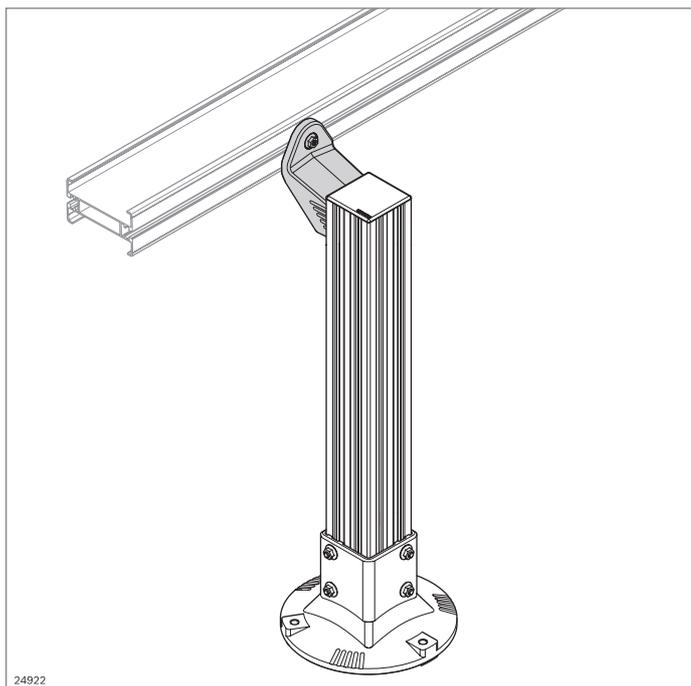


24921

Supporting bracket VFplus AL	No.	FS
Set	3 842 546 632	6xFS1

Material: Holder: Diecast aluminum, silver
 Fastening material: Steel; galvanized
 Scope of delivery: Incl. fastening material (FS)

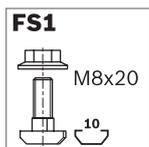
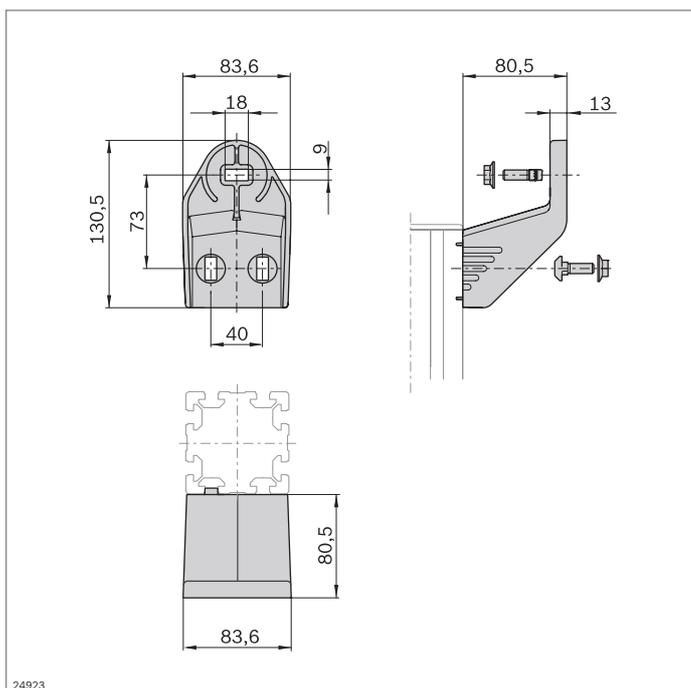




Supporting bracket AL, lateral



- ▶ Supporting bracket for connecting two profiles with defined spacing (approx. 2–3 m)
- ▶ Profile finishing: Not required
- ▶ Centering lugs make centering the supporting brackets in the slot easy
- ▶ If the centering lugs are removed, the supporting bracket can also be used for upward and downward sloping sections (up to approx. 45° depending on the return chain)
- ▶ Designed for attachment to a vertical 80x80 strut profile



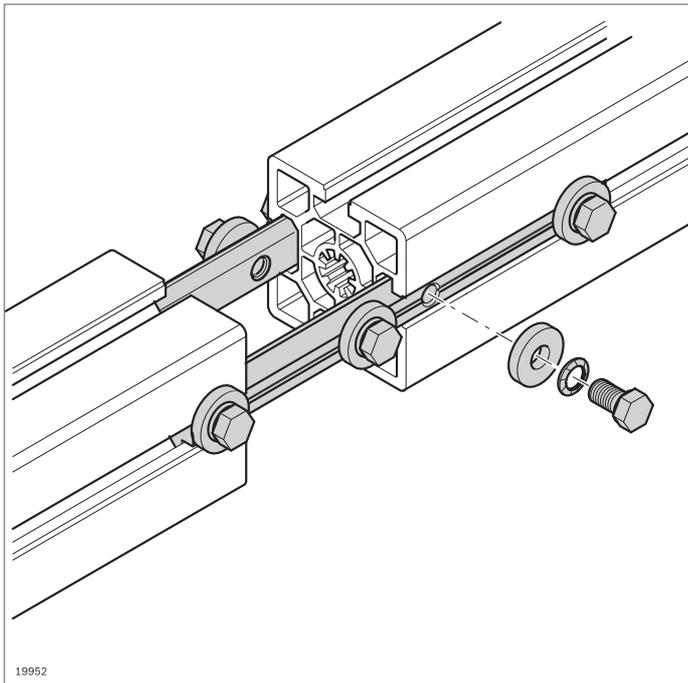
Supporting bracket VFplus lateral AL	No.	FS
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Set **3 842 547 461** 6xFS1

Material: Holder: Diecast aluminum; powder-coated (RAL 9006)

Fastening material: Steel; galvanized

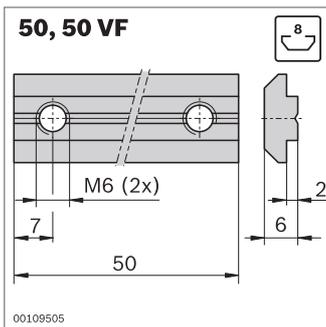
Scope of delivery: Incl. fastening material (FS)



Profile connector



- ▶ Profile connector for the end-face connection of any profiles
- ▶ For an especially strong connection: One profile connector per slot
- ▶ Profile finishing: Not required



Profile connector	⌚ (Nm)	Slot	📦 No.	FS
50 VF	10	8	10	3 842 536 787 2xFS2
50	8.5	8	1	3 842 518 427 2xFS1

Material: Steel; galvanized; fastening material: Steel; galvanized

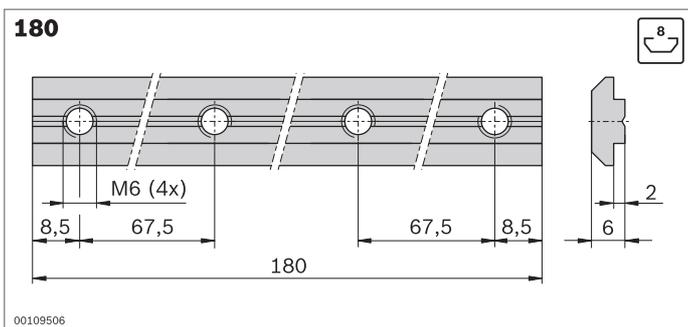
Scope of delivery: Incl. fastening material (FS)

FS1

DIN 913
M6x10

FS2

M6x8
ISO 4762
A6,4



Profile connector	⌚ (Nm)	Slot	No.	FS
180	10	8	3 842 521 216	4xFS3

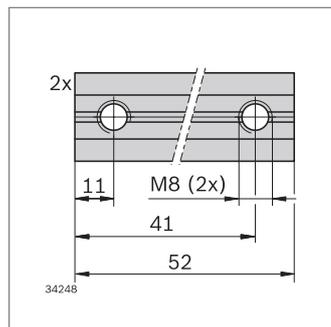
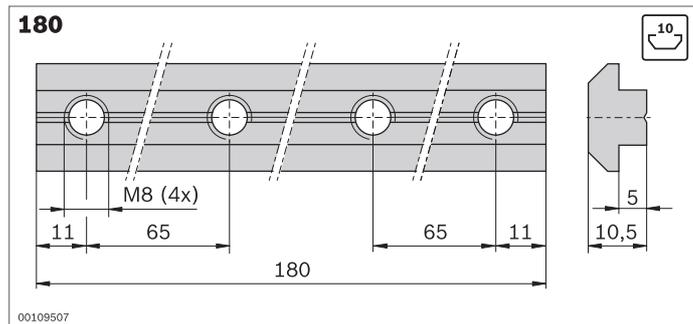
Material: Steel; galvanized; fastening material: Steel; galvanized

Scope of delivery: Incl. fastening material (FS)

FS3

DIN 4762
M6x10

DIN 7349
6,4



Profile connector	⌚ (Nm)	Slot	No.	FS
180	25	10	3 842 528 746	4xFS4

Material: Steel; galvanized; fastening material: Steel; galvanized

Scope of delivery: Incl. fastening material (FS)

FS4



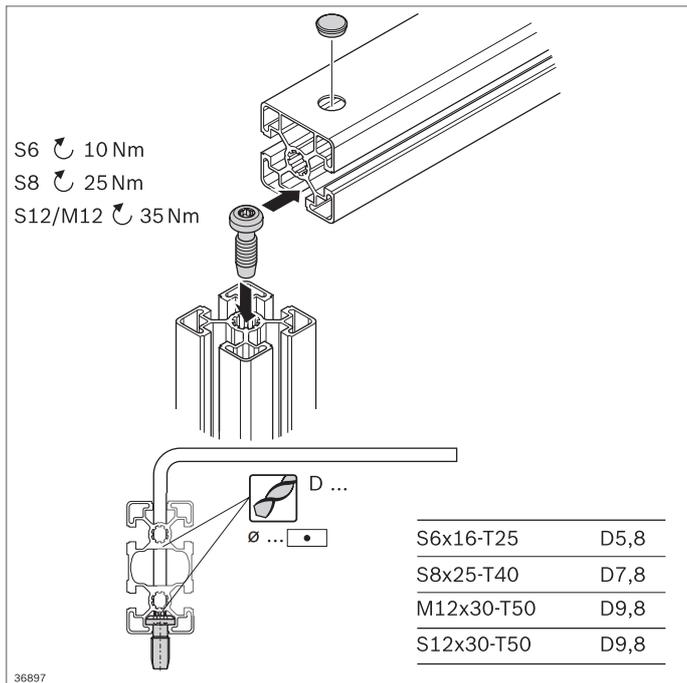
Connection kit	⌚ (Nm)	Slot	📦 No.	FS
	18	10	Set 3 842 529 881	4xFS5

Material: Steel; galvanized; fastening material: Steel; galvanized

Scope of delivery: Set (2 pieces); incl. fastening material

FS5





Central bolt, Anti-torsion element, cover cap

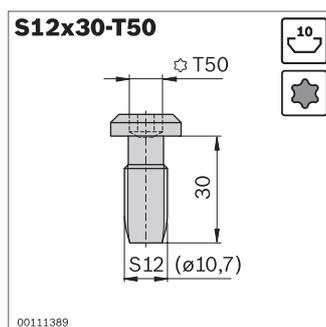
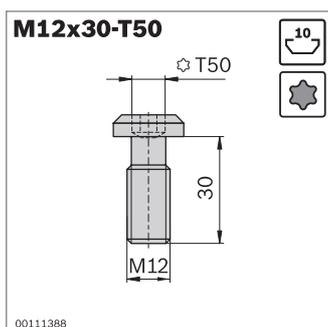
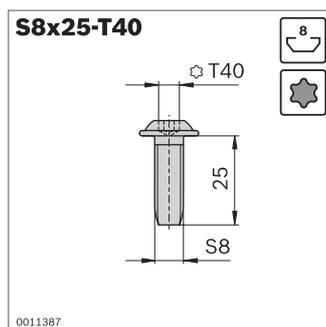
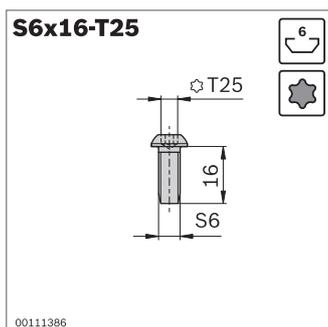


Central bolt

- ▶ Best-value connection element
- ▶ Self-tapping screw, can be mounted without profile finishing
- ▶ Profile finishing:
 - Thread cutting for M12x30 screw
 - Through-hole for screwdriver/offset screwdriver

Tools:

Offset screwdriver (p. 14-5)



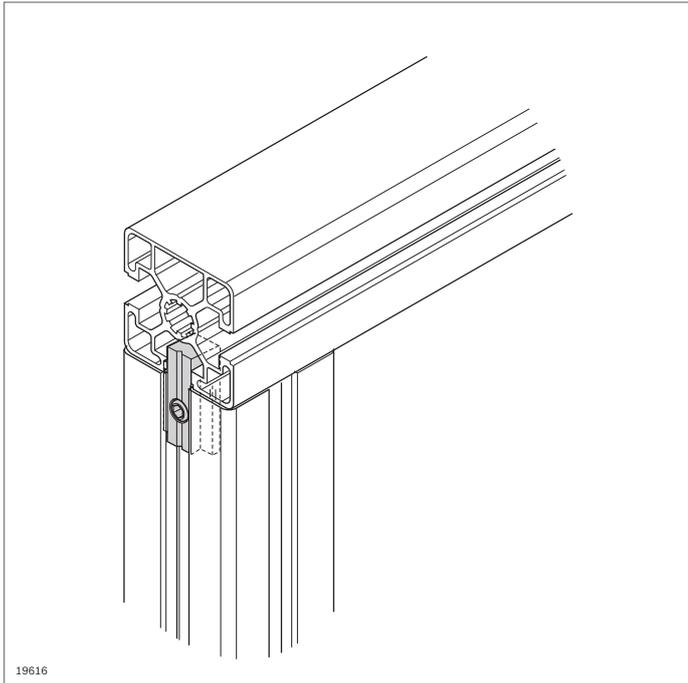
Central bolt	Slot	ESD	No.
S6x16-T25 (self-tapping)	6	ESD	100 3 842 528 593
S8x25-T40 (self-tapping)	8	ESD	100 3 842 527 174

Material: Steel; galvanized

Central bolt	Slot	ESD	No.
M12x30-T50	10	ESD	100 3 842 530 235
S12x30-T50 (self-tapping)	10	ESD	100 3 842 530 236

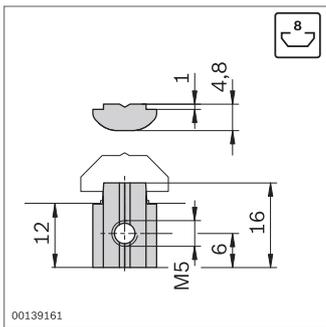
Material: Steel; galvanized

Size	F_{max}	M_{max}
S6	500 N	8 Nm
S8	800 N	43 Nm
S12	1300 N	80 Nm
M12	3000 N	80 Nm



Anti-torsion element

- ▶ Provides torsion resistance for profile connections with central bolts or quick connectors
- ▶ Subsequent installation in the connection possible

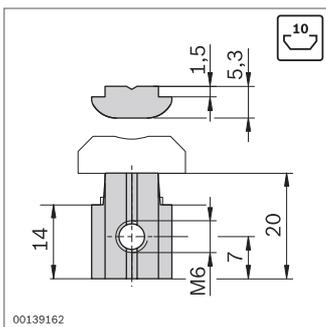


FS1

DIN 916
M5x8

Anti-torsion element	Slot	No.	FS
	8	10	3 842 530 325 FS1

Material: Steel; galvanized
Fastening material: Steel; galvanized

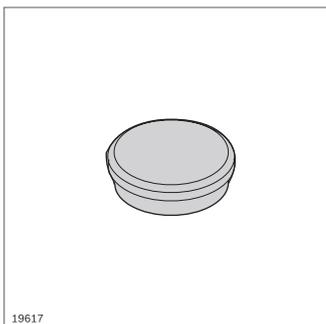


FS2

DIN 916
M6x12

Anti-torsion element	Slot	No.	FS
	10	10	3 842 530 326 FS2

Material: Steel; galvanized
Fastening material: Steel; galvanized

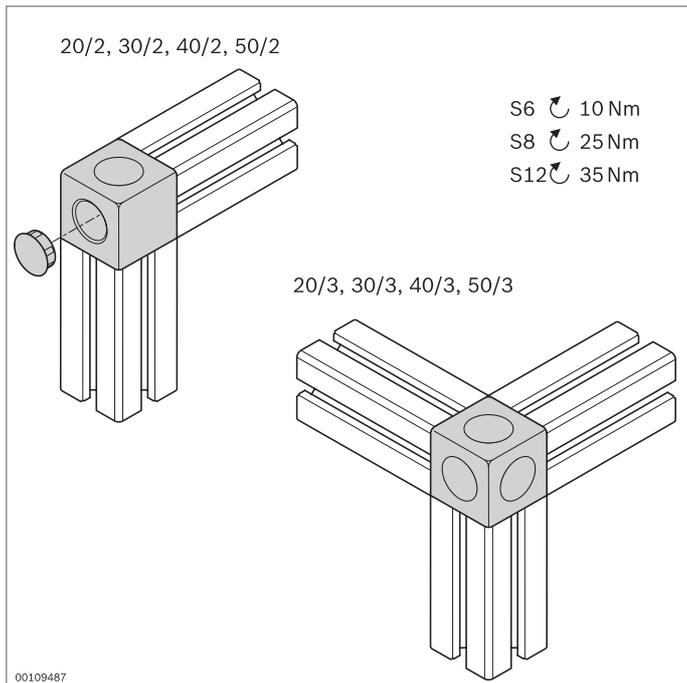


Cover cap

- ▶ For sealing through-holes in closed profiles

Cover cap	D (mm)	No.
	5.8	100 3 842 551 032
	7.8	100 3 842 551 034
	9.8	100 3 842 551 036

Material: PA; signal gray RAL 7004

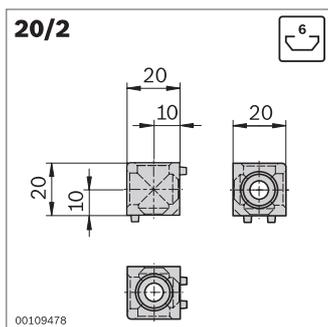


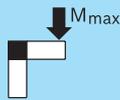
Cubic connector

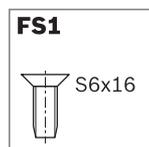


- ▶ For torsion-proof corner connections of profiles with equivalent cross-sections
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- ▶ Cover caps to cover the openings
- ▶ Screw fitting on profile with self-tapping screws
- ▶ Profile finishing: Not required

Technical data (p. 18-18)



Type	 M _{max}
20/2	18 Nm

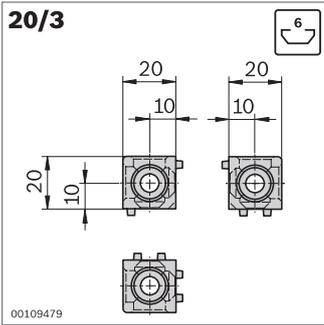


Cubic connector 20/2	Slot	ESD	No.	FS
Set (standard), signal gray	6		1	3 842 549 858 2xFS1
<i>designLINE</i> set, signal gray	6		1	3 842 549 859 2xFS1
Cubic connector	6		20	3 842 523 875
Cover cap	signal gray (PP)		100	3 842 548 700
D12	black (PP)		100	3 842 548 704
Countersunk screw S6x16	6		100	3 842 517 132

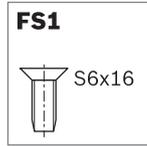
Material: Cubic connector: Diecast aluminum
designLINE cubic connector: painted (RAL 9006)
 Fastening material: Steel; galvanized

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

* Cubic connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.



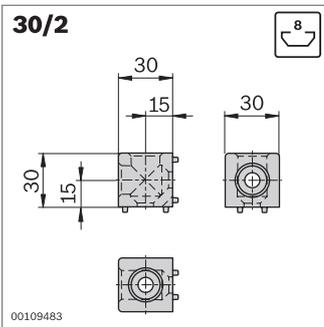
Type	
20/3	23 Nm



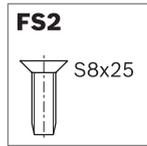
Cubic connector 20/3	Slot	ESD	No.	FS
Set (standard), signal gray	6	*	1	3 842 549 860 3xFS1
<i>designLINE</i> set, signal gray	6	*	1	3 842 549 861 3xFS1
Cubic connector	6		20	3 842 523 872
Cover cap	signal gray (PP)		100	3 842 548 700
D12	black (PP)		100	3 842 548 704
Countersunk screw S6x16	6		100	3 842 517 132

Material: Cubic connector: Diecast aluminum
designLINE cubic connector: painted (RAL 9006)
 Fastening material: Steel; galvanized

Scope of delivery: Set incl. fastening material (FS), cover caps
 * Cubic connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.



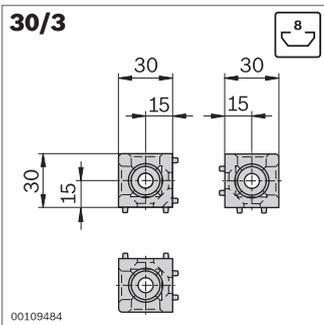
Type	
30/2	80 Nm



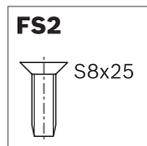
Cubic connector 30/2	Slot	ESD	No.	FS
Set (standard), signal gray	8	*	1	3 842 549 862 2xFS2
<i>designLINE</i> set, signal gray	8	*	1	3 842 549 863 2xFS2
Cubic connector	8		20	3 842 523 876
Cover cap	signal gray (PP)		100	3 842 548 701
D18	black (PP)		100	3 842 548 705
Countersunk screw S8x25	8		100	3 842 517 543

Material: Cubic connector: Diecast aluminum
designLINE cubic connector: painted (RAL 9006)
 Fastening material: Steel; galvanized

Scope of delivery: Set incl. fastening material (FS), cover caps
 * Cubic connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.



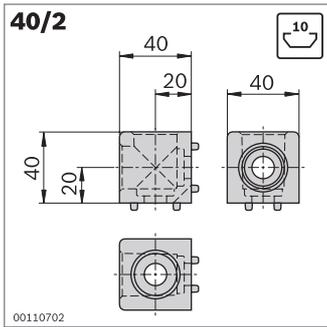
Type	
30/3	85 Nm



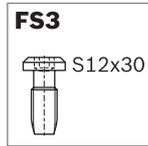
Cubic connector 30/3	Slot	ESD	No.	FS
Set (standard), signal gray	8	*	1	3 842 549 864 3xFS2
<i>designLINE</i> set, signal gray	8	*	1	3 842 549 865 3xFS2
Cubic connector	8		20	3 842 523 873
Cover cap	signal gray (PP)		100	3 842 548 701
D18	black (PP)		100	3 842 548 705
Countersunk screw S8x25	8		100	3 842 517 543

Material: Cubic connector: Diecast aluminum
designLINE cubic connector: painted (RAL 9006)
 Fastening material: Steel; galvanized

Scope of delivery: Set incl. fastening material (FS), cover caps
 * Cubic connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.



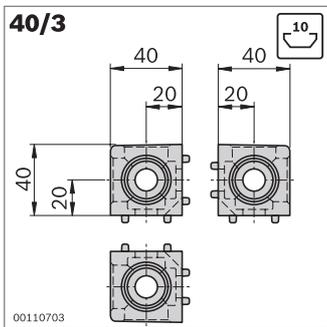
Type	
40/2	60 Nm



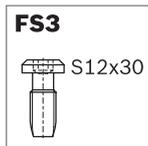
Cubic connector 40/2	Slot	ESD	No.	FS
Set (standard), signal gray	10		1	3 842 549 866 2xFS3
<i>designLINE</i> set, signal gray	10		1	3 842 549 867 2xFS3
Cubic connector	10		20	3 842 529 010
Cover cap			100	3 842 548 702
D24			100	3 842 548 706
Screw S12x30	10		100	3 842 530 236

Material: Cubic connector: Diecast aluminum
designLINE cubic connector: painted (RAL 9006)
 Fastening material: Steel; galvanized

Scope of delivery: Set incl. fastening material (FS), cover caps
 * Cubic connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.



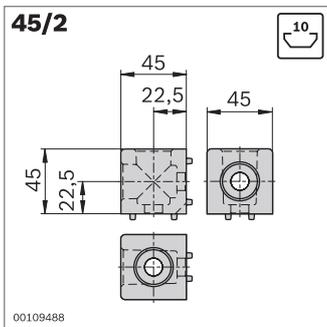
Type	
40/3	70 Nm



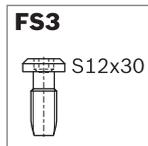
Cubic connector 40/3	Slot	ESD	No.	FS
Set (standard), signal gray	10		1	3 842 549 868 3xFS3
<i>designLINE</i> set, signal gray	10		1	3 842 549 869 3xFS3
Cubic connector	10		20	3 842 529 011
Cover cap			100	3 842 548 702
D24			100	3 842 548 706
Screw S12x30	10		100	3 842 530 236

Material: Cubic connector: Diecast aluminum
designLINE cubic connector: painted (RAL 9006)
 Fastening material: Steel; galvanized

Scope of delivery: Set incl. fastening material (FS), cover caps
 * Cubic connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.



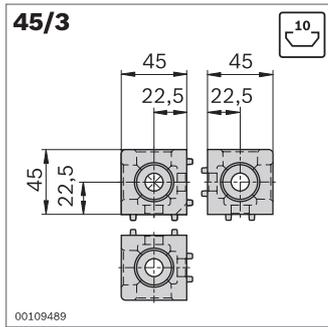
Type	
45/2	150 Nm
	200 Nm



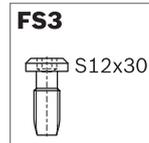
Cubic connector 45/2	Slot	ESD	No.	FS
Set (standard), signal gray	10		1	3 842 549 870 2xFS3
<i>designLINE</i> set, signal gray	10		1	3 842 549 871 2xFS3
Cubic connector	10		20	3 842 523 877
Cover cap			100	3 842 548 702
D24			100	3 842 548 706
Screw S12x30	10		100	3 842 530 236

Material: Cubic connector: Diecast aluminum
designLINE cubic connector: painted (RAL 9006)
 Fastening material: Steel; galvanized

Scope of delivery: Set incl. fastening material (FS), cover caps
 * Cubic connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.



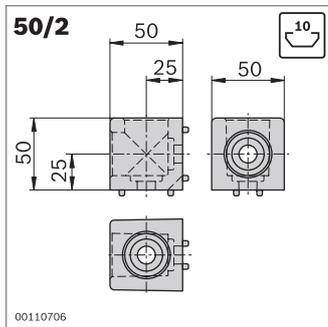
Type		
45/3	45x45L	170 Nm
	45x45	240 Nm



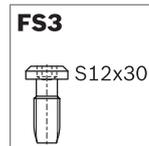
Cubic connector 45/3	Slot	ESD	No.	FS	
Set (standard), signal gray	10		1	3 842 549 872	3xFS3
<i>designLINE</i> set, signal gray	10		1	3 842 549 873	3xFS3
Cubic connector	10		20	3 842 523 874	
Cover cap	signal gray (PP)		100	3 842 548 702	
D24	black (PP)		100	3 842 548 706	
Screw S12x30	10		100	3 842 530 236	

Material: Cubic connector: Diecast aluminum
designLINE cubic connector: painted (RAL 9006)
 Fastening material: Steel; galvanized

Scope of delivery: Set incl. fastening material (FS), cover caps
 * Cubic connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.



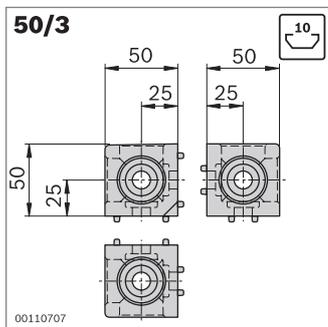
Type		
50/2		120 Nm



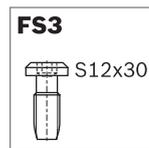
Cubic connector 50/2	Slot	ESD	No.	FS	
Set (standard), signal gray	10		1	3 842 549 874	2xFS3
Cubic connector	10		20	3 842 529 012	
Cover cap	signal gray (PP)		100	3 842 548 703	
D30	black (PP)		100	3 842 548 707	
Screw S12x30	10		100	3 842 530 236	

Material: Cubic connector: Diecast aluminum
 Fastening material: Steel; galvanized

Scope of delivery: Set incl. fastening material (FS), cover caps
 * Cubic connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.



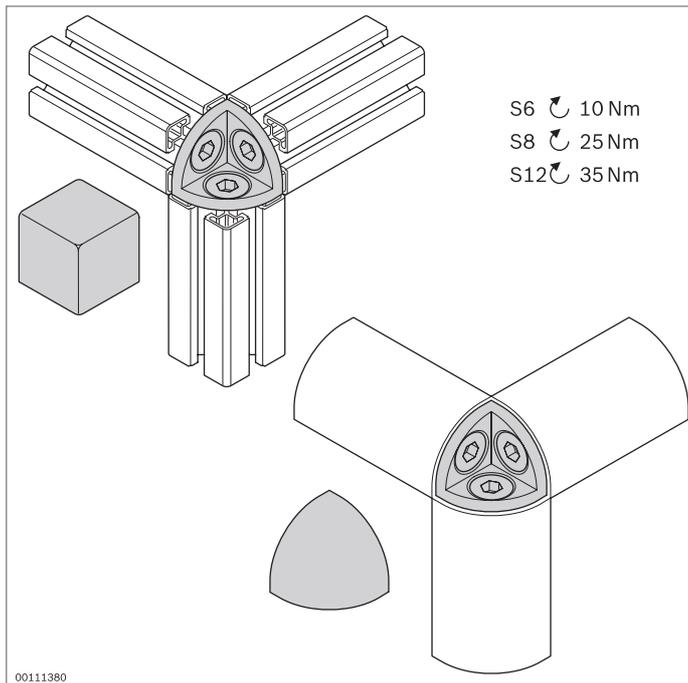
Type		
50/3		140 Nm



Cubic connector 50/3	Slot	ESD	No.	FS	
Set (standard), signal gray	10		1	3 842 549 876	3xFS3
Cubic connector	10		20	3 842 529 013	
Cover cap	signal gray (PP)		100	3 842 548 703	
D30	black (PP)		100	3 842 548 707	
Screw S12x30	10		100	3 842 530 236	

Material: Cubic connector: Diecast aluminum
 Fastening material: Steel; galvanized

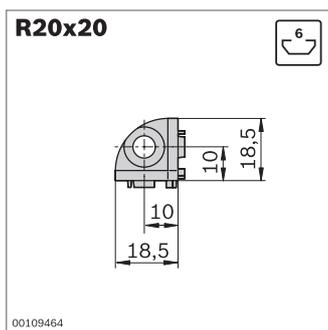
Scope of delivery: Set incl. fastening material (FS), cover caps
 * Cubic connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.



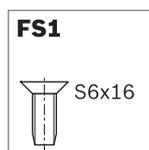
Corner bracket



- ▶ Corner bracket for corner connection of three square or half-round profiles with equivalent cross-sections
- ▶ Screw fitting on profiles with self-tapping screws
- ▶ Ball or cubic-shaped cover caps to prevent injuries and avoid dirt
- ▶ Profile finishing: Not required

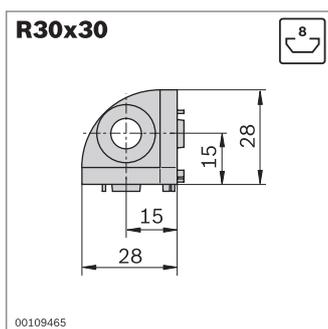


Type	
20/3	23 Nm

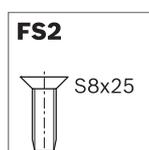


R20x20	Slot	ESD	No.	FS
Corner bracket	6		1 3 842 519 318	3xFS1
Cover cap			10 3 842 548 708	
K (ball)			10 3 842 548 712	
Cover cap			10 3 842 548 716	
W (cube)			10 3 842 548 720	

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

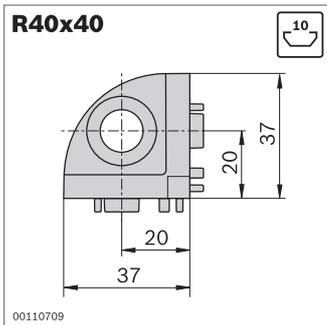


Type	
30/3	85 Nm

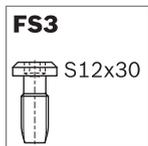


R30x30	Slot	ESD	No.	FS
Corner bracket	8		1 3 842 519 319	3xFS2
Cover cap			10 3 842 548 709	
K (ball)			10 3 842 548 713	
Cover cap			10 3 842 548 717	
W (cube)			10 3 842 548 721	

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

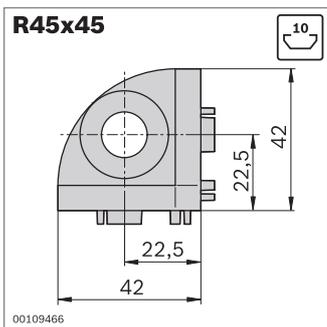


Type	
40/3	70 Nm

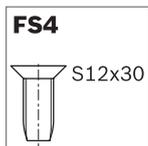


R40x40	Slot	ESD	No.	FS
Corner bracket	10		1	3 842 529 404 3xFS3
Cover cap K (ball)	signal gray (PP)		10	3 842 548 710
	black (PP)		10	3 842 548 714
Cover cap W (cube)	signal gray (PP)		10	3 842 548 718
	black (PP)		10	3 842 548 722

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

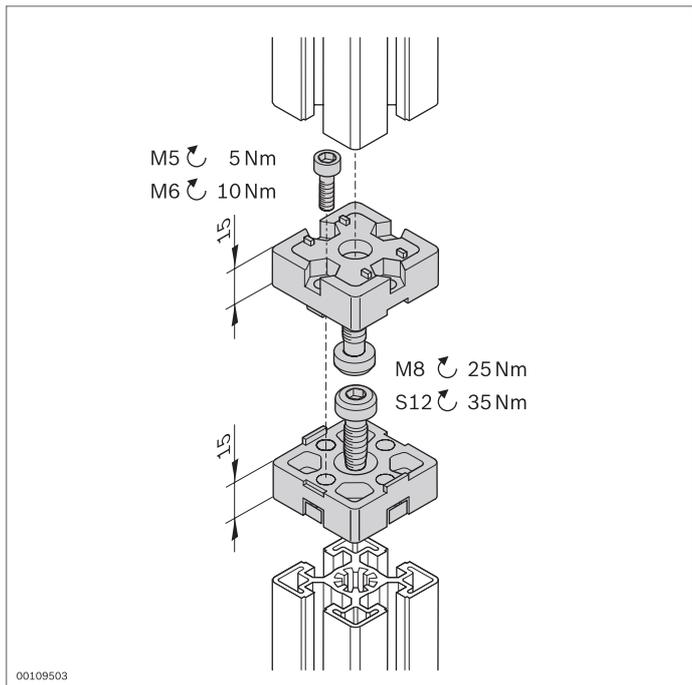


Type	
45/3	170 Nm
45x45L	170 Nm
45x45	240 Nm

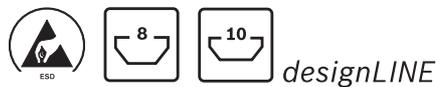


R45x45	Slot	ESD	No.	FS
Corner bracket	10		1	3 842 519 321 3xFS4
Cover cap K (ball)	signal gray (PP)		10	3 842 548 711
	black (PP)		10	3 842 548 715
Cover cap W (cube)	signal gray (PP)		10	3 842 548 719
	black (PP)		10	3 842 548 723

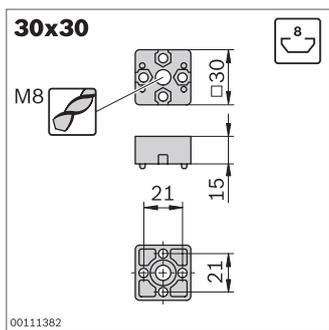
Material: Corner bracket: Diecast zinc
Fastening material: Steel; galvanized
Scope of delivery: Incl. fastening material (FS)



End connector



- ▶ For end-to-end profile connections
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- ▶ Profile finishing:
 - 30x30: M8 thread cutting in central bores
 - 40x40, 45x45, 50x50: Not required



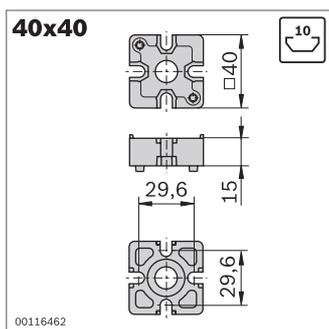
Type	
30x30	81 Nm

FS1	FS2
DIN 7984 M8x30	DIN 7984 M5x25 DIN 934 M5

End connector	Slot	ESD No.	FS
30x30 Set (standard)	8	3 842 526 003	2xFS1, 4xFS2
<i>designLINE</i> set	8	3 842 538 656	2xFS1, 4xFS2

Material: End connector: Diecast aluminum
designLINE end connector: painted (RAL 9006)
 Fastening material: Steel; galvanized

Scope of delivery: Set incl. fastening material (FS)



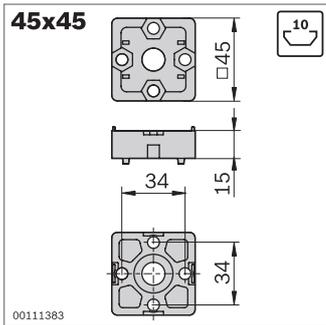
Type	
40x40	170 Nm

FS3	FS4
S12x30	DIN 7984 M6x25 DIN 4032 M6

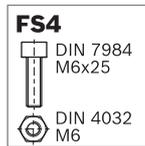
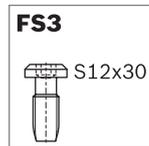
End connector	Slot	ESD No.	FS
40x40 Set (standard)	10	3 842 532 196	2xFS3, 4xFS4
<i>designLINE</i> set	10	3 842 538 657	2xFS3, 4xFS4

Material: End connector: Diecast aluminum
designLINE end connector: painted (RAL 9006)
 Fastening material: Steel; galvanized

Scope of delivery: Set incl. fastening material (FS)



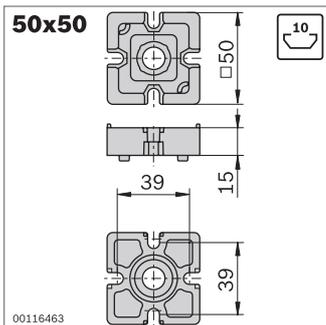
Type	
45x45	200 Nm



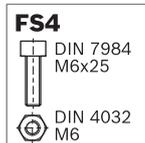
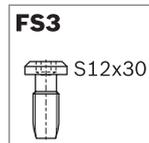
End connector	Slot	ESD No.	FS
45x45 Set (standard)	10	 3 842 191 175	2xFS3, 4xFS4
<i>designLINE</i> set	10	 3 842 538 658	2xFS3, 4xFS4

Material: End connector: Diecast zinc
designLINE end connector: painted (RAL 9006)
Fastening material: Steel; galvanized

Scope of delivery: Set incl. fastening material (FS)



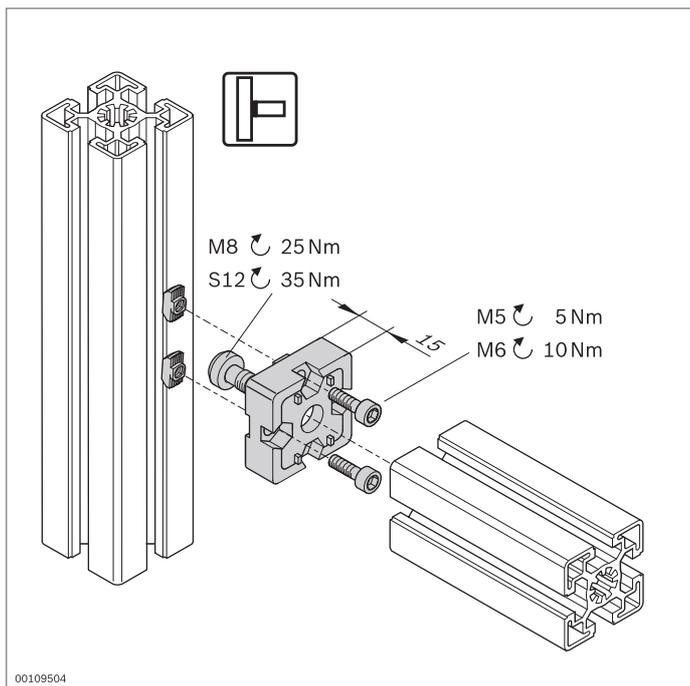
Type	
50x50	180 Nm



End connector	Slot	ESD No.	FS
50x50 Set (standard)	10	 3 842 532 199	2xFS3, 4xFS4

Material: End connector: Diecast zinc
Fastening material: Steel; galvanized

Scope of delivery: Set incl. fastening material (FS)

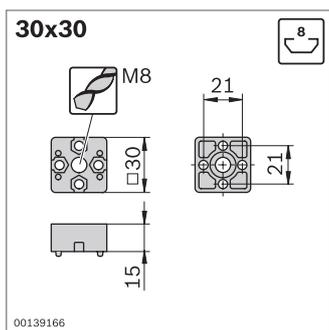


T-connector



- ▶ For right-angled profile connections
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- ▶ Profile finishing:
 - 30x30: M8 thread cutting in central bores
 - 40x40, 45x45, 50x50: Not required

3

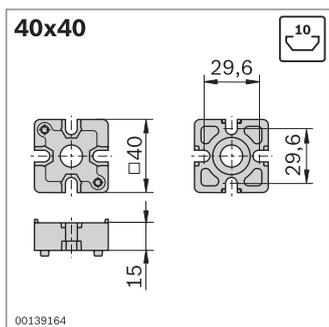


Type	F_{max}	M_{max}
30x30	4000 N	80 Nm

FS1	FS2
DIN7984 M8x30	DIN 7984 M5x16

T-connector	Slot	ESD No.	FS
30x30 Set (standard)	8	3 842 524 476	1xFS1, 2xFS2
<i>designLINE</i> set	8	3 842 538 696	1xFS1, 2xFS2

Material: T-connector: Diecast aluminum
designLINE T-connector: painted (RAL 9006)
 Fastening material: Steel; galvanized
 Scope of delivery: Set incl. fastening material (FS)

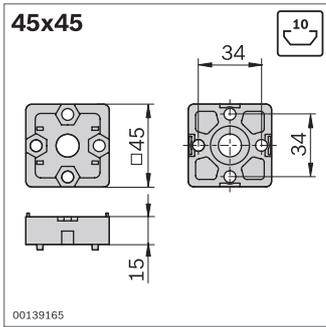


Type	F_{max}	M_{max}
40x40	9000 N	150 Nm

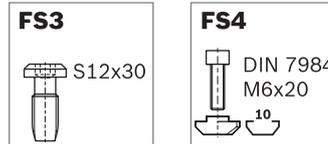
FS3	FS4
S12x30	DIN 7984 M6x20

T-connector	Slot	ESD No.	FS
40x40 Set (standard)	10	3 842 532 195	1xFS3, 2xFS4
<i>designLINE</i> set	10	3 842 538 697	1xFS3, 2xFS4

Material: T-connector: Diecast aluminum
designLINE T-connector: painted (RAL 9006)
 Fastening material: Steel; galvanized
 Scope of delivery: Set incl. fastening material (FS)

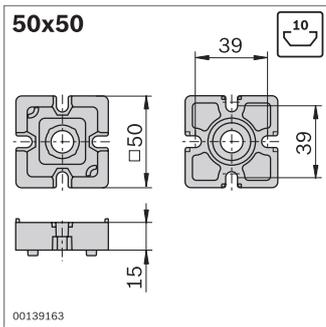


Type	F_{max}	M_{max}
45x45	9000 N	200 Nm

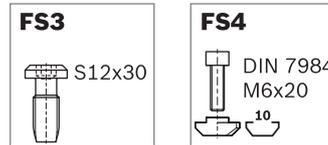


T-connector	Slot	ESD No.	FS
45x45 Set (standard)	10	3 842 520 802	1xFS3, 2xFS4
<i>designLINE</i> set	10	3 842 538 698	1xFS3, 2xFS4

Material: T-connector: Diecast zinc
designLINE T-connector: painted (RAL 9006)
 Fastening material: Steel; galvanized
 Scope of delivery: Set incl. fastening material (FS)

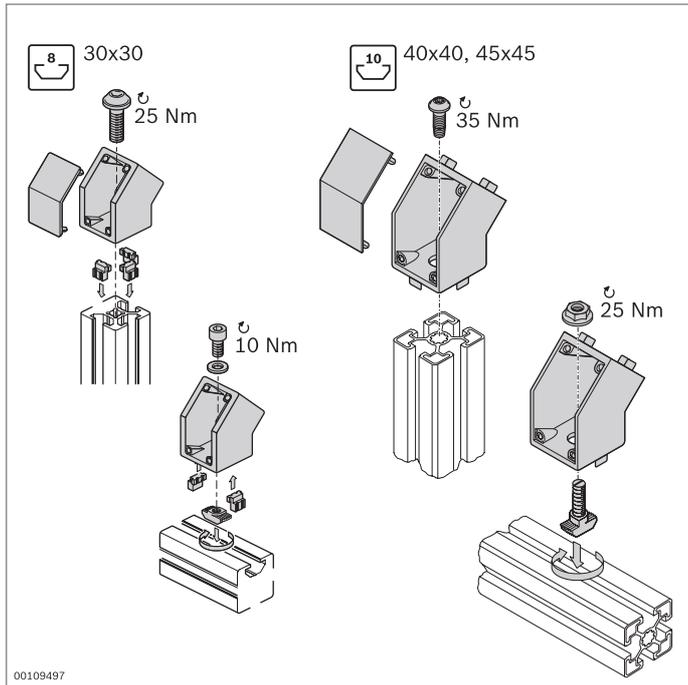


Type	F_{max}	M_{max}
50x50	10000 N	170 Nm

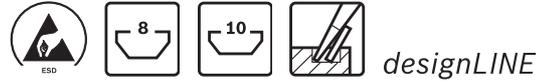


T-connector	Slot	ESD No.	FS
50x50 Set (standard)	10	3 842 532 198	1xFS3, 2xFS4

Material: T-connector: Diecast zinc
 Fastening material: Steel; galvanized
 Scope of delivery: Set incl. fastening material (FS)

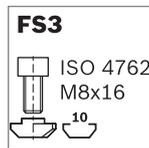
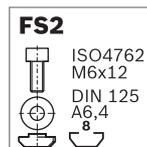
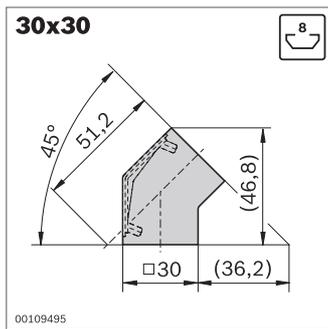


Connector 45°



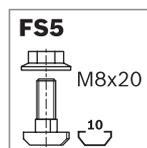
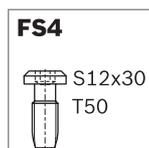
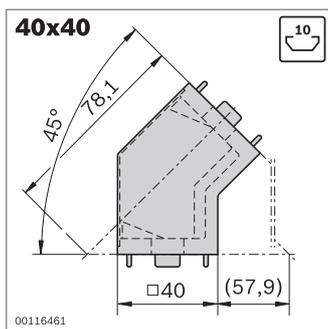
- ▶ For connecting profiles at an angle of less than 45°
- ▶ Suitable for reinforcing frames
- ▶ Suitable for connections at the end-face or in the profile slot
- ▶ Connectors 45° 40x40 and 45x45 with centering lugs for easy positioning (centering lugs can simply be broken off for installation in the profile slot)
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- ▶ Profile finishing: Not required

* Connector 45° creates conductive connection, but the cover caps included in the set are not ESD-compatible.



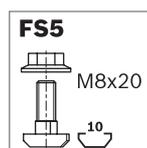
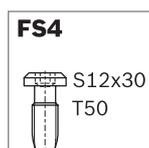
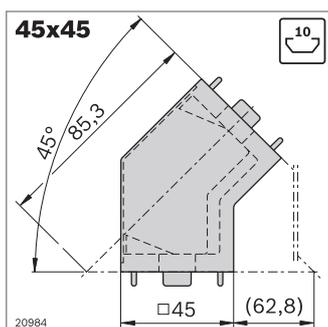
Connector 45°	Color	Slot	ESD No.	FS
30x30 Set (standard)	Signal gray	8	3 842 554 446	2xFS1,
	Black	8	3 842 554 447	FS2, FS3
Set <i>designLINE</i>	Signal gray	8	3 842 554 452	2xFS1,
	Black	8	3 842 554 453	FS2, FS3

Material: Connector 45°: Diecast zinc; connector 45° *designLINE*: painted (RAL 9006); centering piece, cover cap: PP; fastening material: Steel; galvanized
 Scope of delivery: Set incl. fastening material (FS), 6 x centering piece, cover cap



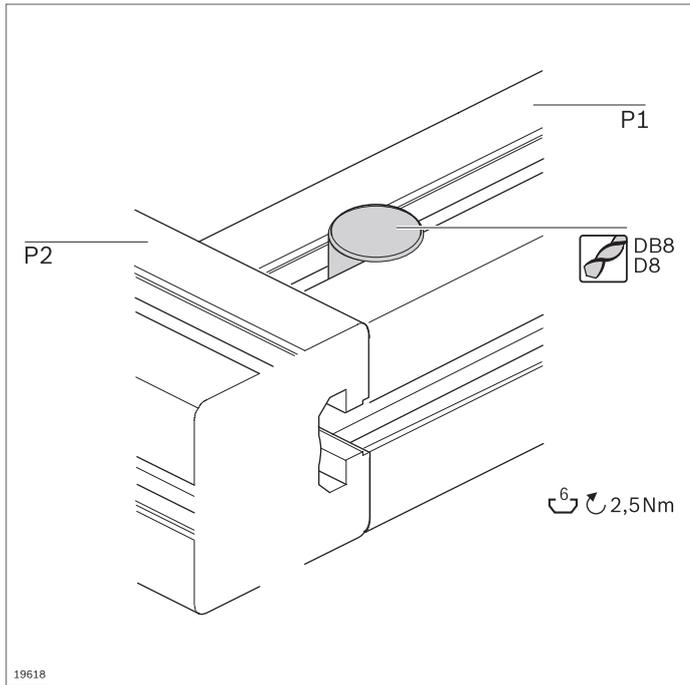
Connector 45°	Color	Slot	ESD No.	FS
40x40 Set (standard)	Signal gray	10	3 842 554 448	2xFS4,
	Black	10	3 842 554 449	FS5
Set <i>designLINE</i>	Signal gray	10	3 842 554 454	2xFS4,
	Black	10	3 842 554 455	FS5

Material: Connector 45°: Cast aluminum; connector 45° *designLINE*: painted (RAL 9006); centering piece, cover cap: PP; fastening material: Steel; galvanized
 Scope of delivery: Set incl. fastening material (FS), cover cap



Connector 45°	Color	Slot	ESD No.	FS
45x45 Set (standard)	Signal gray	10	3 842 554 450	2xFS4,
	Black	10	3 842 554 451	FS5
Set <i>designLINE</i>	Signal gray	10	3 842 554 456	2xFS4,
	Black	10	3 842 554 457	FS5

Material: Connector 45°: Cast aluminum; connector 45° *designLINE*: painted (RAL 9006); centering piece, cover cap: PP; fastening material: Steel; galvanized
 Scope of delivery: Set incl. fastening material (FS), cover cap

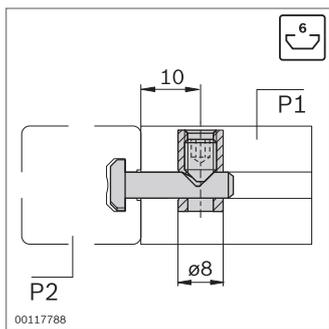
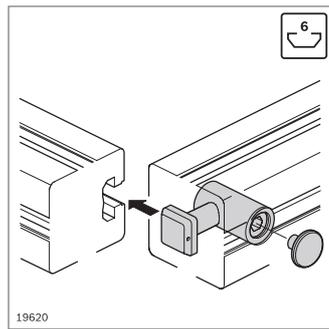
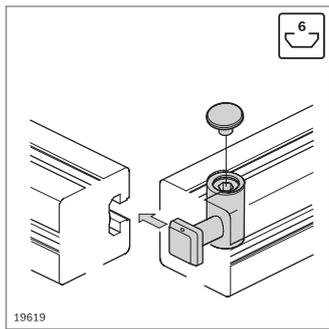


**Quick connector, 6 mm slot, 0°, 90°
Cover cap**



- ▶ For the right-angled connecting of two profiles
- ▶ Excellent accessibility for tools during mounting
- ▶ Quick connector for 6 mm slot with square head; can be used as a 0° or 90° connector
- ▶ Profile finishing:
Blind hole DB8 or through-hole D8

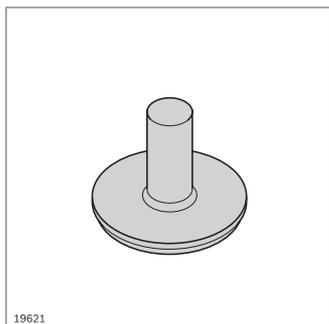
Optional accessories:
Drilling jig (p. 14-2)



Slot	F_{max}	M_{max}
6 / 6	450 N	18 Nm

Quick connector 0° / 90°	P1 / P2	D ESD (mm)	No.
	6 / 6	8	3 842 537 013

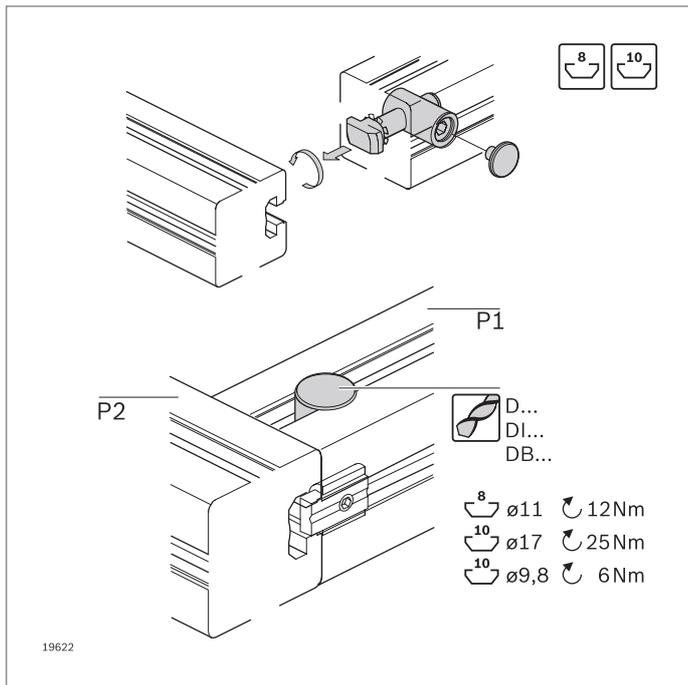
Material: Steel; stainless



- ▶ Cover cap for connector sleeves

Cover cap	D (mm)	No.
	8	3 842 551 038

Material: PE; signal gray RAL 7004



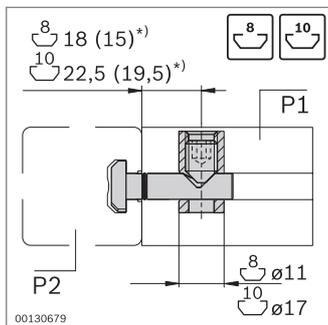
Quick connector, 8/10 mm slot, 0°



- ▶ For the right-angled connecting of two profiles
- ▶ Excellent accessibility for tools during mounting
- ▶ O-ring for fixing allows overhead assembly
- ▶ Quick connectors can be pivoted into the profile slot at the mounting location
- ▶ Profile finishing:
Blind hole DI, DB11, DB17 or
Through-hole DI, D11, D17
- ▶ Note differing drilling intervals and load-bearing capacities when using with radial compensation ("Technical data" p. 18-16)

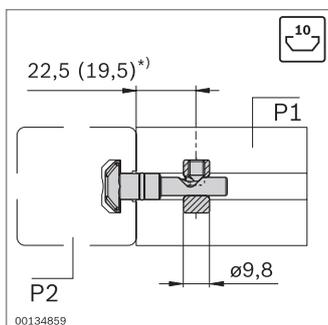
Optional accessories:

- ▶ Anti-torsion element (p. 3-42)
- ▶ Radial compensation (p. 2-85)
- ▶ Drilling jig (p. 14-2)
- ▶ Cover cap (p. 3-54)



Slot	F_{max}	M_{max}
8 / 8	500 N	40 Nm
8 / 10	2000 N	70 Nm
10 / 10	4000 N	140 Nm

*) With the use of a radial compensation



Slot	F_{max}	M_{max}
10 / 10	800 N	50 Nm

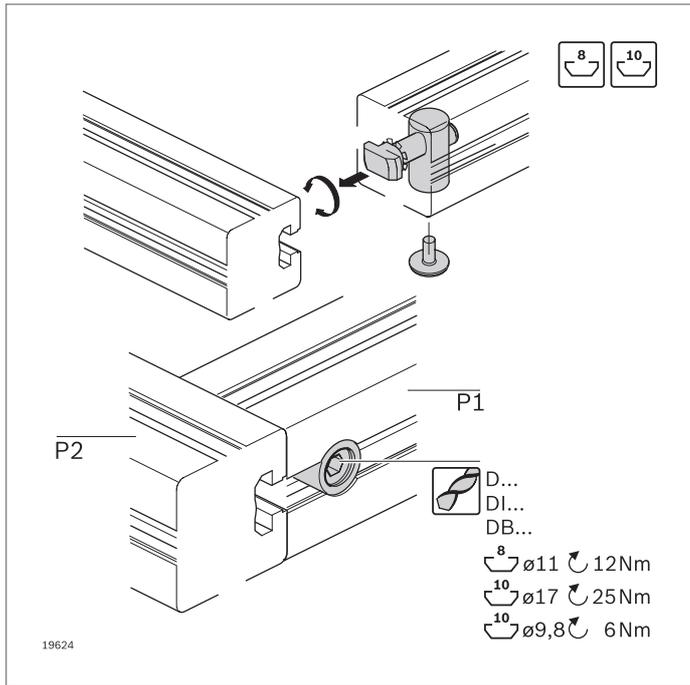
*) With the use of a radial compensation

Quick connector 0°	P1 / P2	D ESD	No.
		(mm)	
Steel; galvanized	8 / 8	11	10 3 842 535 459
	8 / 10	11	10 3 842 535 464
	10 / 10	17	10 3 842 535 458
Steel; stainless	8 / 8	11	10 3 842 548 934
	8 / 10	11	10 3 842 548 935
	10 / 10	17	10 3 842 548 936

- ▶ Quick connector 9.8 with smaller connector sleeve
- ▶ The hole for the connector sleeve does not make contact with the slot flanks. This permits a visually attractive connection; the slot can be completely closed with the cover profile

Quick connector 0°, connector sleeve D = 9.8	P1 / P2	D ESD	No.
		(mm)	
Steel; galvanized	10 / 10	9.8 ¹⁾	10 3 842 541 412

¹⁾ No standard hole in modular dimensions 40, 50 and 60
Target distance from profile end: 22.5 mm



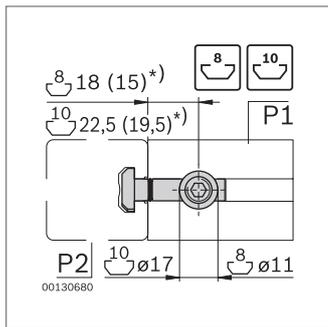
Quick connector, 8/10 mm slot, 90° Cover cap



- ▶ Tie rod head rotated at a 90° angle to the connector sleeve
- ▶ Profile finishing:
Blind hole DI, DB11, DB17 or
Through-hole DI, D11, D17

Optional accessories:

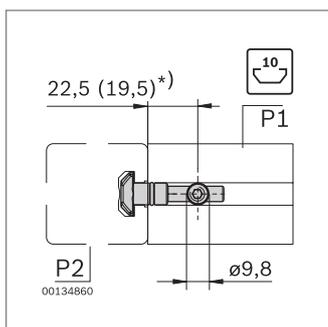
- ▶ Anti-torsion element (p. 3-42)
- ▶ Radial compensation (p. 2-85)
- ▶ Drilling jig (p. 14-2)
- ▶ Cover cap



Slot	F_{max}	M_{max}
8 / 8	500 N	40 Nm
10 / 10	4000 N	140 Nm

*) With the use of a radial compensation

Quick connector 90°	P1 / P2	D ESD	No.
		(mm)	
Steel; galvanized	8 / 8	11	10 3 842 535 465
	10 / 10	17	10 3 842 535 466
Steel; stainless	8 / 8	11	10 3 842 548 937
	10 / 10	17	10 3 842 548 938

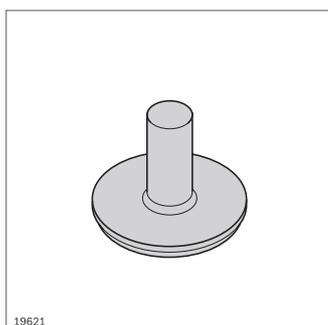


Slot	F_{max}	M_{max}
10 / 10	800 N	50 Nm

*) With the use of a radial compensation

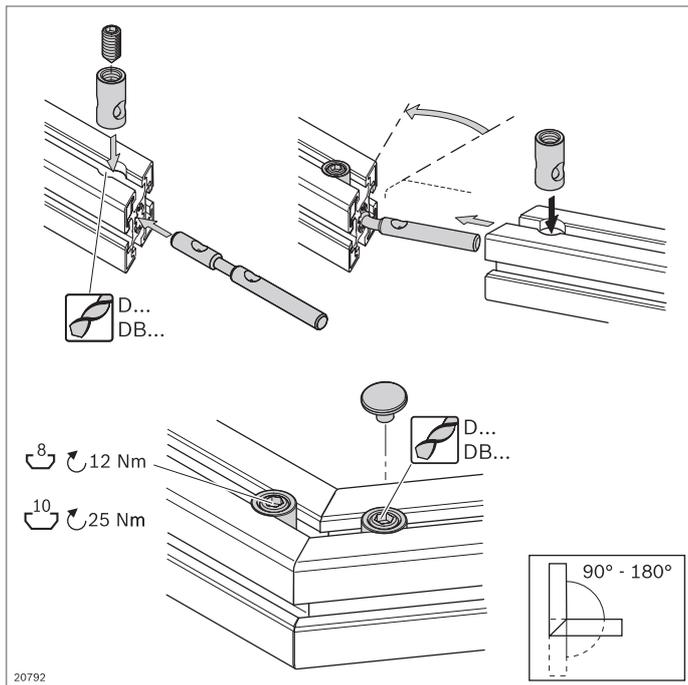
Quick connector 90°, connector sleeve D = 9.8	P1 / P2	D ESD	No.
		(mm)	
Steel; galvanized	10 / 10	9.8 ¹⁾	10 3 842 541 410

¹⁾ No standard hole in modular dimensions 40, 50 and 60
Target distance from profile end: 22.5 mm



Cover cap	D	No.
	(mm)	
	11	100 3 842 551 040
	17	100 3 842 551 042

Material: PE; signal gray RAL 7004



Quick connector, bendable – end-to-end

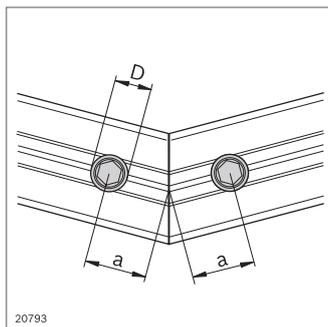


- ▶ For end-to-end connecting of two profiles with equal cross-sections and at any angle, e.g. for frames
- ▶ Profile finishing:
 - Blind hole DB11, DB17 or through-hole D11, D17
 - Miter cut

Technical data (p. 18-16)

Accessories:

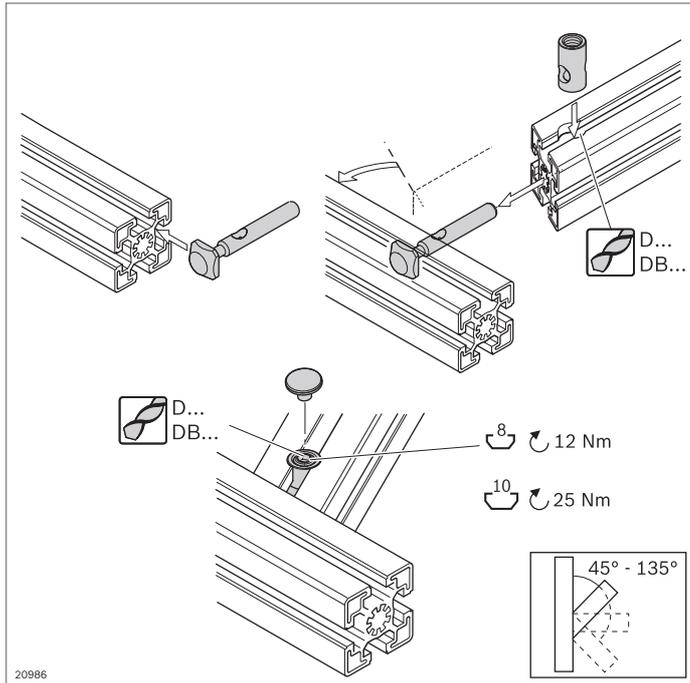
- ▶ Drilling jig (p. 14-2)
- ▶ Cover cap (p. 3-54)



Profile	M_{max}
30x30	24 Nm
40x40L	100 Nm
45x45L	110 Nm
45x45	145 Nm
50x50L	160 Nm

Quick connector, bendable	P1 / P2	a (mm)	D (mm)	ESD	No.
End-to-end	8 / 8	18	11	ESD	10 3 842 535 630
	10 / 10	22.5	17	ESD	10 3 842 535 634

Material: Tie rod: Steel; stainless
Socket: Steel; galvanized



Quick connector, bendable – end-to-slot

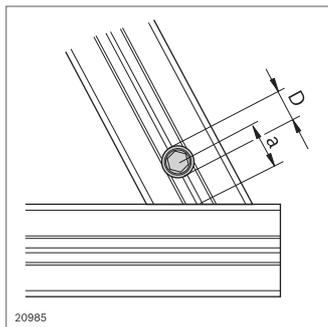


- ▶ For end-to-slot connecting of two profiles at any angle, e.g. for framework constructions
- ▶ Profile finishing:
 - Blind hole DB11, DB17 or through-hole D11, D17
 - Miter cut

Technical data (p. 18-16)

Accessories:

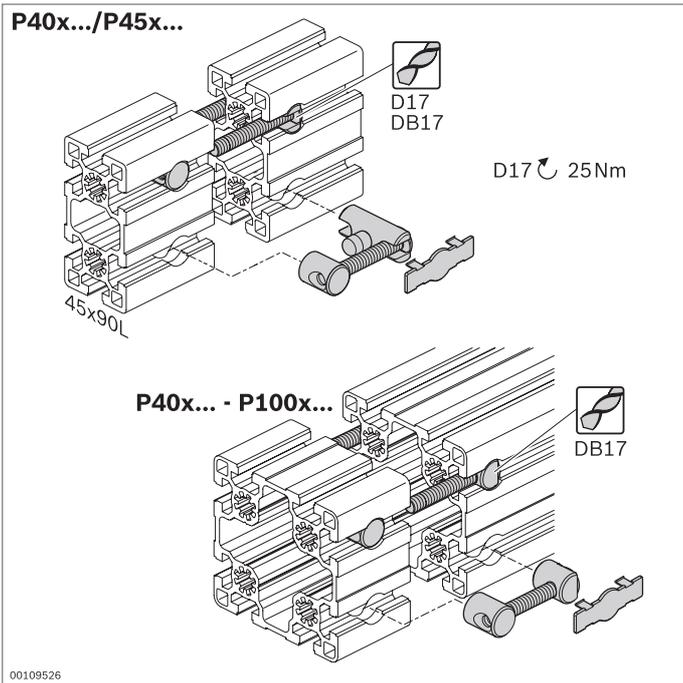
- ▶ Drilling jig (p. 14-2)
- ▶ Cover cap (p. 3-54)



Quick connector, bendable	P1 / P2	a (mm)	D (mm)	ESD	No.
End-to-slot	8 / 8	18	11	⚡	3 842 535 629
	10 / 10	22.5	17	⚡	3 842 535 635

Material: Tie rod: Steel; stainless
Socket: Steel; galvanized

Profile	F_{max}	M_{max}	F_{max}	M_{max}
30x30	1100 N	35 Nm	650 N	40 Nm
40x40L	1500 N	110 Nm	1000 N	80 Nm
45x45L	1500 N	120 Nm	1000 N	95 Nm
45x45	1500 N	140 Nm	1100 N	180 Nm
50x50L	1500 N	150 Nm	1100 N	180 Nm

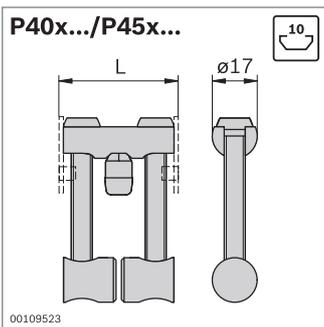


Longitudinal end connector



- ▶ For the end-to-end connecting of two profiles
- ▶ Standard profile finishing:
 - Through-hole D17 (longitudinal end connector on both sides)
 - Blind hole DB17 or through-hole D17 (longitudinal end connector on one side)

Optional accessories:
Cover cap D17 x 44.6; ESD (p. 3-61)

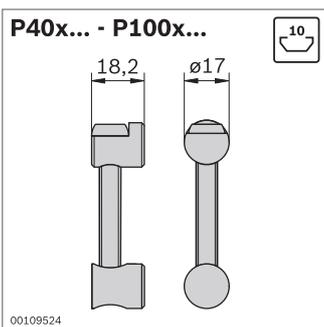


Longitudinal end connector, two-sided	L (mm)	ESD	No.
---------------------------------------	--------	-----	-----

Profile 40x...	40	⚡*	3 842 554 442
Profile 45x...	45	⚡*	3 842 554 440

Material: Longitudinal end connector: screw steel; galvanized
Centering pin, cover caps: PP, signal gray

Scope of delivery: Incl. 4 x cover cap
* Longitudinal end connector establishes conductive connection.
Cover caps included in the set are not ESD-compatible.

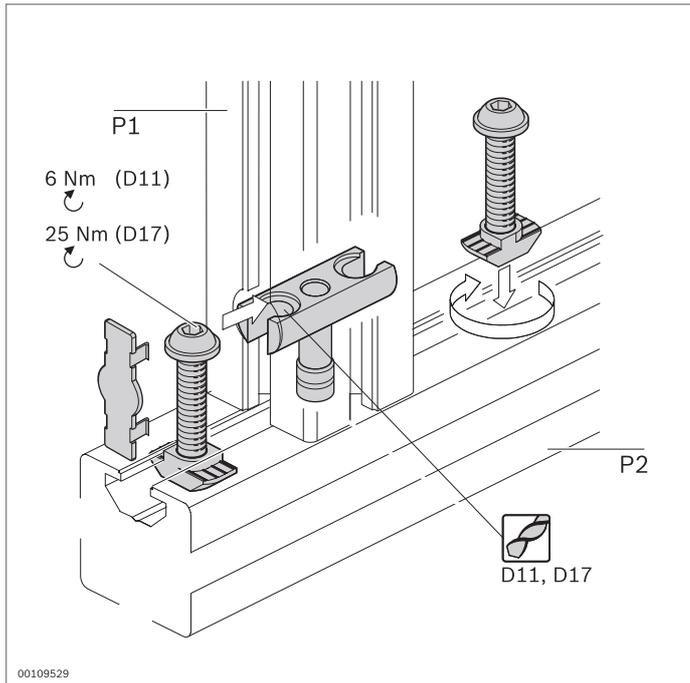


Longitudinal end connector, one-sided	ESD	No.
---------------------------------------	-----	-----

Profile 40x... - 100x...	⚡*	3 842 554 444
--------------------------	----	---------------

Material: Longitudinal end connector: screw steel; galvanized
Centering pin, cover caps: PP, signal gray

Scope of delivery: Incl. 2 x cover cap
* Longitudinal end connector establishes conductive connection.
Cover caps included in the set are not ESD-compatible.



Bolt connector



- ▶ For the right-angled connecting of two profiles
- ▶ Suitable for heavy loads, including torsional loads
- ▶ Can be mounted in closed frames
- ▶ Profile finishing: Through-hole D11, D17

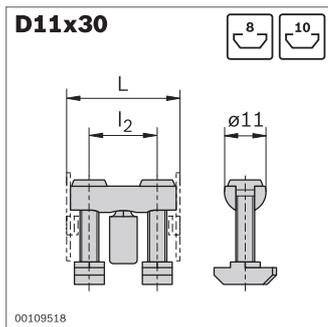
Technical data (p. 18-17)

Accessories:

Drilling jig (p. 14-2)

Optional accessories:

Cover cap ESD (p. 3-61)



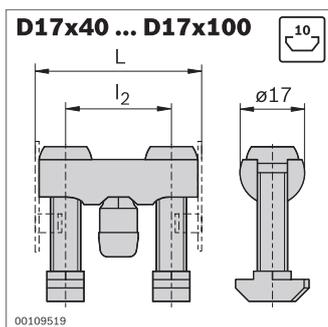
Size	F_{max}	M_{max}	M_{max}
30	2500 N	60 Nm	20 Nm

Bolt connector	P1 / P2	L (mm)	I_2 (mm)	ESD	No.
D11x30	8 / 8	30	18	⚡*	10 3 842 554 402
	8 / 10	30	18	⚡*	10 3 842 555 590

Material:

Bolt connector: Steel; galvanized
Centering pin, cover caps: PP, signal gray
* Bolt connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.

Scope of delivery: Incl. 2 x cover cap



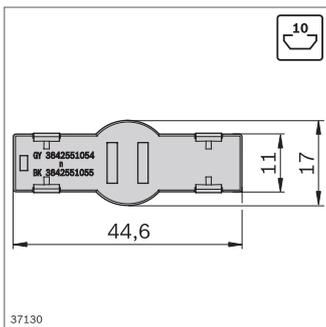
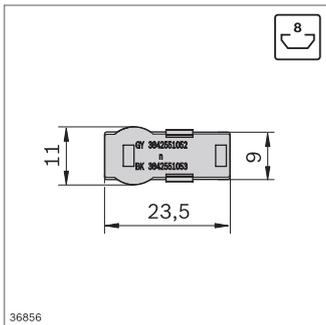
Size	F_{max}	M_{max}	M_{max}
40	4000 N	180 Nm	40 Nm
45	4000 N	180 Nm	60 Nm
50	4000 N	200 Nm	65 Nm
60	4000 N	200 Nm	80 Nm
80	5000 N	800 Nm	170 Nm
90	5000 N	800 Nm	200 Nm
100	5000 N	1000 Nm	480 Nm

Bolt connector	P1 / P2	L (mm)	I_2 (mm)	ESD	No.
D17x40	10 / 10	40	23	⚡*	10 3 842 555 594
D17x45	10 / 10	45	28	⚡*	10 3 842 555 584
D17x50	10 / 10	50	33	⚡*	10 3 842 555 596
D17x60	10 / 10	60	43	⚡*	10 3 842 555 586
D17x80	10 / 10	80	63	⚡*	10 3 842 555 598
D17x90	10 / 10	90	73	⚡*	10 3 842 555 588
D17x100	10 / 10	100	83	⚡*	10 3 842 555 592

Material:

Bolt connector: Steel; galvanized
Centering pin, cover caps: PP, signal gray
* Bolt connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.

Scope of delivery: Incl. 2 x cover cap

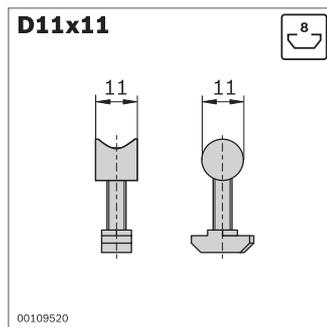
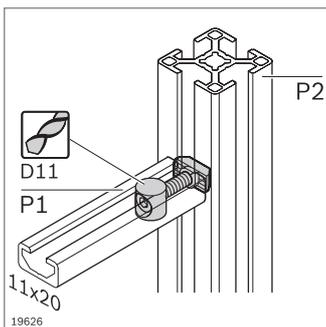


Cover cap	Color	ESD	No.
D11 x 23.5	Signal gray	100	3 842 551 052
D11 x 23.5	Black	100	3 842 551 053

Material: PP

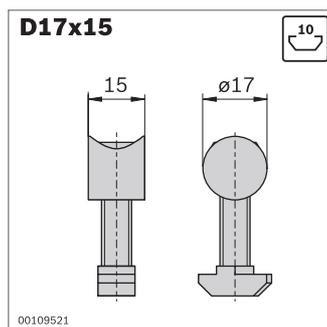
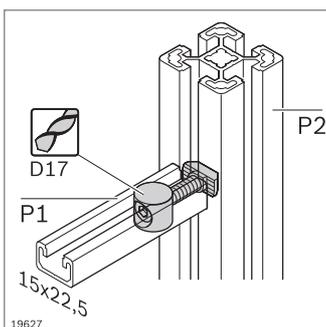
Cover cap	Color	ESD	No.
D17 x 44.6	Signal gray	100	3 842 551 054
D17 x 44.6	Black	100	3 842 551 055

Material: PP



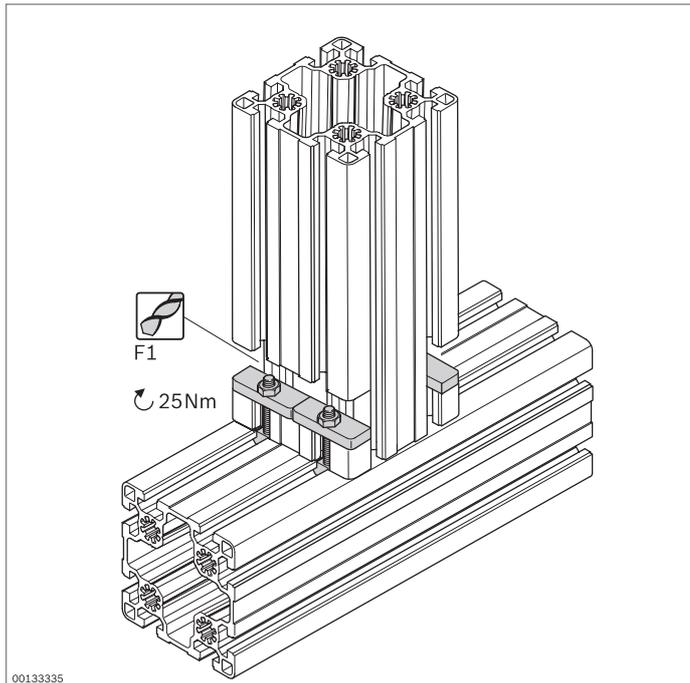
Bolt connector	P1 / P2	ESD	No.
D11x11	8 / 8	10	3 842 535 617

Material: Steel; galvanized



Bolt connector	P1 / P2	ESD	No.
D17x15	10 / 10	10	3 842 535 619

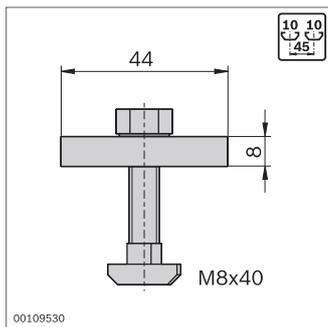
Material: Steel; galvanized

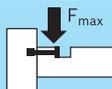


QV mounting kit



- ▶ For the right-angled connecting of two profiles
- ▶ Excellent accessibility for tools during mounting
- ▶ Profile finishing: Standard milling F1
- ▶ Bending moments must be avoided



Slot	 F_{max}
10	1000 N

QV mounting kit	 No.
Material: Steel; galvanized	10 3 842 146 972

Joints



Joint 45x45 lockable
(p. 4-2)



Joints (p. 4-4)



Swivel bearing (p. 4-9)



Supporting arm joint
(p. 4-10)



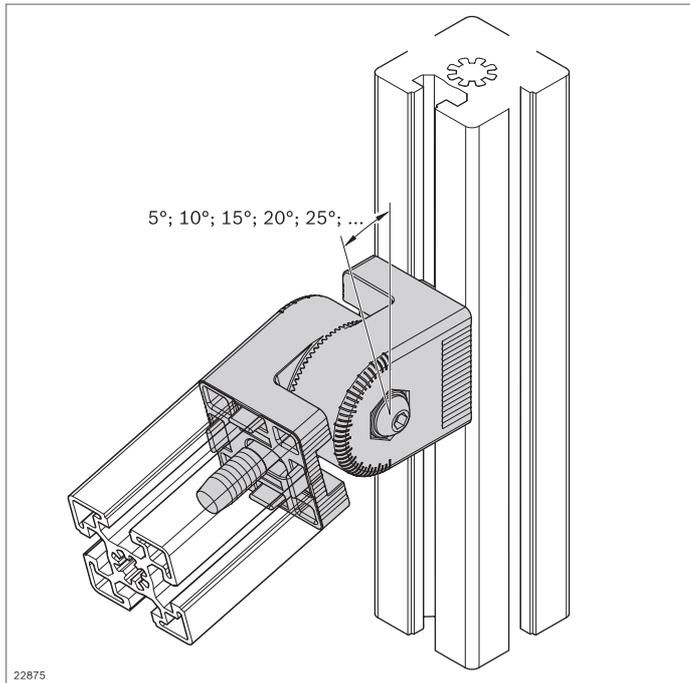
Bearing pedestal (p. 4-11)



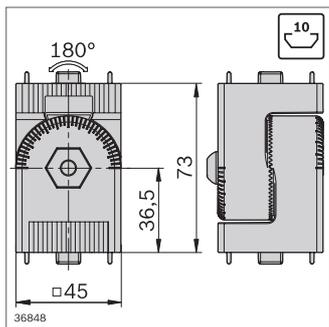
Swivel mounting (p. 4-12)



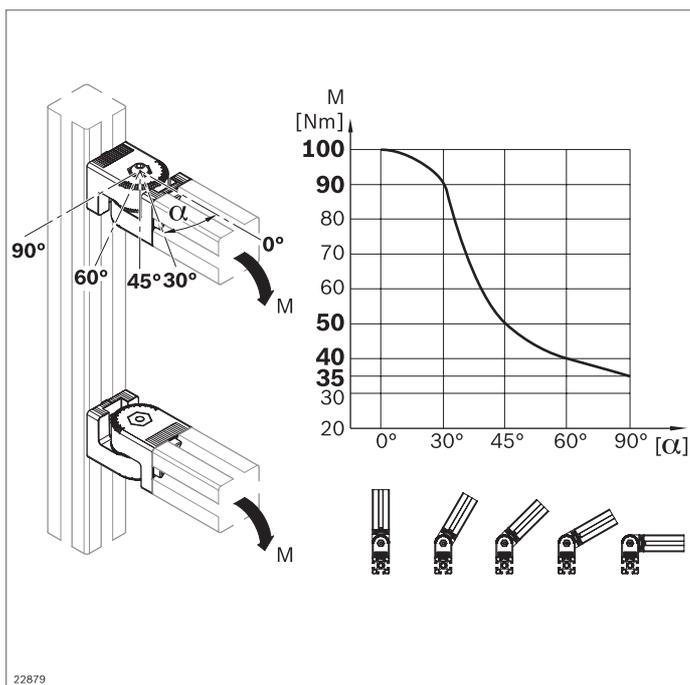
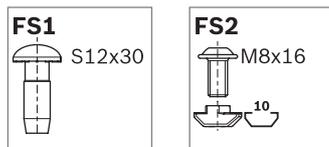
Clamping lever, star knob
(p. 4-13)



22875



36848



22879

Joint 45x45 lockable



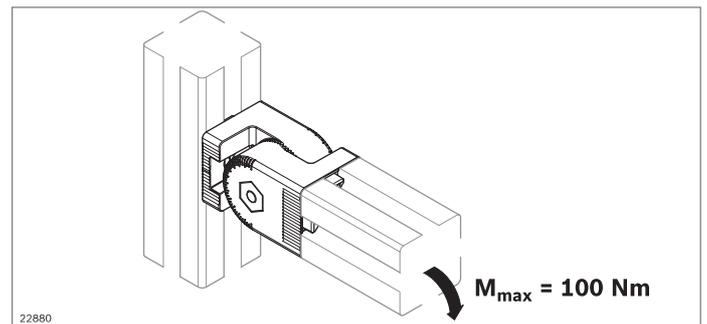
- ▶ For adjustable or rigid profile connections
- ▶ For high loads up to 100 Nm in the swivel direction
- ▶ Form fit thanks to Hirth teething
- ▶ Swivel range 180°
- ▶ Easy adjustment in the 5° modular dimensions
- ▶ Marking with a 5° graduation for easy detection of the adjustment angle
- ▶ Clamping and convenient adjustment of joint using a clamping lever or screw
- ▶ Profile finishing:
Not required (self-cutting screw for end face to end face connections)
- ▶ Compatible with joint 45x45 and joint 45x45 support (p. 4-5)

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

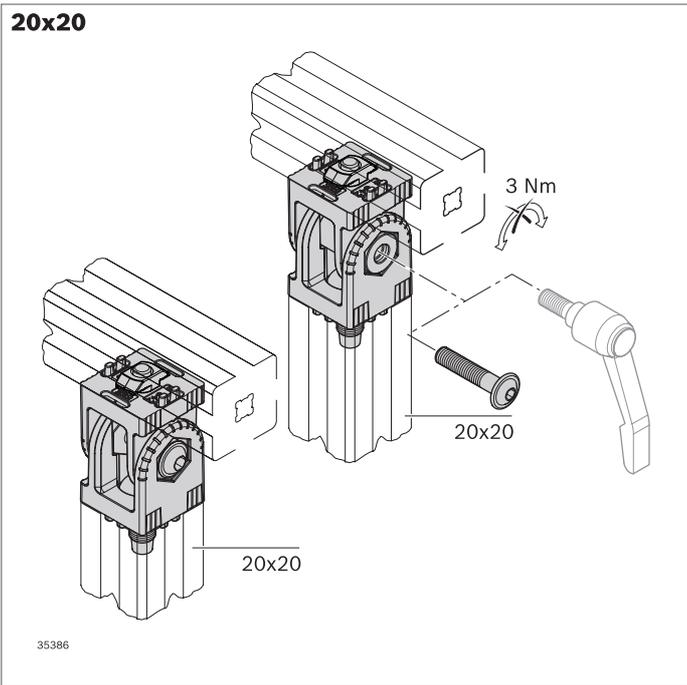
Material: Diecast zinc
Fastening material: Steel; galvanized
Scope of delivery: Incl. fastening material (FS)

Clamping lever M8x45	No.
For joint 45x45 lockable	3 842 538 607

Material: Diecast zinc, black polymer coating



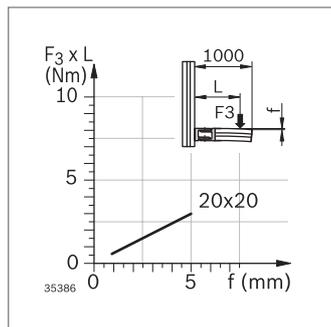
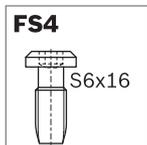
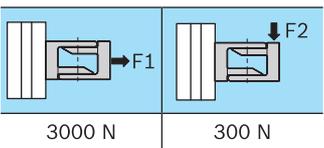
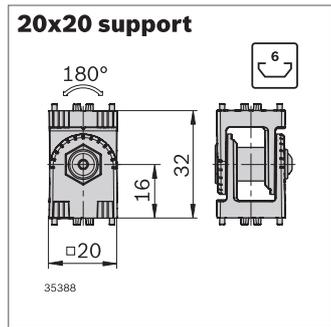
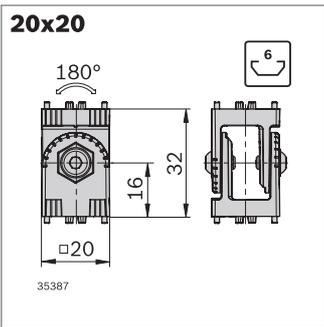
22880



Joint 20x20

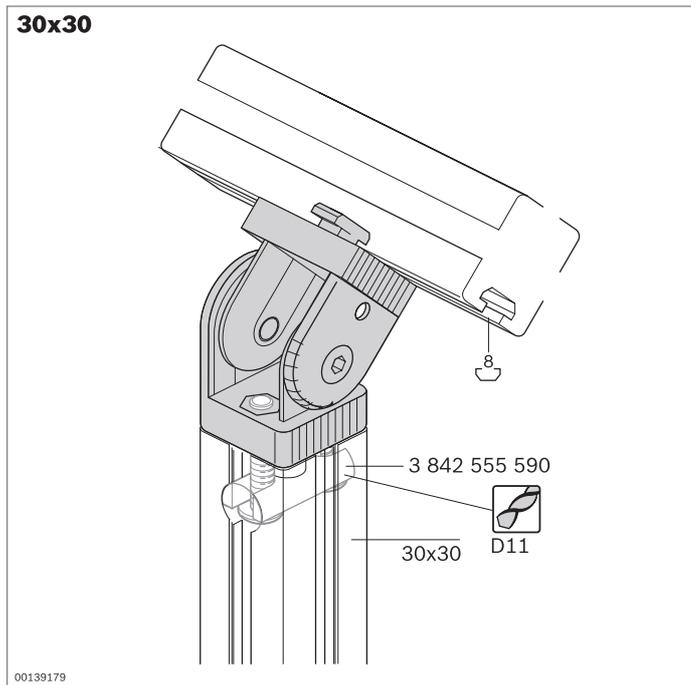


- ▶ For movable or rigid profile connections at any angle
- ▶ Swivel range 180°
- ▶ With a 15° graduation
- ▶ Clamping (3 Nm) and convenient adjustment of joint using a clamping lever (M4x20)
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- ▶ Two different assembly versions (normal and support) available under the same order number



Joint 20x20	Slot	ESD	No.	FS
Standard	6		3 842 555 659	2xFS3, 2xFS4
designLINE	6		3 842 555 665	2xFS3, 2xFS4

Material: Standard: Diecast aluminum
designLINE: painted, RAL 9006
 Fastening material: Steel; galvanized
 Scope of delivery: Incl. fastening material (FS)



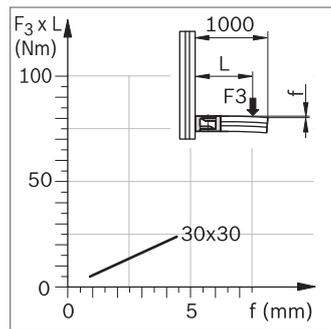
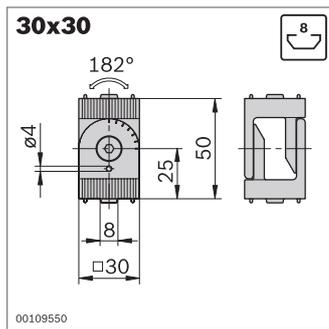
Joint 30x30



- ▶ For movable or rigid profile connections at any angle
- ▶ Swivel range 182°
- ▶ With a 15° graduation
- ▶ Locking by clamping (5 Nm) or fixing with pins (15 Nm)
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- ▶ Profile finishing:
Through-hole D11 for end face profile connections

Required accessories:

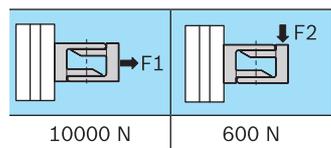
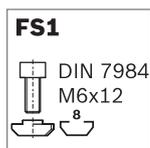
Bolt connector D11 for end face connections

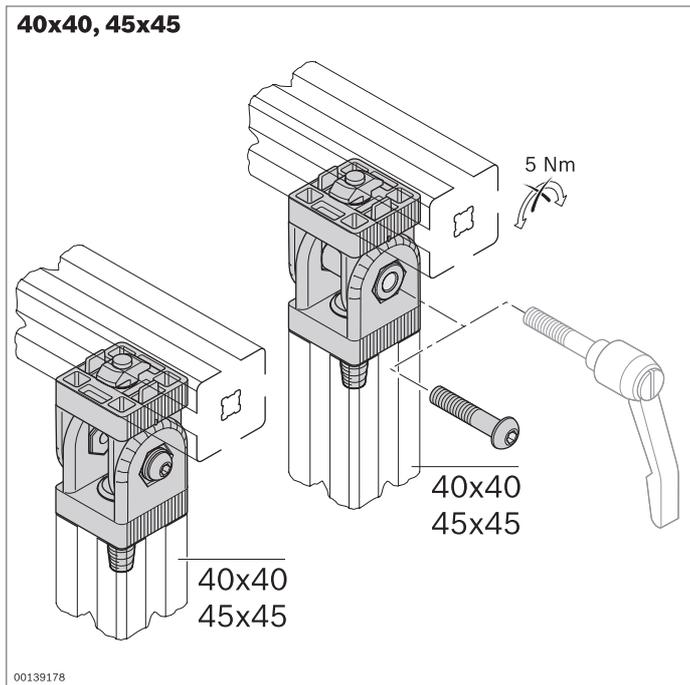


Joint 30x30	Slot	ESD No.	FS
Standard	8	3 842 502 683	2xFS1, 4xFS2
designLINE	8	3 842 538 683	2xFS1, 4xFS2

Material: Standard: Diecast zinc
designLINE: painted, RAL 9006
Fastening material: Steel; galvanized

Scope of delivery: Incl. fastening material (FS)



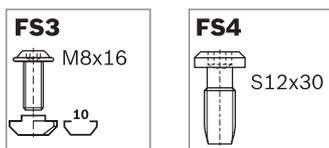
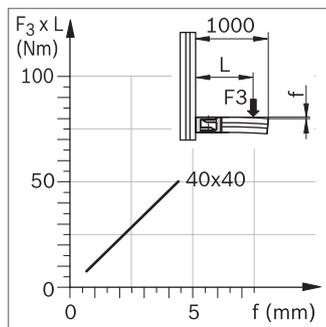
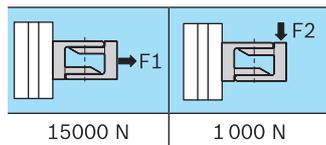
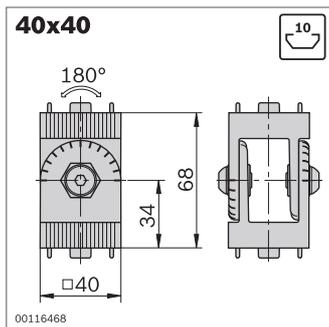


Join 40x40, 40x40 support, 45x45, 45x45 support



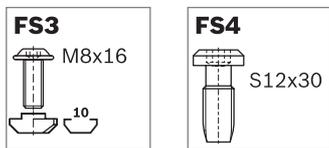
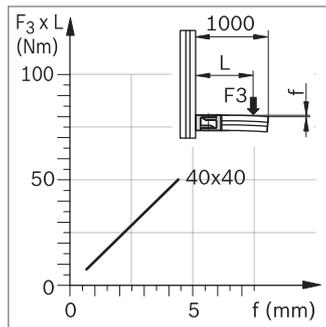
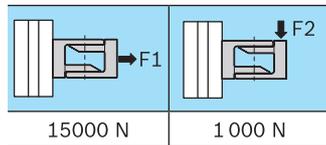
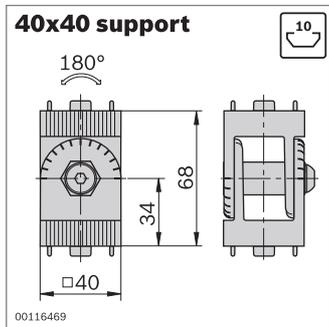
designLINE

- ▶ For movable or rigid profile connections at any angle
- ▶ Swivel range 180°
- ▶ With a 15° graduation
- ▶ Clamping and convenient adjustment of “support” joint using a clamping lever (5 Nm)
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design



Joint 40x40	Slot ESD	No.	FS
Standard	10	3 842 543 401	2xFS3, 2xFS4
<i>designLINE</i>	10	3 842 538 684	2xFS3, 2xFS4

Material: Standard: Diecast aluminum
designLINE: painted, RAL 9006
Fastening material: Steel; galvanized
Scope of delivery: Incl. fastening material (FS)

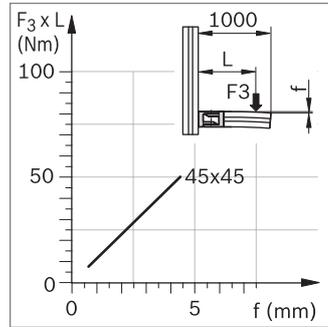
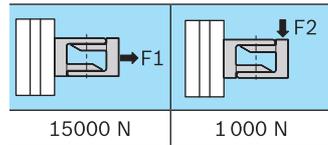
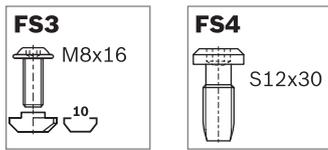
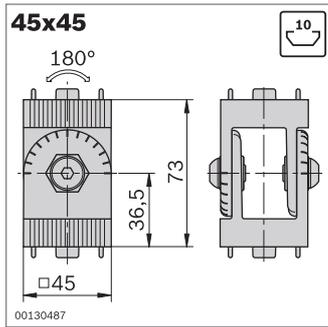


Joint 40x40 support	Slot ESD	No.	FS
Standard	10	3 842 543 402	2xFS3, 2xFS4
<i>designLINE</i>	10	3 842 538 685	2xFS3, 2xFS4

Material: Standard: Diecast aluminum
designLINE: painted, RAL 9006
Fastening material: Steel; galvanized
Scope of delivery: Incl. fastening material (FS)

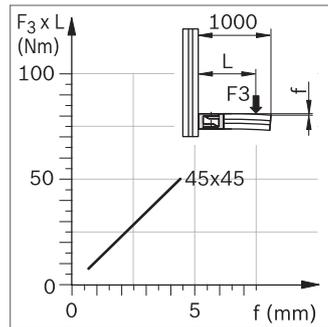
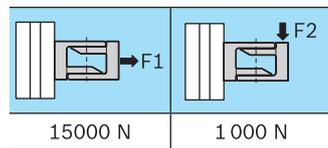
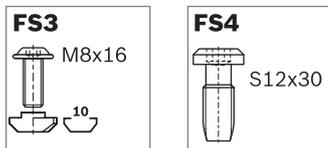
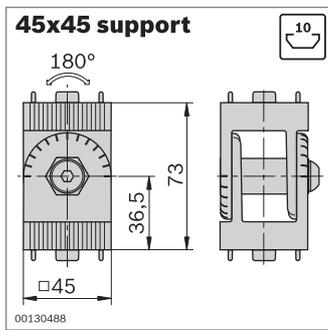
Clamping lever M8x40	No.
For joint 40x40 support	3 842 516 847

Material: Diecast zinc, black polymer coating



Joint 45x45	Slot	ESD	No.	FS
Standard	10		3 842 543 403	2xFS3, 2xFS4
<i>designLINE</i>	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)

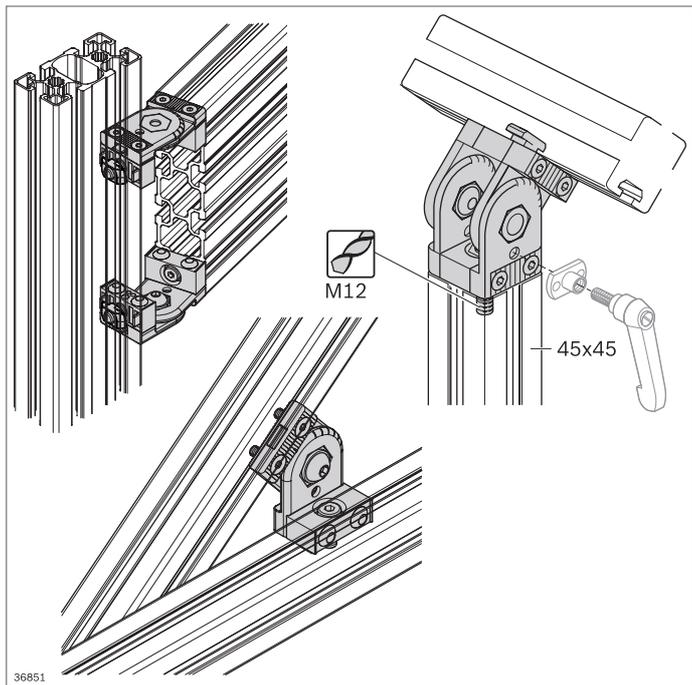


Joint 45x45 support	Slot	ESD	No.	FS
Standard	10		3 842 543 404	2xFS3, 2xFS4
<i>designLINE</i>	10		3 842 538 687	2xFS3, 2xFS4

Material: Standard: Diecast aluminum
designLINE: painted, RAL 9006
 Fastening material: Steel; galvanized
 Scope of delivery: Incl. fastening material (FS)

Clamping lever M8x45	No.
For joint 45x45 support	3 842 538 607

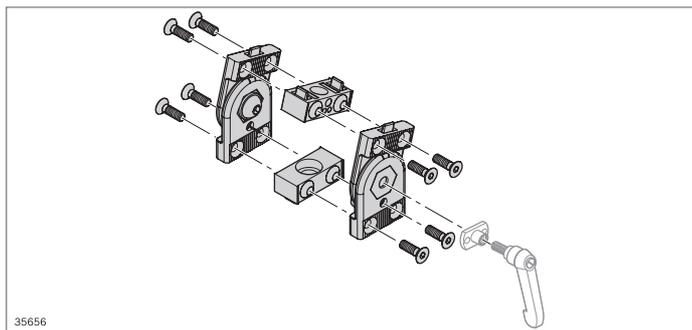
Material: Diecast zinc, black polymer coating



Joint 45x45



- ▶ For movable or rigid profile connections at any angle
- ▶ Swivel range 182°
- ▶ With a 15° graduation

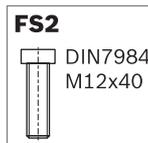
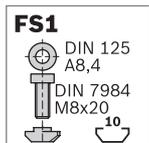
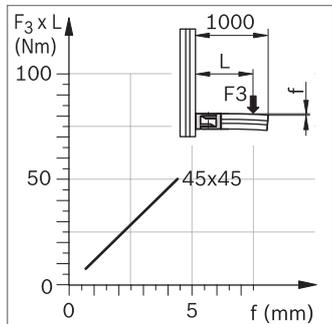
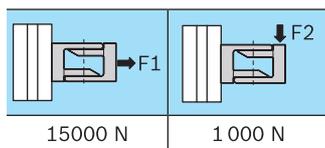
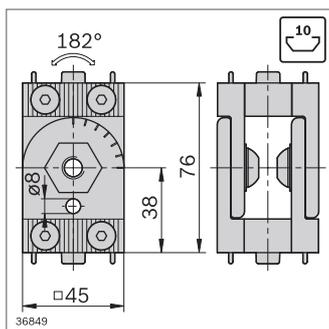


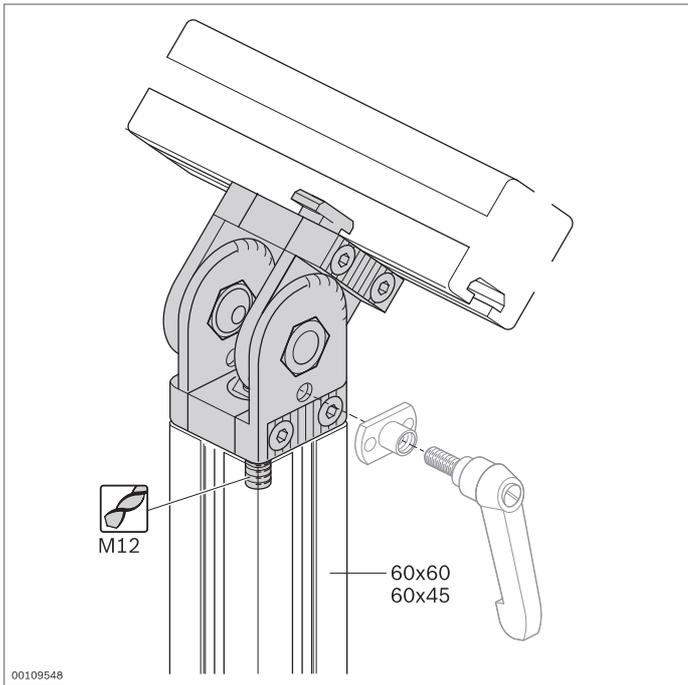
Joint 45x45	Slot ESD No.	FS
Standard	10 3 842 502 684	2xFS1, 2xFS2

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

Clamping lever M5x10	ESD No.
For joint 45x45	3 842 505 144

Material: Diecast zinc, black polymer coating

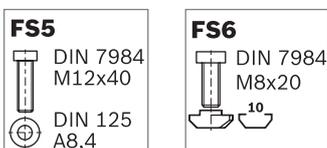
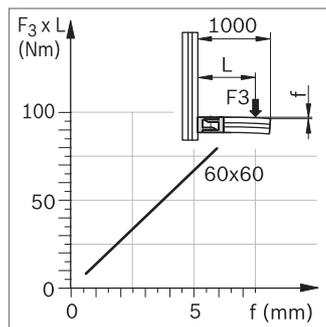
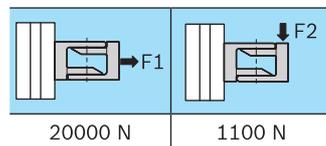
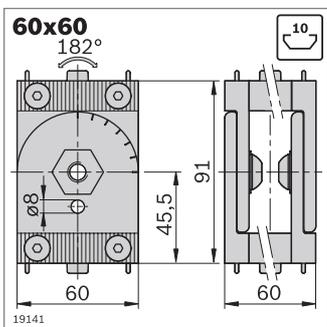
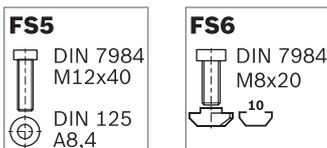
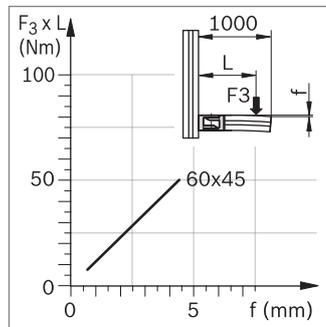
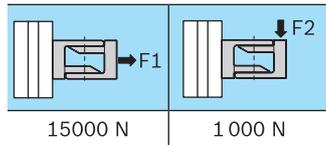
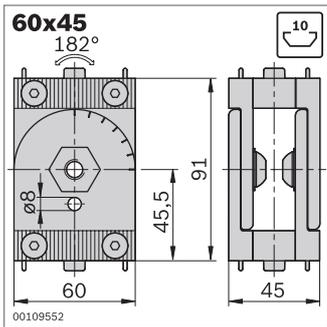




Joint 60x45, 60x60



- ▶ For movable or rigid profile connections at any angle
- ▶ Swivel range 182°
- ▶ With a 15° graduation
- ▶ Locking by clamping (5 Nm) or fixing with pins (15 Nm)
- ▶ The joint can be adjusted using a clamping lever
- ▶ *designLINE* version with special silver paint (RAL 9006)
- ▶ Profile finishing:
Thread (M12) in central bore for end connection



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

Material: Standard: Diecast zinc
designLINE: painted, RAL 9006
Fastening material: Steel; galvanized

Scope of delivery: Incl. fastening material (FS)

Clamping lever M5x10	No.
For joint 60x45	3 842 505 144

Material: Diecast zinc, black polymer coating

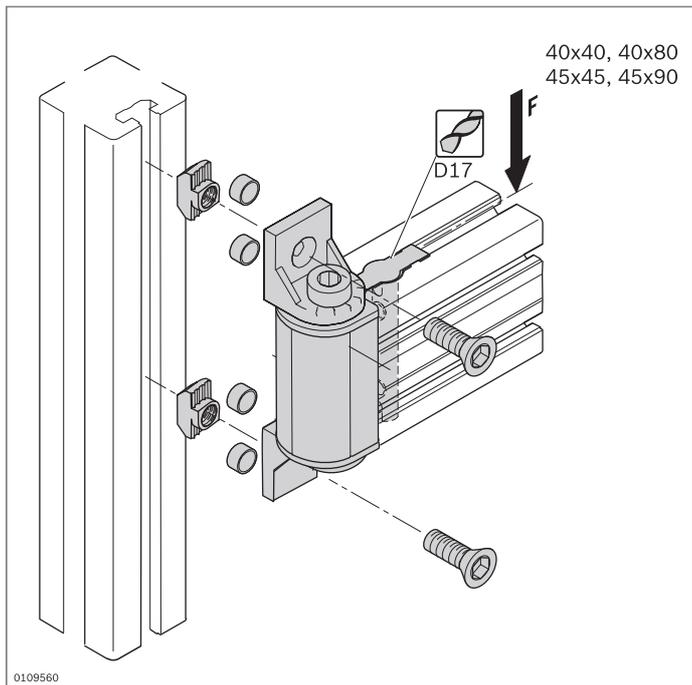
Joint 60x60	Slot	ESD	No.	FS
Standard	10		3 842 502 687	2xFS5, 2xFS6
<i>designLINE</i>	10		3 842 539 800	2xFS5, 2xFS6

Material: Standard: Diecast zinc
designLINE: painted, RAL 9006
Fastening material: Steel; galvanized

Scope of delivery: Incl. fastening material (FS)

Clamping lever M5x10	No.
For joint 60x60	3 842 505 144

Material: Diecast zinc, black polymer coating

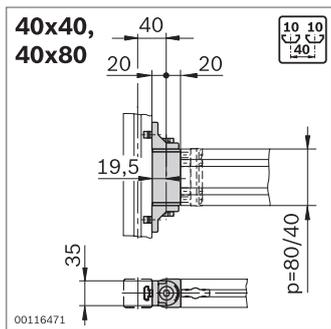


Swivel bearing

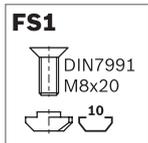


- ▶ Suitable for swiveling right-angled profile connections, e.g. for constructing supporting arms or doors
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- ▶ Profile finishing:
Through-hole D17

4



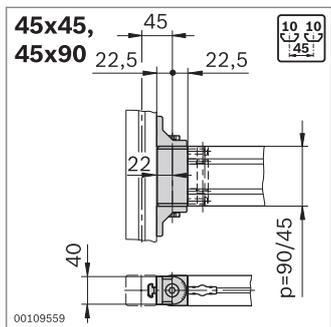
Profile	$M_{max} = F \times L$ (Nm)
40x40	40
40x80	130



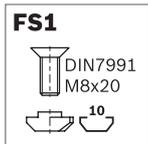
Swivel bearing		p (mm)	ESD No.	FS
40x40	Standard	40	3 842 554 404	2xFS1
	<i>designLINE</i>	40	3 842 554 412	2xFS1
40x80	Standard	80	3 842 554 406	2xFS1
	<i>designLINE</i>	80	3 842 554 414	2xFS1

Material: Standard: Diecast aluminum
designLINE: painted (RAL 9006)
Fastening material: Steel; galvanized
Cover cap: PP; gray

Scope of delivery: Incl. cover caps, bolt connectors, fastening material (FS)



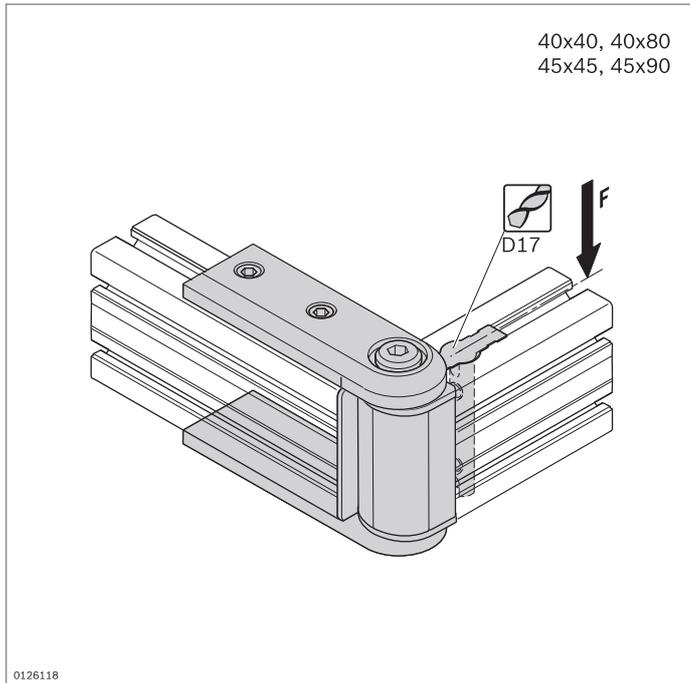
Profile	$M_{max} = F \times L$ (Nm)
45x45	50
45x90	150



Swivel bearing		p (mm)	ESD No.	FS
45x45	Standard	45	3 842 554 408	2xFS1
	<i>designLINE</i>	45	3 842 554 416	2xFS1
45x90	Standard	90	3 842 554 410	2xFS1
	<i>designLINE</i>	90	3 842 554 418	2xFS1

Material: Standard: Diecast zinc
designLINE: painted (RAL 9006)
Fastening material: Steel; galvanized
Cover cap: PP; gray

Scope of delivery: Incl. cover caps, bolt connectors, fastening material (FS)

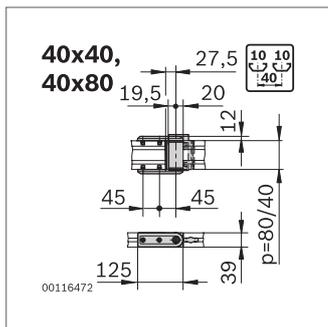


Supporting arm joint

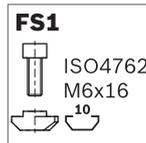


designLINE

- ▶ 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:
Through-hole D17



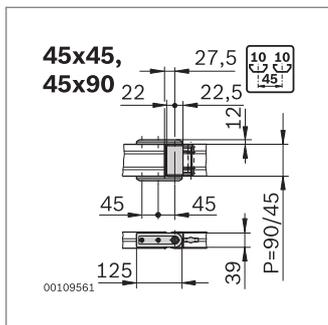
Profile	$M_{max} = F \times L$ (Nm)
40x40	40
40x80	130



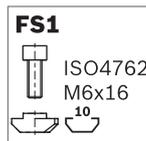
Supporting arm joint	p (mm)	ESD No.	FS
40x40	Standard	40	3 842 554 420 4xFS1
	<i>designLINE</i>	40	3 842 554 428 4xFS1
40x80	Standard	80	3 842 554 422 4xFS1
	<i>designLINE</i>	80	3 842 554 430 4xFS1

Material: Standard: Diecast zinc
designLINE: painted (RAL 9006)
Cover cap: PP, signal gray
Fastening material: Steel; galvanized

Scope of delivery: Incl. cover caps, bolt connectors, fastening material (FS)



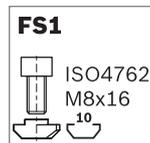
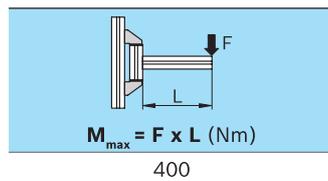
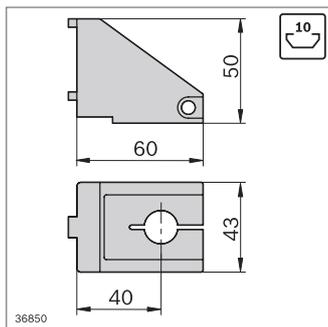
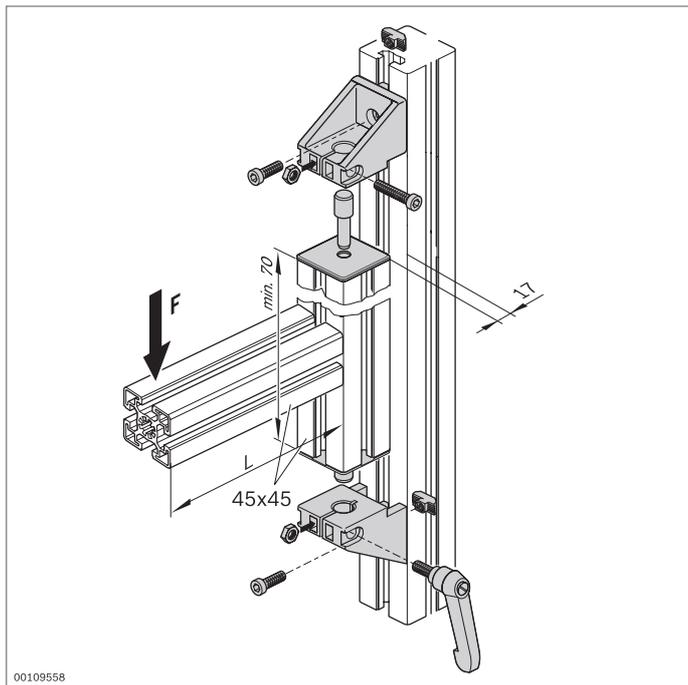
Profile	$M_{max} = F \times L$ (Nm)
45x45	50
45x90	150



Supporting arm joint	p (mm)	ESD No.	FS
45x45	Standard	45	3 842 554 424 4xFS1
	<i>designLINE</i>	45	3 842 554 432 4xFS1
45x90	Standard	90	3 842 554 426 4xFS1
	<i>designLINE</i>	90	3 842 554 434 4xFS1

Material: Standard: Diecast zinc
designLINE: painted (RAL 9006)
Cover cap: PP, signal gray
Fastening material: Steel; galvanized

Scope of delivery: Incl. cover caps, bolt connectors, fastening material (FS)



Bearing pedestal



designLINE

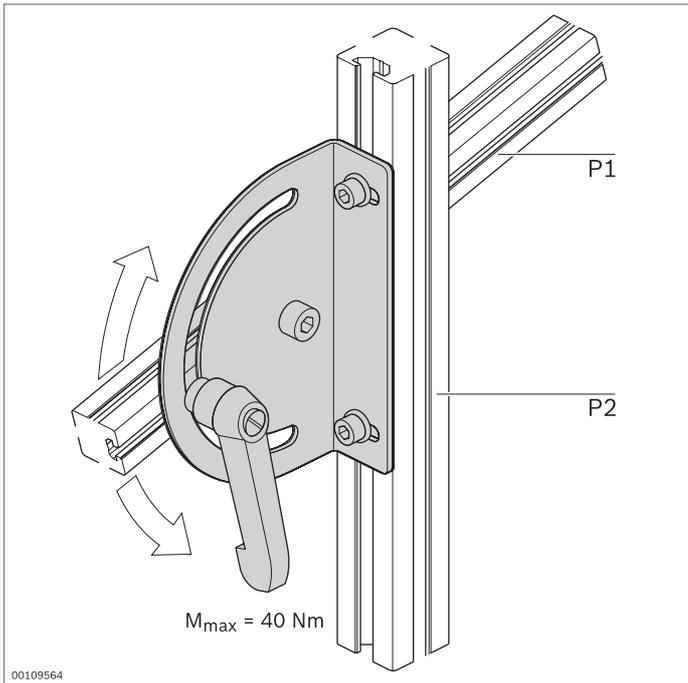
- ▶ Bearing pedestal for heavy constructions which have to be swiveled
- ▶ *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design

4

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

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

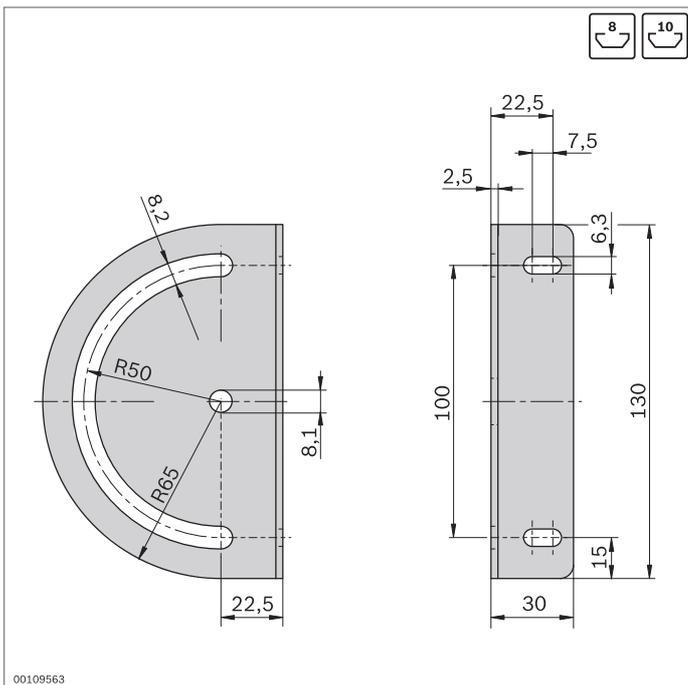
Scope of delivery: Incl. fastening material (FS), 2 x cover cap, 2 x bolt, clamping lever (and additional standard parts for clamping the bearing pedestal)



Swivel mounting 180°



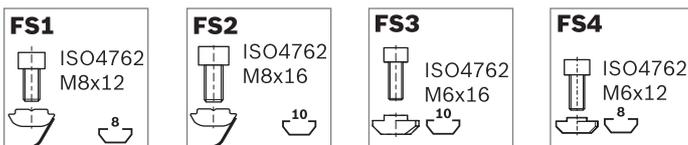
- Swivel mounting for shelves, etc. which need to be positioned at an angle of $\pm 90^\circ$

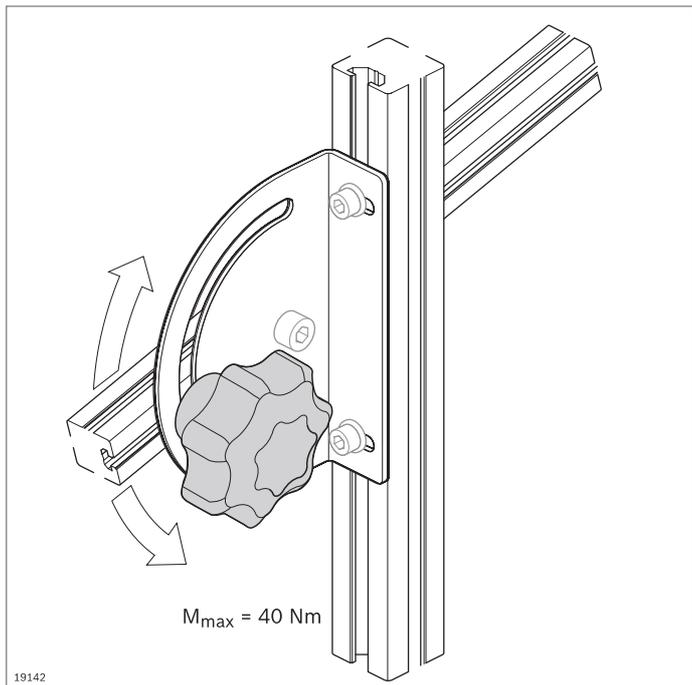


Swivel mounting 180°	P1 / P2	ESD No.	FS
	8 / 8	⚠ 3 842 538 275	FS1
	8 / 10		2xFS3 2xFS4 2xFS5
	10 / 8	⚠ 3 842 538 276	FS2
	10 / 10		2xFS3 2xFS4 2xFS5

Material: Swivel mounting: Steel; galvanized
Clamping lever: Diecast zinc; black plastic coated

Scope of delivery: Incl. fastening material (FS), clamping lever with disk and swivel-in sliding block with spring





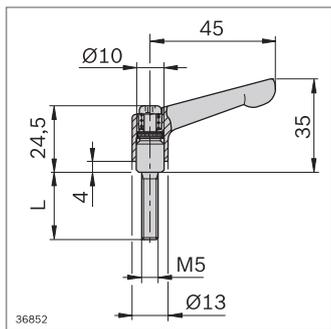
Clamping lever, star knob



- ▶ Clamping elements for adjustable connections

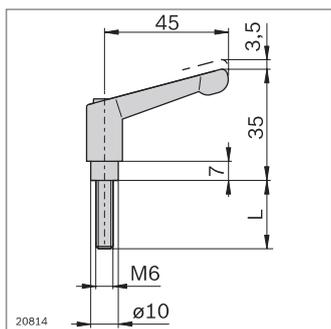
Accessories:

- ▶ Screws and sliding blocks; see fastening material (p. 4-12)



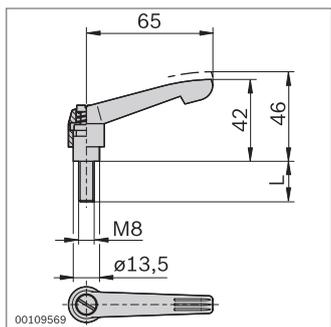
Clamping lever M5	L (mm)	No.
	10	3 842 505 144

Material: Clamping lever: Diecast zinc; black plastic coated
Screws: Steel; bronzed



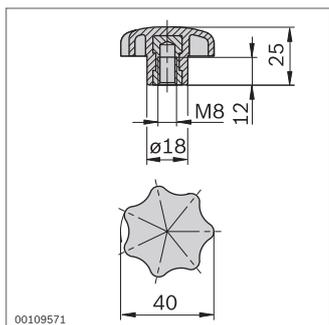
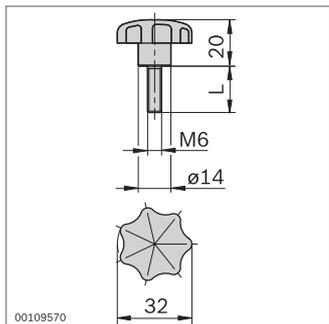
Clamping lever M6	L (mm)	No.
	25	3 842 528 540
	40	3 842 528 539

Material: Clamping lever: Diecast zinc; black plastic coated
Screws: Steel; galvanized and black chrome-plated



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

Material: Clamping lever: Diecast zinc; black plastic coated
Steel parts: galvanized, strength class 5.8



Star knob M6	L (mm)	No.
	15	3 842 516 849
	20	3 842 516 850

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

Star knob M8	No.
	3 842 516 851

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