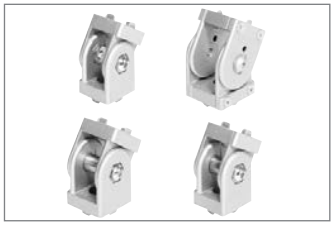
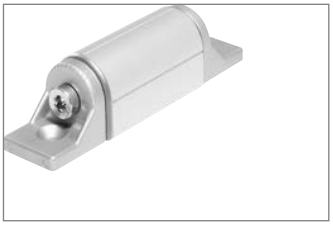
Joints



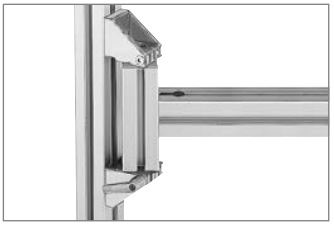
Joints (p. 4-2)



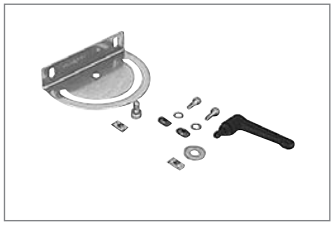
Swivel bearing (p. 4-11)



Supporting arm joint (p. 4-12)



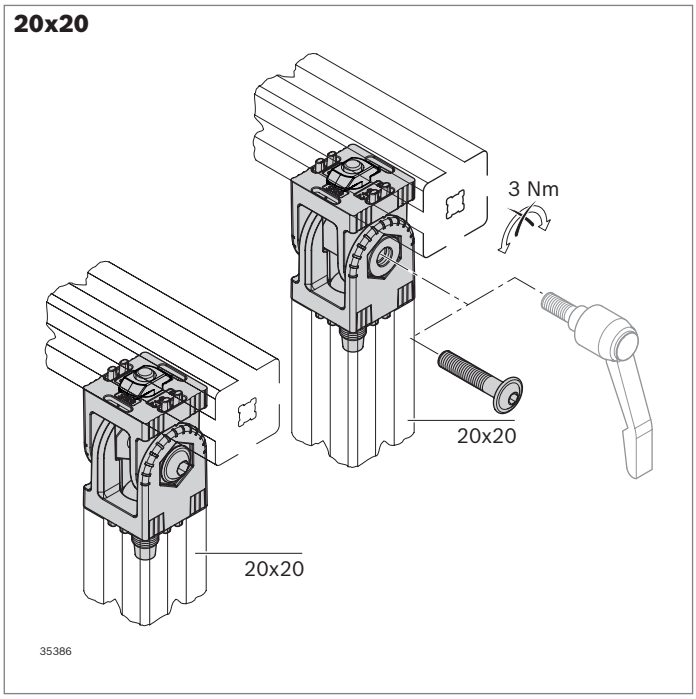
Bearing pedestal (p. 4-13)



Swivel mounting (p. 4-14)



Clamping lever, star knob (p. 4-15)

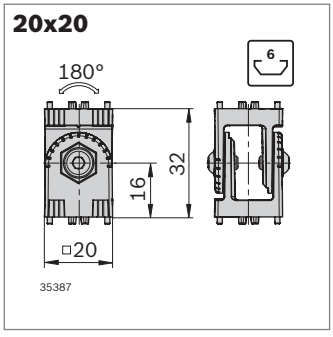


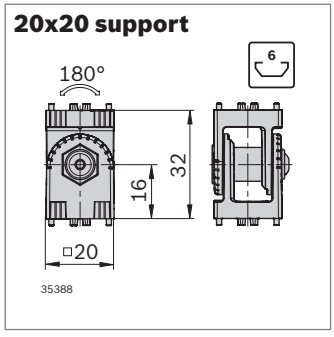
Joint 20x20



designLINE

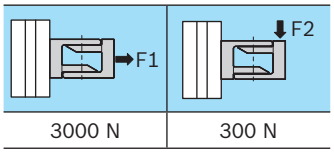
- For movable or rigid profile connections at any angle
- Swivel range 180°
- With a 15° graduation
- Clamping (3 Nm) and convenient adjustment of joint using a clamping lever (M4x20)
- *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- Two different assembly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

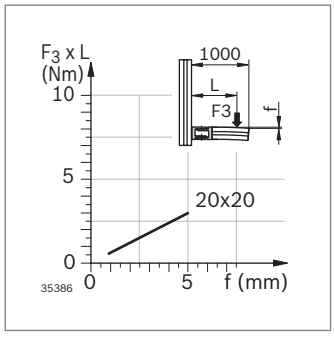


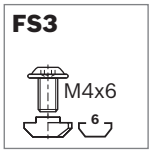


Joint 20x20	Slot	ESD	No.	FS
Standard	6		**3 842 555 659**	2xFS3, 2xFS4
designLINE	6		**3 842 555 665**	2xFS3, 2xFS4

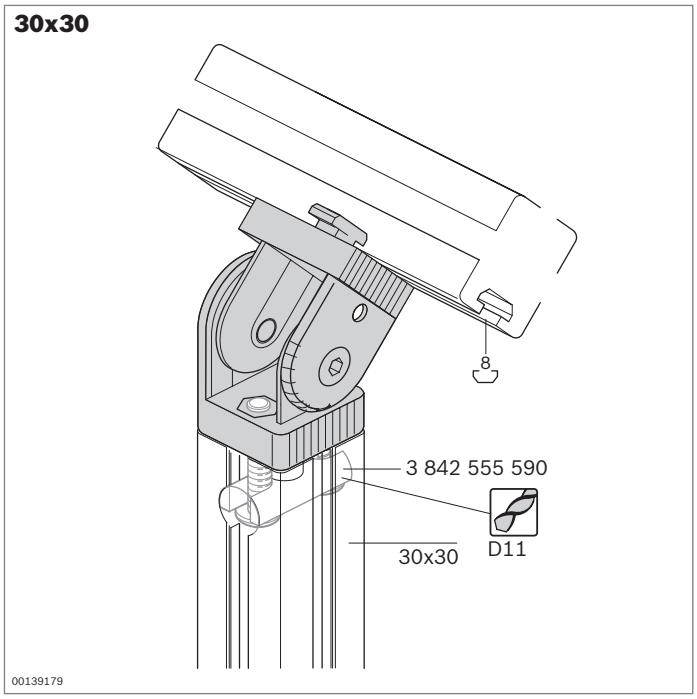
Material:	Standard: Diecast aluminum *designLINE*: painted, RAL 9006 Fastening material: Steel; zinc-plated
Scope of delivery:	Incl. fastening material (FS)









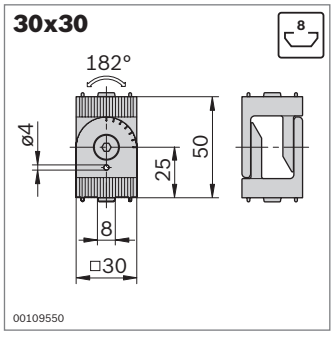


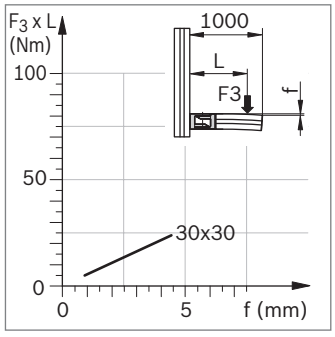
Joint 30x30

designLINE

- For movable or rigid profile connections at any angle
- Swivel range 182°
- With a 15° graduation
- Joint can be clamped (5 Nm) or swivel mounted
- Option of permanent fixing via 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

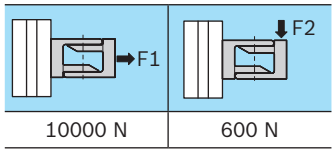
Required accessories:
Bolt connector D11 for end face connections





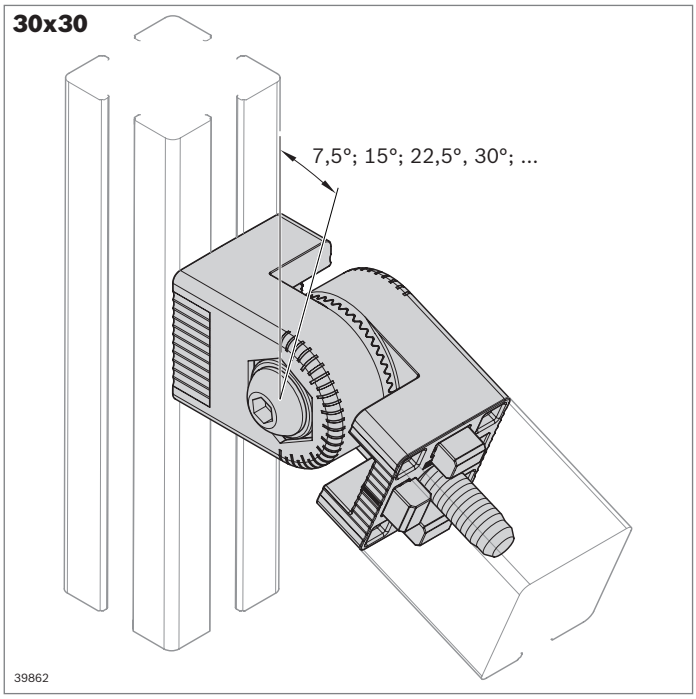






Joint 30x30	Slot	ESD	No.	FS
Standard	8		**3 842 502 683**	2xFS1, 4xFS2
designLINE	8		**3 842 538 683**	2xFS1, 4xFS2

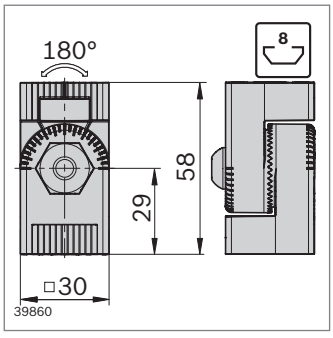
Material:	Standard: Diecast zinc *designLINE*: painted, RAL 9006 Fastening material: Steel; zinc-plated
Scope of delivery:	Incl. fastening material (FS)



Joint 30x30 lockable



- For adjustable or rigid profile connections
- For high loads up to 45 Nm in the swivel direction
- Form fit thanks to Hirth teething
- Swivel range 180°
- Easy adjustment in the 7.5° modular dimensions
- Marking with a 7.5° 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 30x30 (p. 4-3)

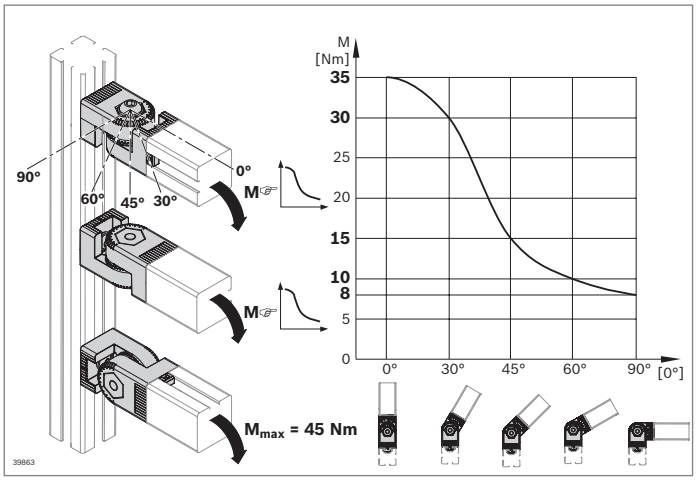


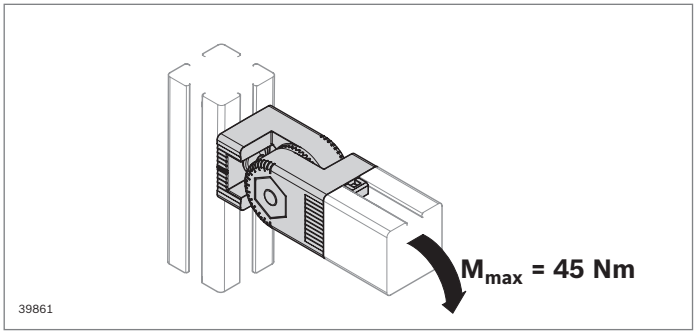
Joint 30x30 lockable	Slot	ESD	No.
	10	ESD	**3 842 562 086**

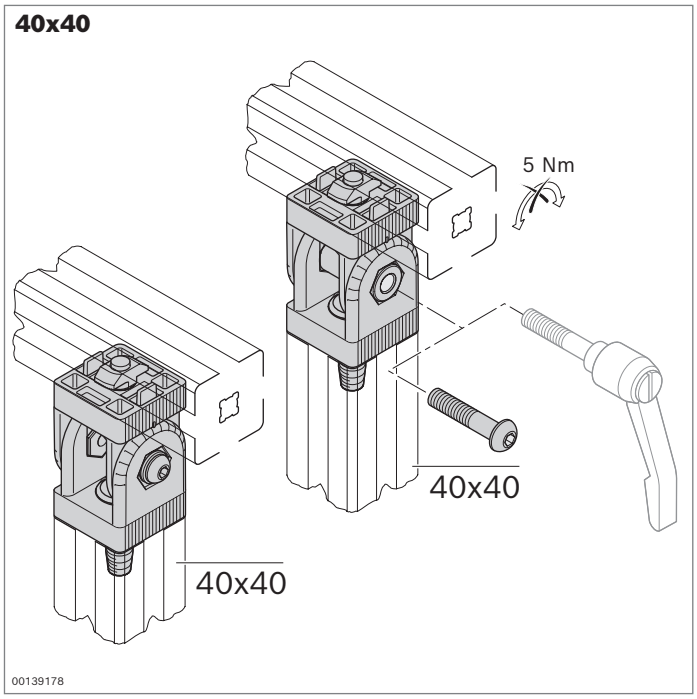
Material: Diecast zinc
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. Fastening material

Clamping lever M8x30	No.
For joint 30x30 lockable	**3 842 564 090**

Material: Diecast zinc; black polymer coating





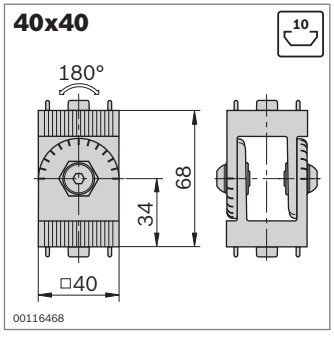


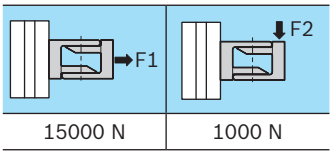
Joint40x40, 40x40 support

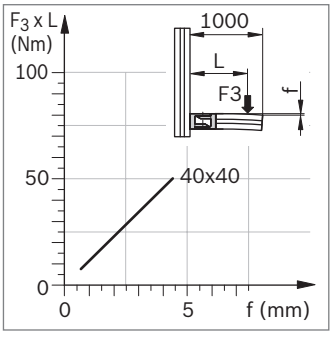


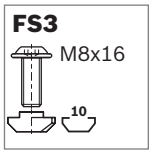
designLINE

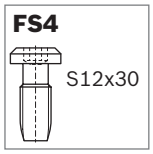
- For movable or rigid profile connections at any angle
- Swivel range 180°
- With a 15° graduation
- Joint can be clamped (5 Nm) or swivel mounted
- Clamping and convenient adjustment of support joint using a clamping lever (5 Nm)
- *designLINE* version with special silver paint (RAL 9006) for an attractive,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





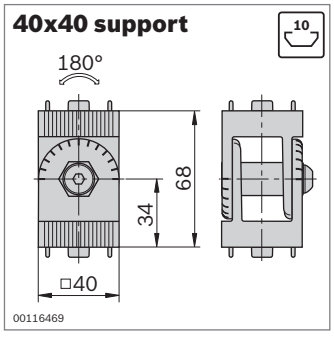


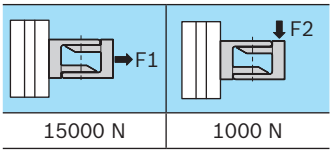


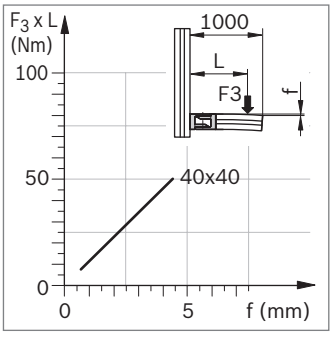


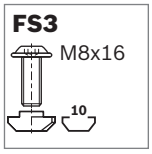
Joint 40x40	Slot	ESD	No.	FS
Standard	10		**3 842 543 401**	2xFS3, 2xFS4
designLINE	10		**3 842 538 684**	2xFS3, 2xFS4

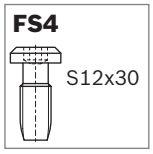
Material: Standard: Diecast aluminum
designLINE: painted, RAL 9006
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)









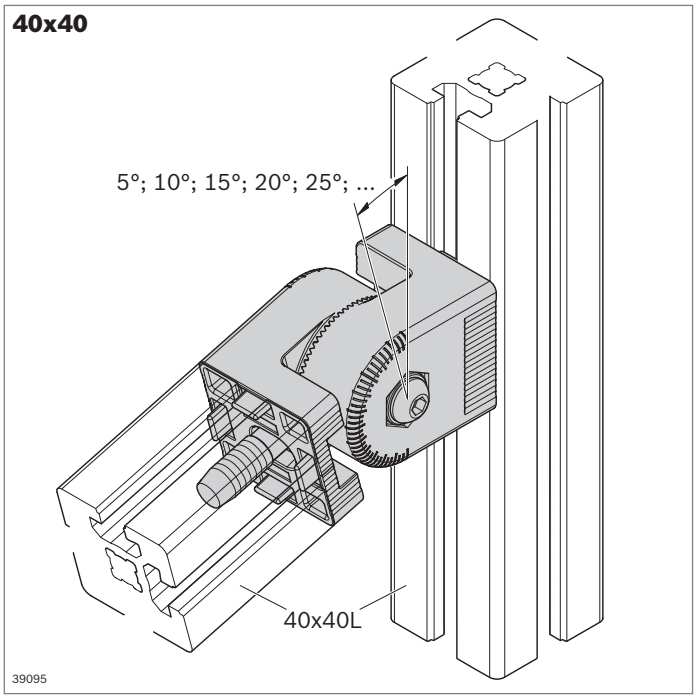


Joint 40x40 support	Slot	ESD	No.	FS
Standard	10		**3 842 543 402**	2xFS3, 2xFS4
designLINE	10		**3 842 538 685**	2xFS3, 2xFS4

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

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

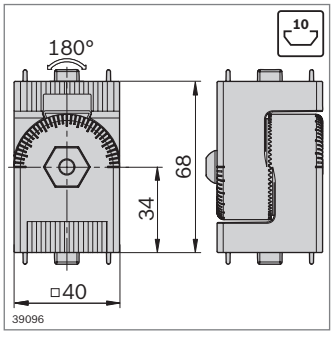
Material: Diecast zinc; black polymer coating

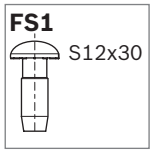


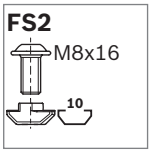
Joint 40x40 lockable



- 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 40x40 and joint 40x40 support (p. 4-5)





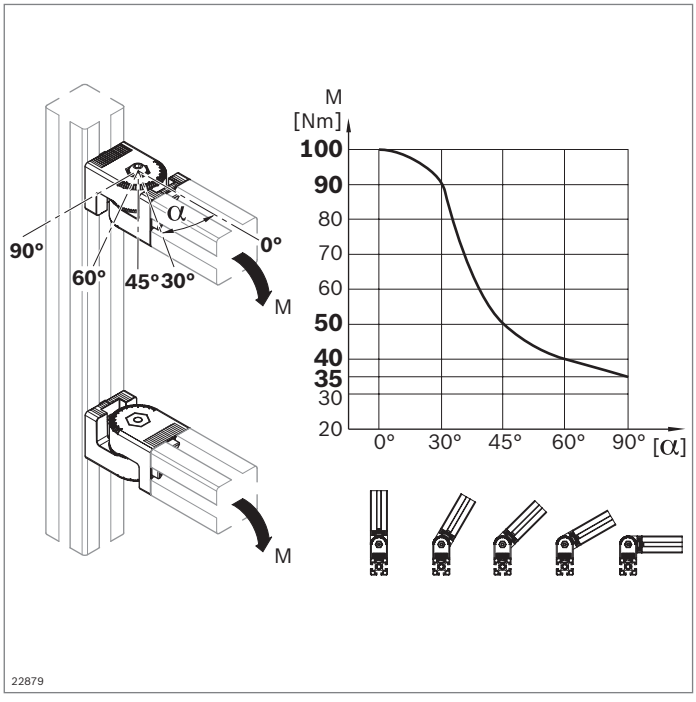


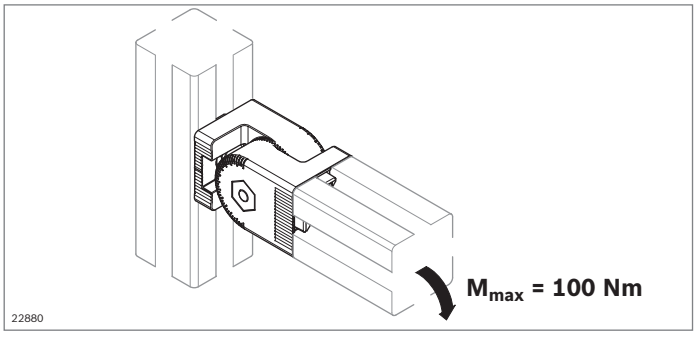
Joint 40x40 lockable	Slot	ESD	No.	FS
Standard	10		**3 842 562 087**	2xFS1, 2xFS2

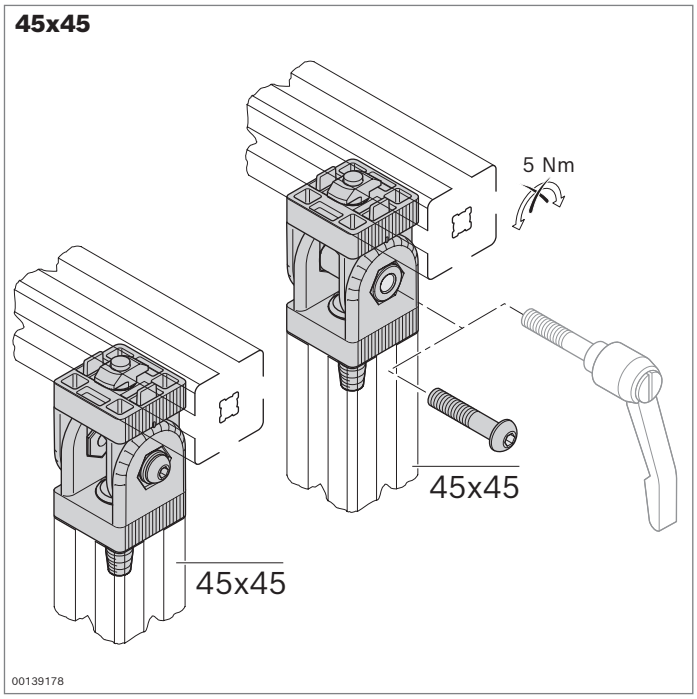
Material: Diecast zinc
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)

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

Material: Diecast zinc; black polymer coating



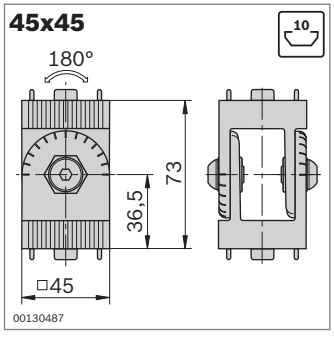


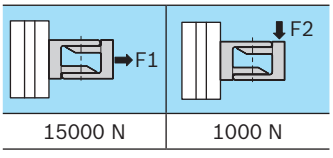


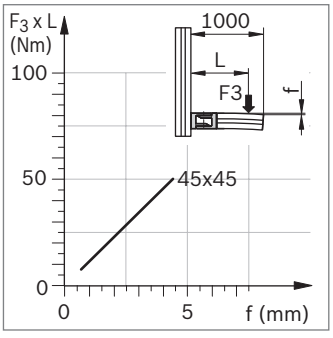
Joint 45x45, 45x45 support

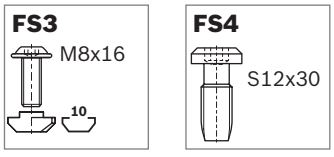
designLINE

- For movable or rigid profile connections at any angle
- Swivel range 180°
- With a 15° graduation
- Joint can be clamped (5 Nm) or swivel mounted
- 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



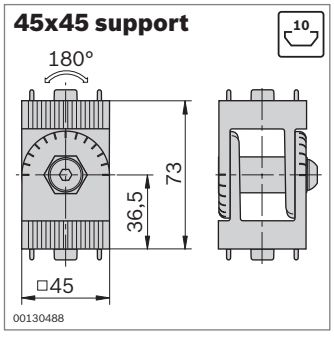


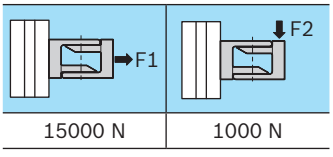


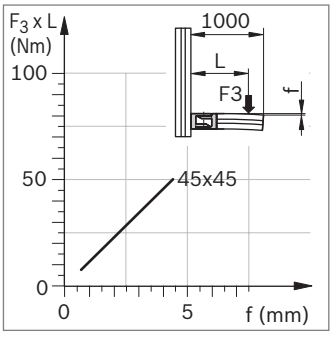


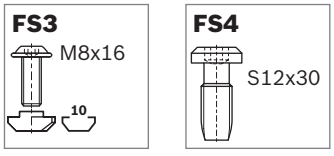
Joint 45x45	Slot	ESD	No.	FS
Standard	10		**3 842 543 403**	2xFS3, 2xFS4
designLINE	10		**3 842 538 686**	2xFS3, 2xFS4

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







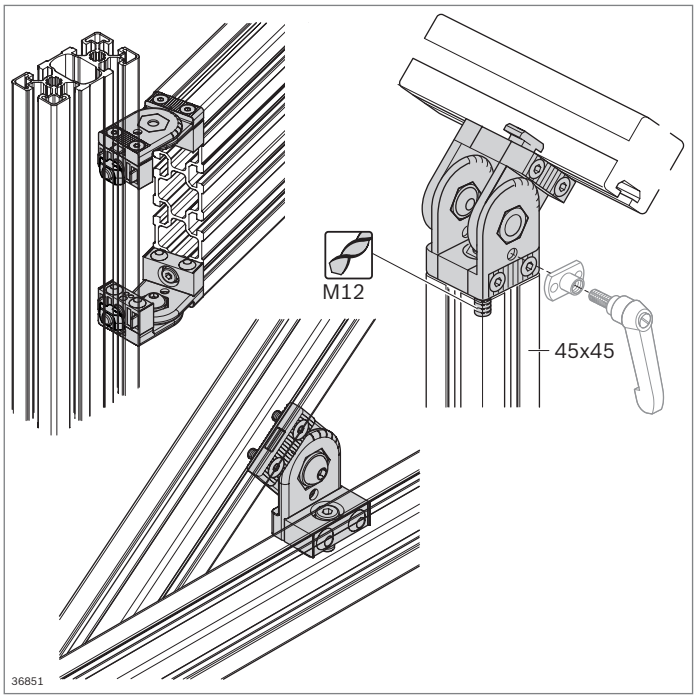


Joint 45x45 support	Slot	ESD	No.	FS
Standard	10		**3 842 543 404**	2xFS3, 2xFS4
designLINE	10		**3 842 538 687**	2xFS3, 2xFS4

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

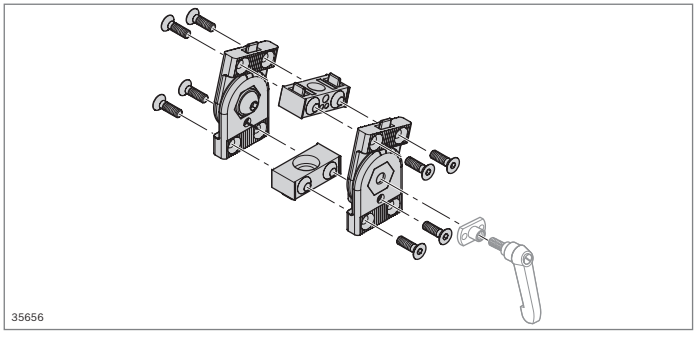
Clamping lever M8x45	No.
For joint 45x45 support	**3 842 538 607**

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 can be clamped (5 Nm) or swivel mounted
- Option of permanent fixing via pins (15 Nm)

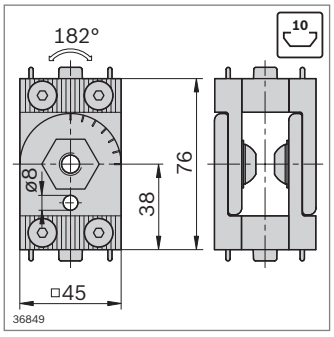


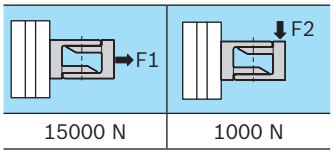
Joint 45x45	Slot	ESD	No.	FS
Standard	10		**3 842 502 684**	2xFS1, 2xFS2

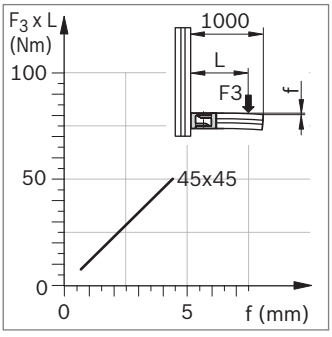
Material: Standard: Diecast zinc
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)

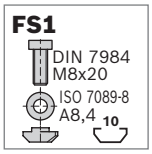
Clamping lever M5x10	ESD	No.
For joint 45x45		**3 842 505 144**

Material: Diecast zinc; black polymer coating

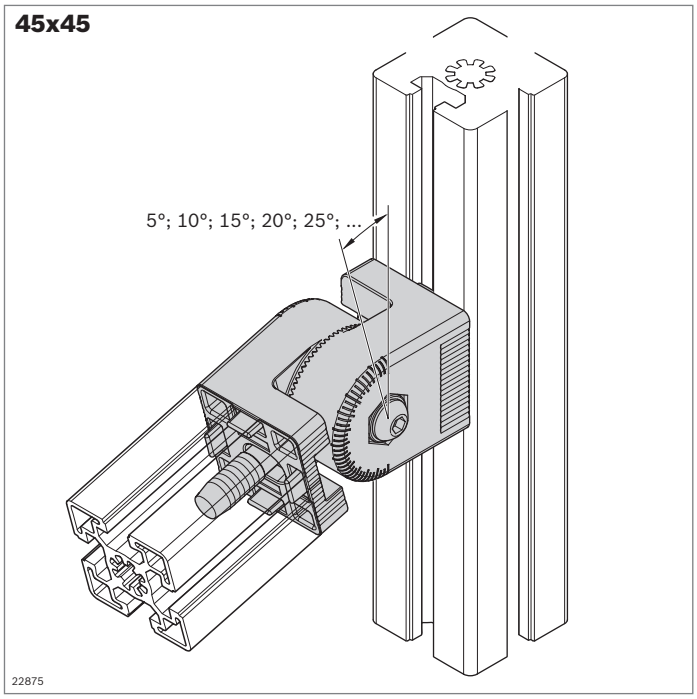


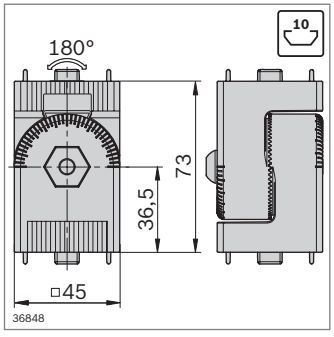


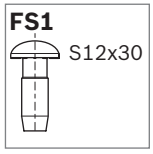


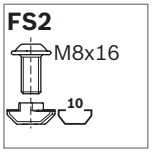


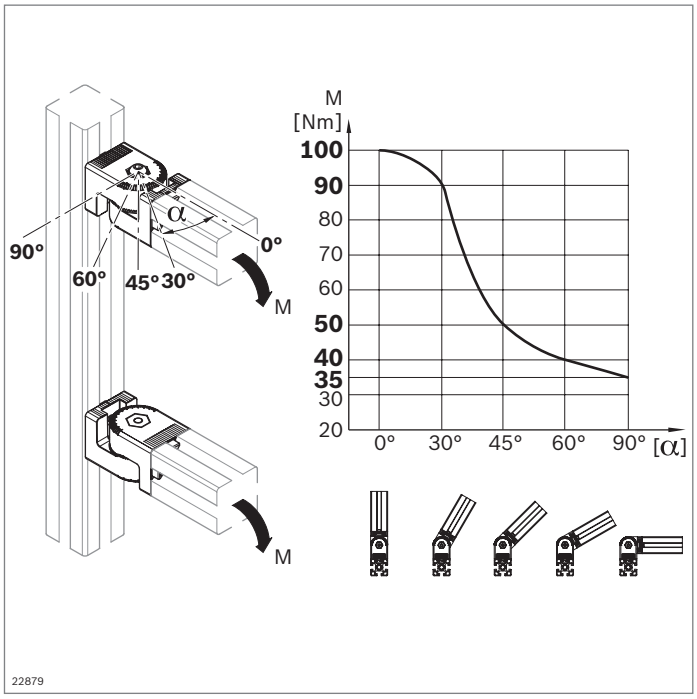












Joint 45x45 lockable



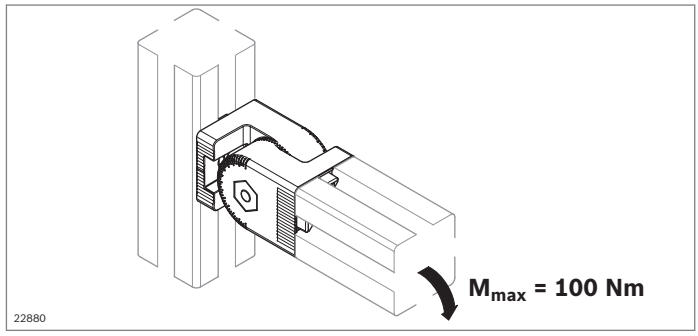
- For adjustable or rigid profile connections
- For high loads up to 100 Nm in the swivel direction
- Form fit thanks to Hirth teething
- Swivel range 180°
- Easy adjustment in the 5° modular dimensions
- Marking with a 5° graduation for easy detection of the adjustment angle
- Clamping and convenient 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. 4-7)

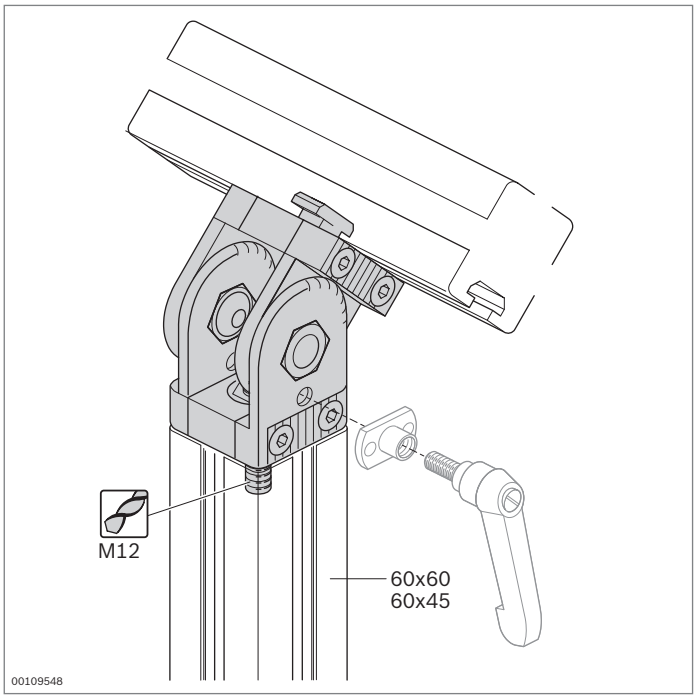
Joint 45x45 lockable	Slot	ESD	No.	FS
	10		**3 842 546 564**	2xFS1, 2xFS2

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

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

Material:	Diecast zinc; black polymer coating

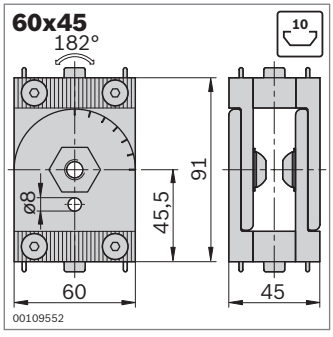


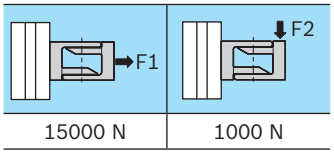


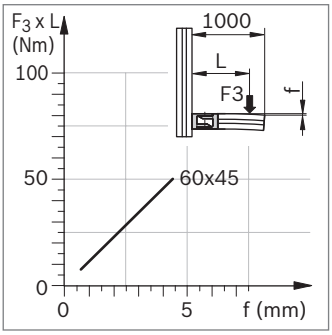
Joint 60x45, 60x60

designLINE

- For movable or rigid profile connections at any angle
- Swivel range 182°
- With a 15° graduation
- Joint can be clamped (5 Nm) or swivel mounted
- Optional pins for permanent fixing (15 Nm)
- *designLINE* version with special silver paint (RAL 9006)
- Profile finishing:
  Thread (M12) in central hole for end-face connection







FS5
DIN 7984
M12x40
ISO 7089-8
A8,4

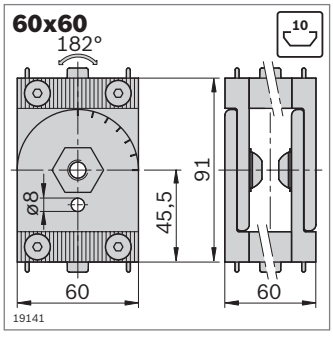
FS6
DIN 7984
M8x20
10

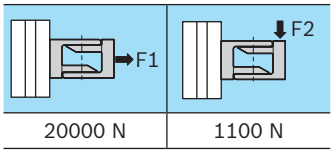
Joint 60x45	Slot	ESD	No.	FS
Standard	10		**3 842 502 688**	2xFS5, 2xFS6
designLINE	10		**3 842 539 799**	2xFS5, 2xFS6

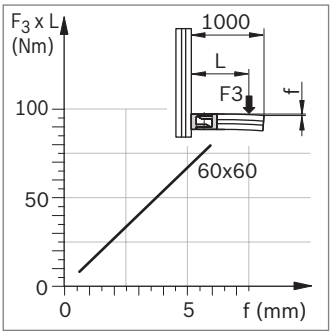
Material: Standard: Diecast zinc
designLINE: painted, RAL 9006
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)

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

Material: Diecast zinc; black polymer coating







FS5
DIN 7984
M12x40
ISO 7089-8
A8,4

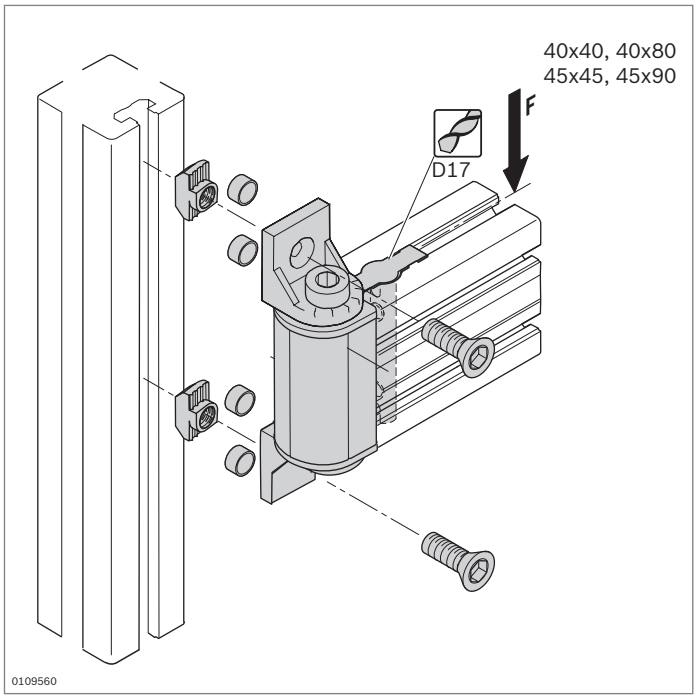
FS6
DIN 7984
M8x20
10

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

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

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

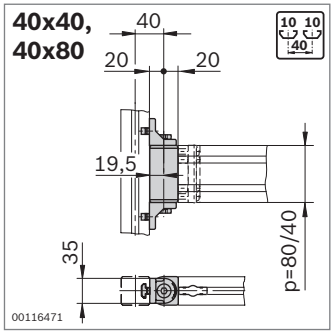
Material: Diecast zinc; black polymer coating



Swivel bearing

designLINE

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



Profile	F, L M_{max} = F x L (Nm)
40x40	40
40x80	130

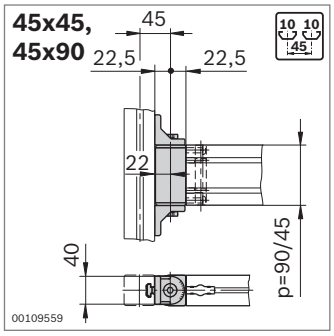
FS1
DIN7991
M8x20
10

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

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

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

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



Profile	F, L M_{max} = F x L (Nm)
45x45	50
45x90	150

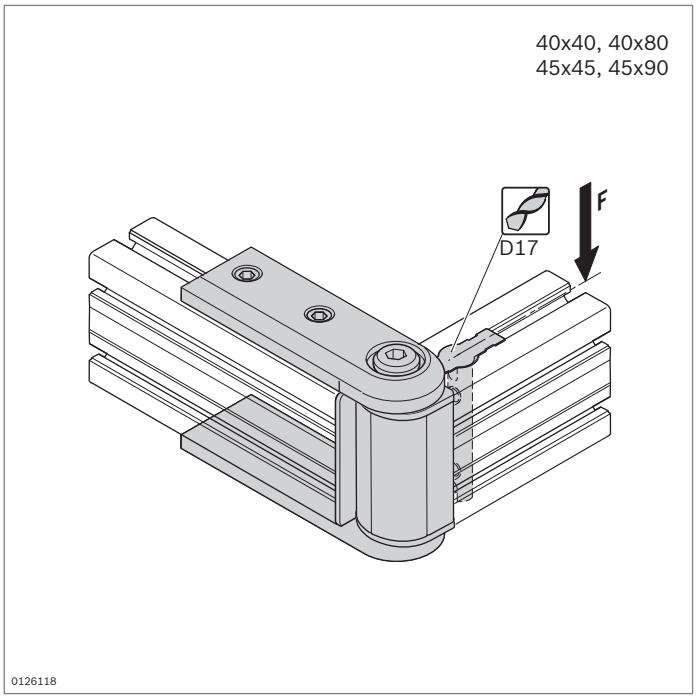
FS1
DIN7991
M8x20
10

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

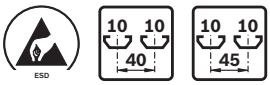
Material: Standard: Diecast zinc
designLINE: painted (RAL 9006)
Fastening material: Steel; zinc-plated
Cover cap: PP; signal gray

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

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

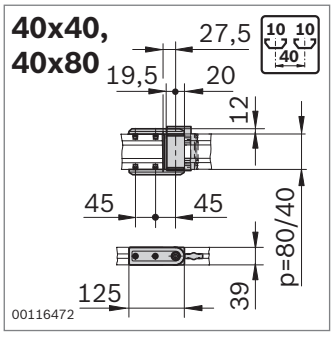


Supporting arm joint



designLINE

- Suitable for swiveling end connections, e.g. for the construction of supporting arms
- Can be locked in any position
- *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- Profile finishing:
  Through-hole D17



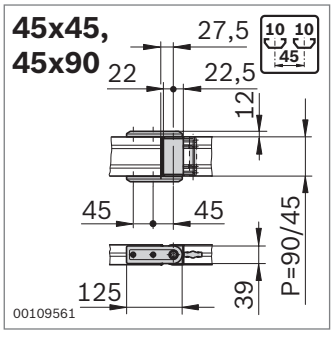
Profile	F, L M_{max} = F x L (Nm)
40x40	40
40x80	130

FS1
ISO4762
M6x16
10

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

Material: Standard: Diecast zinc
designLINE: painted (RAL 9006)
Cover cap: PP; signal gray
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. cover caps, bolt connectors, fastening material (FS)

* Supporting arm joint creates conductive connection, but the cover caps included in the set are not ESD-compatible.



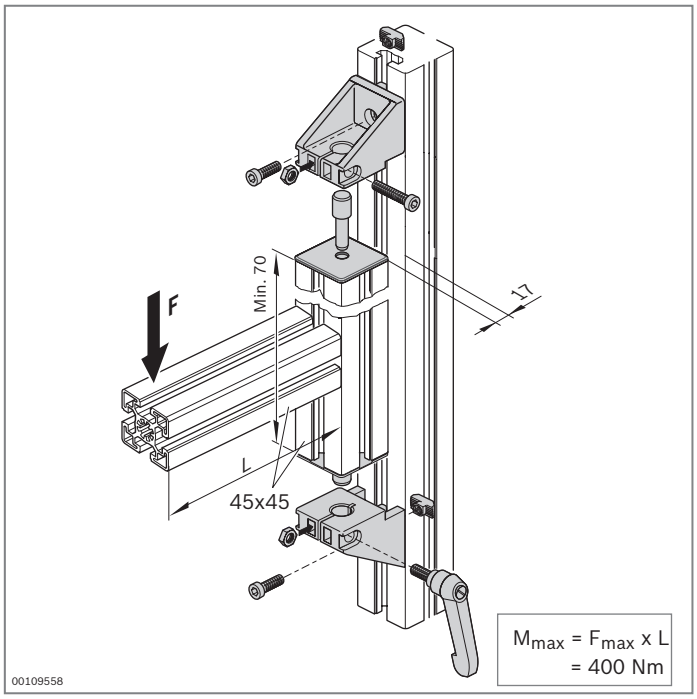
Profile	F, L M_{max} = F x L (Nm)
45x45	50
45x90	150

FS1
ISO4762
M6x16
10

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

Material: Standard: Diecast zinc
designLINE: painted (RAL 9006)
Cover cap: PP; signal gray
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. cover caps, bolt connectors, fastening material (FS)

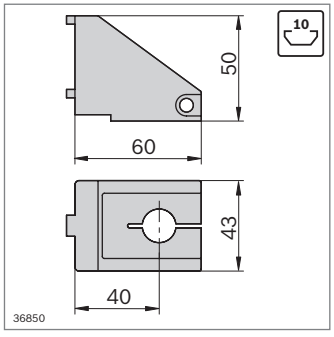
* Supporting arm joint creates conductive connection, but the cover caps included in the set are not ESD-compatible.

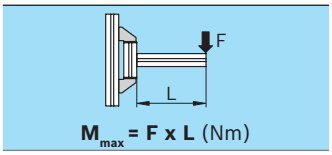


Bearing pedestal

10 *designLINE*

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

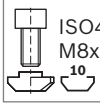




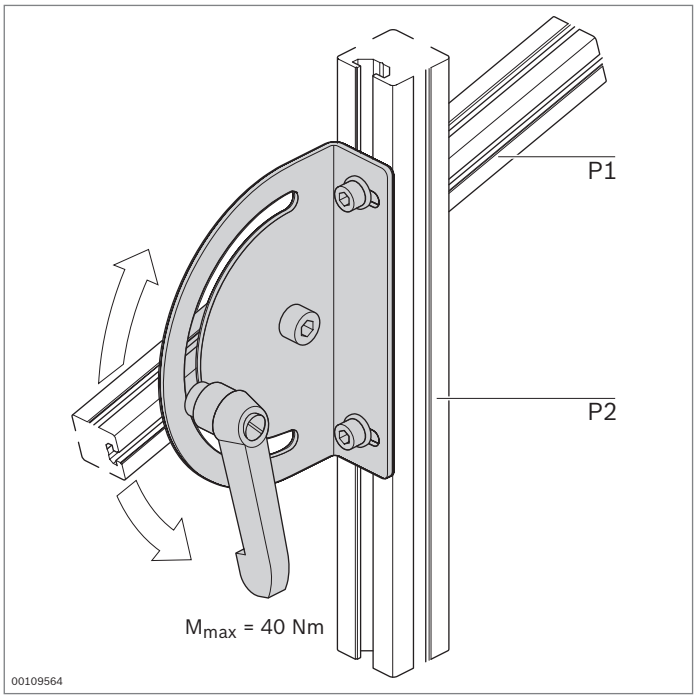
M_{max} = F x L (Nm)

400

FS1



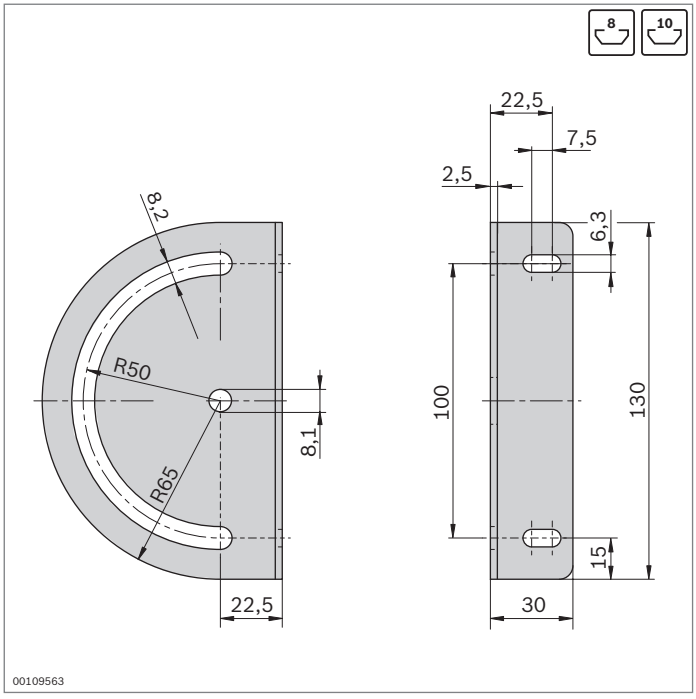
Bearing pedestal		Slot	No.	FS
Standard		10	**3 842 547 868**	2xFS1
designLINE		10	**3 842 547 869**	2xFS1
Material:	Standard: Diecast zinc *designLINE*: painted (RAL 9006) Fastening material: Steel; zinc-plated Clamping lever handle: Diecast zinc; black plastic coated Cover cap: PP; signal gray			
Scope of delivery:	Incl. fastening material (FS), 2 x cover cap, 2 x bolt, clamping lever (and additional standard parts for clamping the bearing pedestal)			



Swivel mounting 180°

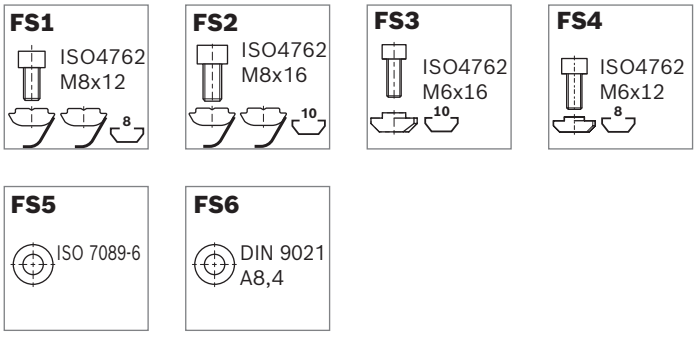


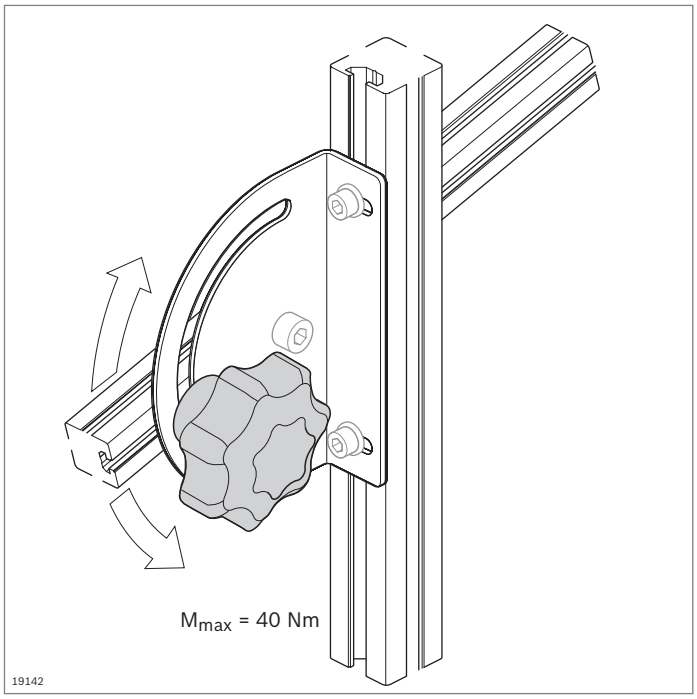
- Swivel mounting for shelves, etc. which need to be positioned at an angle of ± 90°



Swivel mounting 180°	P1 / P2	ESD	No.	FS
	8 / 8	ESD	**3 842 538 275**	FS1
	8 / 10			2xFS3
				2xFS4
				2xFS5
				1xFS6
	10 / 8	ESD	**3 842 538 276**	FS2
	10 / 10			2xFS3
				2xFS4
				2xFS5
				1xFS6

Material:	Swivel mounting: Steel; zinc-plated 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





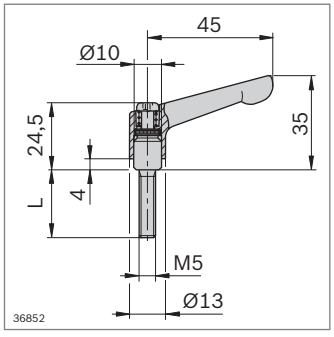
Clamping lever, star knob



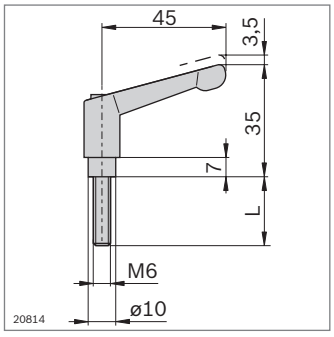
- Clamping elements for adjustable connections

Accessories:

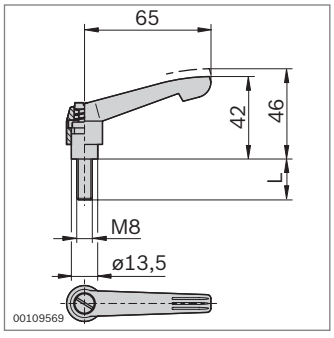
- Screws and sliding blocks; see fastening material (p. 4-14)



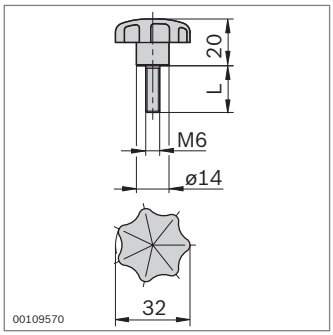
Clamping lever M5		L (mm)	No.
		10	**3 842 505 144**
Material:	Clamping lever: Diecast zinc; black plastic coated Screws: Steel; bronzed		



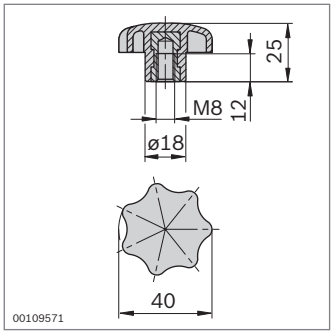
Clamping lever M6		L (mm)	No.
		25	**3 842 528 540**
		40	**3 842 528 539**
Material:	Clamping lever: Diecast zinc; black plastic coated Screws: Steel; galvanized and black chromated		



Clamping lever M8		L (mm)	No.
		12	**3 842 516 845**
		16	**3 842 522 124**
		20	**3 842 516 846**
		30	**3 842 564 090**
		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: zinc-plated, 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: zinc-plated, strength class 5.8	



Star knob M8		**No.**
		3 842 516 851
Material:	Star knob: PA; black Steel parts: zinc-plated, strength class 5.8	