

norelem moves

Systems and components for machine and plant construction

29000

Tube connectors
Tube clamps
Tube joints
Tubes
Columns



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Tube clamps
cross, plastic

29000
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Tube clamps
cross, aluminium

29000
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Tube clamps
cross, aluminium

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Tube clamps
cross, stainless steel

29002
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Tube clamps
cross, plastic

29002
Page 994



Tube clamps
cross, aluminium

29004
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Tube clamps
cross, plastic

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Tube clamps
cross, aluminium

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Tube clamps
T-angle, plastic

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Tube clamps
T-angle, aluminium

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Tube clamps
T-angle, stainless steel

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Tube clamps
T-angle, plastic

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Tube clamps
T-angle, aluminium

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Tube clamps
right-angle, aluminium

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Tube clamps
base, plastic

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Tube clamps
base, aluminium

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Tube clamps
base, stainless steel

29012
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Tube clamps
base, plastic

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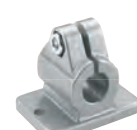
Tube clamps
base, aluminium

29014
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Tube clamps
flange, plastic

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Tube clamps
flange, aluminium

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Tube clamps
flange, aluminium

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Tube clamps
flange, stainless steel

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Tube clamps
flange, plastic

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Tube clamps
flange, aluminium

29022
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Tube clamps
straight, plastic

29024
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Tube clamps
swivel half, sunken teeth, plastic

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Tube clamps
swivel half, raised teeth, plastic

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Tube clamps
swivel half, sunken teeth, plastic

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Tube clamps
swivel base, sunken teeth, plastic

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Tube clamps
swivel, plastic

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Tube clamps
swivel, aluminium

+ New/Expanded Items

norelem moves

Systems and components for machine and plant construction

29000

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Tube clamps
swivel, plastic

29034

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Tube clamps
swivel, aluminium

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Tube clamps
swivel base, plastic

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Tube clamps
swivel base, aluminium

29040

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Reducer sleeves
square

29042

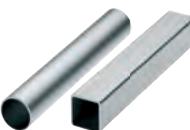
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Reducer sleeves
round

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Round and square tubes

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Tube end plugs

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Linear actuators

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Linear actuators, stainless steel

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Linear actuator connector clamps
cross

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Linear actuator connector clamps,
stainless steel cross

29125

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Linear actuator connector clamps
cross

29130

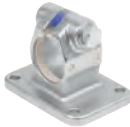
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Linear actuator connector clamps
flange

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Linear actuator connector clamps,
stainless steel
flange

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Linear actuator connector clamps
base

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Linear actuator connector clamps,
stainless steel
base

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Monitor brackets

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Column bases single

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Column bases double

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Column clamps double

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Adjustment units

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Column shaft collars

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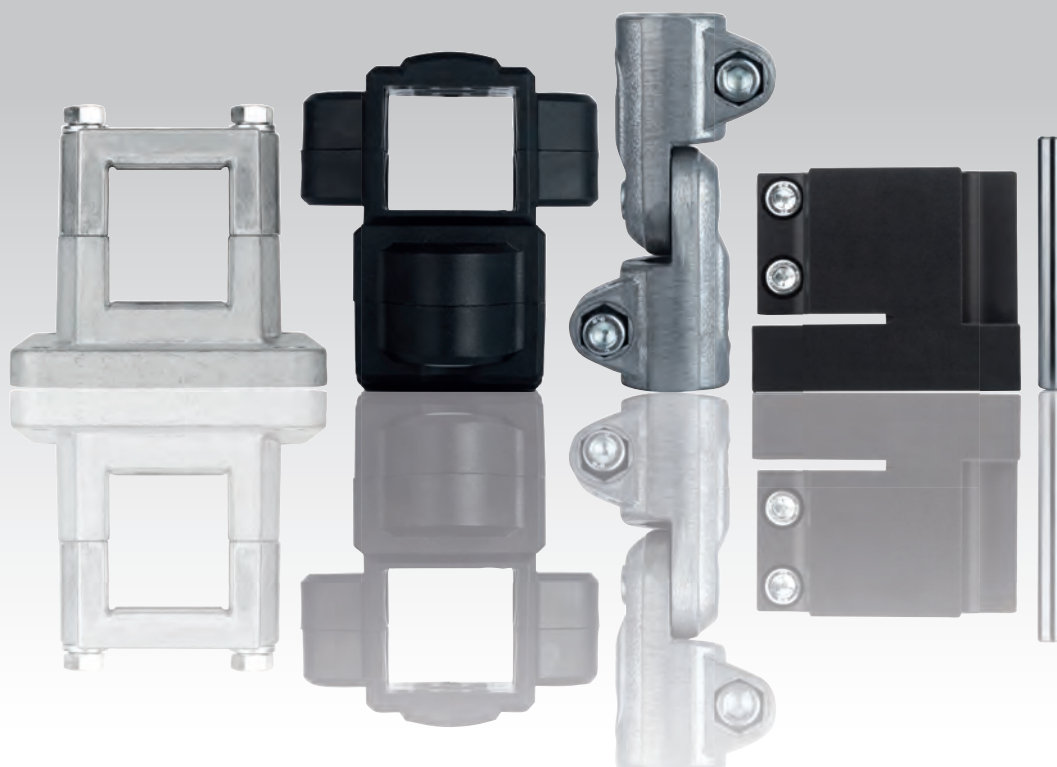
Rods stainless steel



New/Expanded Items

29000

Tube connectors
Tube clamps
Tube joints
Tubes
Columns



Technical information

Thermoplastic tube clamping system

The tube clamping system is characterised by the attractive design and a special reducing sleeve concept.

This unique concept and the associated clamping of different diameters and tube forms permit a flexibility never before achieved.

By simply exchanging a sleeve an existing tubular construction can be transformed into one with a different diameter or cross-section.

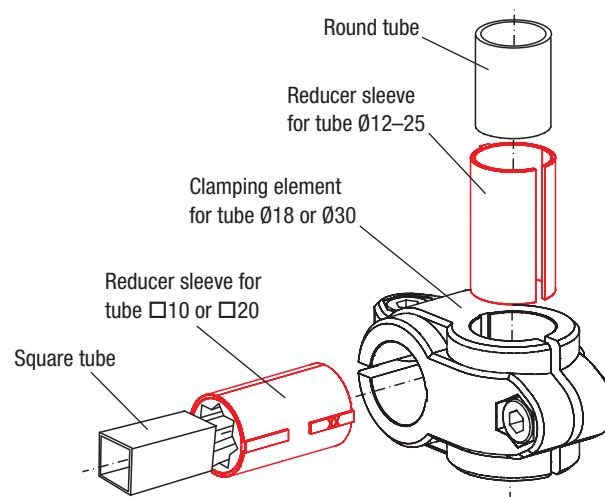
Benefits:

- Only one clamping element per construction type.
- Tube reduction (from Ø30–12 or 25x25–10x10) with different reducer sleeves for round or square tubes.
- Tube diameter marked on each reducer sleeve.
- Locking tab on the sleeves prevents rotation in the clamping element.

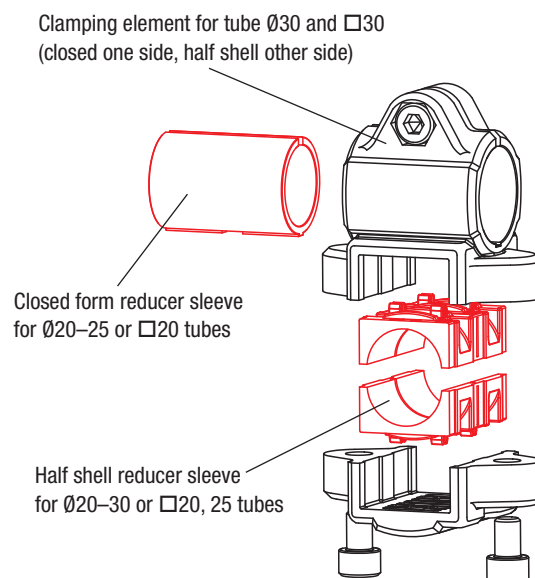
Note:

The clamping elements are supplied as standard with a DIN 7984 screw and a DIN 985 self-locking nut. Plastic clamp levers for locking available on request.

Closed system (one-piece, slitted)



Half shell elements (two-piece)



Application using tube clamps



Tube clamps

cross, plastic


Material:

Thermoplastic.

DIN 7984 screws and DIN 985 nuts steel.

Version:

Black.

Screws and nuts electro zinc-plated.

Sample order:

nIm 29000-1818

Note:

The standard size for round tubes is Ø18 mm or Ø30 mm.

Use reducer sleeves 29042 if smaller tubes are to be clamped or a conversion from round to square tubes is required.

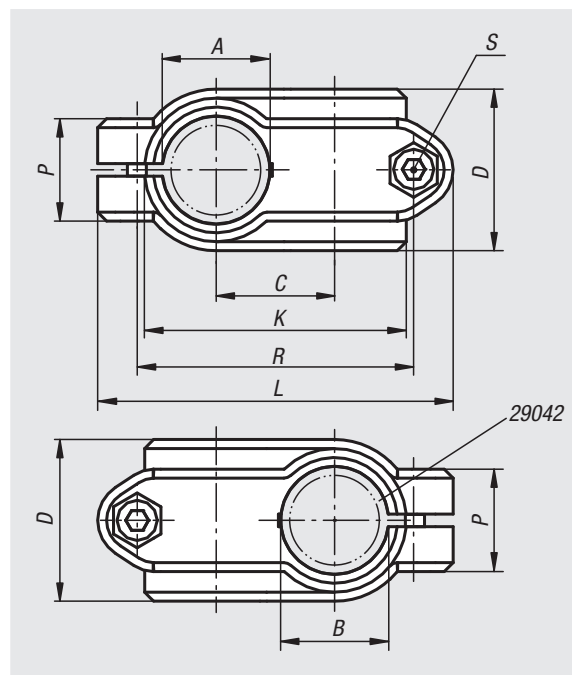
On request:

Plastic levers for locking.

Accessories:

- Reducer sleeves 29042

- Round and square tubes 29050



Order No.	A	B	C	D	K	L	P	R	S
29000-1818	18	18	20	30	48	63	21	48	M6x18
29000-3030	30	30	33	45	72	99	28,5	77	M8x25

Tube clamps

cross, aluminium


Material:

Cast aluminium.

Screws and nuts steel.

Version:

Vibratory ground.

Screws and nuts electro zinc-plated.

Sample order:

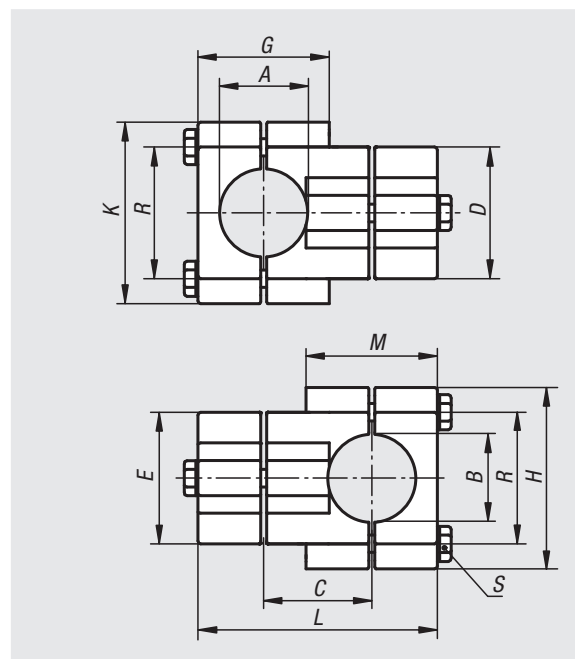
nIm 29000-523030

On request:

Levers for locking and other diameters.

Accessories:

- Round and square tubes 29050



Order No.	A	B	C	D	E	G	H	K	L	M	R	S
29000-523030	30,2	30,2	38	45	45	44	64	64	83	44	46	M8x45
29000-524040	40,2	40,2	50	60	60	61	75	75	111	61	57	M8x60

Tube clamps

cross, aluminium



Material:

Cast aluminium.
DIN 7984 screws and DIN 985 nuts, steel.

Version:

Vibratory ground.
Screws and nuts electro zinc-plated.

Sample order:

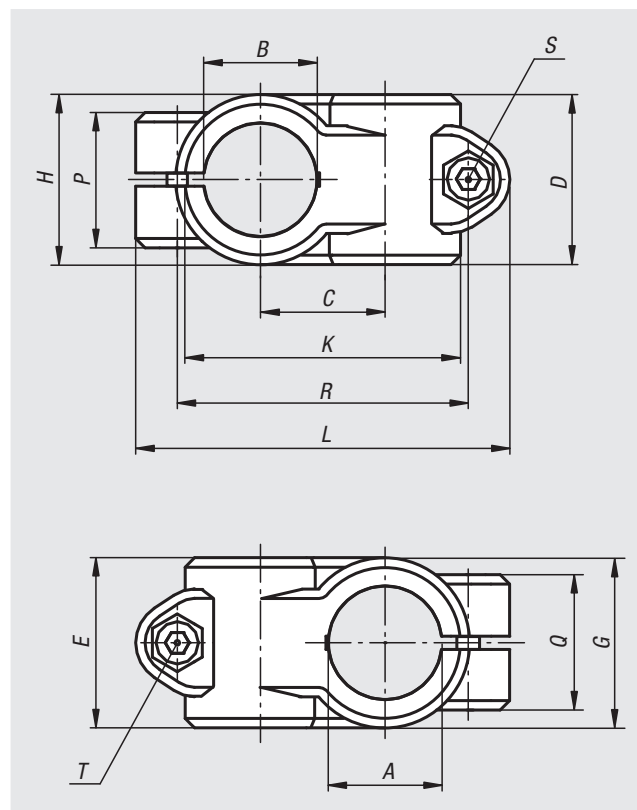
nlm 29000-51818

On request:

Clamping levers for tightening.

Accessories:

- Round and square tubes 29050



Order No.	A	B	C	D	E	G	H	K	L	P	Q	R	S	T
29000-51212	12,1	12,1	20	25,5	25,5	-	-	43,5	67	23	23	49	M6x20	M6x20
29000-51414	14,1	14,1	20	25,5	25,5	-	-	43,5	67	23	23	49	M6x20	M6x20
29000-51515	15,1	15,1	20	25,5	25,5	-	-	43,5	67	23	23	49	M6x20	M6x20
29000-51616	16,1	16,1	20	25,5	25,5	-	-	43,5	67	23	23	49	M6x20	M6x20
29000-51818	18,1	18,1	20	25,5	25,5	-	-	43,5	67	23	23	49	M6x20	M6x20
29000-52014	20,1	14,1	27	40	33	40	26	59	84	21	33	65	M8x25	M6x20
29000-52020	20,1	20,1	33	40	40	-	-	73	101	33	33	78	M8x25	M8x25
29000-52514	25,1	14,1	27	40	33	40	26	59	84	21	33	65	M8x25	M6x20
29000-52525	25,1	25,1	33	40	40	-	-	73	101	33	33	78	M8x25	M8x25
29000-53014	30,1	14,1	27	40	33	40	26	59	84	21	33	65	M8x25	M6x20
29000-53030	30,1	30,1	33	40	40	-	-	73	101	33	33	78	M8x25	M8x25
29000-54020	40,17	20,1	36	50	40	52	32	60	110	33	40	86,5	M10x30	M8x25
29000-54030	40,17	30,1	45	65	65	65	45	98	137,5	44	44	108,5	M10x30	M10x30
29000-54040	40,17	40,17	45	60	60	-	-	100	137	40	40	111	M10x30	M10x30
29000-55030	50,22	30,1	45	65	65	65	45	98	137,5	44	44	108,5	M10x35	M10x35
29000-55050	50,2	50,2	53	70	70	-	-	118	154	45	45	128	M10x35	M10x35

Tube clamps

cross, stainless steel



Material:

Investment cast 1.4308 stainless steel.

ISO 4762 cap screw and ISO 4032 hex nut, stainless steel.

From ø30 mm ISO 4017 hex head bolt, stainless steel.

Version:

Electropolished.

Sample order:

nlm 29000-11212

Note:

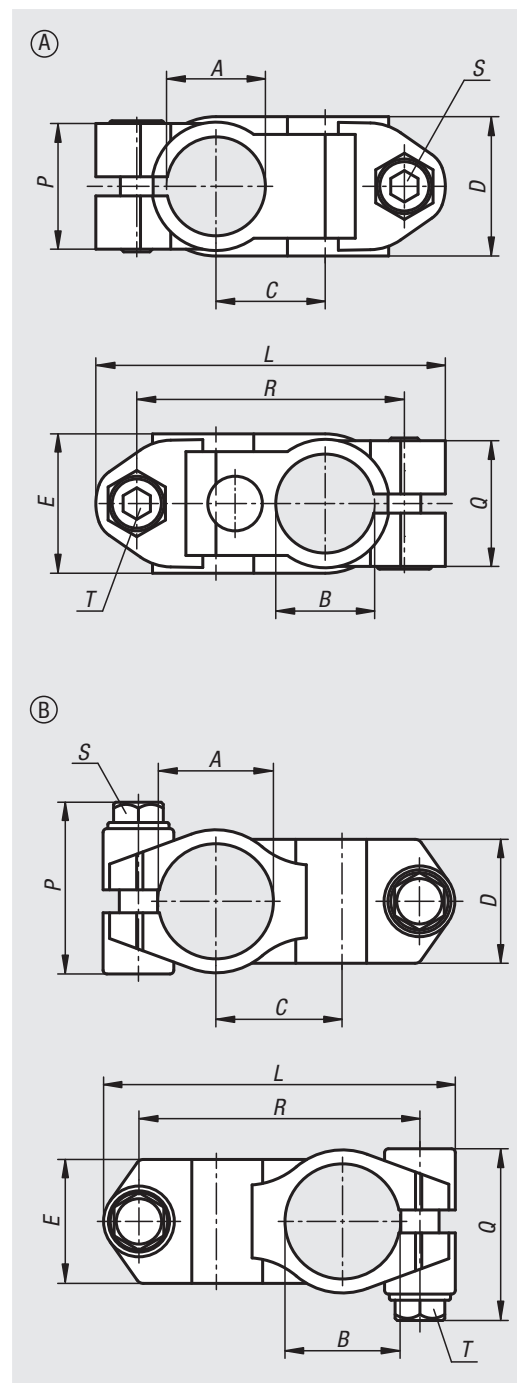
The tube clamps with diameters 30 and 40 mm have a silicone sleeve that protects the thread of the hex head screw from contamination and damage.

On request:

Clamping levers for tightening.

Accessories:

- Round and square tubes 29050



Order No.	Form	A	B	C	D	E	L	P	Q	R	S	T
29000-11212	A	12,1	12,1	20	25,5	25,5	64	23	23	49	M6x18	M6x18
29000-11414	A	14,1	14,1	20	25,5	25,5	64	23	23	49	M6x18	M6x18
29000-11616	A	16,1	16,1	20	25,5	25,5	64	23	23	49	M6x18	M6x18
29000-11818	A	18,1	18,1	20	25,5	25,5	64	23	23	49	M6x18	M6x18
29000-12020	A	20,1	20,1	21	25,5	25,5	64	23	23	49	M6x18	M6x18
29000-13030	B	30,1	30,1	33	32,4	32,4	92	45,5	45,5	73,5	M8x30	M8x30
29000-14040	B	40,17	40,17	42	40,4	40,4	118	52	52	95,5	M10x35	M10x35

Tube clamps

cross, plastic


Material:

Thermoplastic.

DIN 7984 screws and DIN 985 nuts steel.

Version:

Black.

Screws and nuts electro zinc-plated.

Sample order:

nIm 29002-3030

Note:

These cross clamps are for 30 mm square tubes.

Use reducer sleeves 29040 if smaller tubes are to be clamped or a conversion from square to round tubes is required.

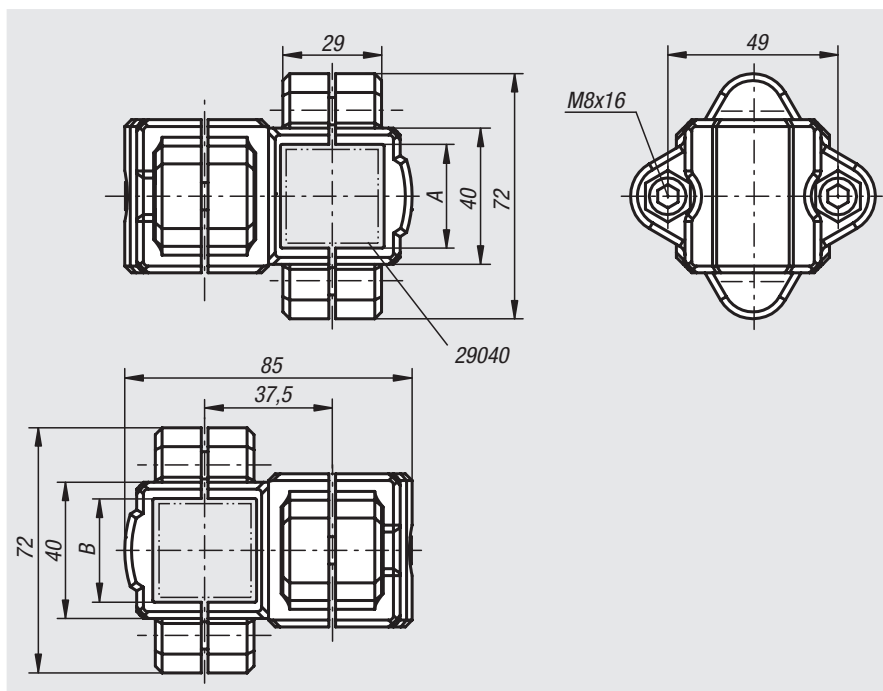
On request:

Plastic levers for locking.

Accessories:

- Reducer sleeves 29040

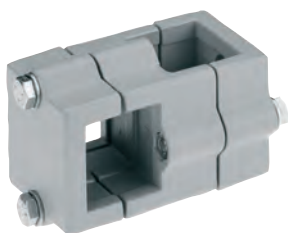
- Round and square tubes 29050



Order No.	A	B
29002-3030	30	30

Tube clamps

cross, aluminium


Material:

Cast aluminium.

Screws and nuts steel.

Version:

Vibratory ground.

Screws and nuts electro zinc-plated.

Sample order:

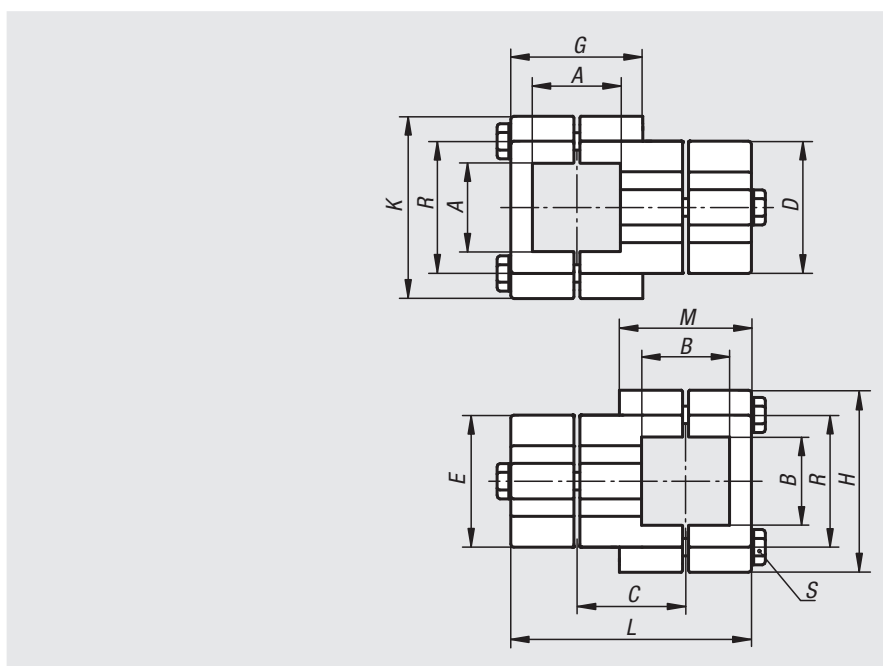
nIm 29002-523030

On request:

Levers for locking and other sizes for square tube.

Accessories:

- Round and square tubes 29050



Order No.	A	B	C	D	E	G	H	K	L	M	R	S
29002-523030	30,2	30,2	38	45	45	44	64	64	83	44	46	M8x45
29002-524040	40,3	40,3	50	60	60	61	75	75	111	61	57	M8x60

Tube clamps

cross, plastic


Material:

Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:

Black.
Screws and nuts electro zinc-plated.

Sample order:

nIm 29004-3030

Note:

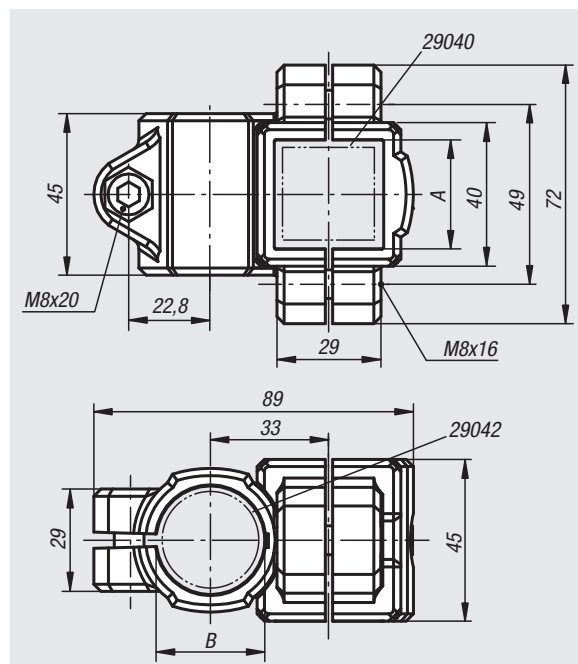
These cross clamps are for 30 mm square and round tubes.
Use reducer sleeves 29040 or 29042 if smaller tubes are to be clamped or a conversion from round to square tubes is required.

On request:

Plastic levers for locking.

Accessories:

- Reducer sleeves 29040 and 29042
- Round and square tubes 29050



Order No.	A	B
29004-3030	30	30

Tube clamps

cross, aluminium


Material:

Cast aluminium.
Screws and nuts steel.

Version:

Vibratory ground.
Screws and nuts electro zinc-plated.

Sample order:

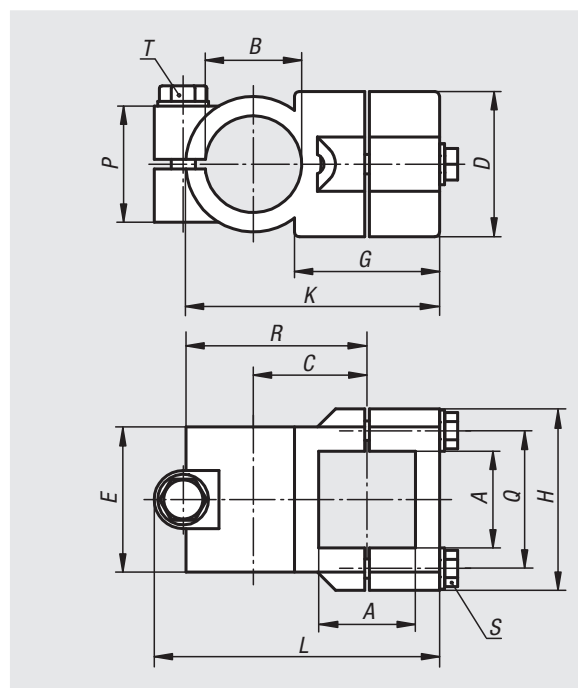
nIm 29004-53030

On request:

Clamping levers for fastening and other diameters.

Accessories:

- Round and square tubes 29050



Order No.	A	B	C	D	E	G	H	K	L	P	Q	R	S	T
29004-53030	30,2	30,1	33	45	45	40	62	76	86	33	46	55	M8x35	M8x35
29004-54040	40,3	40,2	47	60	60	60	75	105	117	48	57	75	M8x45	M10x50

Tube clamps

T-angle, plastic


Material:

Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:

Black.
Screws and nuts electro zinc-plated.

Sample order:

nln 29006-1818

Note:

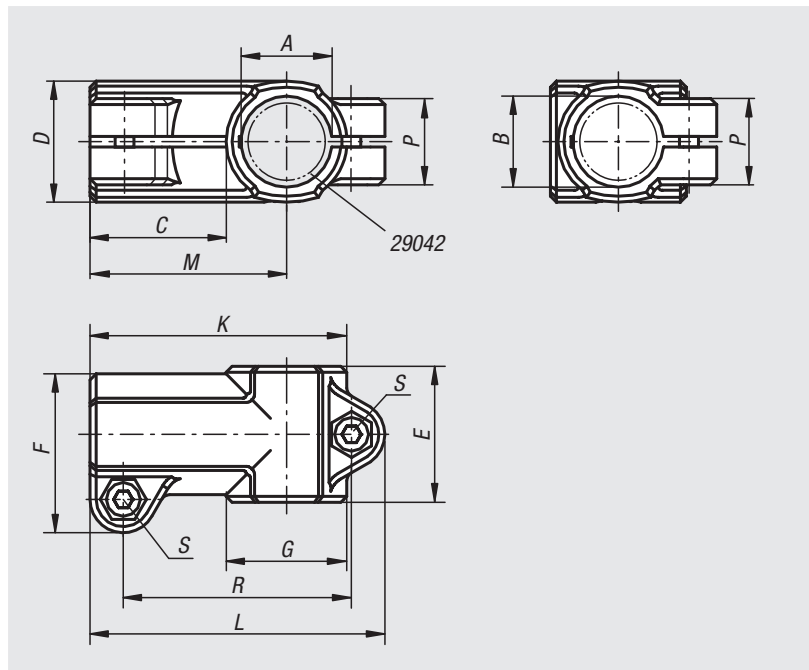
The standard size for round tubes is Ø18 mm or Ø30 mm. Use reducer sleeves 29042 if smaller tubes are to be clamped or a conversion from round to square tubes is required.

On request:

Plastic levers for locking.

Accessories:

- Reducer sleeves 29042
- Round and square tubes 29050



Order No.	A	B	C	D	E	F	G	K	L	M	P	R	S
29006-1818	18	18	30,5	25	30	34	25	55,5	64,5	43	21	49,5	M6x18
29006-3030	30	30	45	40	45	52,5	40	85	97,5	65	28,5	75,5	M8x25

Tube clamps

T-angle, aluminium



Material:

Cast aluminium.
DIN 7984 screws and DIN 985 nuts, steel.

Version:

Vibratory ground.
Screws and nuts electro zinc-plated.

Sample order:

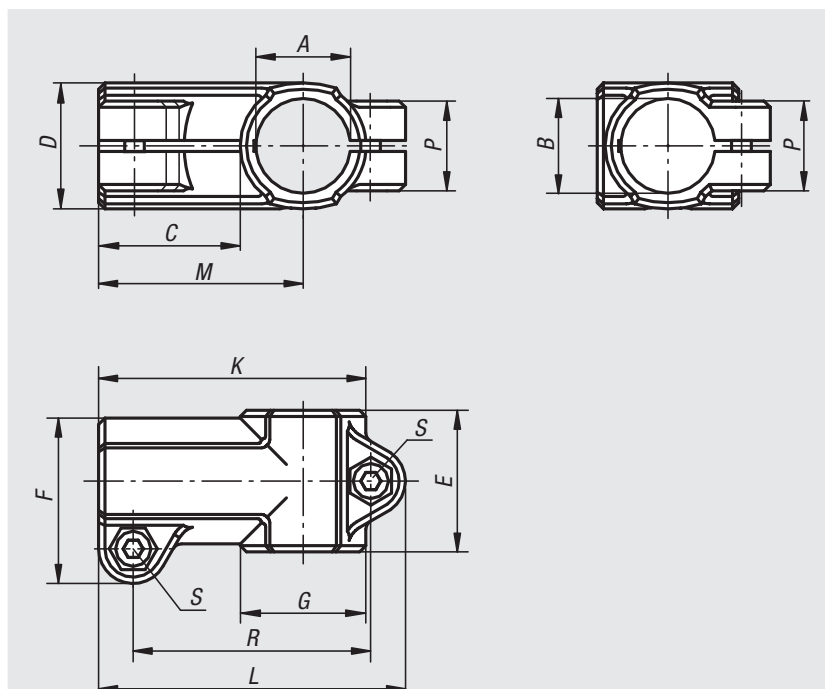
nIm 29006-51818

On request:

Levers for locking and other diameters.

Accessories:

- Round and square tubes 29050



Order No.	A	B	C	D	E	F	G	K	L	M	P	R	S
29006-51212	12,1	12,1	28	25	32	35,5	25	56	66	43	23	49	M6x20
29006-51414	14,1	14,1	28	25	32	35,5	25	56	66	43	23	49	M6x20
29006-51515	15,1	15,1	28	25	32	35,5	25	56	66	43	23	49	M6x20
29006-51616	16,1	16,1	28	25	32	35,5	25	56	66	43	23	49	M6x20
29006-51818	18,1	18,1	28	25	32	35,5	25	56	66	43	23	49	M6x20
29006-52020	20,1	20,1	38	40	45	53	40	80	93	60	33	72,5	M8x25
29006-52525	25,1	25,1	38	40	45	53	40	80	93	60	33	72,5	M8x25
29006-53030	30,1	30,1	38	40	45	53	40	80	93	60	33	72,5	M8x25
29006-54040	40,15	40,15	55	56	60	74	56	116	134	88	40	108	M10x30
29006-55050	50,22	50,22	63	66	66	84	66	131	149	98	45	123	M10x35

Tube clamps

T-angle, stainless steel


Material:

Investment cast 1.4308 stainless steel.
ISO 4762 cap screw and ISO 4032 hex nut, stainless steel.
From ø30 mm ISO 4017 hex head bolt, stainless steel.

Version:

Electropolished.

Sample order:

nlm 29006-11212

Note:

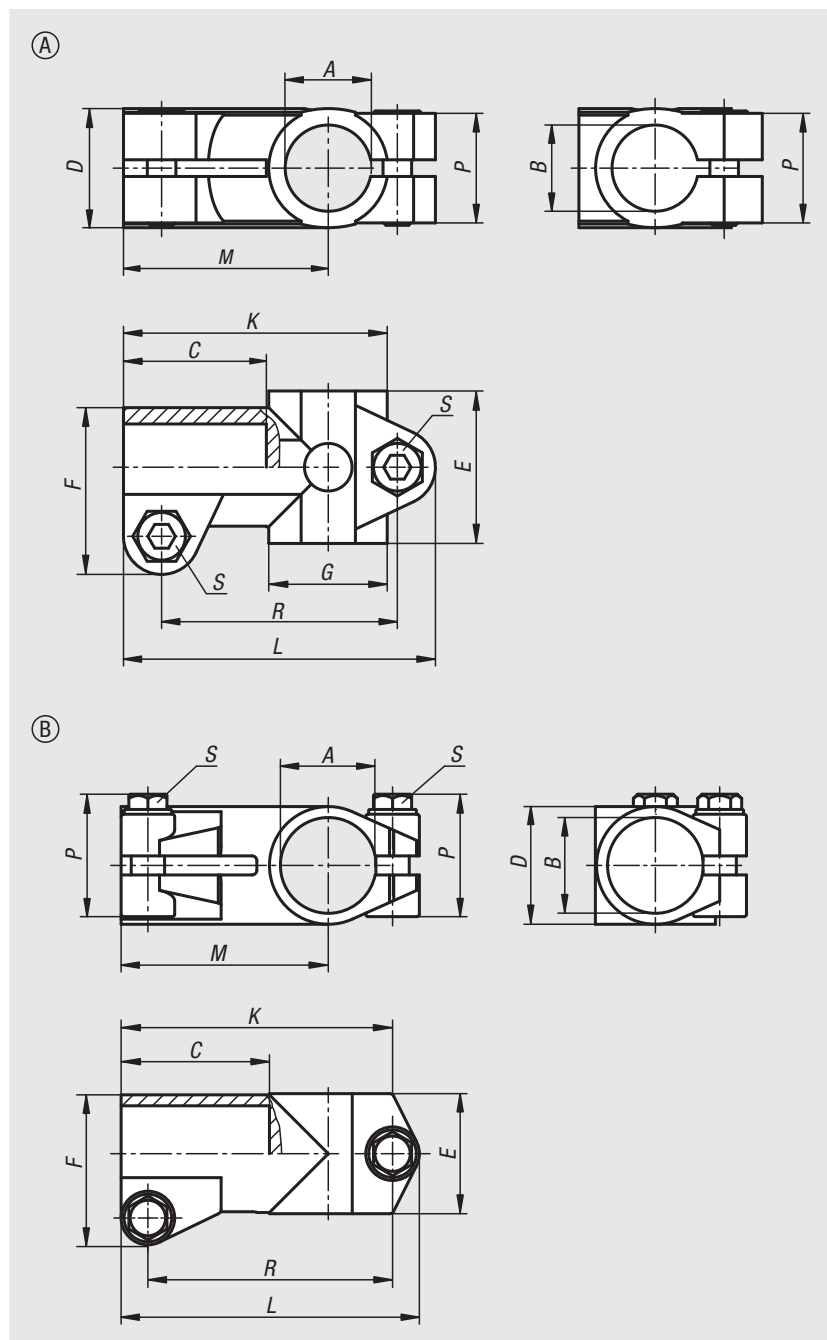
The tube clamps with diameters 30 and 40 mm have a silicone sleeve that protects the thread of the hex head screw from contamination and damage.

On request:

Clamping levers for tightening.

Accessories:

- Round and square tubes 29050



Order No.	Form	A	B	C	D	E	F	G	K	L	M	P	R	S
29006-11212	A	12,1	12,1	30,5	25	32	35	25	55,5	65,5	43	23	49,5	M6x18
29006-11414	A	14,1	14,1	30,5	25	32	35	25	55,5	65,5	43	23	49,5	M6x18
29006-11616	A	16,1	16,1	30,5	25	32	35	25	55,5	65,5	43	23	49,5	M6x18
29006-11818	A	18,1	18,1	30,5	25	32	35	25	55,5	65,5	43	23	49,5	M6x18
29006-12020	A	20,1	20,1	30,5	25	32	35	25	55,5	65,5	43	23	49,5	M6x18
29006-13030	B	30,1	30,1	40	38,4	38	48	-	78	87	58	45,5	69	M8x30
29006-14040	B	40,17	40,17	60	50,4	50	63	-	112	124,9	87	52	102,5	M10x35

Tube clamps

T-angle, plastic


Material:

Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:

Black.
Screws and nuts electro zinc-plated.

Sample order:

nIm 29008-3030

Note:

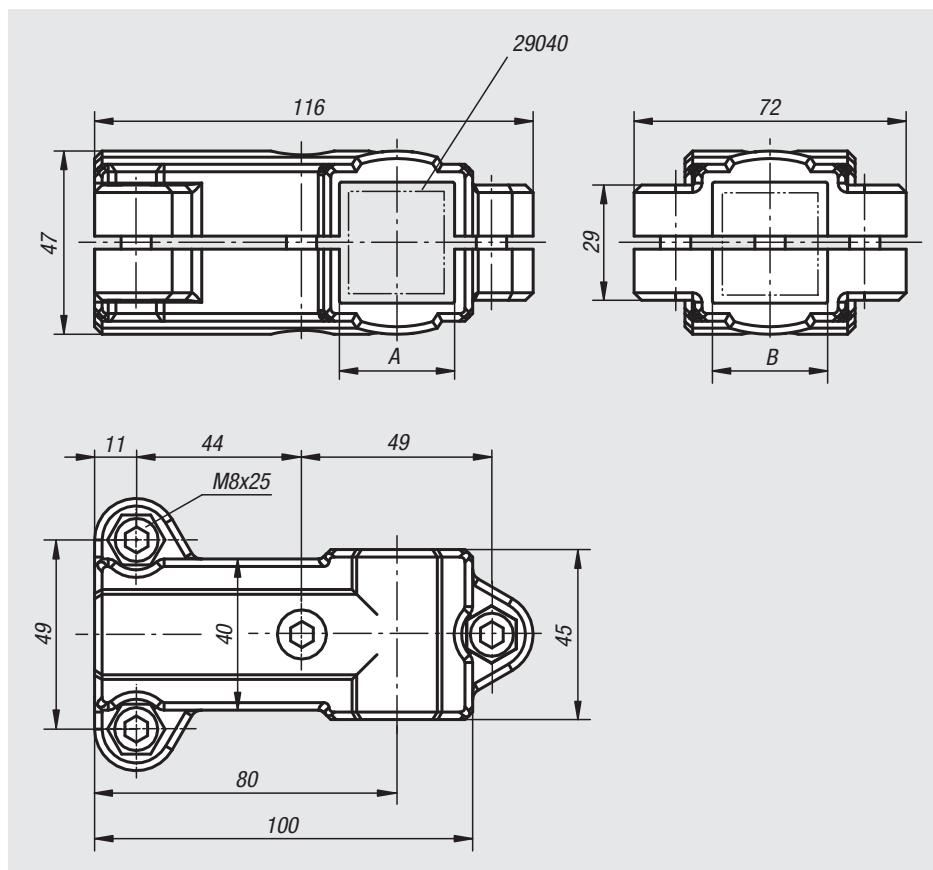
These T-clamps are for 30 mm square tubes. Use reducer sleeves 29040 if smaller tubes are to be clamped or a conversion from square to round tubes is required.

On request:

Plastic levers for locking.

Accessories:

- Reducer sleeves 29040
- Round and square tubes 29050



Order No.

A

B

29008-3030

30

30

Tube clamps

T-angle, aluminium


Material:

Cast aluminium.
Screws and nuts steel.

Version:

Vibratory ground.
Screws and nuts electro zinc-plated.

Sample order:

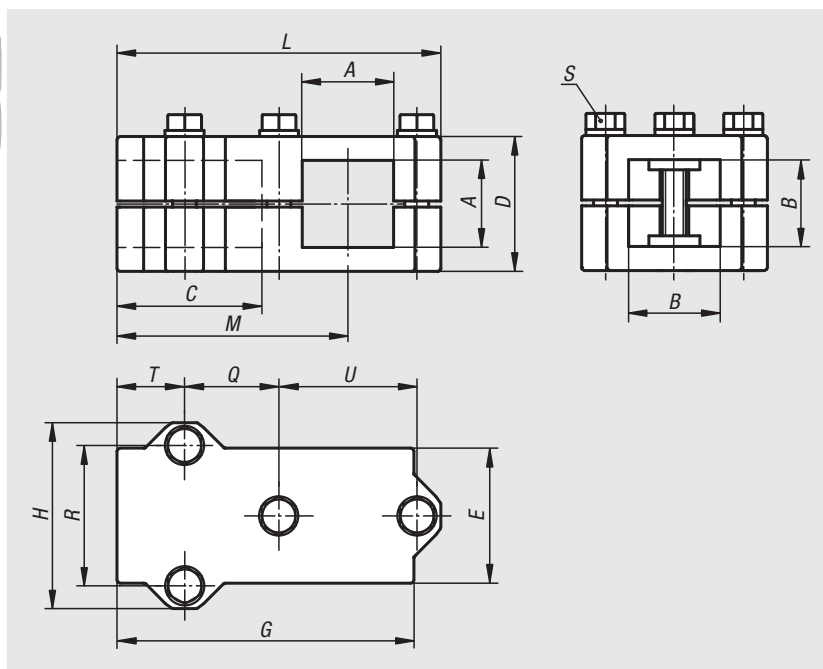
nlm 29008-523030

On request:

Levers for locking and other sizes for square tube.

Accessories:

- Round and square tubes 29050



Order No.	A	B	C	D	E	G	H	L	M	Q	R	S	T	U
29008-523030	30,3	30,3	46	45	45	100	62	108	77	31,5	46	M8x45	23	46
29008-524040	40,4	40,4	60	60	60	129	75	136	99	40	57	M8x60	30	57

Tube clamps

right-angle, aluminium


Material:

Cast aluminium.
Screws and nuts steel.

Version:

Vibratory ground.
Screws and nuts electro zinc-plated.

Sample order:

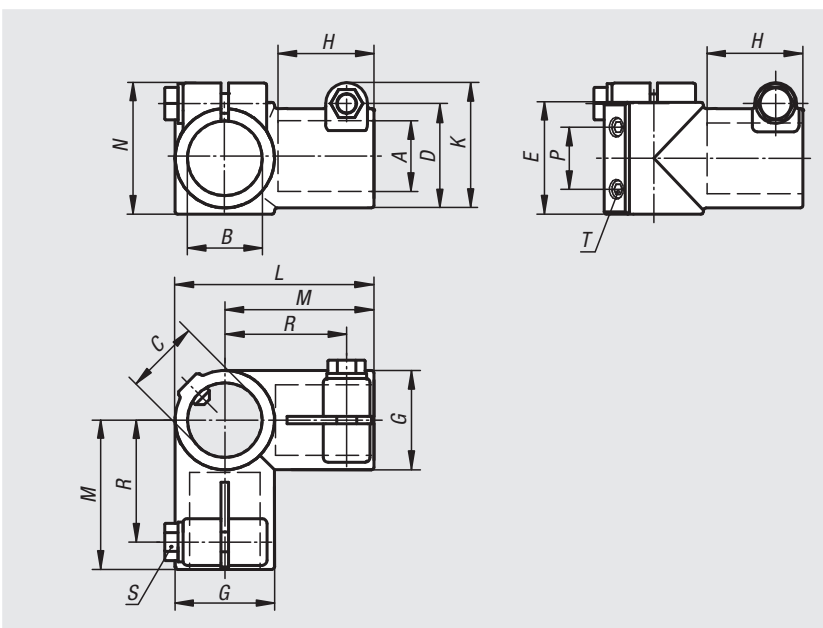
nlm 29008-530

On request:

Levers for locking and other diameters.

Accessories:

- Round and square tubes 29050



Order No.	A	B	C	D	E	G	H	K	L	M	N	P	R	S	T
29008-530	30,1	30,1	30,1	40	45	40	38	51	80	60	53	25	49	M8x25	M8x15
29008-540	40,15	40,15	40,15	56	60	56	58	71	116	88	73	35	70	M10x30	M8x10
29008-550	50,22	50,22	50,22	66	70	66	70	78	136	108	80	40	90	M10x35	M10x15

Tube clamps

base, plastic



Material:
Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

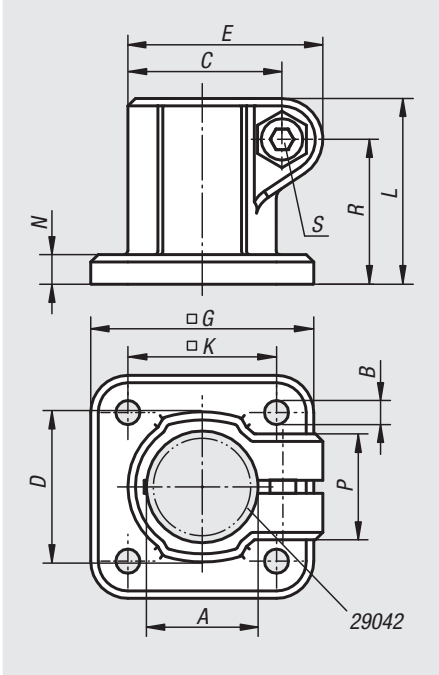
Version:
Black.
Screws and nuts electro zinc-plated.

Sample order:
nlm 29010-18

Note:
The standard size for round tubes is Ø18 mm or Ø30 mm. Use reducer sleeves 29042 if smaller tubes are to be clamped or a conversion from round to square tubes is required.

On request:
Plastic levers for locking.

Accessories:
- Reducer sleeves 29042
- Round and square tubes 29050



Order No.	A	B	C	D	E	G	K	L	N	P	R	S
29010-18	18	5,3	26,5	26	34	45	30	32	5	21	24,5	M6x18
29010-30	30	6,5	41,5	42	52,5	60	40	50	8	28,5	39	M8x25

Tube clamps

base, aluminium


Material:

Cast aluminium.

DIN 7984 screws and DIN 985 nuts, steel.

Version:

Vibratory ground.

Screws and nuts electro zinc-plated.

Sample order:

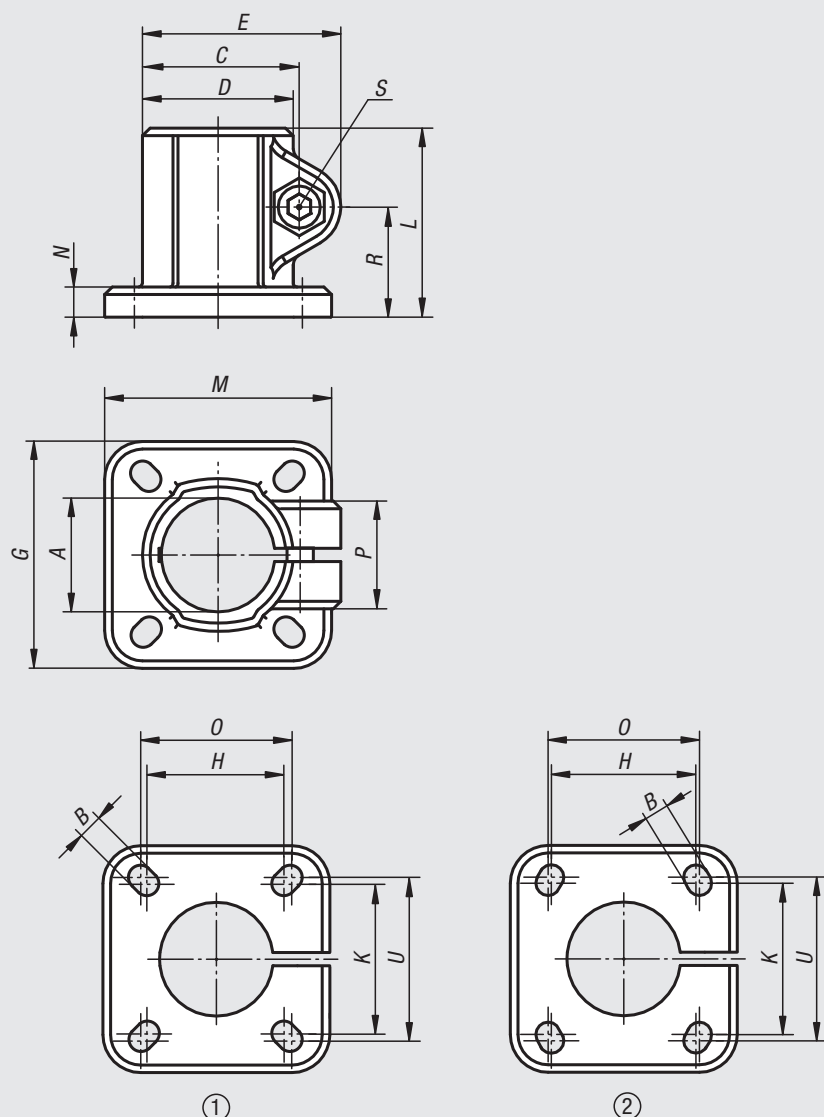
nlm 29010-518

On request:

Levers for locking and other diameters.

Accessories:

- Round and square tubes 29050



Order No.	hole arrangement	A	B	C	D	E	G	H	K	L	M	N	O	P	R	S	U
29010-512	1	12,1	6	27	25	35,5	42	28	28	37	42	5	30	23	21	M6x20	30
29010-514	1	14,1	6	27	25	35,5	42	28	28	37	42	5	30	23	21	M6x20	30
29010-515	1	15,1	6	27	25	35,5	42	28	28	37	42	5	30	23	21	M6x20	30
29010-516	1	16,1	6	27	25	35,5	42	28	28	37	42	5	30	23	21	M6x20	30
29010-518	1	18,1	6	27	25	35,5	42	28	28	37	42	5	30	23	21	M6x20	30
29010-520	2	20,1	7	42,5	40	53	60	40	42	50	60	8	42	33	29	M8x25	45
29010-525	2	25,1	7	42,5	40	53	60	40	42	50	60	8	42	33	29	M8x25	45
29010-530	2	30,1	7	42,5	40	53	60	40	42	50	60	8	42	33	29	M8x25	45
29010-540	1	40,17	9	61	56	74	90	60	60	70	90	10	64	40	40	M10x30	64
29010-550	1	50,22	11	70	66	84	105	74	74	85	105	14	80	45	49,5	M10x35	80

Tube clamps

base, stainless steel



Material:

Investment cast 1.4308 stainless steel.

ISO 4762 cap screw and ISO 4032 hex nut, stainless steel.

From ø30 mm ISO 4017 hex head bolt, stainless steel.

Version:

Electropolished.

Sample order:

nlm 29010-112

Note:

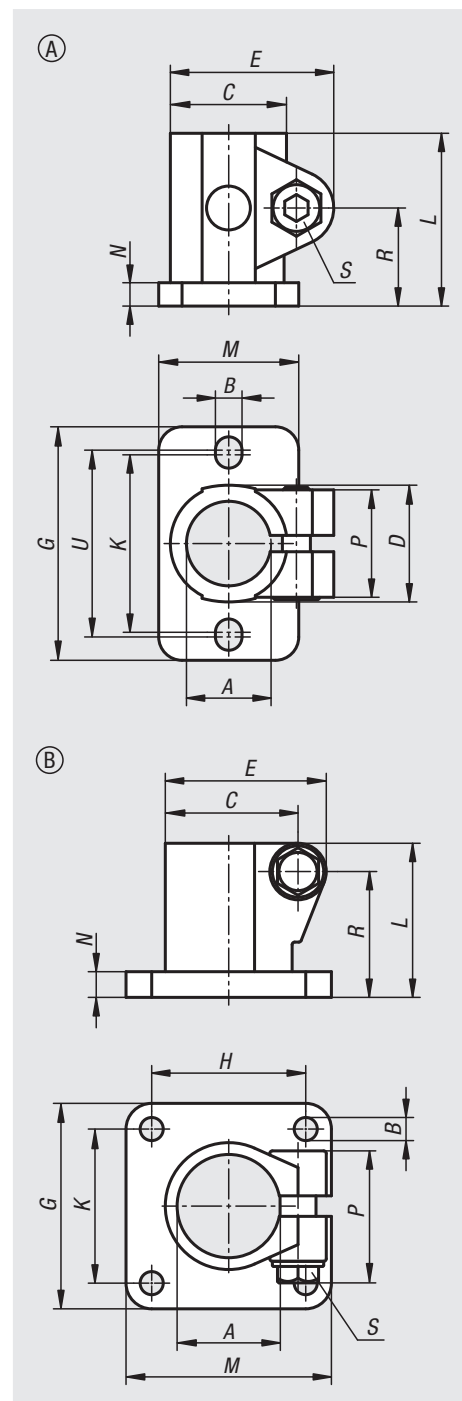
The tube clamps with diameters 30 and 40 mm have a silicone sleeve that protects the thread of the hex head screw from contamination and damage.

On request:

Clamping levers for tightening.

Accessories:

- Round and square tubes 29050



Order No.	Form	A	B	C	D	E	G	H	K	L	M	N	P	R	S	U
29010-112	A	12,1	5,7	27	25	35	50	-	38	37	30	5	23	21	M6x18	40
29010-114	A	14,1	5,7	27	25	35	50	-	38	37	30	5	23	21	M6x18	40
29010-116	A	16,1	5,7	27	25	35	50	-	38	37	30	5	23	21	M6x18	40
29010-118	A	18,1	5,7	27	25	35	50	-	38	37	30	5	23	21	M6x18	40
29010-120	A	20,1	5,7	27	25	35	50	-	38	37	30	5	23	21	M6x18	40
29010-130	B	30,1	7	39	37,4	48	60	40	40	50	60	7	45,5	41	M8x30	-
29010-140	B	40,17	9	51,7	49,4	63	80	60	60	60	80	10	52	48,7	M10x35	-

Tube clamps

base, plastic


Material:

Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:

Black.
Screws and nuts electro zinc-plated.

Sample order:

nln 29012-30

Note:

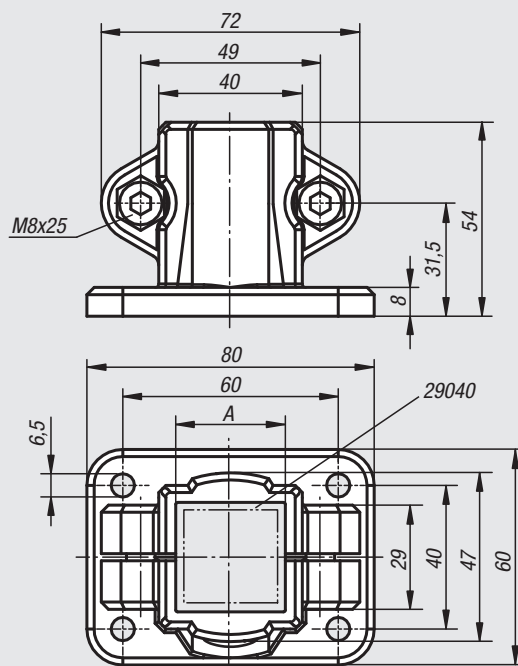
These base clamps are for 30 mm square tubes. Use reducer sleeves 29040 if smaller tubes are to be clamped or a conversion from square to round tubes is required.

On request:

Plastic levers for locking.

Accessories:

- Reducer sleeves 29040
- Round and square tubes 29050



Order No.

A

29012-30

30

Tube clamps

base, aluminium


Material:

Cast aluminium.
Screws and nuts steel.

Version:

Vibratory ground.
Screws and nuts electro zinc-plated.

Sample order:

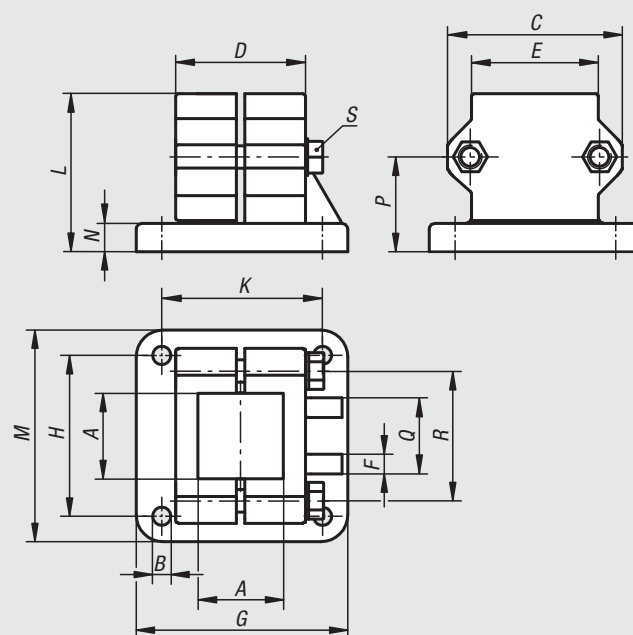
nln 29012-5230

On request:

Levers for locking and other sizes for square tube.

Accessories:

- Round and square tubes 29050



Order No.	A	B	C	D	E	F	G	H	K	L	M	N	P	Q	R	S
29012-5230	30,3	7	62	45	45	5	75	57	57	56	75	10	33,5	25	46	M8x45
29012-5240	40,4	9	75	60	60	5	100	76	76	73	100	12	43	32	57	M8x60

Tube clamps

flange, plastic



Material:

Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:

Black.
Screws and nuts electro zinc-plated.

Sample order:

nIm 29014-18

Note:

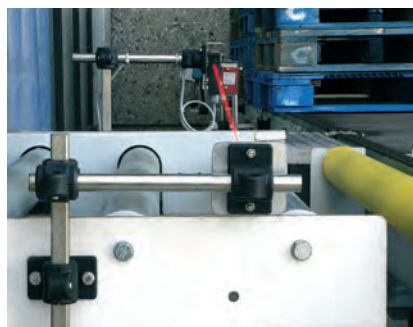
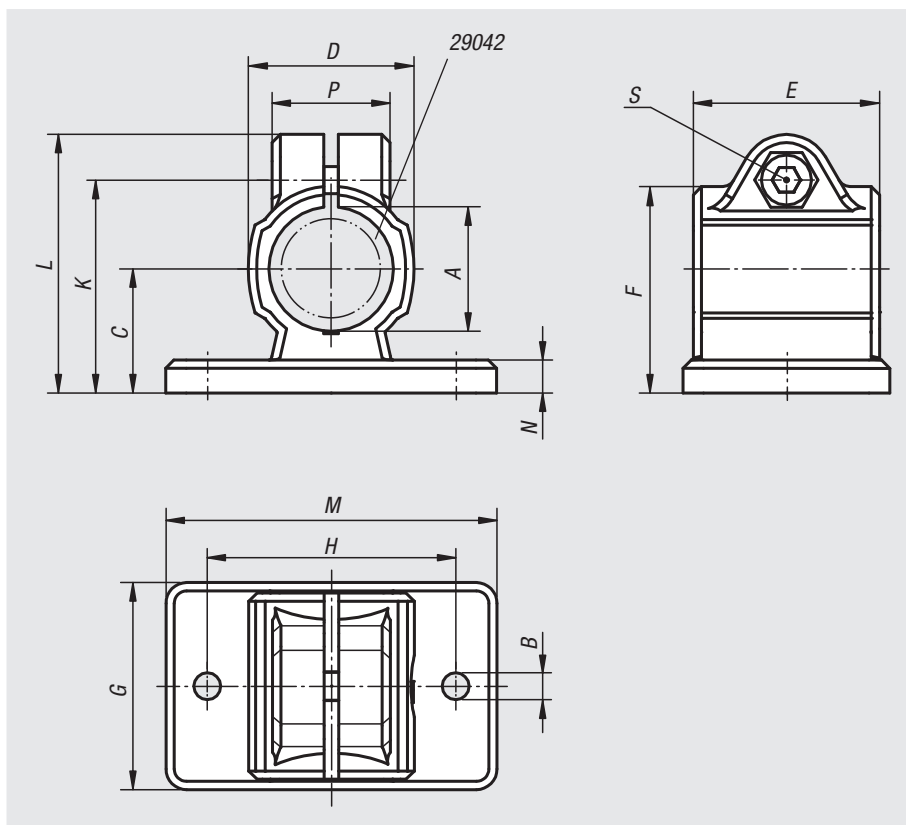
The standard size for round tubes is Ø18 mm or Ø30 mm. Use reducer sleeves 29042 if smaller tubes are to be clamped or a conversion from round to square tubes is required.

On request:

Plastic levers for locking.

Accessories:

- Reducer sleeves 29042
- Round and square tubes 29050



Order No.	A	B	C	D	E	F	G	H	K	L	M	N	P	S
29014-18	18	5,3	18	25	30	30,5	35	40	32	39,5	50	5	21	M6x18
29014-30	30	6,5	30	40	45	50	50	60	51,5	62,5	80	8	28,5	M8x25

Tube clamps

flange, aluminium


Material:

Cast aluminium.

DIN 7984 screws and DIN 985 nuts, steel.

Version:

Vibratory ground.

Screws and nuts electro zinc-plated.

Sample order:

nIm 29014-518

Note:

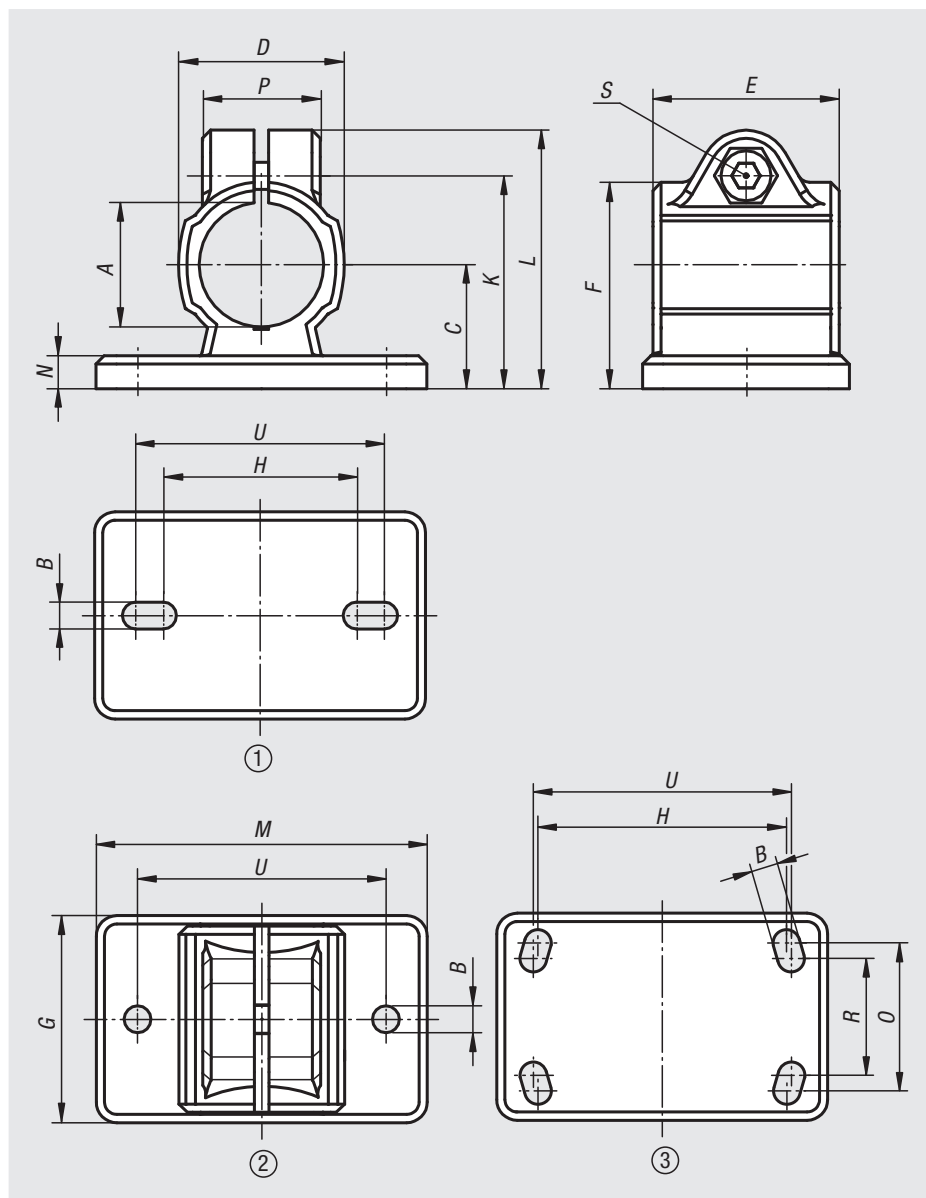
* Elongated hole

On request:

Levers for locking and other diameters.

Accessories:

- Round and square tubes 29050



Order No.	hole arrangement	A	B	C	D	E	F	G	H	K	L	M	N	O	P	R	S	U
29014-512	1	12,1	5,5* (2x)	18	25	35	31	35	38	32,5	41	50	5	-	23	-	M6x20	40
29014-514	2	14,1	5,5 (2x)	18	25	35	31	35	-	32,5	41	50	5	-	23	-	M6x20	40
29014-515	2	15,1	5,5 (2x)	18	25	35	31	35	-	32,5	41	50	5	-	23	-	M6x20	40
29014-516	1	16,1	5,5* (2x)	18	25	35	31	35	38	32,5	41	50	5	-	23	-	M6x20	40
29014-518	2	18,1	5,5 (2x)	18	25	35	31	35	-	32,5	41	50	5	-	23	-	M6x20	40
29014-520	1	20,1	6,5* (2x)	30	40	40	50	55	53	53	63	78	7	-	33	-	M8x25	60
29014-525	1	25,1	6,5* (2x)	30	40	40	50	55	53	53	63	78	7	-	33	-	M8x25	60
29014-530	1	30,1	6,5* (2x)	30	40	40	50	55	53	53	63	78	7	-	33	-	M8x25	60
29014-540	3	40,17	8,5* (4x)	42	56	60	70	80	80	74	87	105	10	60	40	52	M10x30	82
29014-550	3	50,22	10,5* (4x)	50	66	65	83	90	98	85	98	128	14	62	45	60	M10x35	100

Tube clamps

flange, aluminium


Material:

Cast aluminium.
Screws and nuts steel.

Version:

Vibratory ground.
Screws and nuts electro zinc-plated.

Sample order:

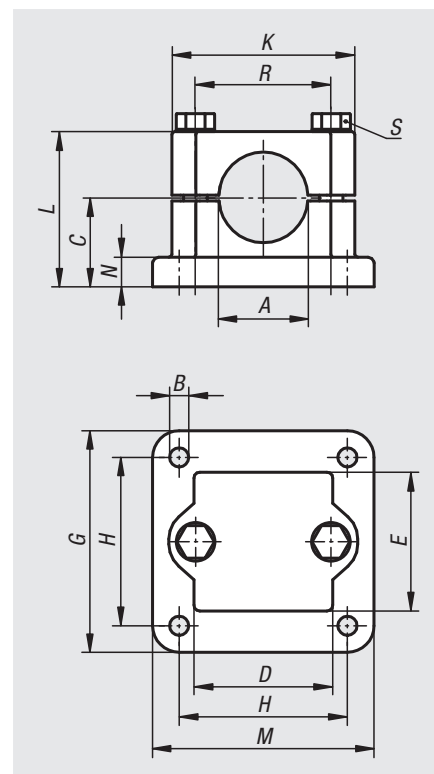
nIm 29014-5230

On request:

Levers for locking and other diameters.

Accessories:

- Round and square tubes 29050



Order No.	A	B	C	D	E	G	H	K	L	M	N	R	S
29014-5220	20,2	7	30	45	45	75	57	62	52,5	75	10	46	M8x50
29014-5225	25,2	7	30	45	45	75	57	62	52,5	75	10	46	M8x50
29014-5230	30,2	7	30	45	45	75	57	62	52,5	75	10	46	M8x50
29014-5240	40,2	9	40	60	60	100	76	75	70	100	10	57	M8x70

Tube clamps

flange, stainless steel



Material:

Investment cast 1.4308 stainless steel.

ISO 4762 cap screw and ISO 4032 hex nut, stainless steel.

From ø30 mm ISO 4017 hex head bolt, stainless steel.

Version:

Electropolished.

Sample order:

nIm 29014-112

Note:

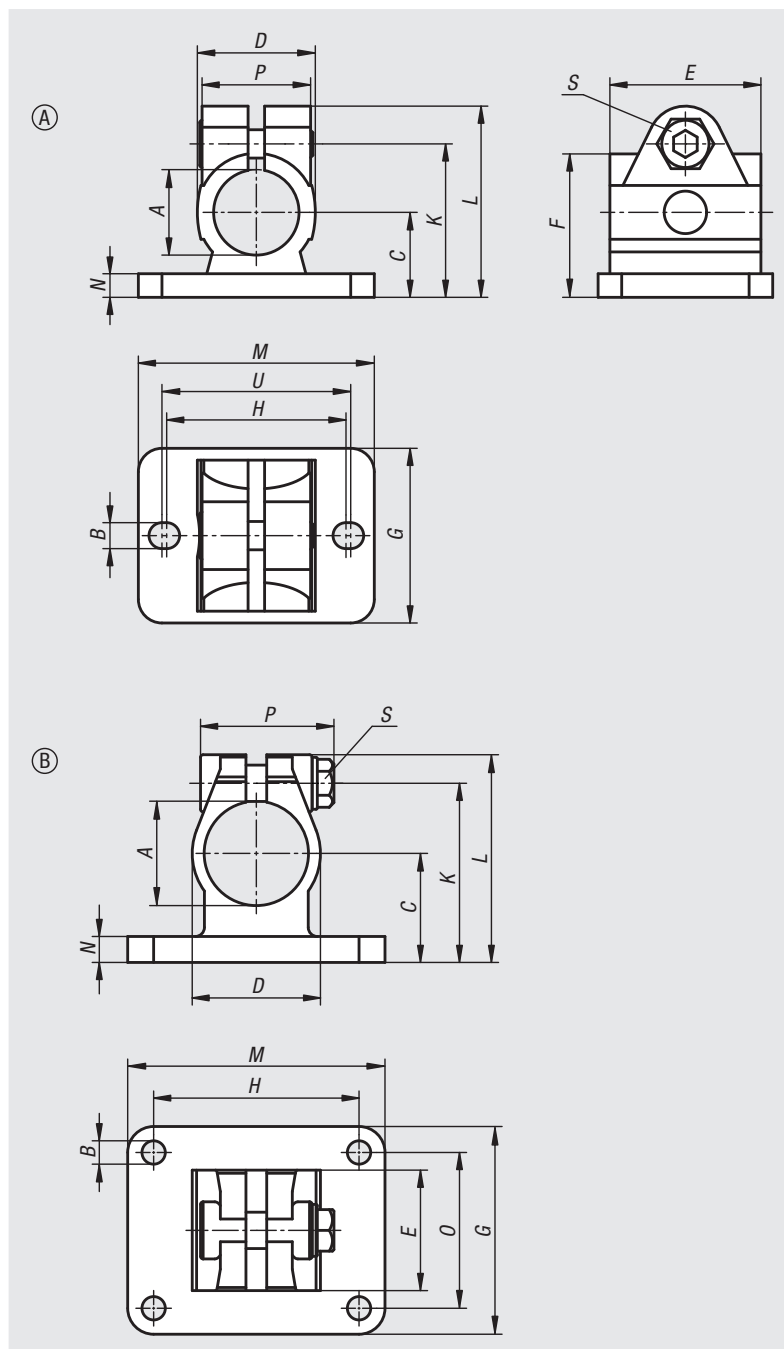
The tube clamps with diameters 30 and 40 mm have a silicone sleeve that protects the thread of the hex head screw from contamination and damage.

On request:

Clamping levers for tightening.

Accessories:

- Round and square tubes 29050



Order No.	Form	A	B	C	D	E	F	G	H	K	L	M	N	O	P	S	U
29014-112	A	12,1	5,5	18	25	32	30,4	37	38	32,5	40,5	50	5	-	23	M6x18	40
29014-114	A	14,1	5,5	18	25	32	30,4	37	38	32,5	40,5	50	5	-	23	M6x18	40
29014-116	A	16,1	5,5	18	25	32	30,4	37	38	32,5	40,5	50	5	-	23	M6x18	40
29014-118	A	18,1	5,5	18	25	32	30,4	37	38	32,5	40,5	50	5	-	23	M6x18	40
29014-120	A	20,1	5,5	18	25	32	30,4	37	38	32,5	40,5	50	5	-	23	M6x18	40
29014-130	B	30,1	7	30	37,4	32,4	-	55	60	50	59,2	78	7	40	45,5	M8x30	-
29014-140	B	40,17	9	42	49,4	46,4	-	80	60	69	80	80	10	60	52	M10x35	-

Tube clamps

flange, plastic


Material:

Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:

Black.
Screws and nuts electro zinc-plated.

Sample order:

nIm 29016-30

Note:

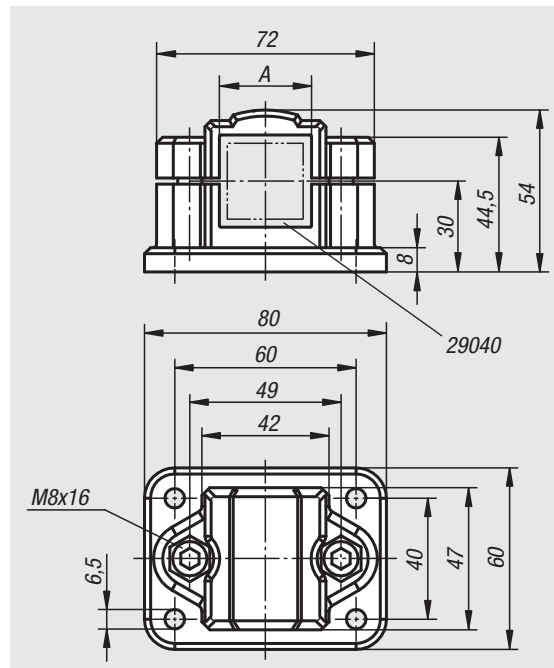
These flange clamps are for 30 mm square tubes. Use reducer sleeves 29040 if smaller tubes are to be clamped or a conversion from square to round tubes is required.

On request:

Plastic levers for locking.

Accessories:

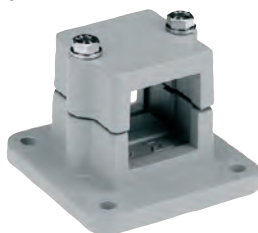
- Reducer sleeves 29040
- Round and square tubes 29050



Order No.	A
29016-30	30

Tube clamps

flange, aluminium


Material:

Cast aluminium.
Screws and nuts steel.

Version:

Vibratory ground.
Screws and nuts electro zinc-plated.

Sample order:

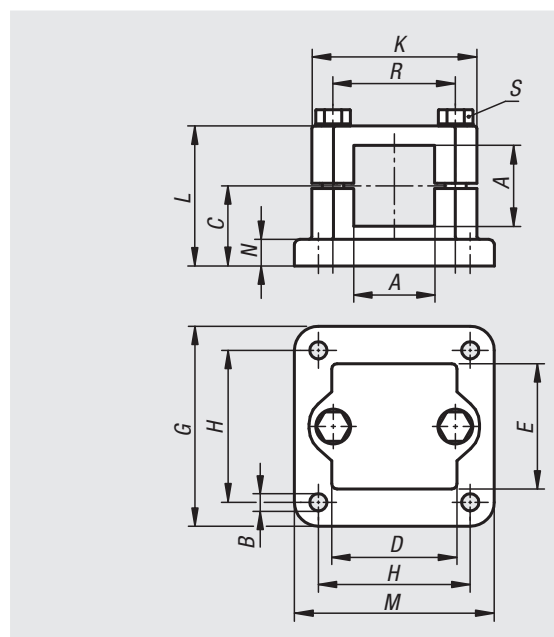
nIm 29016-5230

On request:

Levers for locking and other sizes for square tube.

Accessories:

- Round and square tubes 29050



Order No.	A	B	C	D	E	G	H	K	L	M	N	R	S
29016-5225	25,3	7	30	45	45	75	57	62	52,5	75	10	46	M8x50
29016-5230	30,3	7	30	45	45	75	57	62	52,5	75	10	46	M8x50
29016-5240	40,4	9	40	60	60	100	76	75	70	100	10	57	M8x70

Tube clamps

straight, plastic


Material:

Thermoplastic.

DIN 7984 screws and DIN 985 nuts steel.

Version:

Black.

Screws and nuts electro zinc-plated.

Sample order:

nIm 29022-18

Note:

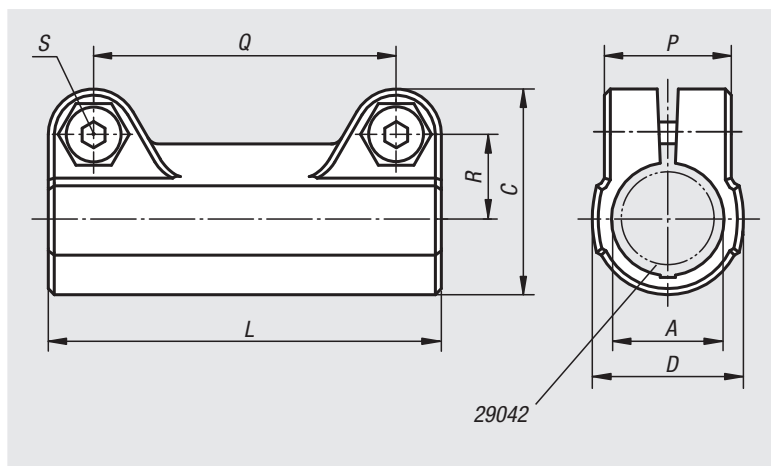
The standard size for round tubes is Ø18 mm or Ø30 mm. Use reducer sleeves 29042 if smaller tubes are to be clamped or a conversion from round to square tubes is required.

On request:

Plastic levers for locking.

Accessories:

- Reducer sleeves 29042
- Round and square tubes 29050



Order No.	A	C	D	L	P	Q	R	S
29022-18	18	34	25	65	21	50	14	M6x18
29022-30	30	52,5	40	95	28,5	73	22,8	M8x25

Tube clamps

swivel half, sunken teeth, plastic



Material:

Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:

Black.
Screws and nuts electro zinc-plated.

Sample order:

nln 29024-18

Note:

Swivel half clamps with sunken teeth can be combined with swivel half clamps with raised teeth (29026) to make a complete swivel clamp.

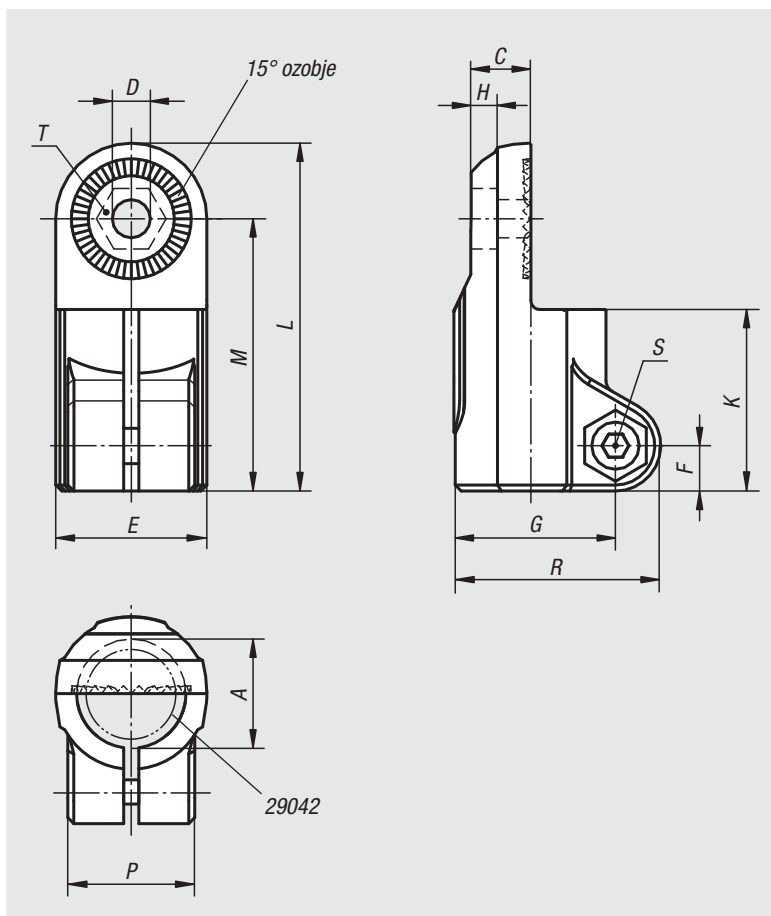
The standard size for round tubes is Ø18 mm or Ø30 mm. Use reducer sleeves 29042 if smaller tubes are to be clamped or a conversion from round to square tubes is required.

On request:

Plastic levers for locking.

Accessories:

- Reducer sleeves 29042
- Round and square tubes 29050



Order No.	A	C	D	E	F	G	H	K	L	M	P	R	S	T
29024-18	18	9,9	6,1	25	7,5	26,5	5,9	30	57,5	45	21	34	M6x18	M6-DIN 985
29024-30	30	16,5	8,1	40	11	41,5	6,5	45	88	68	28,5	52,5	M8x25	M8-DIN 985

Tube clamps

swivel half, raised teeth, plastic



Material:

Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:

Black.
Screws and nuts electro zinc-plated.

Sample order:

nln 29026-18

Note:

Swivel half clamps with raised teeth can be combined with swivel half clamps with sunken teeth (29024, 29028 or 29030) to make a complete swivel clamp.

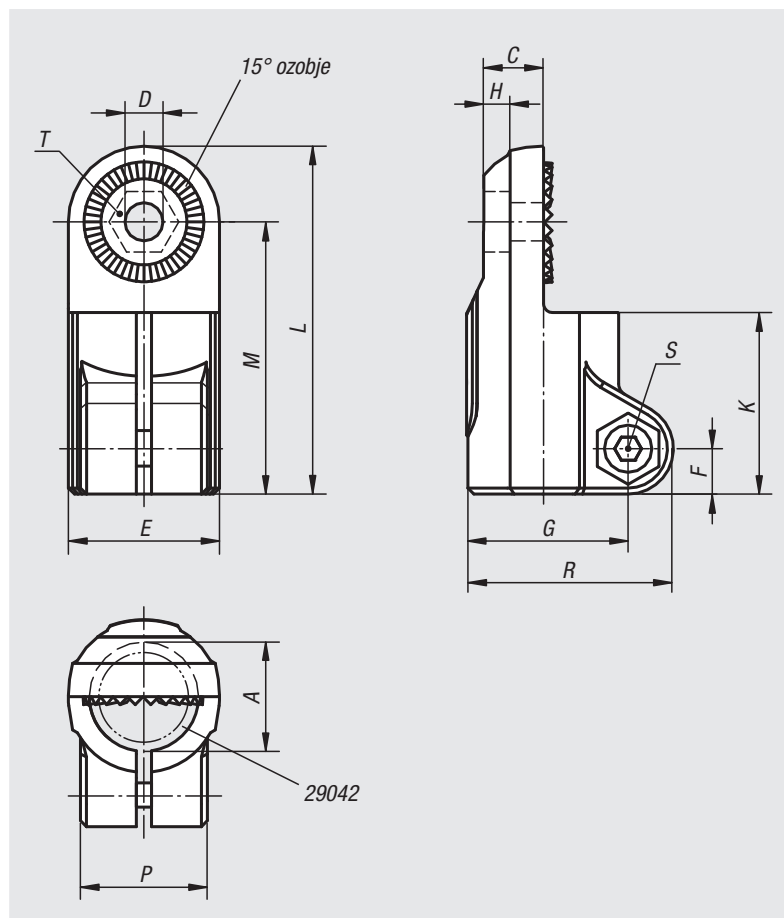
The standard size for round tubes is Ø18 mm or Ø30 mm. Use reducer sleeves 29042 if smaller tubes are to be clamped or a conversion from round to square tubes is required.

On request:

Plastic levers for locking.

Accessories:

- Reducer sleeves 29042
- Round and square tubes 29050



Order No.	A	C	D	E	F	G	H	K	L	M	P	R	S	T
29026-18	18	9,9	6,1	25	7,5	26,5	5,9	30	57,5	45	21	34	M6x18	M6-DIN 985
29026-30	30	16,5	8,1	40	11	41,5	6,5	45	88	68	28,5	52,5	M8x25	M8-DIN 985

Tube clamps

swivel half, sunken teeth, plastic


Material:

Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:

Black.
Screws and nuts electro zinc-plated.

Sample order:

nln 29028-18

Note:

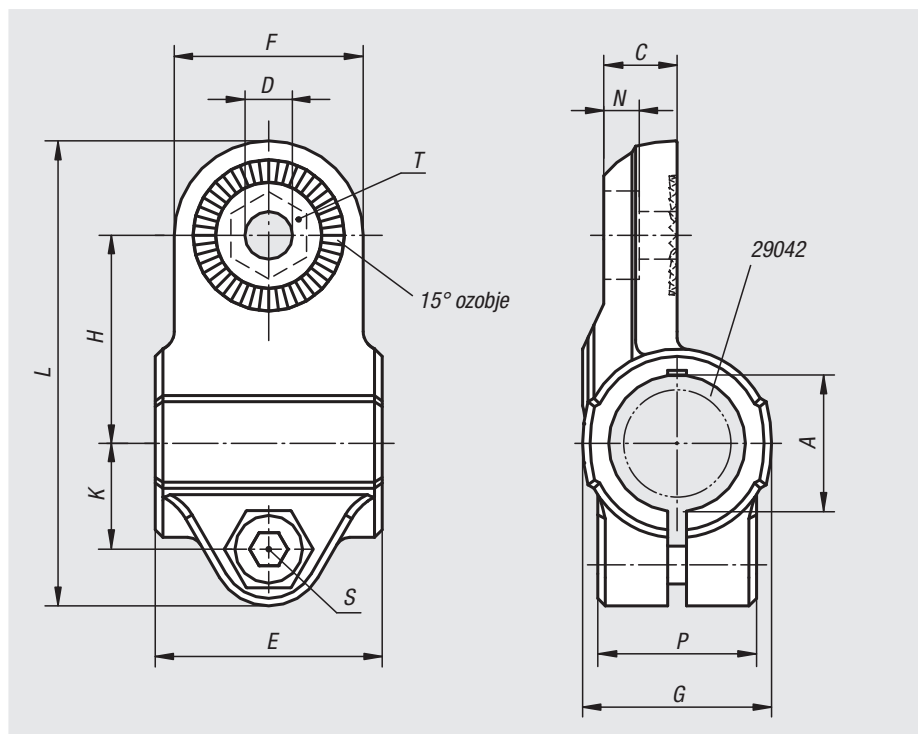
Swivel half clamps with sunken teeth can be combined with swivel half clamps with raised teeth (29026) to make a complete swivel clamp.
The standard size for round tubes is Ø18 mm or Ø30 mm. Use reducer sleeves 29042 if smaller tubes are to be clamped or a conversion from round to square tubes is required.

On request:

Plastic levers for locking.

Accessories:

- Reducer sleeves 29042
- Round and square tubes 29050



Order No.	A	C	D	E	F	G	H	K	L	N	P	S	T
29028-18	18	9,7	6,1	30	25	25	27,5	14	61,5	5,7	21	M6x18	M6-DIN 985
29028-30	30	16,5	8,1	45	40	40	43	22,5	95,5	6,5	28,5	M8x25	M8-DIN 985

Tube clamps

swivel half, sunken teeth, plastic


Material:

Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:

Black.
Screws and nuts electro zinc-plated.

Sample order:

nln 29028-18

Note:

Swivel half clamps with sunken teeth can be combined with swivel half clamps with raised teeth (29026) to make a complete swivel clamp.

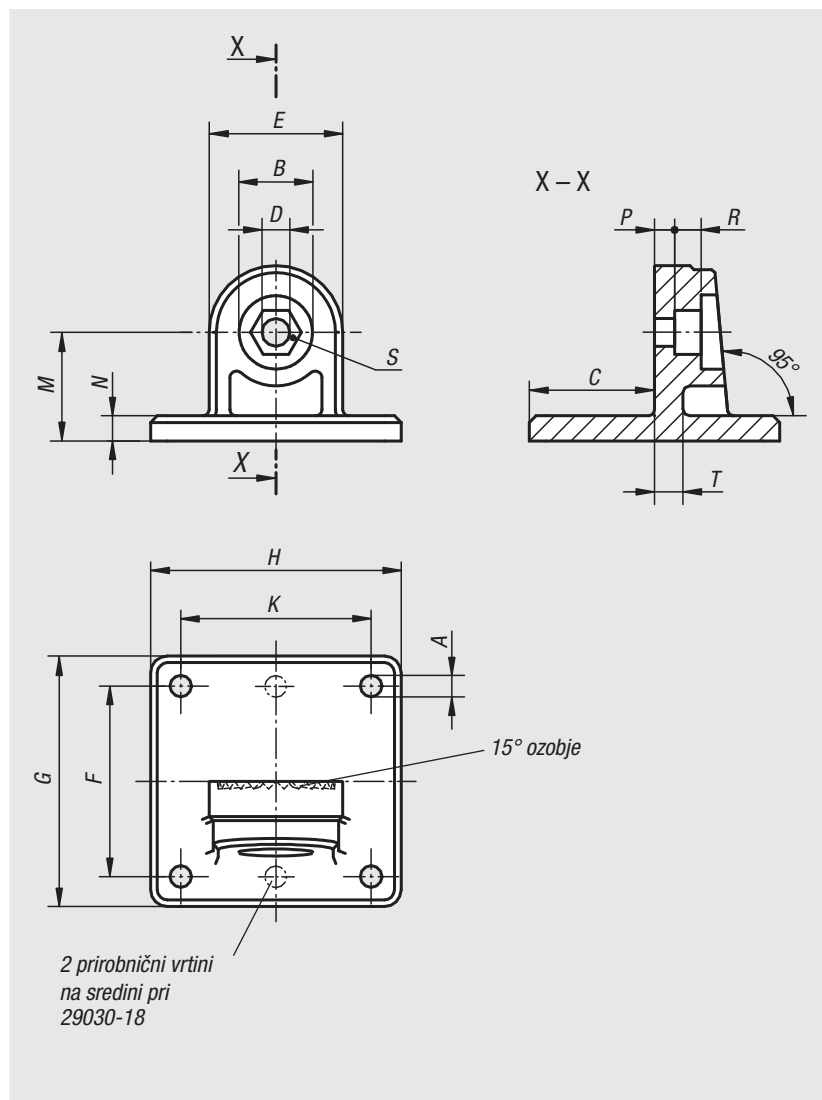
The standard size for round tubes is Ø18 mm or Ø30 mm. Use reducer sleeves 29042 if smaller tubes are to be clamped or a conversion from round to square tubes is required.

On request:

Plastic levers for locking.

Accessories:

- Reducer sleeves 29042
- Round and square tubes 29050



Order No.	A	C	D	E	F	G	H	K	L	N	P	S	T
29028-18	18	9,7	6,1	30	25	25	27,5	14	61,5	5,7	21	M6x18	M6-DIN 985
29028-30	30	16,5	8,1	45	40	40	43	22,5	95,5	6,5	28,5	M8x25	M8-DIN 985

Tube clamps

swivel, plastic



Material:

Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:

Black.
Screws and nuts electro zinc-plated.

Sample order:

nIm 29032-18

Note:

Tube swivel clamps can be seamlessly rotated through 180°.
The standard size for round tubes is Ø18 mm or Ø30 mm. Use reducer sleeves 29042 if smaller tubes are to be clamped or a conversion from round to square tubes is required.

On request:

Plastic levers for locking.

Accessories:

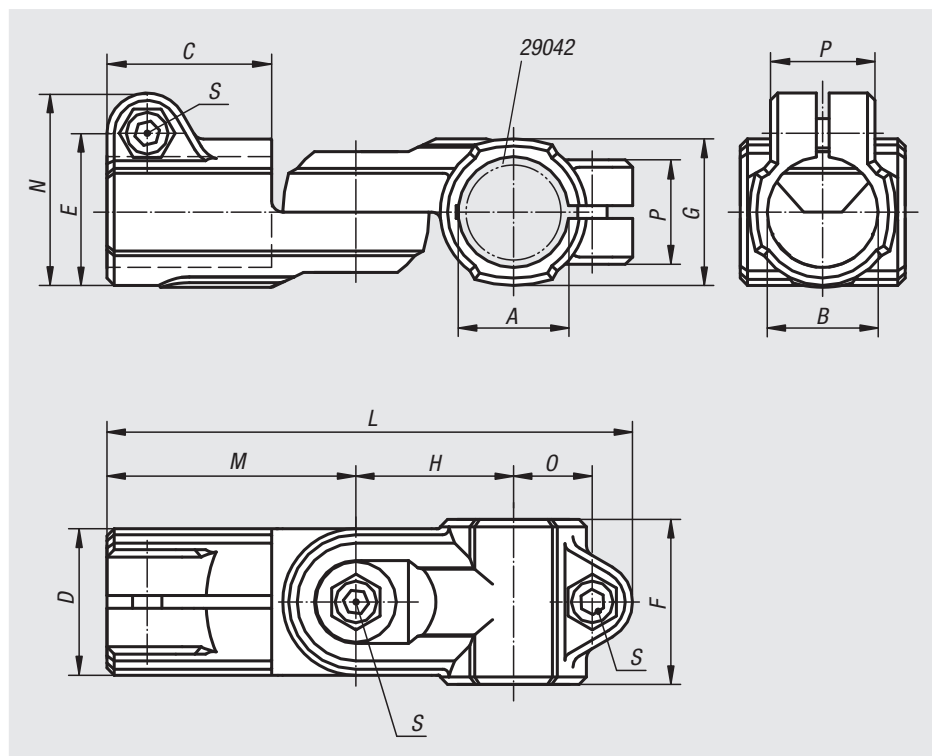
- Reducer sleeves 29042
- Round and square tubes 29050

Attention:

Tightening torque for clamping screws:

M6: 10 Nm

M8: 25 Nm



Order No.	A	B	C	D	E	F	G	H	L	M	N	O	P	S
29032-18	18	18	30	25	26,5	30	25	27,5	94	45	34	14	21	M6x18
29032-30	30	30	45	40	41,5	45	40	43	143,5	68	52,5	22,5	28,5	M8x25

Tube clamps

swivel, aluminium



Material:

Cast aluminium.

Socket head screw according to DIN 7984 and hexagon nut to DIN 985 in steel.

Starting from A = 20.1, hexagon head bolts DIN 931.

Version:

Slip-ground.

Socket head screw, hexagon head bolt, and hexagon nut.

Sample order:

nIm 29032-518

Note:

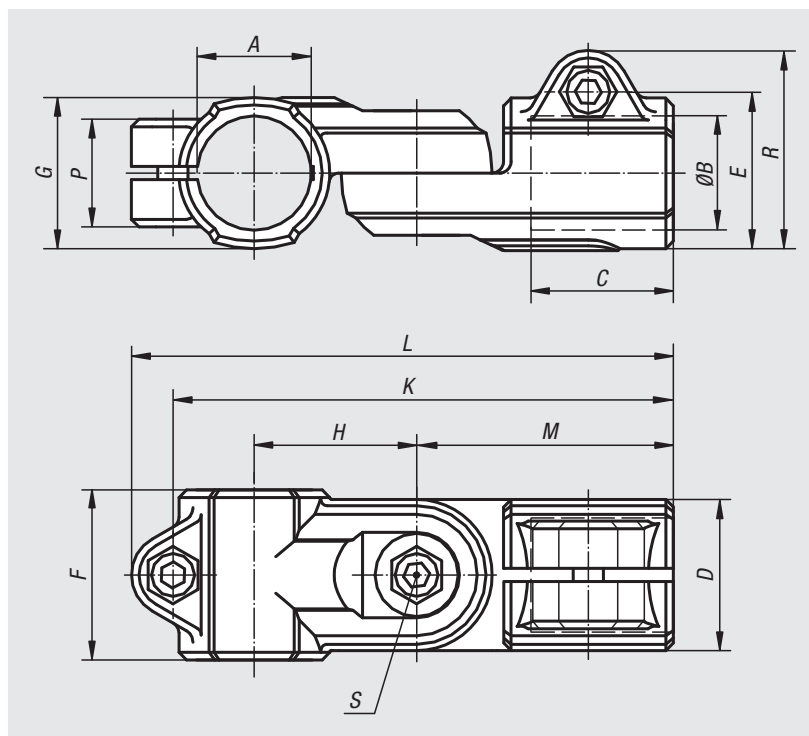
Tube swivel clamps can be seamlessly rotated through 180°.

On request:

Levers for locking and other diameters.

Accessories:

- Round and square tubes 29050



Order No.	A	B	C	D	E	F	G	H	K	L	M	P	R	S
29032-512	12,1	12,1	25	26	29,4	30	26	27	87	95,5	44	21	37,5	M6x18
29032-514	14,1	14,1	25	26	29,4	30	26	27	87	95,5	44	21	37,5	M6x18
29032-516	16,1	16,1	25	26	29,4	30	26	27	87	95,5	44	21	37,5	M6x18
29032-518	18,1	18,1	25	26	29,4	30	26	27	87	95,5	44	21	37,5	M6x18
29032-520	20,1	20,1	45	40	42	40	40	43	138	147	73	33	52	M8x35
29032-525	25,1	25,1	45	40	42	40	40	43	138	147	73	33	52	M8x35
29032-530	30,1	30,1	45	40	42	40	40	43	138	147	73	33	52	M8x35
29032-540	40,2	40,2	60	56	57	56	56	60	188	200	100	48	69	M10x50

Tube clamps

swivel, plastic



Material:

Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:

Black.
Screws and nuts electro zinc-plated.

Sample order:

nIm 29034-18

Note:

Tube swivel clamps can be seamlessly rotated through 180°.
The standard size for round tubes is Ø18 mm or Ø30 mm. Use reducer sleeves 29042 if smaller tubes are to be clamped or a conversion from round to square tubes is required.

On request:

Plastic levers for locking.

Accessories:

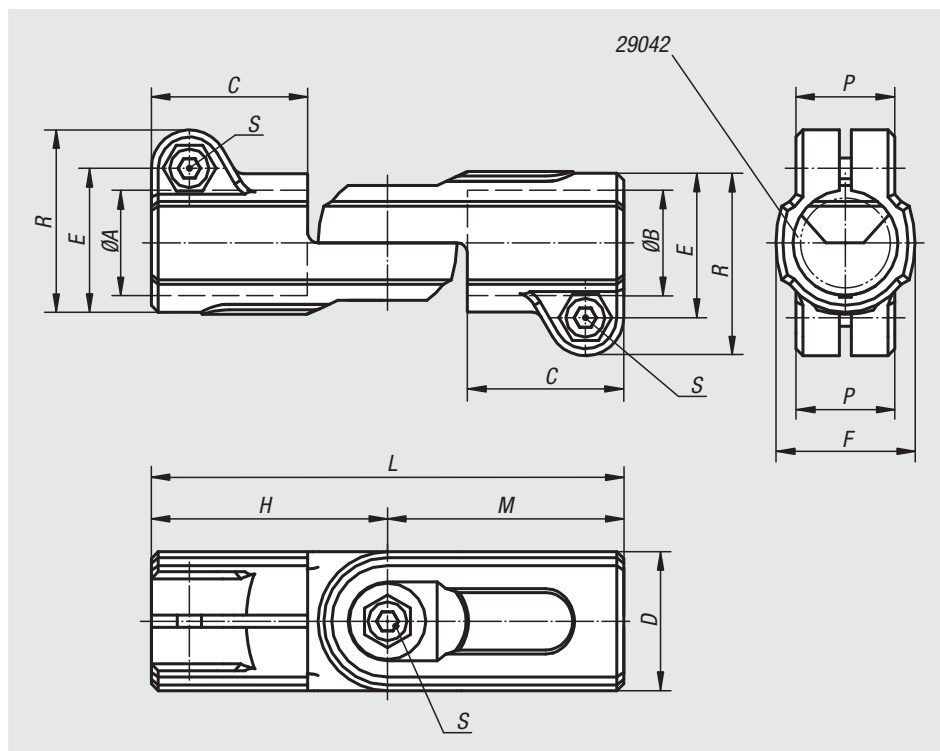
- Reducer sleeves 29042
- Round and square tubes 29050

Attention:

Tightening torque for clamping screws:

M6: 10 Nm

M8: 25 Nm



Order No.	A	B	C	D	E	F	H	L	M	P	R	S
29034-18	18	18	30	25	26,5	25	45	90	45	21	34	M6x18
29034-30	30	30	45	40	41,5	40	68	136	68	28,5	52,5	M8x25

Tube clamps

swivel, aluminium


Material:

Cast aluminium.

DIN 7984 screws and DIN 985 nuts, steel.

Version:

Vibratory ground.

Screws and nuts electro zinc-plated.

Sample order:

nIm 29034-540

Note:

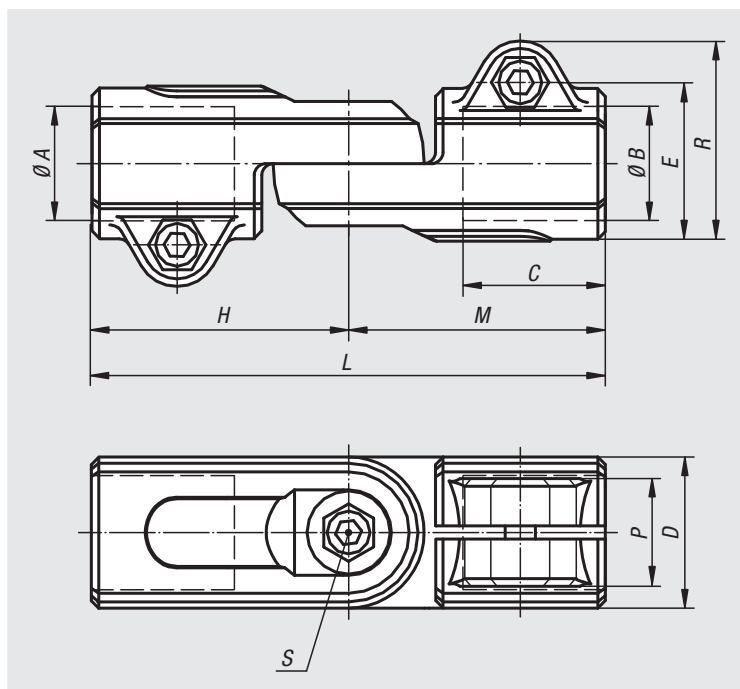
Tube swivel clamps can be seamlessly rotated through 180°.

On request:

Levers for locking and other diameters.

Accessories:

- Round and square tubes 29050



Order No.	A	B	C	D	E	H	L	M	P	R	S
29034-512	12,1	12,1	25	26	29,4	44	88	44	21	37,5	M6x18
29034-514	14,1	14,1	25	26	29,4	44	88	44	21	37,5	M6x18
29034-516	16,1	16,1	25	26	29,4	44	88	44	21	37,5	M6x18
29034-518	18,1	18,1	25	26	29,4	44	88	44	21	37,5	M6x18
29034-520	20,1	20,1	45	40	40	73	146	73	33	51	M8x35
29034-525	25,1	25,1	45	40	40	73	146	73	33	51	M8x35
29034-530	30,1	30,1	45	40	40	73	146	73	33	51	M8x35
29034-540	40,15	40,15	60	56	56	100	200	100	48	70	M10x50

Tube clamps

swivel base, plastic



Material:

Thermoplastic.
DIN 7984 screws and DIN 985 nuts steel.

Version:

Black.
Screws and nuts electro zinc-plated.

Sample order:

nIm 29036-18

Note:

Tube swivel clamps can be seamlessly rotated through 180°.

The standard size for round tubes is Ø18 mm or Ø30 mm. Use reducer sleeves 29042 if smaller tubes are to be clamped or a conversion from round to square tubes is required.

On request:

Plastic levers for locking.

Accessories:

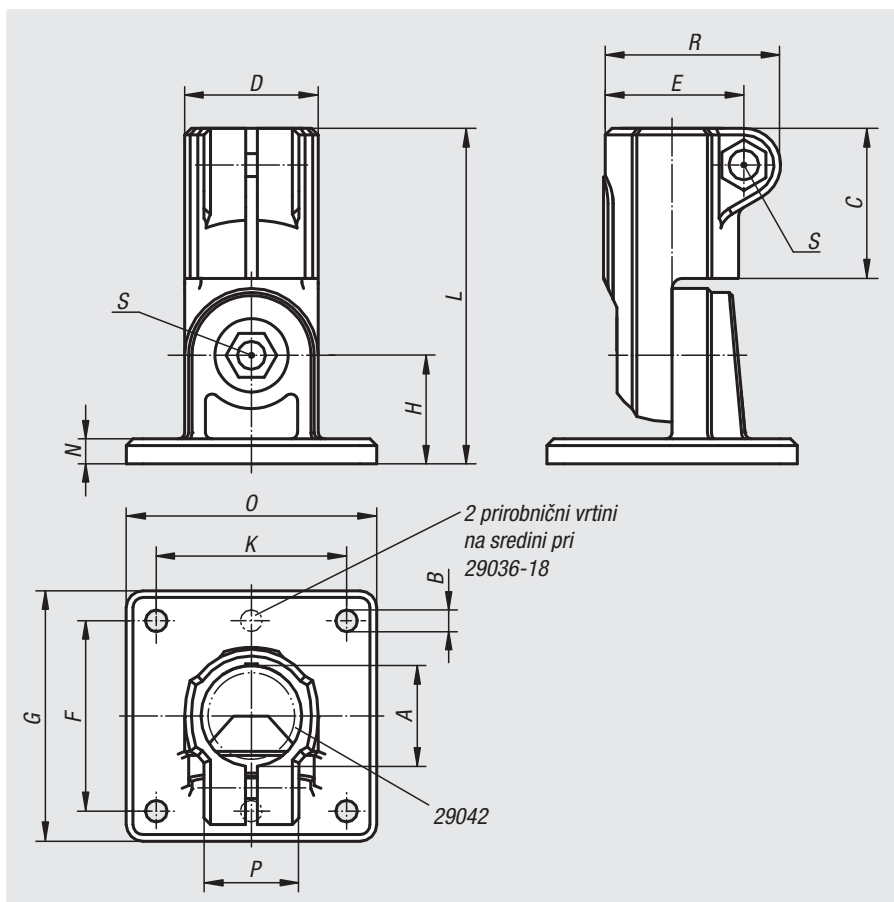
- Reducer sleeves 29042
- Round and square tubes 29050

Attention:

Tightening torque for clamping screws:

M6: 10 Nm

M8: 25 Nm



Order No.	A	B	C	D	E	F	G	H	K	L	N	O	P	R	S
29036-18	18	5,3 (2x)	30	25	26,5	40	50	20	-	65	5	35	21	34	M6x18
29036-30	30	6,5 (4x)	45	40	41,5	60	75	32,5	60	100,5	7,5	75	28,5	52,5	M8x25

Tube clamps

swivel base, aluminium



Material:

Cast aluminium.

DIN 7984 screws and DIN 985 nuts, steel.

Version:

Vibratory ground.

Screws and nuts electro zinc-plated.

Sample order:

nln 29036-518

Note:

Tube swivel clamps can be seamlessly rotated through 180°.

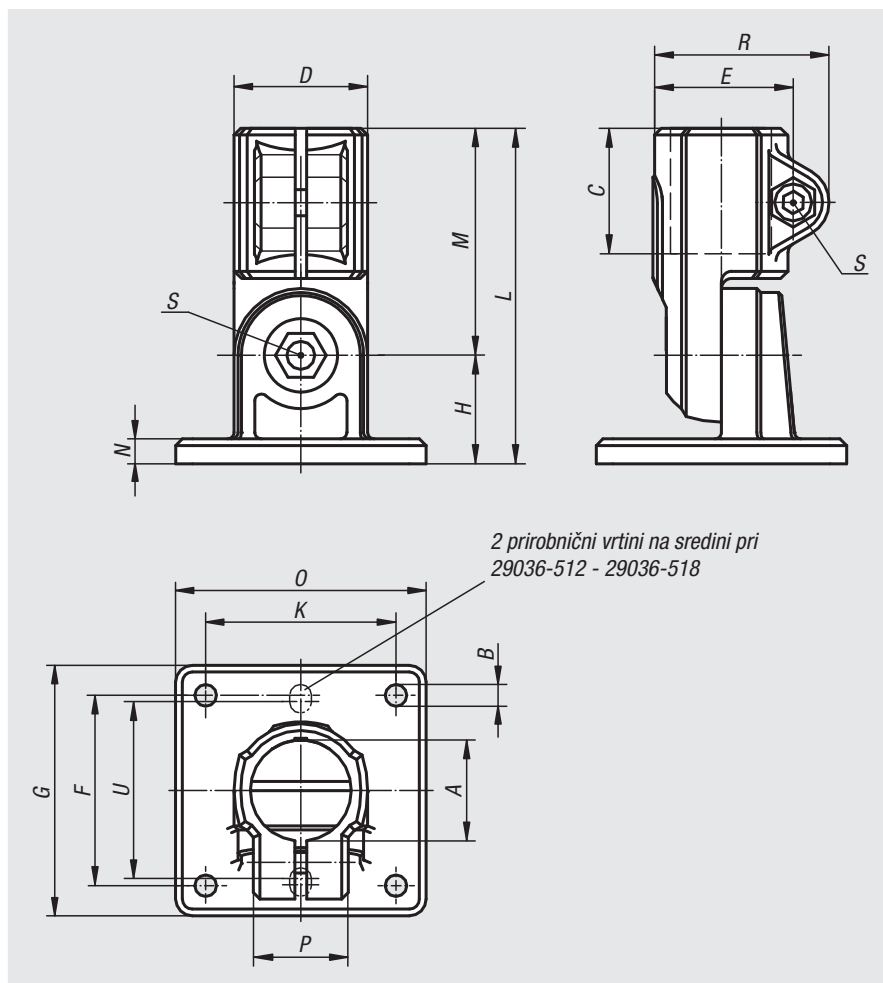
* Elongated hole

On request:

Levers for locking and other diameters.

Accessories:

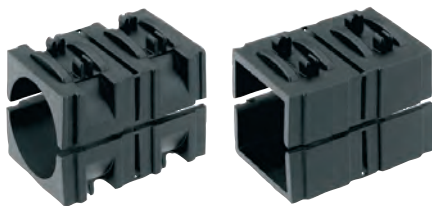
- Round and square tubes 29050



Order No.	A	B	C	D	E	F	G	H	K	L	M	N	O	P	R	S	U
29036-512	12,1	6* (2x)	25	26	29,4	40	50	20	-	64	44	5	35	21	37,5	M6x18	38
29036-514	14,1	6* (2x)	25	26	29,4	40	50	20	-	64	44	5	35	21	37,5	M6x18	38
29036-516	16,1	6* (2x)	25	26	29,4	40	50	20	-	64	44	5	35	21	37,5	M6x18	38
29036-518	18,1	6* (2x)	25	26	29,4	40	50	20	-	64	44	5	35	21	37,5	M6x18	38
29036-520	20,1	7* (4x)	45	40	42	57	75	33	57	106	73	7	75	33	52	M8x35	-
29036-525	25,1	7* (4x)	45	40	42	57	75	33	57	106	73	7	75	33	52	M8x35	-
29036-530	30,1	7* (4x)	45	40	42	57	75	33	57	106	73	7	75	33	52	M8x35	-
29036-540	40,2	9* (4x)	60	56	57	76	100	44	76	144	100	10	100	48	69	M10x50	-

Reducer sleeves

square

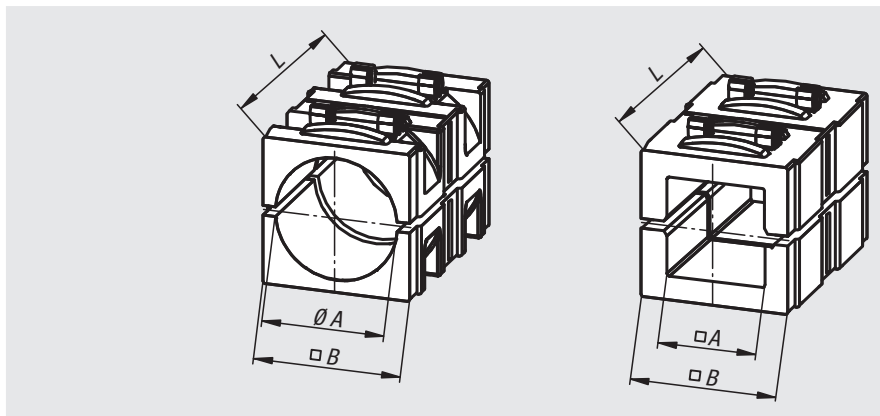


Material:
Thermoplastic.

Version:
black.

Sample order:
nlm 29040-03020

Note:
Reducer sleeves are for clamping smaller tubes or where a conversion of square to round tubes is required.



Order No.	Version 2	A	B	L
29040-03020	for round tubes	Ø 20,25	30,3	45
29040-03025	for round tubes	Ø 25,25	30,3	45
29040-03030	for round tubes	Ø 30,25	30,3	45
29040-13020	for square tubes	20,5	30,3	45
29040-13025	for square tubes	25,5	30,3	45

Reducer sleeves

round

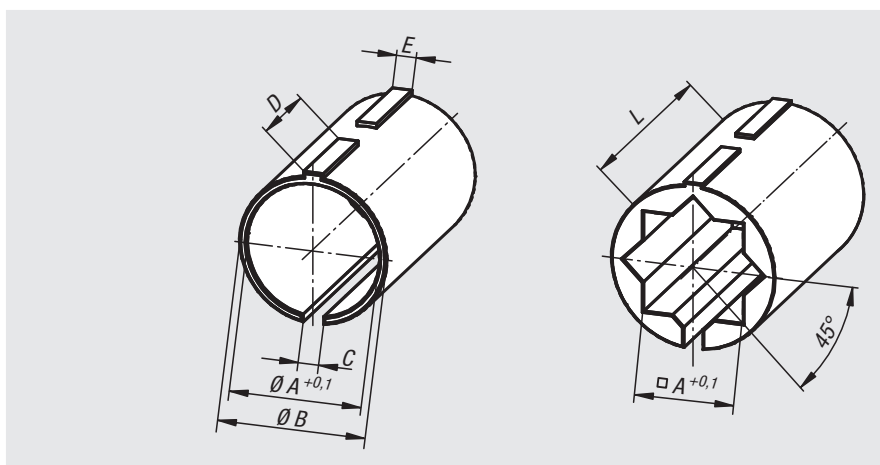


Material:
Thermoplastic.

Version:
black.

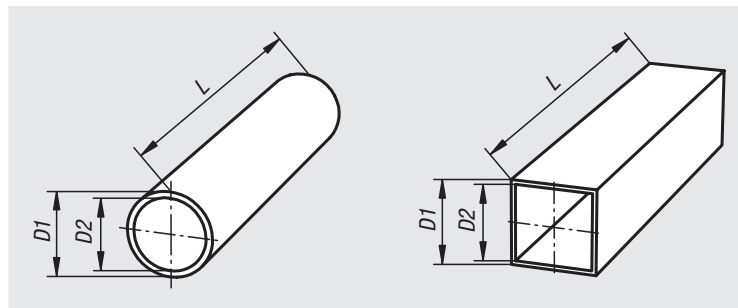
Sample order:
nlm 29042-03020

Note:
Reducer sleeves are for clamping smaller tubes or where a conversion of round to square tubes is required.



Order No.	Version 2	A	B	C	D	E	L
29042-01812	for round tubes	12,25	18	2,5	11,9	2,4	30
29042-01814	for round tubes	14,25	18	2,5	11,9	2,4	30
29042-01815	for round tubes	15,25	18	2,5	11,9	2,4	30
29042-01816	for round tubes	16,25	18	2,5	11,9	2,4	30
29042-03020	for round tubes	20,25	30	3,5	18,9	3,4	45
29042-03025	for round tubes	25,25	30	3,5	18,9	3,4	45
29042-11810	for square tubes	10,25	18	2,5	11,9	2,4	30
29042-13020	for square tubes	20,25	30	3,5	18,9	3,4	45

Round and square tubes


Material:

Steel 1.0037.

Aluminium EN AW-6060.

Version:

Steel electro zinc-plated.

Aluminium clear anodised.

Sample order:

nIm 29050-0112X500 (include length L)

Note:

The machined tolerances of these round and square tubes are individually matched to the tube clamping system.

*Square aluminium size 10x10 are only available as solid bars.

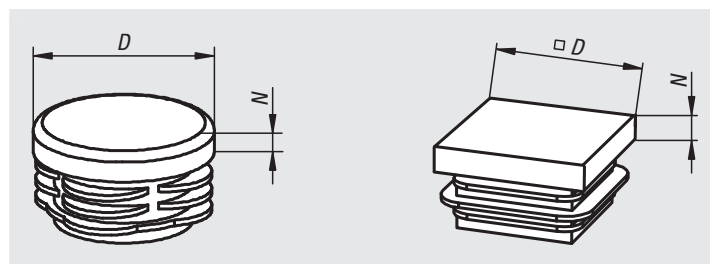
On request:

- stainless steel tubes
- customer specific lengths

Order No.	Item	Main material	Description	D1	D2	L
29050-0112X	Round Tube	steel	Ø12 x 1,5	12 ±0,1	9	500/1000/2000
29050-0114X	Round Tube	steel	Ø14 x 1,5	14 ±0,1	11	500/1000/2000
29050-0115X	Round Tube	steel	Ø15 x 1,5	15 ±0,1	12	500/1000/2000
29050-0116X	Round Tube	steel	Ø16 x 1,5	16 ±0,1	13	500/1000/2000
29050-0118X	Round Tube	steel	Ø18 x 1,5	18 ±0,1	15	500/1000/2000
29050-0120X	Round Tube	steel	Ø20 x 2	20 ±0,1	16	500/1000/2000
29050-0125X	Round Tube	steel	Ø25 x 2	25 ±0,1	21	500/1000/2000
29050-0130X	Round Tube	steel	Ø30 x 2	30 ±0,1	26	500/1000/2000
29050-0140X	Round Tube	steel	Ø40 x 4	40 ±0,15	32	500/1000/2000
29050-0150X	Round Tube	steel	Ø50 x 4	50 ±0,2	42	500/1000/2000
29050-0220X	Round Tube	aluminium	Ø20 x 3	20 ±0,1	14	500/1000/2000
29050-0230X	Round Tube	aluminium	Ø30 x 2	30 ±0,1	26	500/1000/2000
29050-0240X	Round Tube	aluminium	Ø40 x 3	40 ±0,15	34	500/1000/2000
29050-0250X	Round Tube	aluminium	Ø50 x 3	50 ±0,2	44	500/1000/2000

Order No.	Item	Main material	Description	D1	D2	L
29050-4120X	Square Tube	steel	20 x 20 x 1	20 ±0,3	18	500/1000/2000
29050-4125X	Square Tube	steel	25 x 25 x 1,5	25 ±0,3	22	500/1000/2000
29050-4130X	Square Tube	steel	30 x 30 x 2	30 ±0,3	26	500/1000/2000
29050-4140X	Square Tube	steel	40 x 40 x 3	40 ±0,4	34	500/1000/2000
29050-4210X	Square Tube	aluminium	10 x 10	10*	-	500/1000/2000
29050-4220X	Square Tube	aluminium	20 x 20 x 1,5	20 ±0,2	17	500/1000/2000
29050-4230X	Square Tube	aluminium	30 x 30 x 2	30 ±0,2	26	500/1000/2000
29050-4240X	Square Tube	aluminium	40 x 40 x 4	40 ±0,3	32	500/1000/2000

Tube end plugs


Material:

Polyethylene

Version:

black.

Sample order:

nlm 29056-025200

Note:

These plugs are for corner protection and plugging the tube ends. They can be pushed in by hand or tapped in with a plastic hammer.

Order No.	Version 2	D	N	Suitable for
29056-018150	for round tubes	18	5	Ø18 x 0,8-2
29056-020200	for round tubes	20	5	Ø20 x 0,8-2,5
29056-025200	for round tubes	25	5	Ø25 x 1-3
29056-030200	for round tubes	30	5	Ø30 x 0,8-2,5
29056-040300	for round tubes	40	5	Ø40 x 1-3
29056-040400	for round tubes	40	5	Ø40 x 3-5
29056-050400	for round tubes	50	5	Ø50 x 2,5-4,5
29056-420100	for square tubes	20	5	20 x 20 x 0,8-3
29056-425150	for square tubes	25	5	25 x 25 x 1-3
29056-430200	for square tubes	30	5	30 x 30 x 1-2,5
29056-440300	for square tubes	40	5	40 x 40 x 1-3
29056-440400	for square tubes	40	5	40 x 40 x 3-5

Technical information on linear actuators

These linear actuators are efficient, economical and universally applicable. They ideally combine high rigidity, low deflection, high loads and easy handling. Four sizes are available for different applications and loads (tube sizes from Ø18 mm to Ø50 mm).

Features:

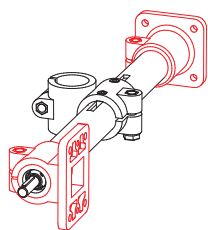
- Standard travel over 2000 mm possible
- Position accuracy up to ± 0.2 mm / 300 mm
- Travel speed up to 1.5 m/min
- Drive by trapezoid thread spindle
- Mounting position optional

Technical description:

In a tube, a threaded spindle mounted on bearings with guide nut converts a rotation into linear movement of a carriage. The nut has a carrier key to prevent it turning.

Mounting the linear actuator:

Depending on the mounting position and application, linear actuators can be mounted using our tube clamping elements.



Speed:

n = required spindle speed.
max. spindle speed with:
plain bearing 80 rpm.
ball bearing 250 rpm.

Type E	Pitch mm
18	2
30	3
40	4
50	4

$$n \text{ [rpm]} = \frac{\text{Speed [m/min]} \times 1000[\text{mm}]}{\text{Spindle pitch [mm]}}$$

Idling torques:

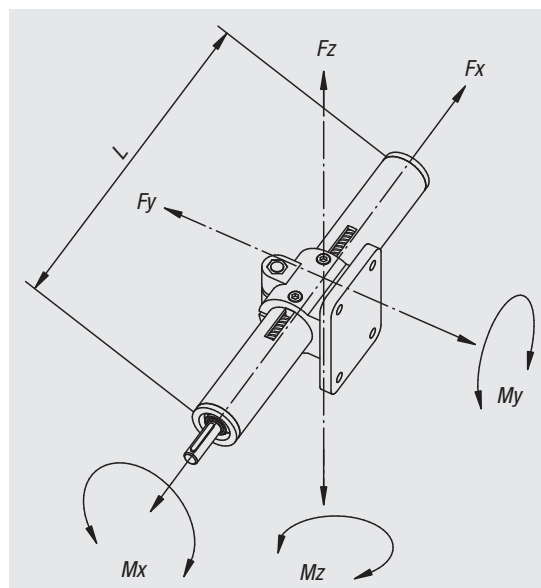
Type E	Spindle with plain bearing [Nm]	Spindle with ball bearings [Nm]
18	-	0,20
30	0,45	0,35
40	0,65	0,50
50	1,20	0,90

Load data*:

F force [N]

M moment [Nm]

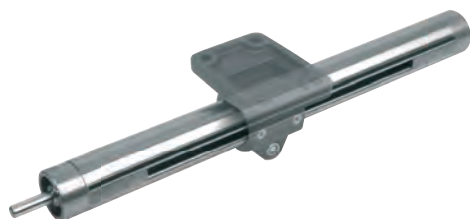
I area moment of inertia [cm⁴]



Length	Fx	Fy	Fz
	500	500/1000/1500	500/1000/1500
Type E 18	400	90 / 10 / -	60 / 8 / -
Type E 30	800	500 / 60 / 10	500 / 50 / 9
Type E 40	1000	2100 / 250 / 60	1900 / 140 / 50
Type E 50	1700	3000 / 600 / 140	3000 / 600 / 140

Type E	Mx	My	Mz	Iy	Iz
18	1,5	4	4	0,22	0,27
30	6	15	15	1,34	1,56
40	14	40	40	4,58	5,24
50	30	65	65	11,31	12,32

Linear actuators



Material, version:

Precision tube DIN EN 10305, stainless steel 1.4301.
For type E 18, electro zinc-plated steel.
Trapezoid thread spindle steel, RH thread, rolled.

Sample order:

nIm 29105-300001X500

Note:

Medium speed range, self-locking.

On request:

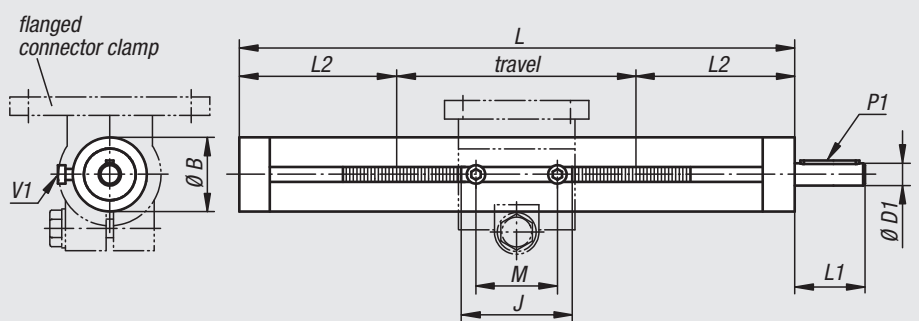
LH thread, stainless steel, 2 drive pins, other travel lengths, handwheels.

Accessories:

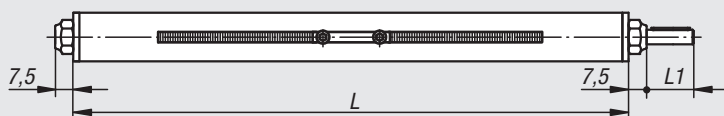
- Guide clamps 29120, 29125, 29130, 29135
- Tube clamps from our tube clamping system

Functional principle:

A rotating movement of the threaded spindle is converted into a linear movement of the guide carriage.

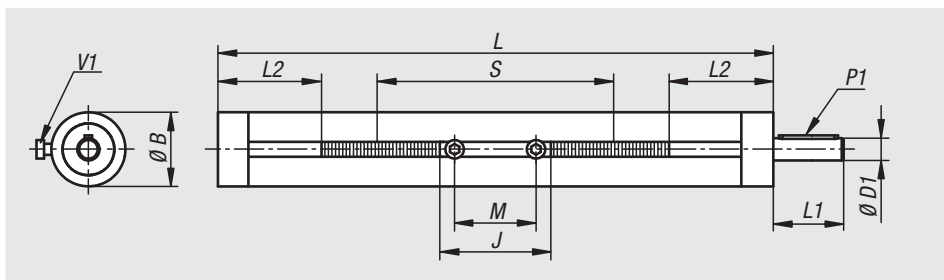


Linear actuator
29105-18...



Order No.	Version 1	Type E	Spindle	L	Travel S	B	D1	J	L1	L2	M	P1 parallel key DIN 6885	V1
29105-300001X300	with plain bearing	30	Tr 14x3	300	100	30	8 h8	38	26	100	28	2 x 2 x 20	M4x8
29105-300001X500	with plain bearing	30	Tr 14x3	500	300	30	8 h8	38	26	100	28	2 x 2 x 20	M4x8
29105-300001X800	with plain bearing	30	Tr 14x3	800	600	30	8 h8	38	26	100	28	2 x 2 x 20	M4x8
29105-400001X300	with plain bearing	40	Tr 20x4	300	91	40	12 h8	55	38	104,5	44	4 x 4 x 32	M6x10
29105-400001X500	with plain bearing	40	Tr 20x4	500	291	40	12 h8	55	38	104,5	44	4 x 4 x 32	M6x10
29105-400001X800	with plain bearing	40	Tr 20x4	800	591	40	12 h8	55	38	104,5	44	4 x 4 x 32	M6x10
29105-400001X1000	with plain bearing	40	Tr 20x4	1000	791	40	12 h8	55	38	104,5	44	4 x 4 x 32	M6x10
29105-500001X500	with plain bearing	50	Tr 20x4	500	265	50	12 h8	63	38	117,5	44	4 x 4 x 32	M6x10
29105-500001X800	with plain bearing	50	Tr 20x4	800	565	50	12 h8	63	38	117,5	44	4 x 4 x 32	M6x10
29105-500001X1000	with plain bearing	50	Tr 20x4	1000	765	50	12 h8	63	38	117,5	44	4 x 4 x 32	M6x10
29105-180101X300	with ball bearing	18	Tr 10x2	300	145	18	6 h9	24	17	77,5	18	2 x 2 x 12	M3x5
29105-180101X500	with ball bearing	18	Tr 10x2	500	345	18	6 h9	24	17	77,5	18	2 x 2 x 12	M3x5
29105-300101X300	with ball bearing	30	Tr 14x3	300	100	30	8 h8	38	26	100	28	2 x 2 x 20	M4x8
29105-300101X500	with ball bearing	30	Tr 14x3	500	300	30	8 h8	38	26	100	28	2 x 2 x 20	M4x8
29105-300101X800	with ball bearing	30	Tr 14x3	800	600	30	8 h8	38	26	100	28	2 x 2 x 20	M4x8
29105-400101X300	with ball bearing	40	Tr 20x4	300	91	40	12 h8	55	38	104,5	44	4 x 4 x 32	M6x10
29105-400101X500	with ball bearing	40	Tr 20x4	500	291	40	12 h8	55	38	104,5	44	4 x 4 x 32	M6x10
29105-400101X800	with ball bearing	40	Tr 20x4	800	591	40	12 h8	55	38	104,5	44	4 x 4 x 32	M6x10
29105-400101X1000	with ball bearing	40	Tr 20x4	1000	791	40	12 h8	55	38	104,5	44	4 x 4 x 32	M6x10
29105-500101X500	with ball bearing	50	Tr 20x4	500	265	50	12 h8	63	38	117,5	44	4 x 4 x 32	M6x10
29105-500101X800	with ball bearing	50	Tr 20x4	800	565	50	12 h8	63	38	117,5	44	4 x 4 x 32	M6x10
29105-500101X1000	with ball bearing	50	Tr 20x4	1000	765	50	12 h8	63	38	117,5	44	4 x 4 x 32	M6x10

Linear actuators, stainless steel



Material:

DIN EN 10305 precision tube, stainless steel 1.4301
Trapezoidal thread spindle, right-hand thread, rolled,
stainless steel 1.4301

Sample order:

nln 29105-1300101X500

Note:

Medium speed range, self-locking.

On request:

Left-hand thread, 2 drive cones, other travels or
handwheels.

Accessories:

- Guides, stainless steel, 29120, 29130, 29135
- Clamping elements of the tubular connection system

Functional principle:

A rotating movement of the threaded spindle is
converted into a linear movement of the guide carriage.

Order No.	Version 1	Type E	Spindle	L	Travel S	B	D1	J	L1	L2	M	P1 parallel key DIN 6885	V1
29105-1300101X300	with ball bearing	30	Tr 14x3	300	140	30	8 h8	31	26	80	22	2 x 2 x 20	M4x8
29105-1300101X500	with ball bearing	30	Tr 14x3	500	340	30	8 h8	31	26	80	22	2 x 2 x 20	M4x8
29105-1300101X800	with ball bearing	30	Tr 14x3	800	640	30	8 h8	31	26	80	22	2 x 2 x 20	M4x8
29105-1400101X300	with ball bearing	40	Tr 20x4	300	146	40	12 h8	39	38	77	28	4 x 4 x 32	M6x10
29105-1400101X500	with ball bearing	40	Tr 20x4	500	346	40	12 h8	39	38	77	28	4 x 4 x 32	M6x10
29105-1400101X800	with ball bearing	40	Tr 20x4	800	646	40	12 h8	39	38	77	28	4 x 4 x 32	M6x10
29105-1400101X1000	with ball bearing	40	Tr 20x4	1000	846	40	12 h8	39	38	77	28	4 x 4 x 32	M6x10

Linear actuator connector clamps

cross

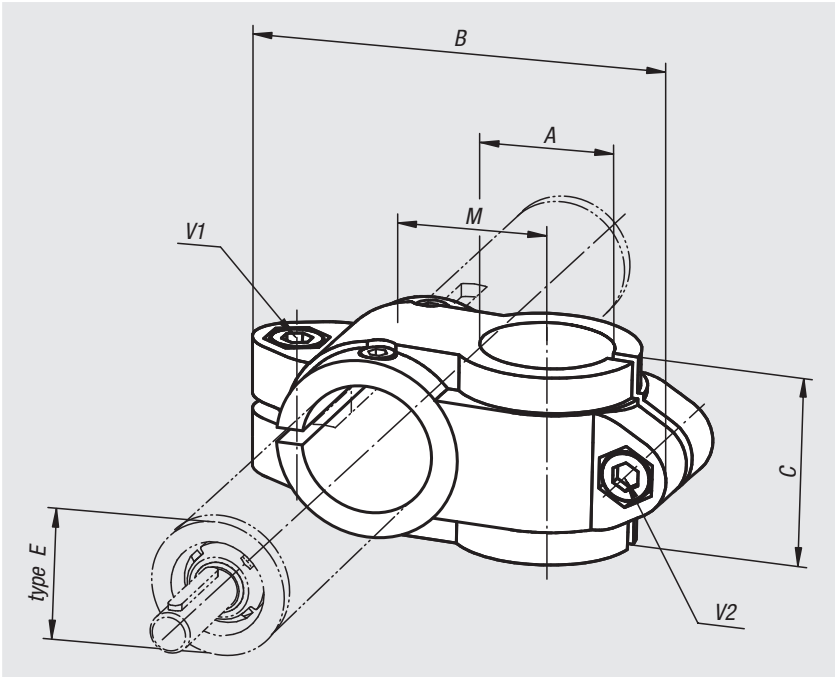


Material:
Cast aluminium.
DIN 7984 screws and DIN 985 nuts, steel.

Version:
Black powder-coated.
Screws and nuts electro zinc-plated.

Sample order:
nlm 29120-1818

On request:
Clamping levers for tightening.



Order No.	Type E	A	B	C	M	V1	V2
29120-1818	18	18	66	25,5	20	M6x16	M6x16
29120-3020	30	20	99	40	33	M8x25	M8x25
29120-3030	30	30	99	40	33	M8x25	M8x25
29120-4020	40	20	109	40	36	M10x30	M8x25
29120-4040	40	40	137	60	45	M10x30	M10x30
29120-5040	50	40	154	70	54	M10x35	M10x35
29120-5050	50	50	154	70	54	M10x35	M10x35

Linear actuator connector clamps, stainless steel

cross

**Material:**

Stainless steel, investment cast 1.4308.
Screws, stainless steel A2.

Version:

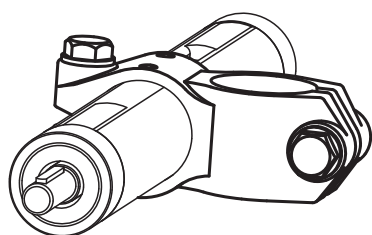
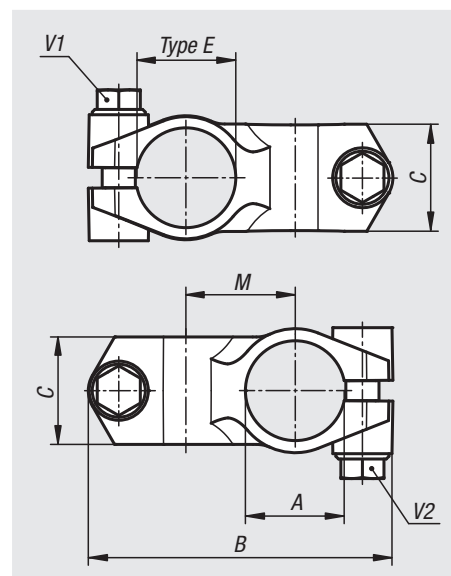
Electropolished.

Sample order:

nlm 29120-13030

On request:

Clamping levers for tightening.



Order No.	Type E	A	B	C	M	V1	V2
29120-13030	30	30	92	32,4	33	M8x30	M8x30
29120-14040	40	40	118	40	42	M10x35	M10x35

Linear actuator connector clamps

cross

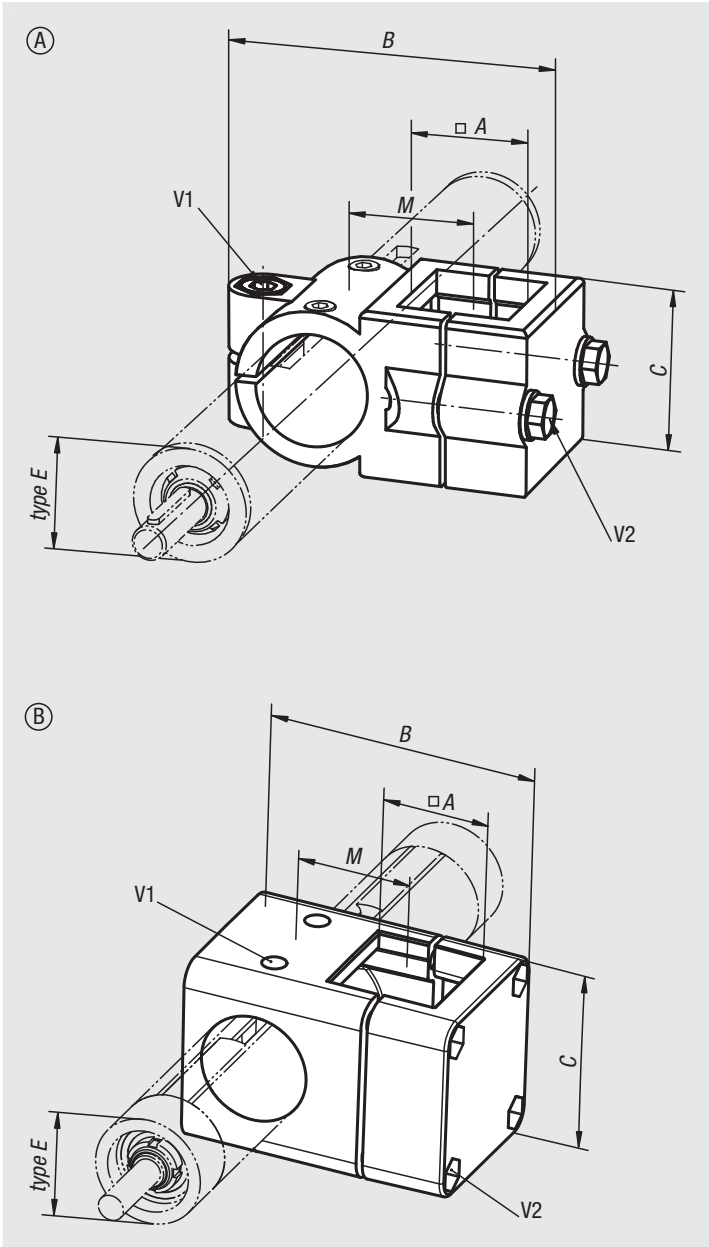


Material:
Cast aluminium.
Screws and nuts steel.

Version:
Black powder-coated.
Clamping screws and nuts electro zinc-plated.

Sample order:
nlm 29125-4040

On request:
Clamping levers for tightening.



Order No.	Form	Type E	A	B	C	M	V1	V2
29125-3030	A	30	30	86	45	33	M8x35	M8x35
29125-4040	A	40	40	117	60	47	M10x50	M8x45
29125-5050	B	50	50	126	86	53	M8x50	M8x50
29125-3030	A	30	30	86	45	33	M8x35	M8x35
29125-4040	A	40	40	117	60	47	M10x50	M8x45
29125-5050	B	50	50	126	86	53	M8x50	M8x50

Linear actuator connector clamps

flange



Material:

Cast aluminium.
DIN 7984 screws and DIN 985 nuts, steel.

Version:

Black powder-coated.
Screws and nuts electro zinc-plated.

Sample order:

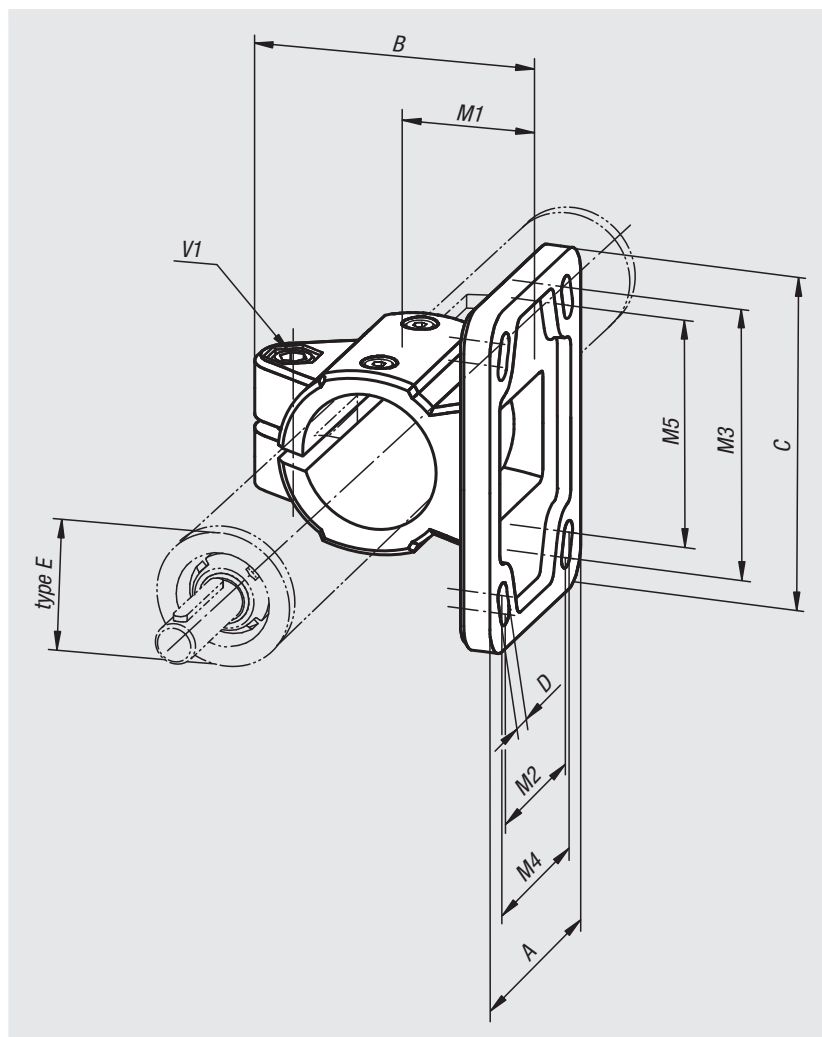
nIm 29130-50

Note:

* Elongated hole

On request:

Clamping levers for tightening.



Order No.	Type E	A	B	C	D	M1	M2	M3	M4	M5	V1
29130-18	18	37	42,5	50	5,5 (2x)	18	-	40	-	-	M6x16
29130-30	30	55	63	78	6,5* (2x)	30	-	60	-	53	M8x25
29130-40	40	80	87	105	8,5* (4x)	42	52	82	60	80	M10x30
29130-50	50	92	100	130	10,5* (4x)	50	60	100	62	98	M10x35

Linear actuator connector clamps, stainless steel

flange

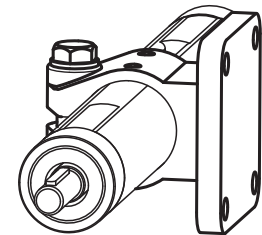
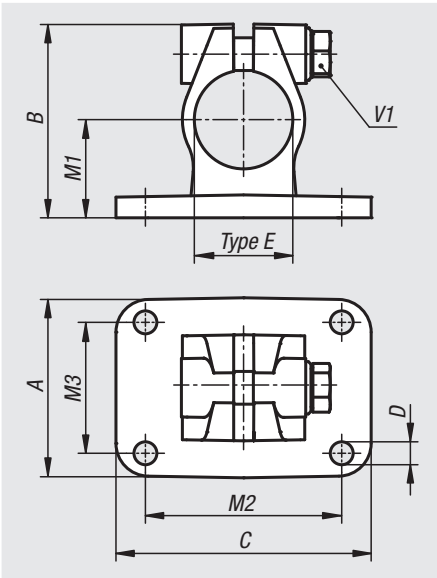


Material:
Stainless steel, investment cast 1.4308.
Screws, stainless steel A2.

Version:
Electropolished.

Sample order:
nlm 29130-130

On request:
Clamping levers for tightening.



Order No.	Type E	A	B	C	D	M1	M2	M3	V1
29130-130	30	55	59	78	7	30	60	40	M8x30
29130-140	40	80	80	80	9	42	60	60	M10x35

Linear actuator connector clamps

base



Material:

Cast aluminium.
DIN 7984 screws and DIN 985 nuts, steel.

Version:

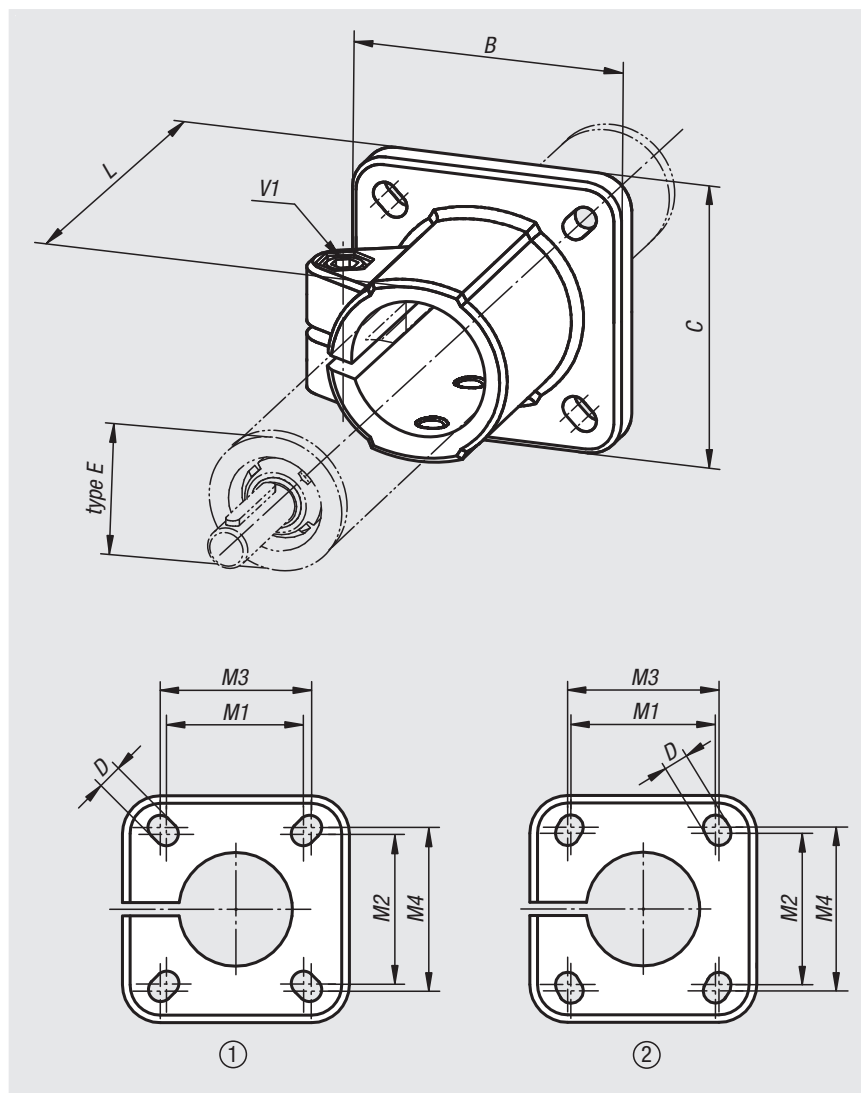
Black powder-coated.
Screws and nuts electro zinc-plated.

Sample order:

nIm 29135-30

On request:

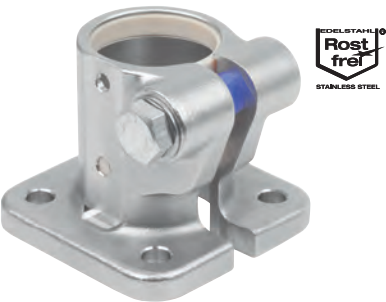
Clamping levers for tightening.



Order No.	hole arrangement	Type E	B	C	D	L	M1	M2	M3	M4	V1
29135-18	1	18	42	42	5,5	37	28	28	30	30	M6x20
29135-30	2	30	60	60	6,5	50	40	42	42	45	M8x25
29135-40	1	40	90	90	8,5	70	60	60	64	64	M10x30
29135-50	1	50	105	105	10,5	85	74	74	80	80	M10x35

Linear actuator connector clamps, stainless steel

base

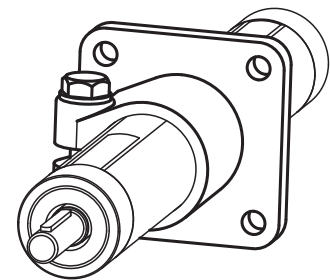
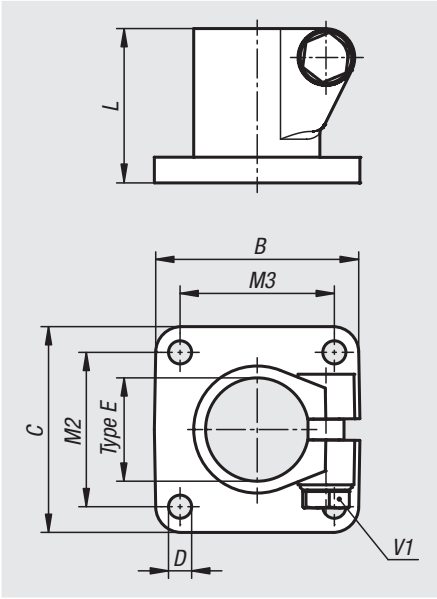


Material:
Stainless steel, investment cast 1.4308.
Screws, stainless steel A2.

Version:
Electropolished.

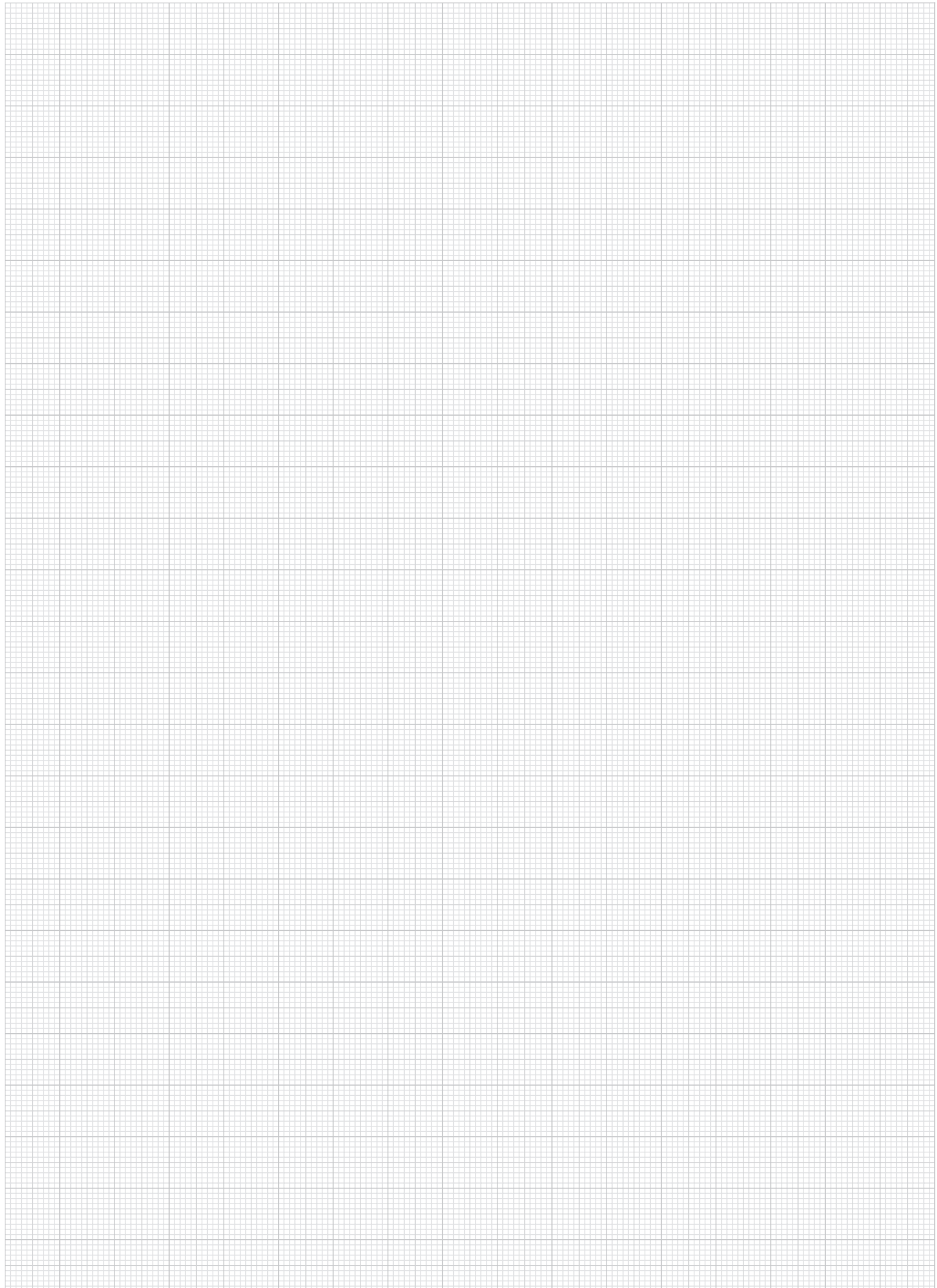
Sample order:
nlm 29135-130

On request:
Clamping levers for tightening.



Order No.	Type E	B	C	D	L	M2	M3	V1
29135-130	30	60	60	7	50	40	40	M8x30
29135-140	40	80	80	9	60	60	60	M10x35

Notes

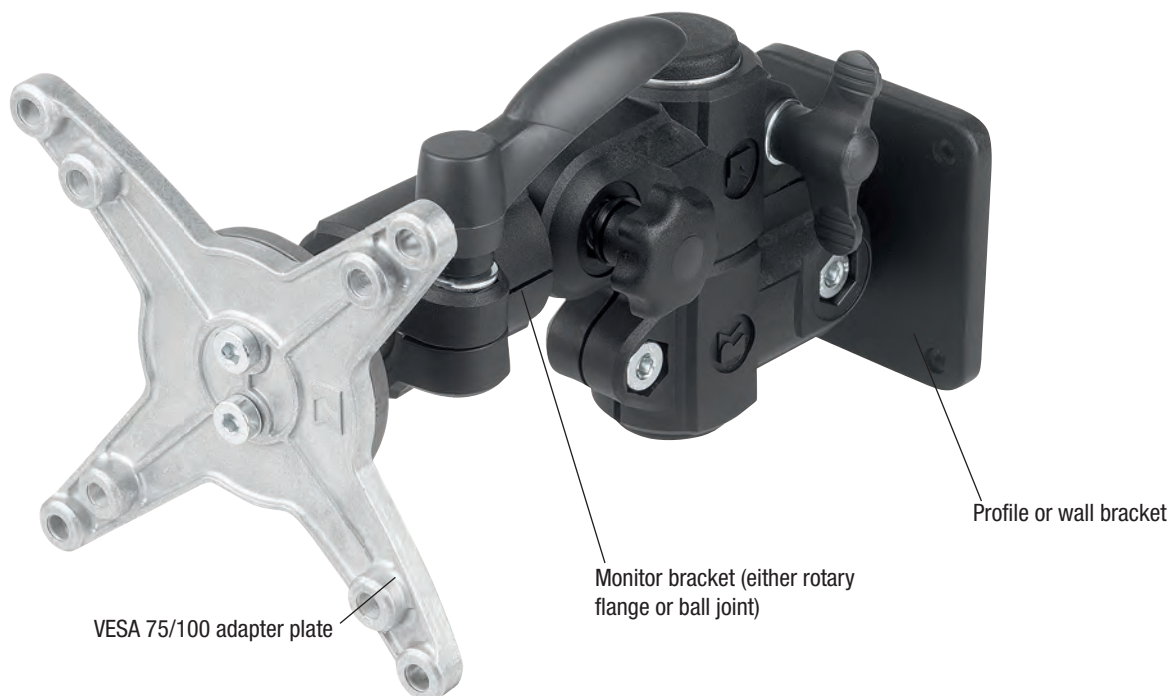


Technical information for monitor brackets

Universal brackets for monitors, touch panels and control units

Bracket with high load capacity for industrial monitors, control units, and touch panels. All movable parts can be adjusted separately from one another without tools using manual elements. The adjusted position is locked reliably even when subjected to vibrations.

A significant advantage of these brackets is the extensive flexibility of end device fastening dimensions and mounting possibilities. The monitor or control unit can be mounted using the round, aluminium fastening element or using a VESA standard 75/100 adapter plate i.e. with a 75 x 75 mm or 100 x 100 mm mounting hole pattern. This means that, in theory almost any housing can be easily attached without using any special elements. The monitor bracket can be installed using the tube clamp to any standard Ø30 mm tube, or with the profile bracket to the slot of any aluminium profile or with the wall bracket to any panel element or wall.



Characteristics

- High-strength materials guarantees permanent loads
- Device connection via universal or VESA adapter plate
- High working ergonomics through absolute freedom of movement
- Vibration resistant angle adjustment (locking in 15° increments)
- Connection to the slot of aluminium profiles or wall mounting

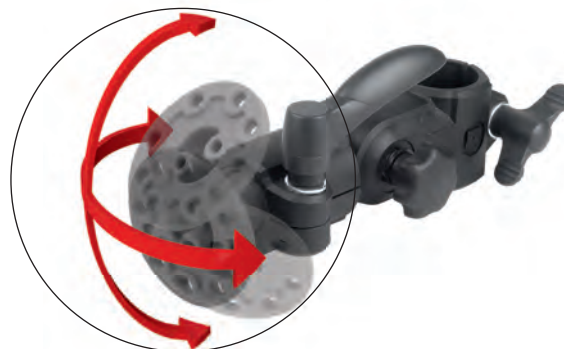
Monitor bracket rotary flange

Max. load 25kg (static),
90° rotatable



Monitor bracket ball joint

Max. load 10kg (static),
60° free swivelling



Monitor brackets


Material:

High-strength material mix of thermoplastic/aluminium.

Version:

Black/bright.

Sample order:

nln 29180-3001

Note:

We offer three different basic brackets for industrial monitors and touch panels:

Compact:

space-saving, with a swivel range of 60°. For loads up to 10 kg (static). With universal mounting plate. The basic bracket is suitable for mounting on tubes size Ø30 mm or 30x30 mm. By using the optional reducer sleeve 29040 they can also be mounted on other sized tubes (Ø20 and Ø25 mm or 20x20 and 25x25 mm).

With rotary flange:

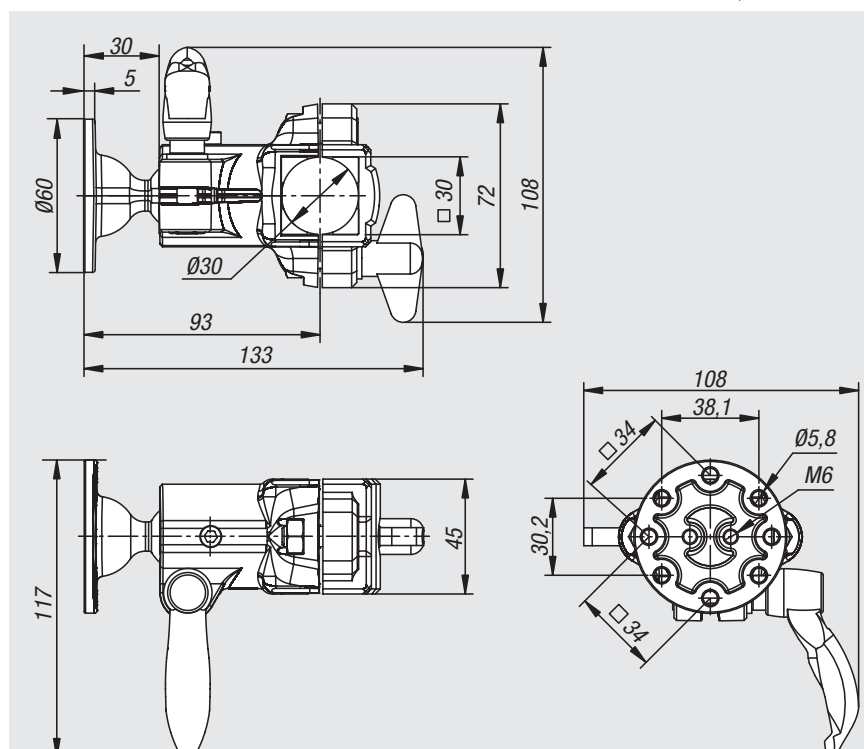
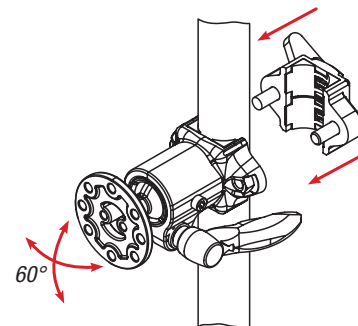
vibration-resistant, lockable monitor bracket with an angle adjustment of 90° in 15° increments. For monitors / control units up to 25 kg (static). With universal mounting plate. The basic bracket is suitable for mounting on tubes size Ø30 mm. By using the optional reducer sleeve 29042 they can also be mounted on other sized tubes (Ø20 and Ø25 mm or 20x20 mm).

With ball joint:

enables a swivel range of 60°. For loads up to 10 kg (static). With universal mounting plate. The basic bracket is suitable for mounting on tubes size Ø30 mm. By using the optional reducer sleeve 29042 they can also be mounted on other sized tubes (Ø20 and Ø25 mm or 20x20 mm).

Optional wall bracket, profile bracket, single/double support arms, tablet holder, keyboard tray or a VESA 50/75 or 75/100 connecting plate are available to offer various connections.

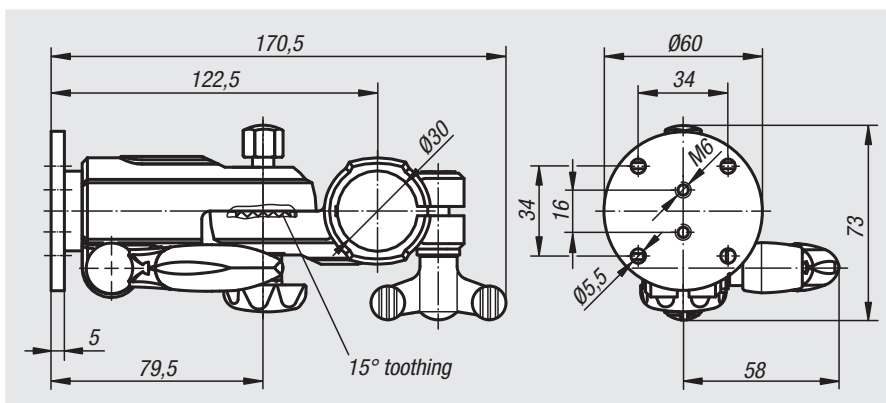
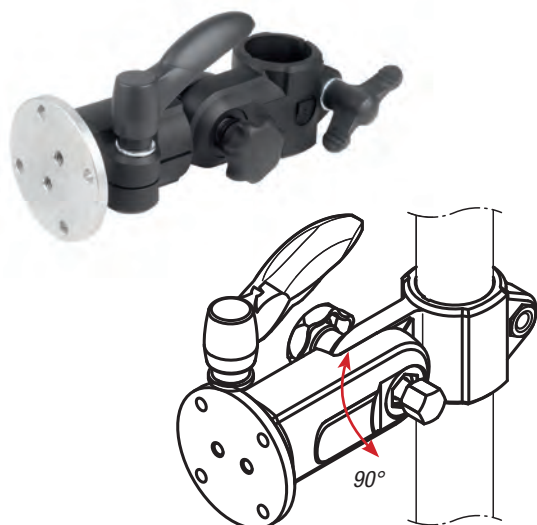
29180-3000



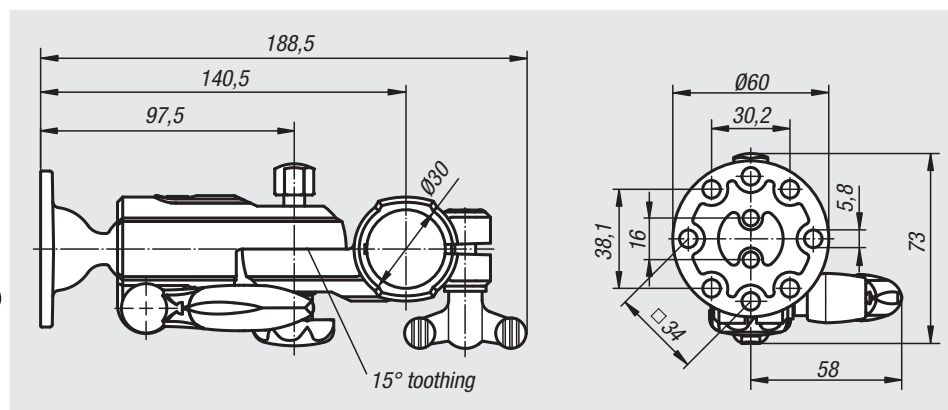
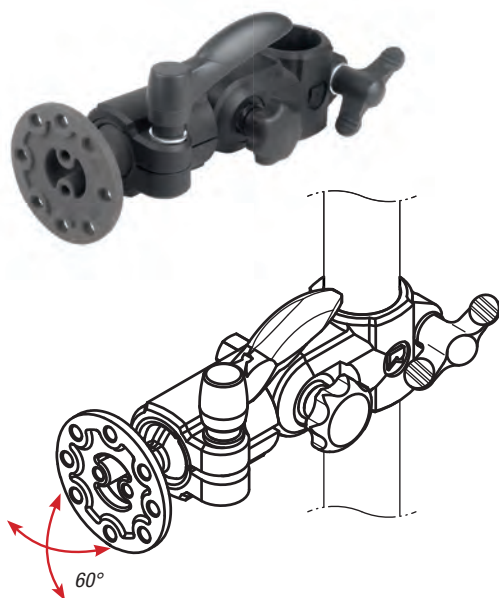
Order No.	Image	Version
29180-3000		compact
29180-3001		with rotary flange
29180-3002		with ball joint
29180-3003		wall bracket
29180-3004		profile bracket
29180-5075		vesa adapter plate
29180-75100		vesa adapter plate
29180-3010		support arm single
29180-3012		support arm double
29180-3014		support arm double
29180-3016		support arm telescopic
29180-3018		support arm telescopic
29180-3020		keyboard tray
29180-125200		tablet holder

Monitor brackets

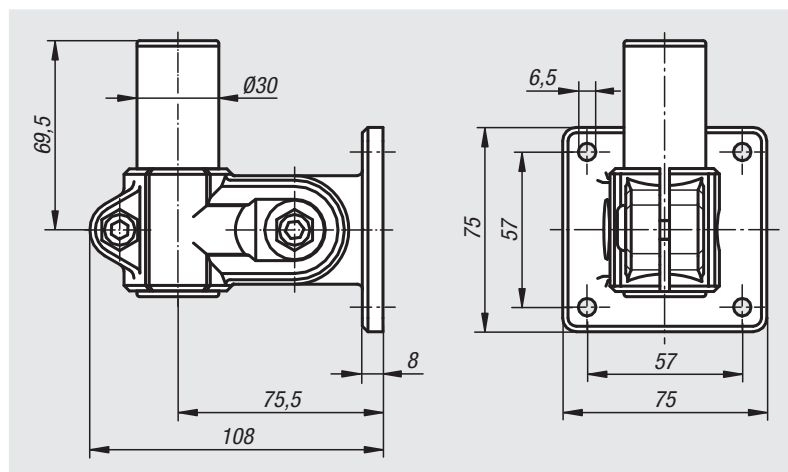
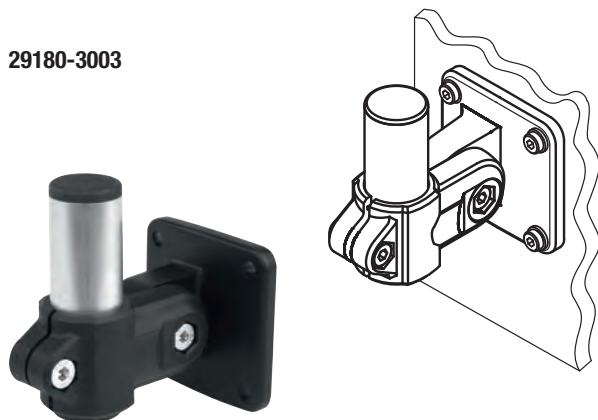
29180-3001



29180-3002

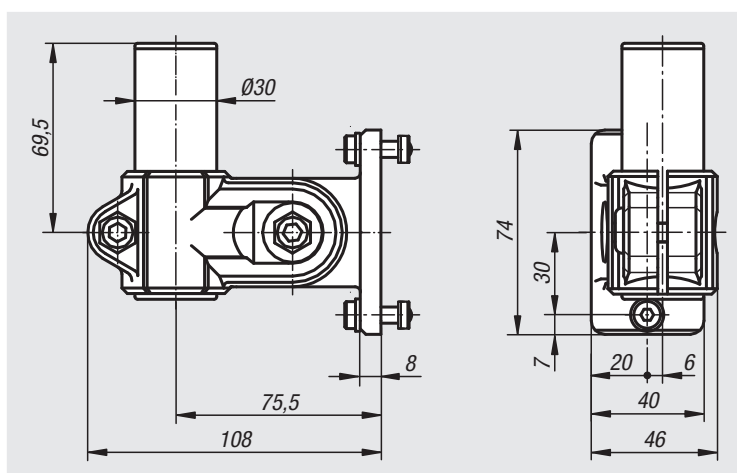
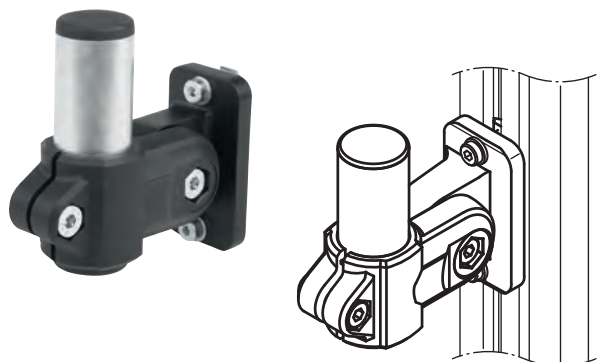


29180-3003

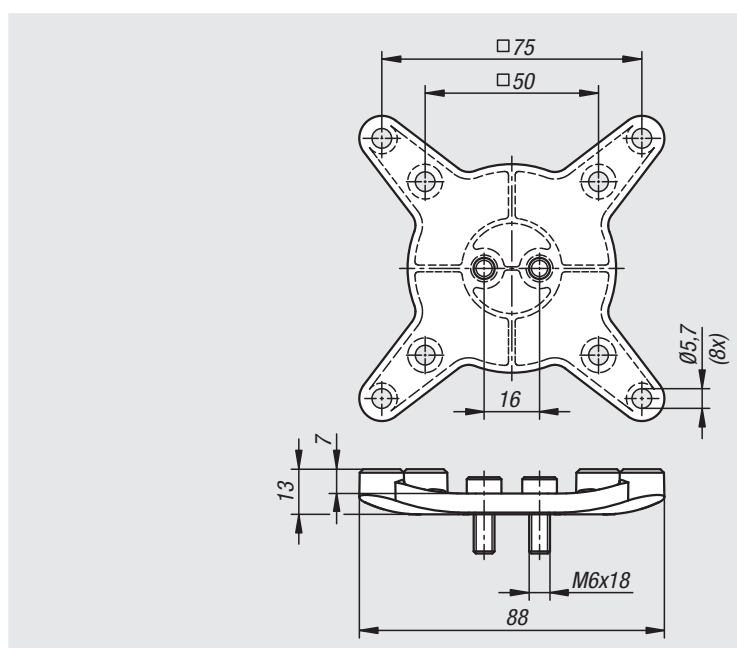
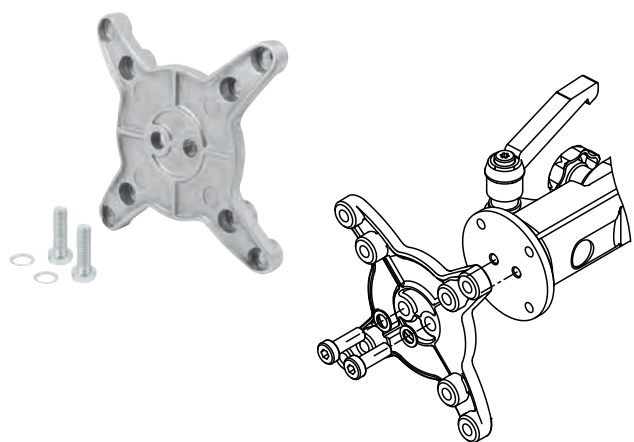


Monitor brackets

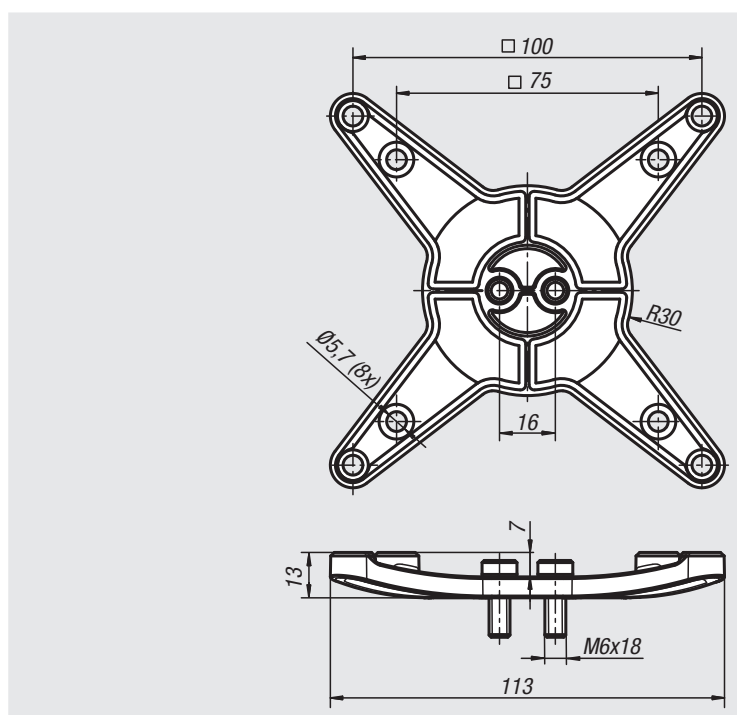
29180-3004



29180-5075

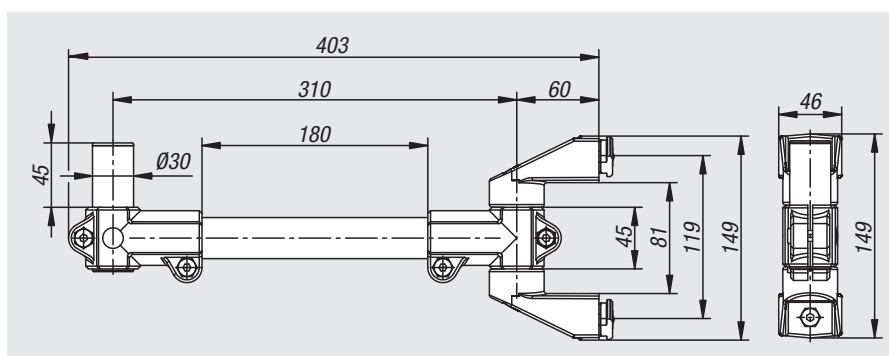
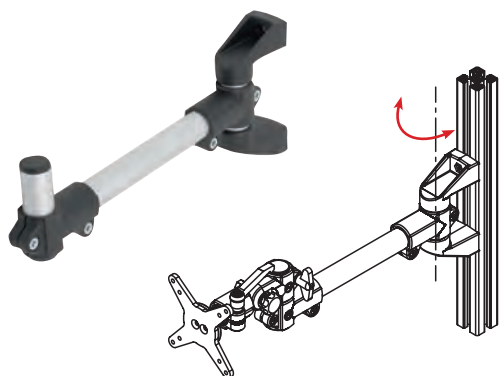


29180-75100

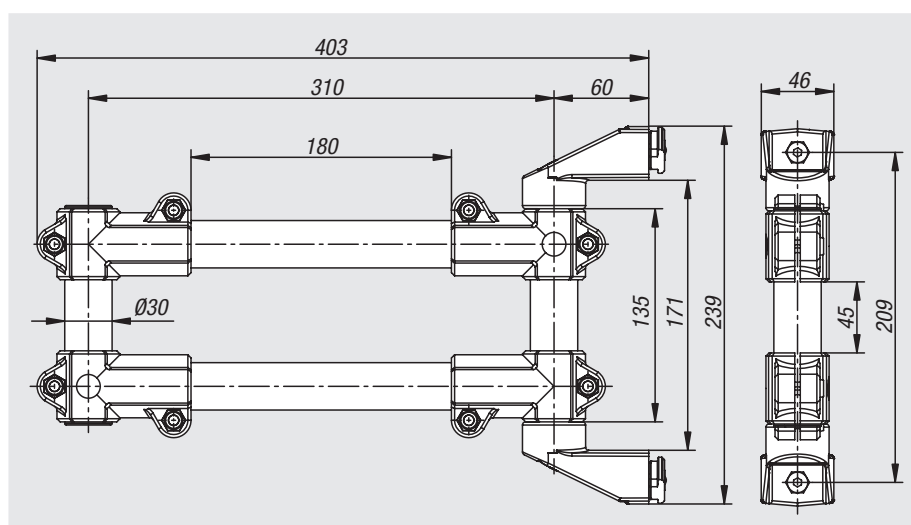
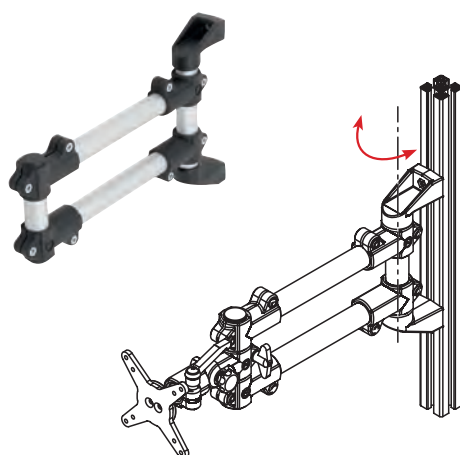


Monitor brackets

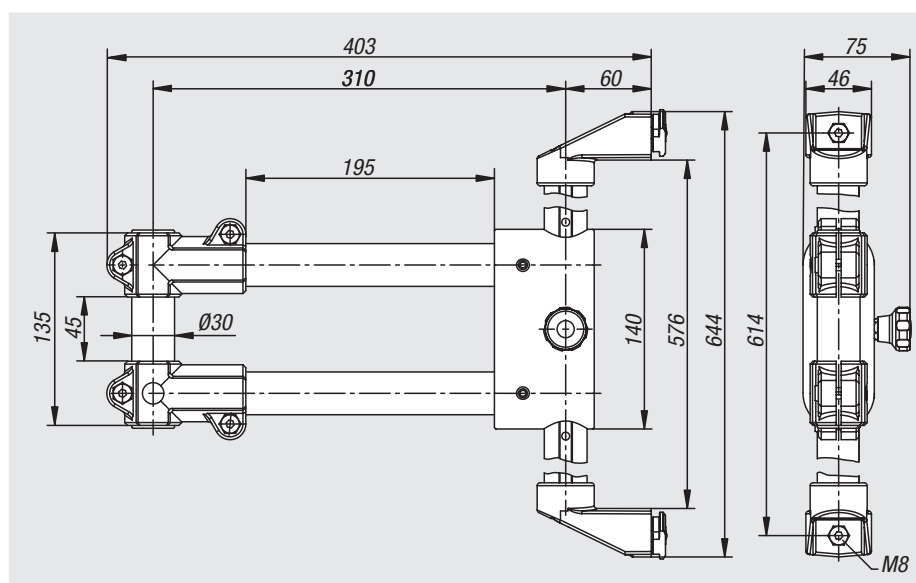
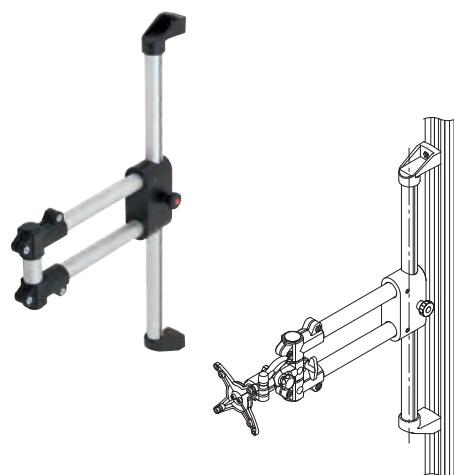
29180-3010



29180-3012

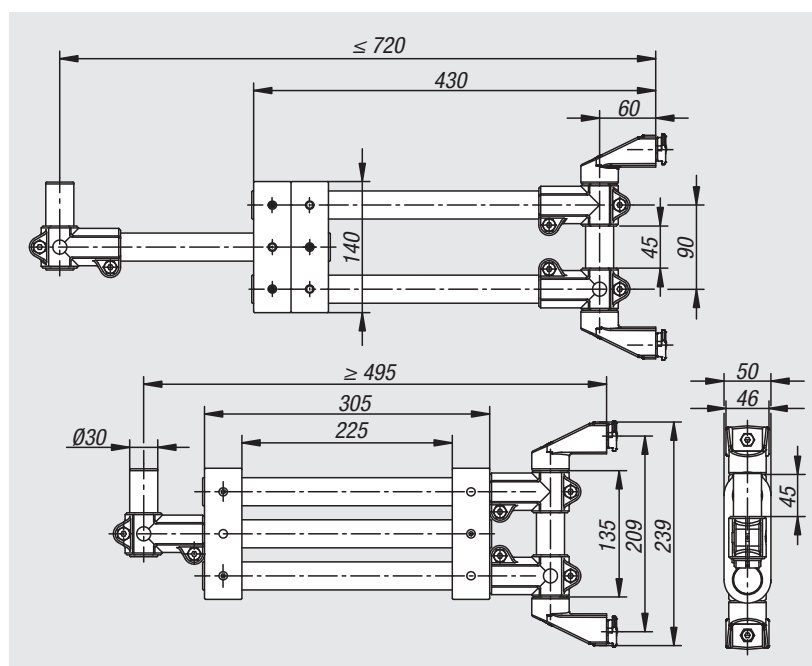
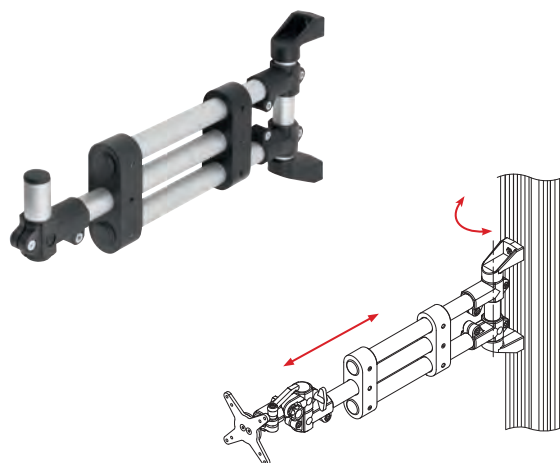


29180-3014

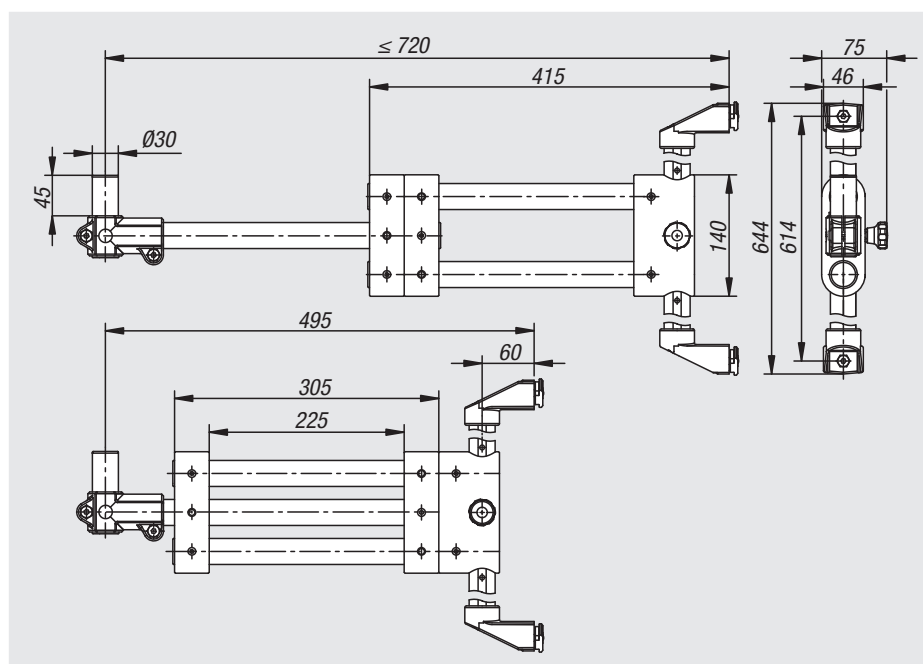
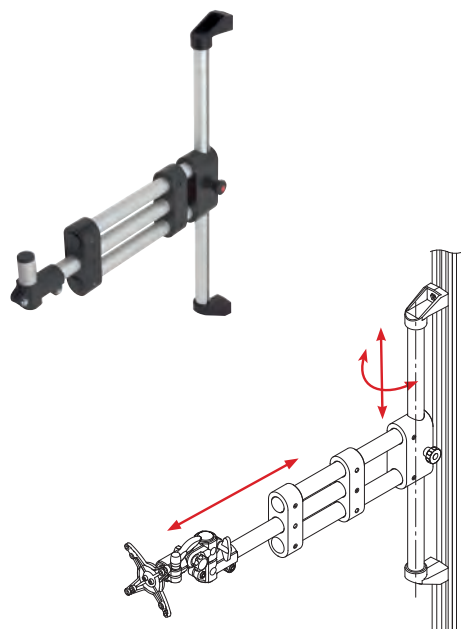


Monitor brackets

29180-3016

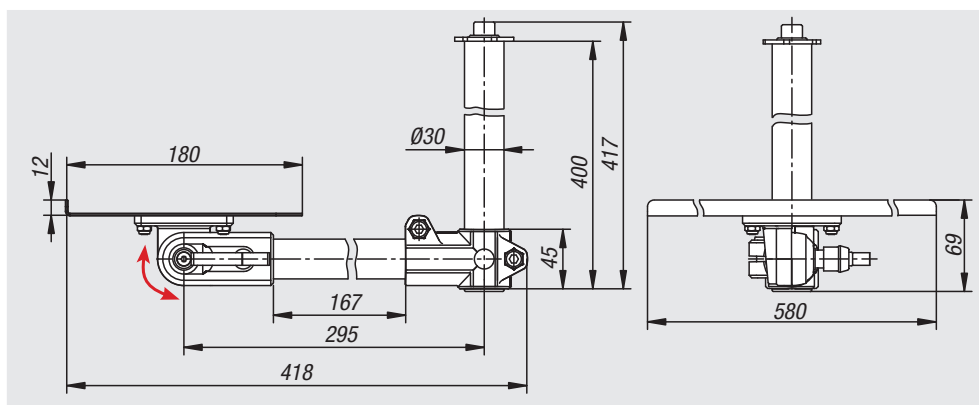
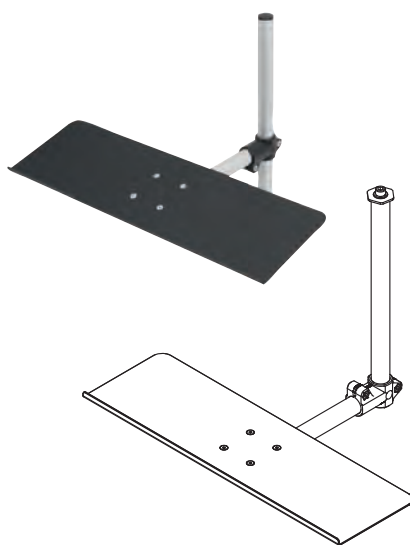


29180-3018

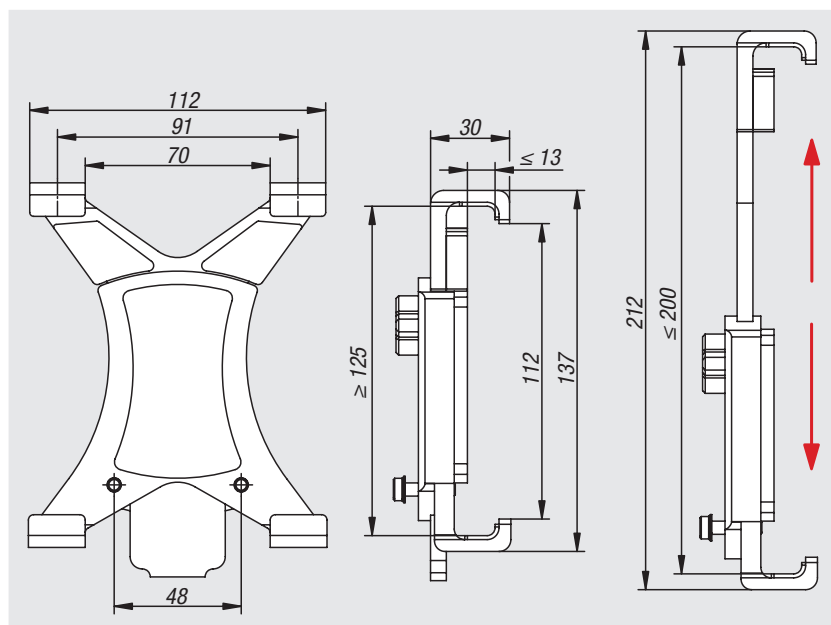
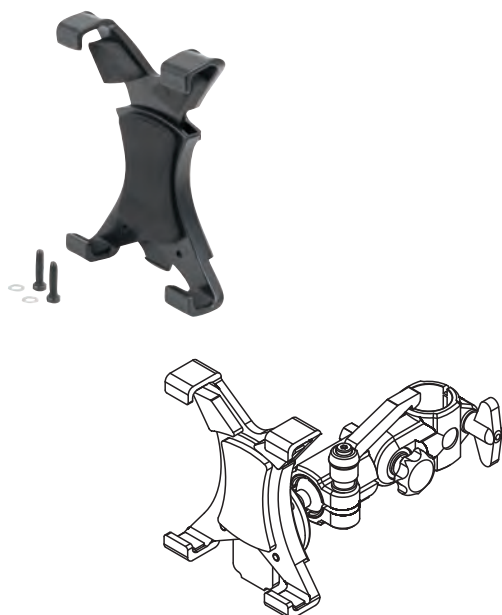


Monitor brackets

29180-3020



29180-125200



Column bases single


Material:

Aluminium EN AW-6060

Version:

Black anodised

Sample order:

n1m 29200-1122

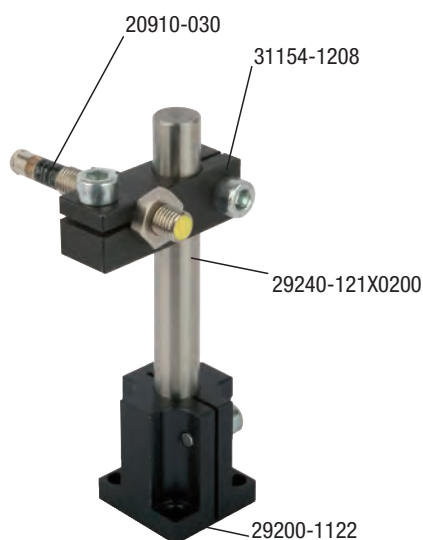
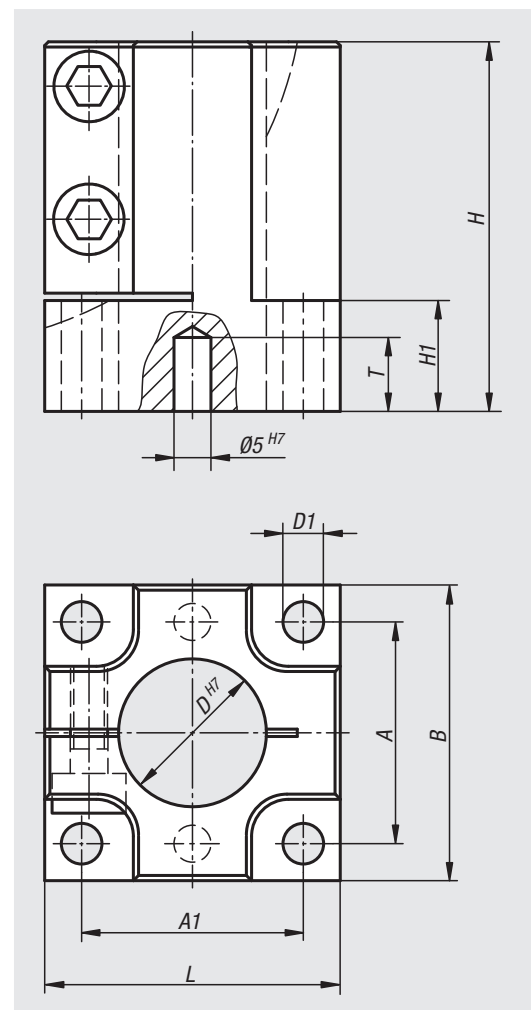
Note:

Single base for holding columns in four different sizes.
Machined contact faces with mounting and centring holes guarantee precise mounting of elements.

Drawing reference:

position tolerance of reamed holes: $\pm 0,01$

position tolerance of holes: $\pm 0,1$



Order No.	Size	A	A1	B	D	D1	H	H1	L	T
29200-1122	12	22	22	30	12	5,5	35	7	30	8
29200-1202	20	30	30	40	20	5,5	50	15	40	10
29200-1302	30	40	40	50	30	6,5	50	15	50	10
29200-1402	40	48	48	60	40	8,5	50	15	60	10

Column bases double

**Material:**

Aluminium EN AW-6060

Version:

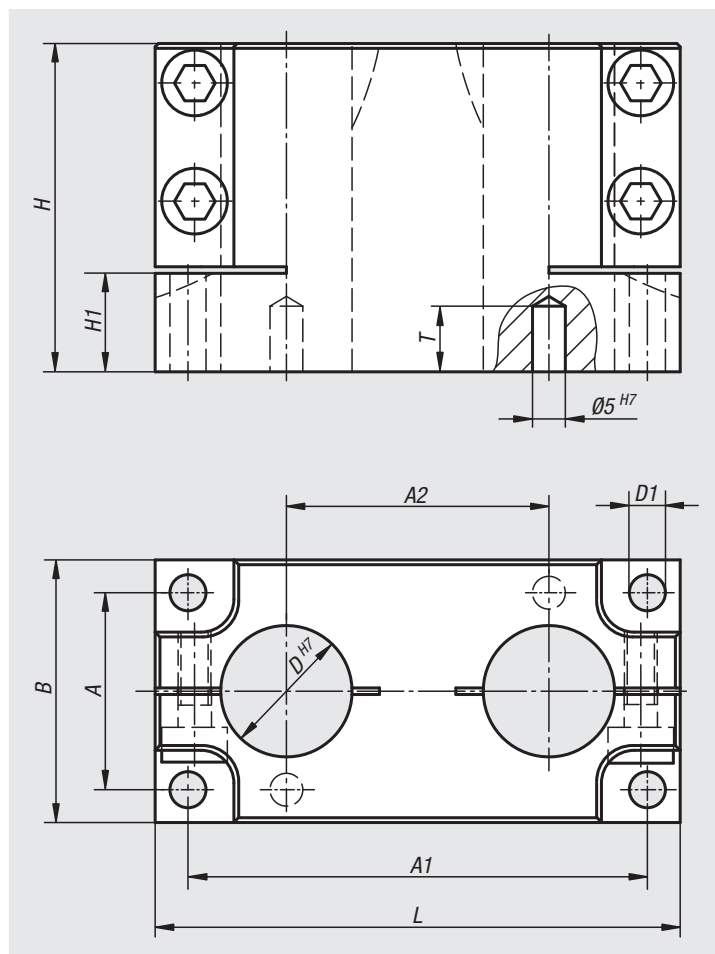
Black anodised

Sample order:

nlm 29205-2122

Note:

Double base for holding columns in four different sizes.
Machined contact faces with mounting and centring holes guarantee precise mounting of elements.

Drawing reference:position tolerance of reamed holes: $\pm 0,01$ position tolerance of holes: $\pm 0,1$ 

Order No.	Size	A	A1	A2	B	D	D1	H	H1	L	T
29205-2122	12	22	52	30	30	12	5,5	35	7	60	8
29205-2202	20	30	70	40	40	20	5,5	50	15	80	10
29205-2302	30	40	90	50	50	30	6,5	50	15	100	10
29205-2402	40	48	108	60	60	40	8,5	50	15	120	10

Column clamps double


Material:

Aluminium EN AW-6060

Version:

Black anodised

Sample order:

nln 29207-2122

Note:

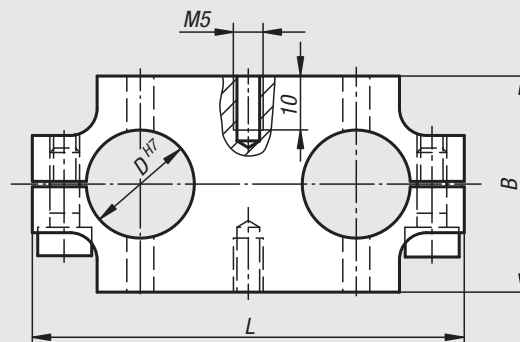
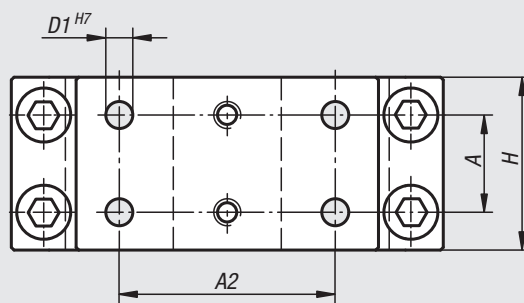
Double column clamps in four different sizes. Machined mounting faces with mounting and centring holes guarantee precise mounting of elements.

Drawing reference:

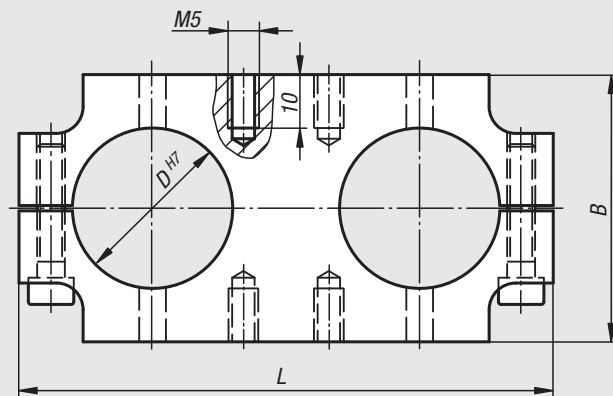
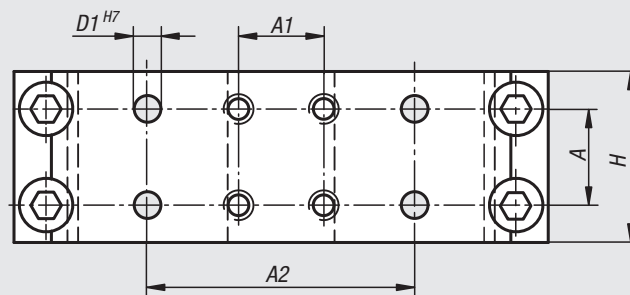
position tolerance of reamed holes: $\pm 0,01$

position tolerance of holes: $\pm 0,1$

29207-2122
29207-2202



29207-2302
29207-2402



Order No.	Size	A	A1	A2	B	D	D1	H	L
29207-2122	12	12	-	30	30	12	5	26	60
29207-2202	20	18	-	40	40	20	5	32	80
29207-2302	30	18	16	50	50	30	5	32	100
29207-2402	40	18	26	60	60	40	6	32	120

Adjustment units


Material:

Aluminium EN AW-6060

Version:

Black anodised

Sample order:

nIm 29210-122

Note:

Units for precise adjustment of components in the X-Y axis. Allows compensation for machining tolerances in mechanical assemblies. Matches our single and double bases. The uniform hole pattern of the respective sizes allows the adjustment units to be fitted under the base at a later date.

Adjustment range: X: ± 3 mm

Adjustment range: Y: ± 3 mm

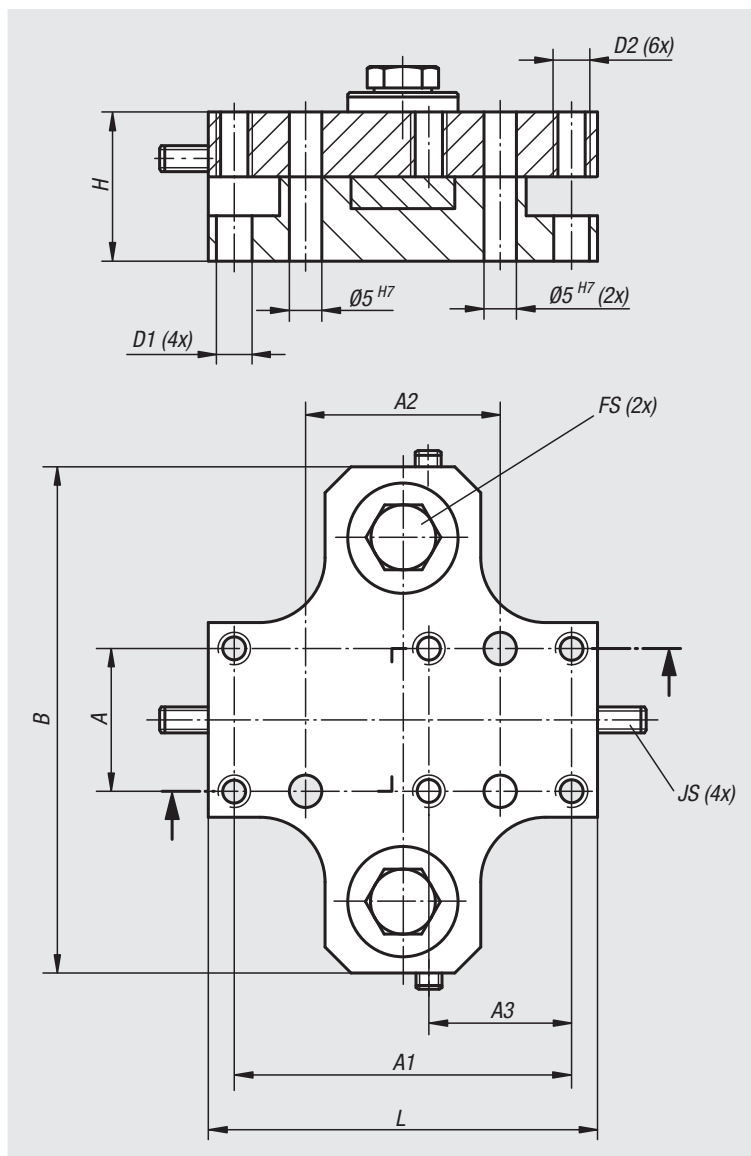
Drawing reference:

position tolerance of reamed holes: $\pm 0,01$

position tolerance of holes: $\pm 0,1$

FS = lock screw (2x)

JS = setscrew (4x)



Order No.	Size	A	A1	A2	A3	B	D1	D2	H	L
29210-122	12	22	52	30	22	78	5,5	M5	23	60
29210-202	20	30	70	40	30	88	5,5	M5	23	80
29210-302	30	40	90	50	40	110	6,5	M6	32	100
29210-402	40	48	108	60	48	120	8,5	M8	32	120

Column shaft collars


Material:

Aluminium EN AW-6060

Version:

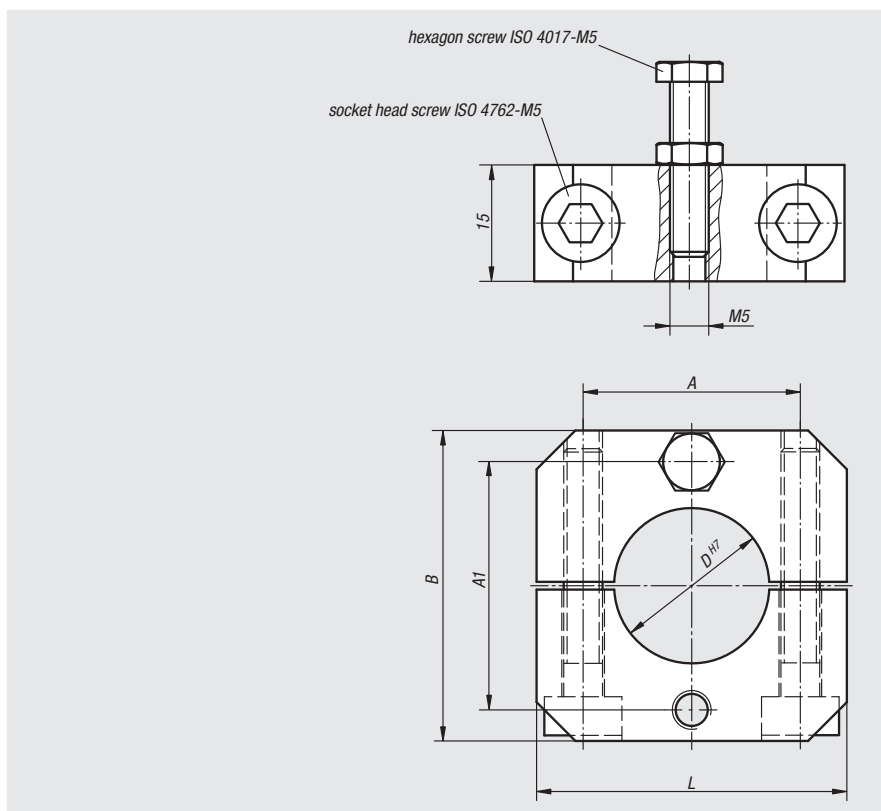
Black anodised

Sample order:

nIm 29215-122

Note:

These shaft collars enable column bases and clamps to be precisely adjusted in the height and so guarantee the exact positioning of elements.



Order No.	Size	A	A1	B	D	L
29215-122	12	19	22	30	12	30
29215-202	20	28	32	40	20	40
29215-302	30	38	42	50	30	50
29215-402	40	48	52	60	40	60

Rods stainless steel

**Material:**

Ø12 and Ø20 stainless steel 1.4034.

Ø30 and Ø40 stainless steel 1.4305.

Version:

Bright, ground.

Sample order:

nlm 29240-121X0100 (include length L)

Note:

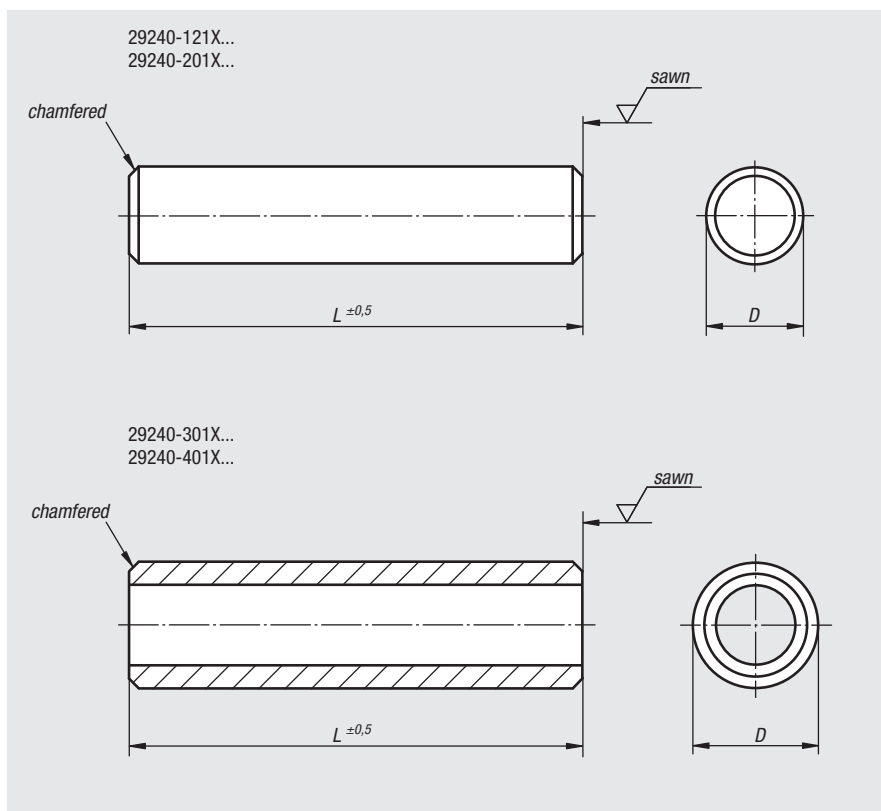
These ground stainless steel columns enable the versatile construction of many assembly configurations with only a few standard components.

Ø12 and Ø20 = solid bar.

Ø30 and Ø40 = tubes (wall thickness 5 mm).

On request:

Other lengths.



Order No.	Item	Size	D	L
29240-121X	Rod	12	12	100/200/300/400/500
29240-201X	Rod	20	20	100/200/300/400/500
29240-301X	Round Tube	30	30	100/200/300/400/500
29240-401X	Round Tube	40	40	100/200/300/400/500

