

Clamping Technology | Standard Elements | Operating Parts



100%
VISION
SINCE 1919

NEW PRODUCTS

100% INNOVATION

Quartal III / 2020

TRUST IN KIPP

Manufacturing expertise with family tradition



For 100 years HEINRICH KIPP WERK has been a quality partner to industry. We offer a comprehensive product spectrum with more than 45,000 elements in the core sectors clamping technology, standard elements and operating parts.

We produce in our machine shop located in Germany. This guarantees rapid response times and short routes. Customers appreciate our production resources and extensive development experience.

Reliability. Longevity. Sustainability. This is what our owner managed company has stood for from the very beginning.



N. Kipp *Heinrich Kipp*
Nicolas Kipp Heinrich Kipp

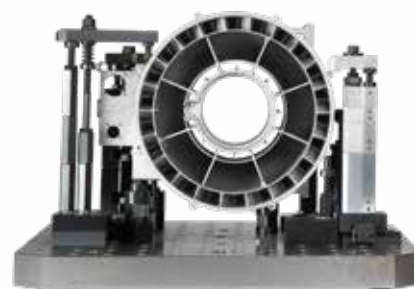




PRODUCT SPECTRUM



OPERATING PARTS | STANDARD ELEMENTS



CLAMPING TECHNOLOGY



SPECIAL SOLUTIONS



K1527

Pull handles, plastic

with electronic switch function



Material:

Plastic PA6.

Version:

Fine texture, black.

Sample order:

K1527.11601

Note:

Push button with red or green LED.

Form A:

Connector with 8 pin plug in the screw face of the grip leg (connector with 10 m cable available as accessory. Please order separately.).

Form B:

Connection cable, 5 m long, attached to the screw face of the grip leg.

Rating: IP65 for Form A (when connector is screwed on).

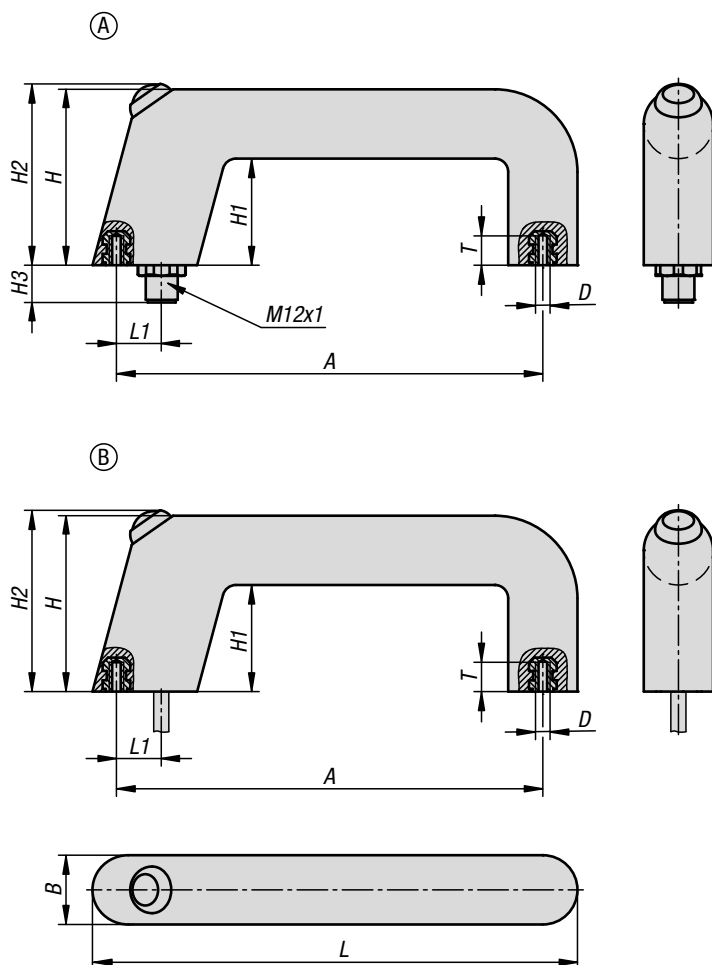
Assembly:

From the rear.

Drawing reference:

Form A: with plug

Form B: with cable

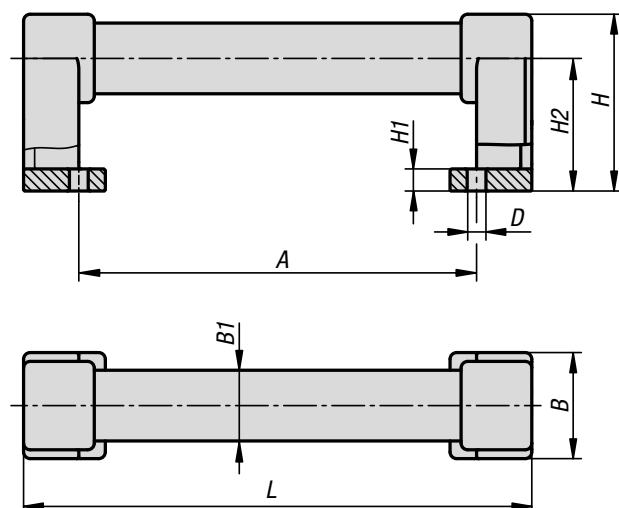


KIPP Pull handles, plastic with electronic switch function

Order No.	Form	Component colour	A	B	D	H	H1	H2 max.	H3	L	L1	T	Load capacity N
K1527.11601	A	green	160	26	M6	66	40	70	10	182	17	10	1000
K1527.11602	A	red	160	26	M6	66	40	70	10	182	17	10	1000
K1527.21601	B	green	160	26	M6	66	40	70	-	182	17	10	1000
K1527.21602	B	red	160	26	M6	66	40	70	-	182	17	10	1000

K1528

Tubular handles, plastic



Material:

Grip legs PA6 plastic.

Grip tube PVC plastic.

Version:

Grip legs fine textured, black.

Grip tube turned, black.

Sample order:

K1528.180

Note:

Optically matching K1529 and K1530.

Assembly:

From the front.

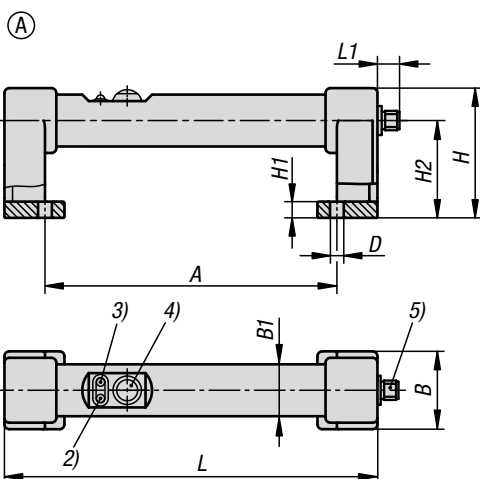
KIPP Tubular handles, plastic

Order No.	A	B	B1	D	H	H1	H2	L	Load capacity N
K1528.180	180	48	32	8,5	80	10	60	230	1000

K1529

Tubular handles, plastic

with electronic switch function



Material:

Grip legs PA6 plastic.
Grip tube PVC plastic.

Version:

Grip legs fine textured, black.
Grip tube turned, black.

Sample order:

K1529.180

Note:

Form A:
Push button (changer)
2 LED'S
Plug 8 pin

Form B:
Emergency stop (2 opener)
Push button (changer)
2 LED'S
Plug 12 pin

Plug mounted in the grip leg from the lower tube axis.
Connector with 10 m cable available as accessory.
Please order separately.

Rating: IP65 when connector is screwed on.

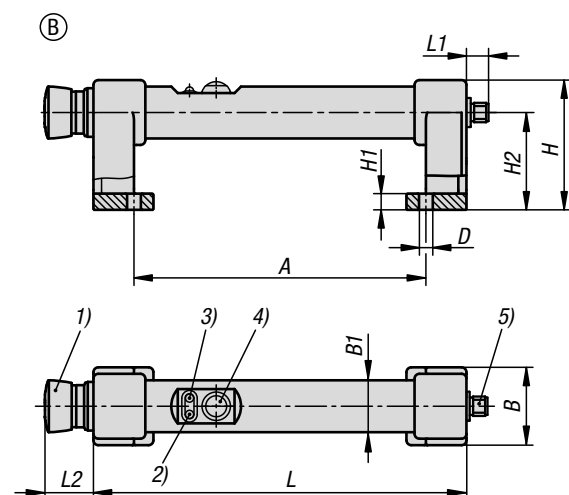
Optically matching tubular handle without electronic switch function (K1528) available.

Assembly:

From the front.

Drawing reference:

- 1) Emergency stop
- 2) Red LED
- 3) Green LED
- 4) Push button
- 5) Connector, M12x1



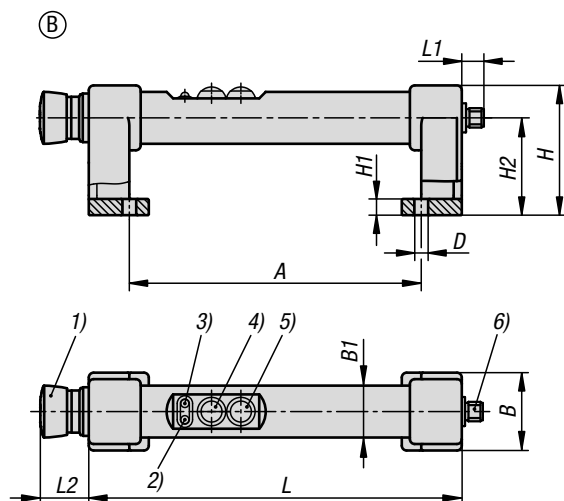
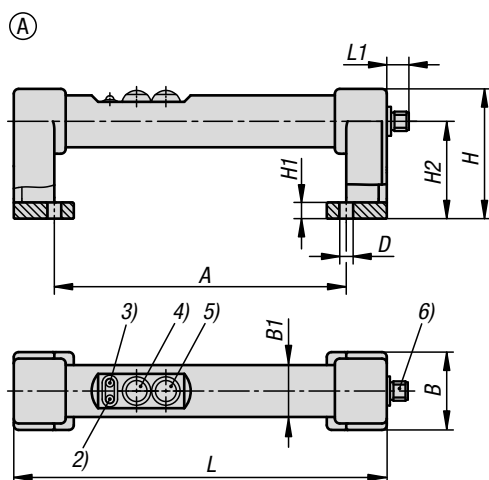
KIPP Tubular handles, plastic with electronic switch function

Order No.	Form	A	B	B1	D	H	H1	H2	L	L1	L2	Load capacity N
K1529.180	A	180	48	32	8,5	80	10	60	230	13	-	1000
K1529.1180	B	180	48	32	8,5	80	10	60	230	13	30	1000

K1530

Tubular handles, plastic

with electronic switch function



Material:

Grip legs PA6 plastic.
Grip tube PVC plastic.

Version:

Grip legs fine textured, black.
Grip tube turned, black.

Sample order:

K1530.180

Note:

Form A:
Push button 1 (changer)
Push button 2 (closer)
2 LED'S
Plug 8 pin

Form B:
Emergency stop (2 opener)
Push button 1 (changer)
Push button 2 (closer)
2 LED'S
Plug 12 pin

Plug mounted in the grip leg from the lower tube axis.
Connector with 10 m cable available as accessory.
Please order separately.

Rating: IP65 when connector is screwed on.

Optically matching tubular handle without electronic switch function (K1528) available.

Assembly:

From the front.

Drawing reference:

- 1) Emergency stop
- 2) Red LED
- 3) Green LED
- 4) Push button 1
- 5) Push button 2
- 6) Connector, M12x1

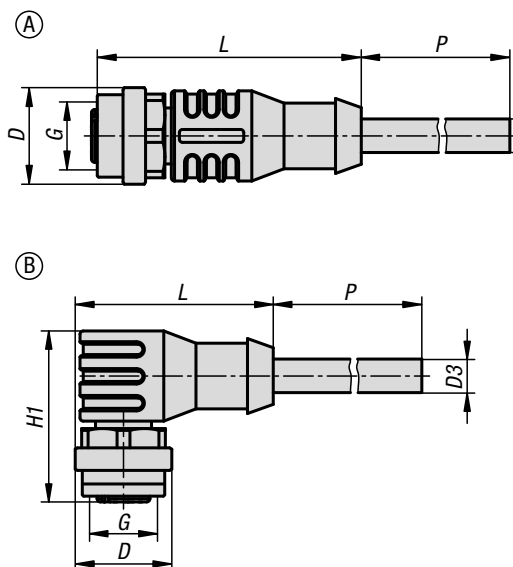
KIPP Tubular handles, plastic with electronic switch function

Order No.	Form	A	B	B1	D	H	H1	H2	L	L1	L2	Load capacity N
K1530.180	A	180	48	32	8,5	80	10	60	230	13	-	1000
K1530.1180	B	180	48	32	8,5	80	10	60	230	13	30	1000

K1498

Connectors

with screw fitting



Drawing reference:

8 pin:

- 1) White (WH)
- 2) Brown (BN)
- 3) Green (GN)
- 4) Yellow (YE)
- 5) Grey (GY)
- 6) Pink (PK)
- 7) Blue (BU)
- 8) Red (RD)

12 pin:

- 1) Brown (BN)
- 2) Blue (BU)
- 3) White (WH)
- 4) Green (GN)
- 5) Pink (PK)
- 6) Yellow (YE)
- 7) Black (BK)
- 8) Grey (GY)
- 9) Red (RD)
- 10) Violet (VT)
- 11) Grey-Pink (GY/PK)
- 12) Red-Blue (RD/BU)

Material:

Cable sheath and housing PVC.

Version:

Bush (female)
Voltage: Ue 30 V
Current: Ie 2 A
No. of pins: 8 or 12
No. of wires: 8 or 12
Rating: IP 67
Grip body: black
Cable: grey

Sample order:

K1498.1208X2500

Note:

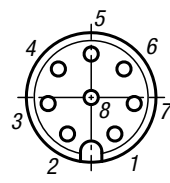
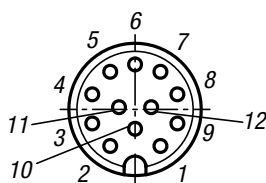
Connector with screw lock.
Connector moulded to cable.
Wires colour coded acc. to DIN 47100.
Coding A.
Limited dragchain compatibility.
Recommended tightening torque: 1.0 Nm.

Temperature range:

Moving: 0 °C to +80 °C
Fixed: -25 °C to +80 °C

Features:

Form A: bush straight
Form B: bush angled

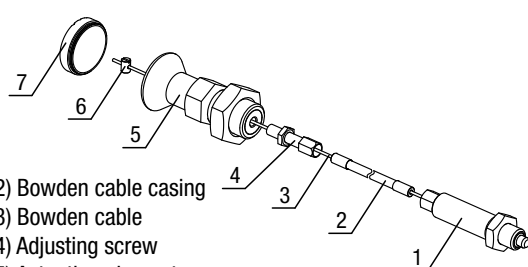
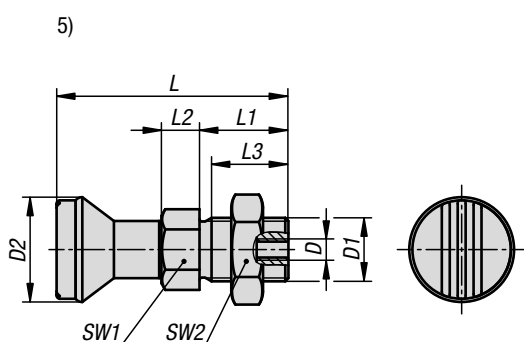
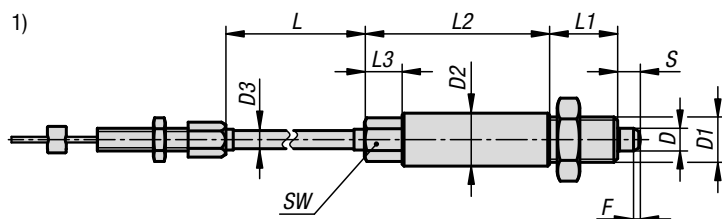
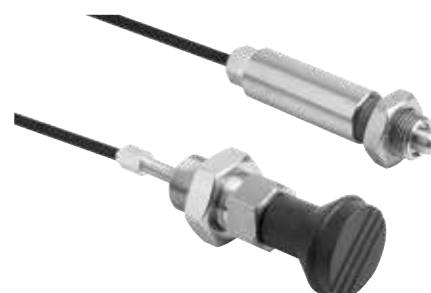


KIPP Connectors with screw fitting

Order No.	Form	Type	D	D3	G	H1	L	P
K1498.1208X2500	A	8-pin	14,5	6	M12x1	-	41,5	2500
K1498.1208X5000	A	8-pin	14,5	6	M12x1	-	41,5	5000
K1498.1208X10000	A	8-pin	14,5	6	M12x1	-	41,5	10000
K1498.1212X10000	A	12-pin	15	6	M12x1	-	41,9	10000
K1498.11208X10000	B	8-pin	15	6	M12x1	26,4	39	10000
K1498.11212X10000	B	12-pin	15	6	M12x1	26,4	39	10000

Indexing plunger, stainless steel

with remote actuation



- 2) Bowden cable casing
- 3) Bowden cable
- 4) Adjusting screw
- 5) Actuating element
- 6) Screw nipple
- 7) Cover

Indexing plungers are used where it is necessary to prevent changes of position due to lateral forces. Some examples of this are for length, height and position locking in machine, furniture and special vehicle construction.

Indexing plungers with remote actuation are used where inaccessible assembly spaces are making it difficult to operate, or where remote actuation is required for ergonomic or safety reasons.

The indexing plunger is connected to the operator side by a Bowden cable. The combination of indexing plunger and actuating element forms a complete system which can be used for many types of application.

As an alternative to the actuating element, the supplied screw nipple (Ø5 x 7 mm) can be used to integrate an individual actuating element into the system.

The Bowden cable is available in various lengths. To ensure an exact fit in the application concerned, the Bowden cable can be shortened as required when installing.

Corrosion protection is provided by selecting a suitable material for coating application. The wire cable or cable casing can be replaced easily if required.

Material:

Indexing plunger and actuating element, stainless steel.

Mushroom grip in thermoplastic.

Wire cable in stainless steel.

Cable casing made of steel wire with inner and outer plastic sheathing.

End sleeves, adjusting screws and screw nipples made of brass.

Version:

Indexing pin, hardened, ground and bright.

Bowden cable casing, black.

Mushroom grip, thermoplastic dark grey.

Plastic cover, thermoplastic in black, grey, red or yellow.

Sample order:

K1502.02206X1000 (include length L)

Note for ordering:

Indexing plungers with remote actuation and actuating element must be ordered separately.



Indexing plunger, stainless steel

with remote actuation

Note:

When installing the Bowden cables, the following points should be noted:

The length of the free end of the cable can change due to the layout angle, bending radius and load factors. So, after laying the Bowden cable, the length of the counter-bearing (casing) must be adjusted using the adjusting screw supplied. The adjusting screw is also used to set the pretension in the Bowden cable system. When laying the cable, particular care must be taken to ensure that the bending radius is not below the minimum value, which in this case is $R = 65 \text{ mm}$. A radius which is too narrow can lead to increased wear and higher friction.

Also avoid letting the bending radius briefly go below the minimum value when installing, as this can cause damage to the casing. Also, the casing is designed only to support pressure forces. If pulled too sharply, the inner coil will be stretched and permanently damaged.

On request:

Special versions.

Supplied with:

Indexing plunger with remote actuation:

Indexing plunger with preassembled cable, casing, end sleeve, adjusting screw M6 x 34 mm and screw nipple Ø5 x 7 mm.

Actuating element:

Actuating element with plastic cover.

Accessories:

Hexagon nuts K0700.

Mounting brackets K0638.

Spacer rings K0665.

Positioning bushes K1290.

Actuating element K1502.12420.

Drawing reference:

1) Indexing plunger

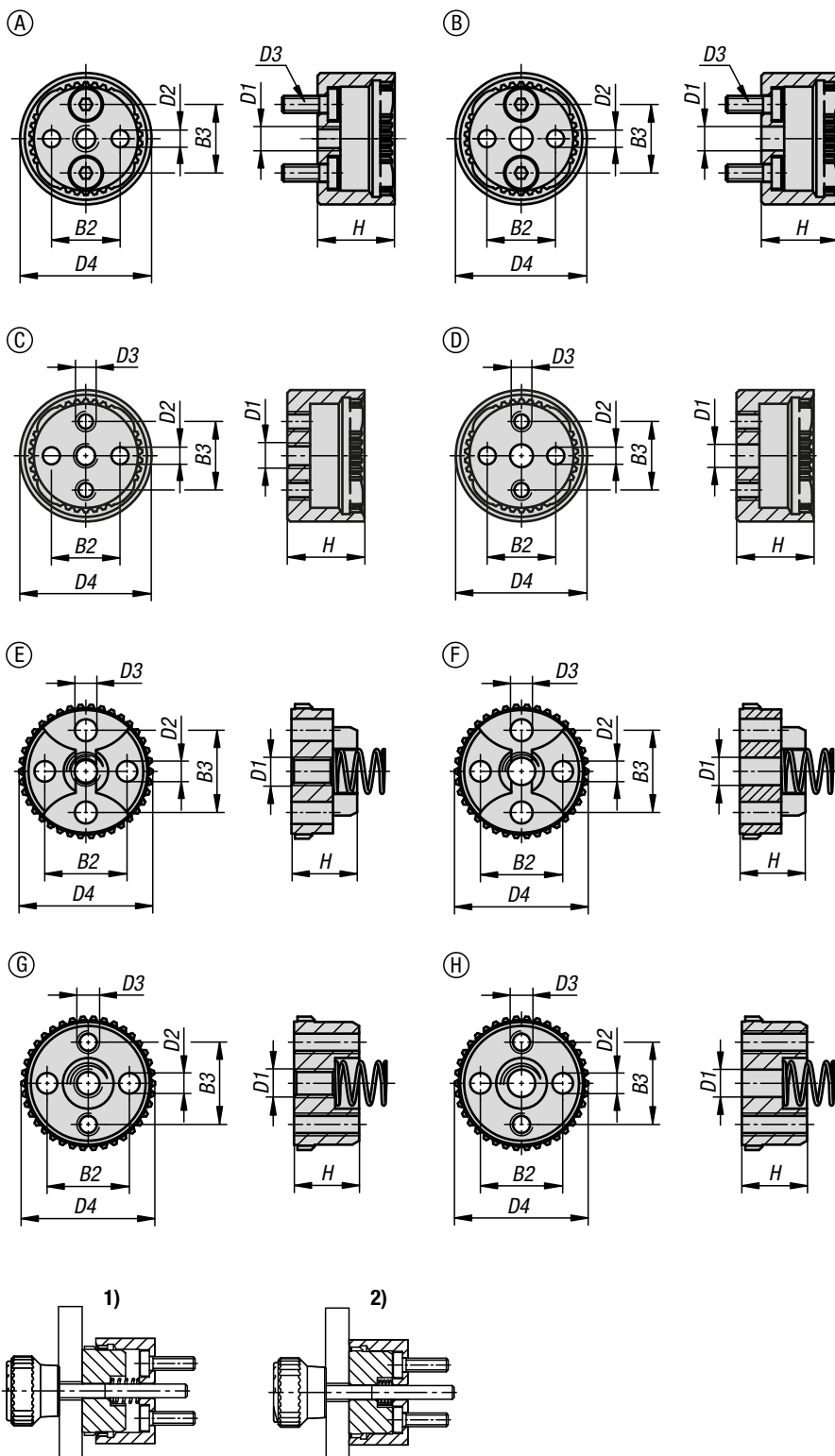
KIPP Indexing plunger, stainless steel with remote actuation

Order No.	D	D1	D2	D3	L	L1	L2	L3	Travel S	SW	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1502.02206X	6	M12x1,5	14	5	1000/3000/5000	18	49	10	6	10	1,8	6	14
K1502.02308X	8	M16x1,5	19	5	1000/3000/5000	23	59	10	8	13	2,3	15	35
K1502.02410X	10	M20x1,5	23	5	1000/3000/5000	24	65	10	10	16	2,8	15	34
K1502.02412X	12	M20x1,5	23	5	1000/3000/5000	26	65	10	12	16	2,8	15	39

KIPP Actuating elements

Order No.	Colour Cap	Internal thread D	D1	D2	L	L1	L2	L3	SW1	SW2
K1502.12420	black grey RAL 7021	M6	M20x1,5	33	73	28	12	25	22	30
K1502.124205	light grey RAL 7035	M6	M20x1,5	33	73	28	12	25	22	30
K1502.124206	traffic red RAL 3020	M6	M20x1,5	33	73	28	12	25	22	30
K1502.124207	rape yellow RAL 1021	M6	M20x1,5	33	73	28	12	25	22	30

Detent elements steel or stainless steel



Ratchet elements are used to connect two components together in any angular position with a positive fit. The ratchet elements with internal tooting (Forms A–D) can be combined with the ratchet elements with external tooting (Forms E–H) in any way depending on the application and installation possibilities. The springs mean that a new angular position can be quickly implemented.

Material:

Ratchet element steel 1.0718 or stainless steel 1.4305.
Spring stainless steel 1.4310.
Cap screws steel or stainless steel A 2.

Version:

Ratchet element black oxidised steel or bright stainless steel.
Spring bright.
Cap screw blackened steel grade 8.8 or bright A 2-70 stainless steel.

Sample order:

K1446.12338

Note for ordering:

2 cap screws M3x8 or M5x10 are supplied with the internal toothed ratchet elements Forms A and B.
A stainless steel spring is supplied with the external toothed ratchet elements Forms E to H.

Note:

Use DIN 7984 low headed cap screws for fastening the Form A and B ratchet elements.

Function:

The ratchet elements are used for rotary adjustment of components. Fastening options can be arranged according to the application.

Accessories:

DIN 912/DIN EN ISO 4762 cap screws
DIN 6912 cap screws

Drawing reference:

Form A: internal tooting, centre tapped hole, 2x counterbores for low headed cap screws, 2x reamed holes
Form B: internal tooting, centre through bore, 2x counterbores for low headed cap screws, 2x reamed holes
Form C: internal tooting, centre tapped hole, 2x tapped holes for fastening, 2x reamed holes
Form D: internal tooting, centre through bore, 2x tapped holes for fastening, 2x reamed holes
Form E: external tooting, centre tapped hole, 2x counterbores for cap screws, 2x reamed holes
Form F: external tooting, centre through bore, 2x counterbores for cap screws, 2x reamed holes
Form G: external tooting, centre tapped hole, 2x tapped holes, 2x reamed holes
Form H: external tooting, centre through bore, 2x tapped holes, 2x reamed holes

1) disengaged
2) engaged



KIPP Detent elements steel or stainless steel

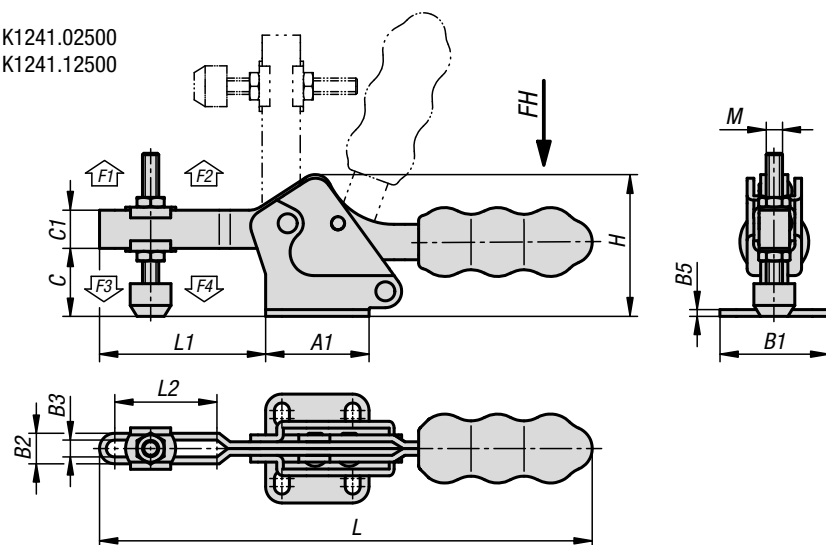
Order No.	Form	Main material	B2	B3	D1	D2	D3 for screw ISO 10642	D4	H	No. of teeth
K1446.12338	A	steel	12	12	M4	3H8	M3	23	13,5	38
K1446.13346	A	steel	18	18	M6	5H8	M5	33	19	46
K1446.112338	A	stainless steel	12	12	M4	3H8	M3	23	13,5	38
K1446.113346	A	stainless steel	18	18	M6	5H8	M5	33	19	46
Order No.	Form	Main material	B2	B3	drill Ø D1	D2	D3 for screw ISO 10642	D4	H	No. of teeth
K1446.22338	B	steel	12	12	4,2	3H8	M3	23	13,5	38
K1446.23346	B	steel	18	18	6,2	5H8	M5	33	19	46
K1446.122338	B	stainless steel	12	12	4,2	3H8	M3	23	13,5	38
K1446.123346	B	stainless steel	18	18	6,2	5H8	M5	33	19	46
Order No.	Form	Main material	B2	B3	D1	D2	D3	D4	H	No. of teeth
K1446.32338	C	steel	12	12	M4	3H8	M3	23	13,5	38
K1446.33346	C	steel	18	18	M6	5H8	M5	33	19	46
K1446.132338	C	stainless steel	12	12	M4	3H8	M3	23	13,5	38
K1446.133346	C	stainless steel	18	18	M6	5H8	M5	33	19	46
Order No.	Form	Main material	B2	B3	drill Ø D1	D2	D3	D4	H	No. of teeth
K1446.42338	D	steel	12	12	4,2	3H8	M3	23	13,5	38
K1446.43346	D	steel	18	18	6,2	5H8	M5	33	19	46
K1446.142338	D	stainless steel	12	12	4,2	3H8	M3	23	13,5	38
K1446.143346	D	stainless steel	18	18	6,2	5H8	M5	33	19	46
Order No.	Form	Main material	B2	B3	D1	D2	D3 for screw ISO 10642	D4	H	No. of teeth
K1446.52338	E	steel	12	12	M4	3H8	M3	23	9,5	38
K1446.53346	E	steel	18	18	M6	5H8	M5	33	13	46
K1446.152338	E	stainless steel	12	12	M4	3H8	M3	23	9,5	38
K1446.153346	E	stainless steel	18	18	M6	5H8	M5	33	13	46
Order No.	Form	Main material	B2	B3	drill Ø D1	D2	D3 for screw ISO 10642	D4	H	No. of teeth
K1446.62338	F	steel	12	12	4,2	3H8	M3	23	9,5	38
K1446.63346	F	steel	18	18	6,2	5H8	M5	33	13	46
K1446.162338	F	stainless steel	12	12	4,2	3H8	M3	23	9,5	38
K1446.163346	F	stainless steel	18	18	6,2	5H8	M5	33	13	46
Order No.	Form	Main material	B2	B3	D1	D2	D3	D4	H	No. of teeth
K1446.72338	G	steel	12	12	M4	3H8	M3	23	9,5	38
K1446.73346	G	steel	18	18	M6	5H8	M5	33	13	46
K1446.172338	G	stainless steel	12	12	M4	3H8	M3	23	9,5	38
K1446.173346	G	stainless steel	18	18	M6	5H8	M5	33	13	46
Order No.	Form	Main material	B2	B3	drill Ø D1	D2	D3	D4	H	No. of teeth
K1446.82338	H	steel	12	12	4,2	3H8	M3	23	9,5	38
K1446.83346	H	steel	18	18	6,2	5H8	M5	33	13	46
K1446.182338	H	stainless steel	12	12	4,2	3H8	M3	23	9,5	38
K1446.183346	H	stainless steel	18	18	6,2	5H8	M5	33	13	46

Toggle clamps horizontal

with flat foot and adjustable clamping spindle



K1241.02500
K1241.12500



Material:

Steel or stainless steel.

Version:

Electro zinc-plated steel.
Bright stainless steel.
Plastic handle, oil-resistant.

Sample order:

K1241.02500

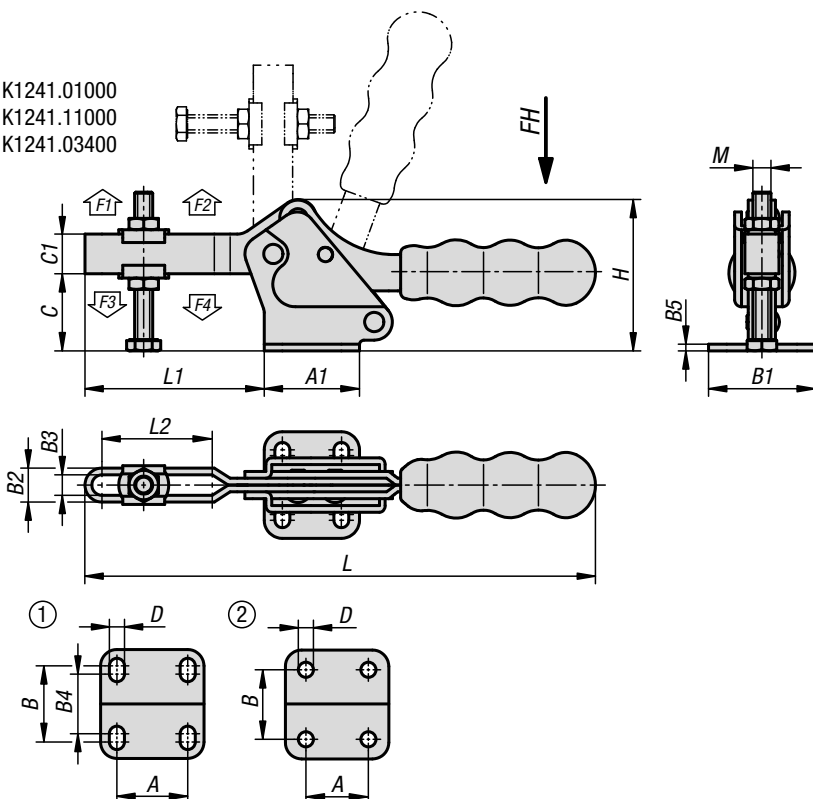
Note:

A neoprene thrust pad is supplied with versions K1241.02500 and K1241.12500.

Accessories:

K0688
K0689
K0690
K0101
K1442
K0102
K0103
K1443
K0104
K0106
K1441
K1431

K1241.01000
K1241.11000
K1241.03400

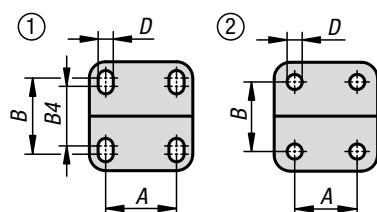
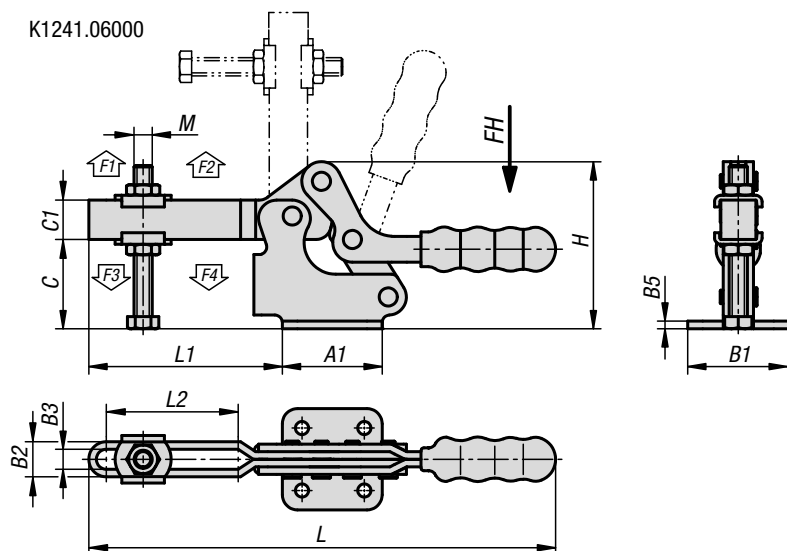
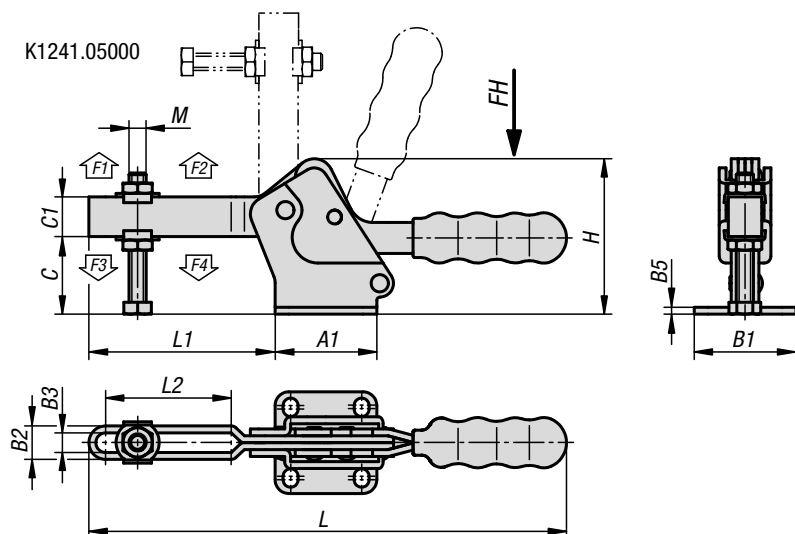


KIPP Toggle clamps horizontal with flat foot and adjustable clamping spindle

Order No.	Main material	hole arrangement	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N
K1241.01000	steel	2	96°	78°	80	500	1000	250	500
K1241.02500	steel	1	93°	76°	150	1200	2500	400	1000
K1241.03400	steel	1	90°	72°	200	1400	3400	800	1900
K1241.05000	steel	1	90°	72°	250	2200	5000	1100	3000
K1241.06000	steel	2	94°	80°	250	3000	6000	1200	3200
K1241.11000	stainless steel	2	96°	78°	80	500	1000	250	500
K1241.12500	stainless steel	1	93°	76°	150	1200	2500	400	1000

Toggle clamps horizontal

with flat foot and adjustable clamping spindle



Order No.	Main material	A	A1	B	B1	B2	B3	B4	B5	C	C1	D	H	L	L1	L2	M
K1241.01000	steel	13,5	25	16,8	27	9,3	5,3	-	2	19	9,5	5,2	38,5	112	37	22,8	M5x40
K1241.02500	steel	26	38	28	40	11,2	6,2	22	2,5	25	14	5,5	52,1	173	61	37,5	M6x50
K1241.03400	steel	26	42	31	47	15	9	26	3	34	17,5	6,6	66,5	225	79	48,6	M8x60
K1241.05000	steel	41,2	59	43	59	19,4	11,4	39	4	45	23	8,7	90,1	277	108	72,9	M10x80
K1241.06000	steel	41,2	66	41,3	67	23,2	13,2	-	5	59	26	8,7	110,4	308	128	87,2	M12x100
K1241.11000	stainless steel	13,5	25	16,8	27	9,3	5,3	-	2	19	9,5	5,2	38,5	112	37	22,8	M5x40
K1241.12500	stainless steel	26	38	28	40	11,2	6,2	22	2,5	25	14	5,5	52,1	173	61	37,5	M6x50

Toggle clamps vertical

with straight foot and fixed clamping spindle



Material:
Steel.

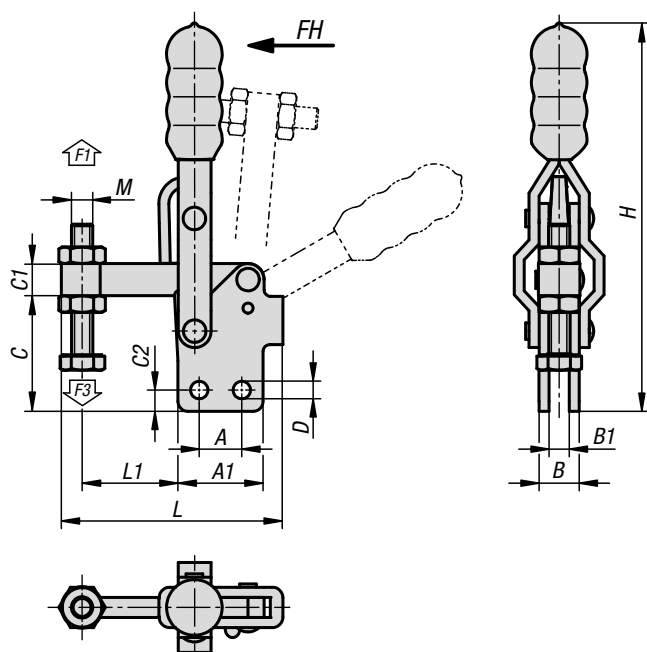
Version:
Electro zinc-plated steel.
Plastic handle, oil-resistant.

Sample order:
K1244.00800

Note:
A neoprene thrust pad is supplied with version K1244.00800.

Accessories:

K0688
K0689
K0690
K0101
K1442
K0102
K0103
K1443
K0104
K0106



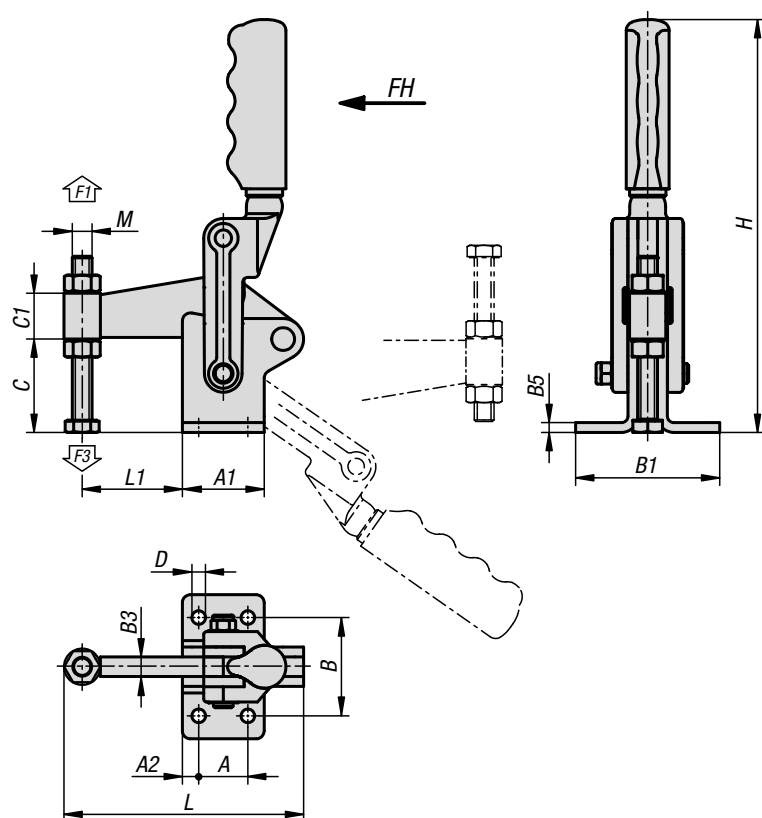
KIPP Toggle clamps vertical with straight foot and fixed clamping spindle

Order No.	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Clamping force F3 N
K1244.00800	95°	60°	100	800	600
K1244.02400	90°	70°	150	2400	1200
K1244.03400	90°	70°	200	3400	1600
K1244.04400	90°	70°	250	4400	1600
K1244.05400	100°	50°	280	5400	1800

Order No.	A	A1	B	B1	C	C1	C2	D	H	L	L1	M
K1244.00800	12,7	25,4	12	6	34,5	9,6	6,4	5,2	116	65,8	28,6	M6x44
K1244.02400	19	35	12	6	48	17,5	7,5	7,1	194	87,7	40	M8x50
K1244.03400	32	50	16	8	64	22	9,5	8,3	240	124,25	65	M10x80
K1244.04400	32	53	20	10	70,4	25	9,5	8,7	245	138,25	74	M12x100
K1244.05400	50,8	76,2	20	10	113,5	31,8	12,7	12,3	335	197,5	107,8	M16x150

Toggle clamps vertical

heavy-duty with fixed clamping spindle



Material:
Steel.

Version:
Steel, hardened and passivated.
Plastic handle, oil-resistant.

Sample order:
K1253.012000

Accessories:
K0688
K0689
K1442
K0102
K0103
K0106

KIPP Toggle clamps vertical heavy-duty with fixed clamping spindle

Order No.	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Clamping force F3 N
K1253.06000	180°	120°	300	6000	1200
K1253.012000	180°	125°	500	12000	1400
K1253.014000	195°	130°	500	14000	1850

Order No.	A	A1	A2	B	B1	B3	B5	C	C1	D	H	L	L1	M
K1253.06000	25	45	10	50	67	10	5	48	30	8,3	221	127,2	51,1	M12x100
K1253.012000	30	50	10	60	88	12	6	58	30	8,3	252	146,2	61,1	M12x100
K1253.014000	40	63	12	75	105	16	8	75	38	10,3	295	185,25	75	M16x150

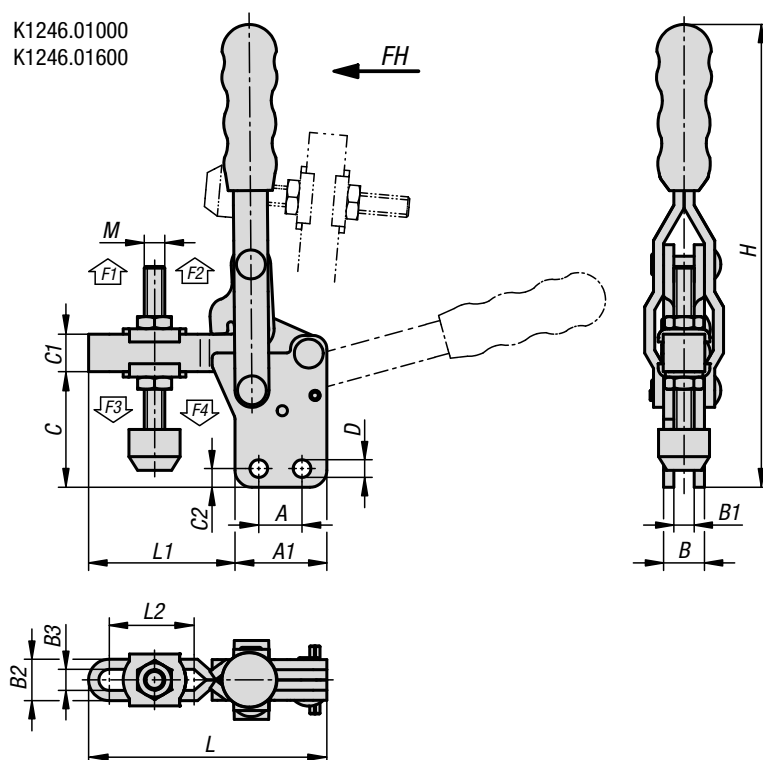
K1246

Toggle clamps vertical

with straight foot and adjustable clamping spindle



K1246.01000
K1246.01600



Material:
Steel.

Version:
Electro zinc-plated steel.
Plastic handle, oil-resistant.

Sample order:
K1246.02400

Note:
The clamping spindle is supplied with a neoprene thrust pad.

Accessories:

K0688
K0689
K0690
K0101
K1442
K0102
K0103
K1443
K0104
K0106
K1441

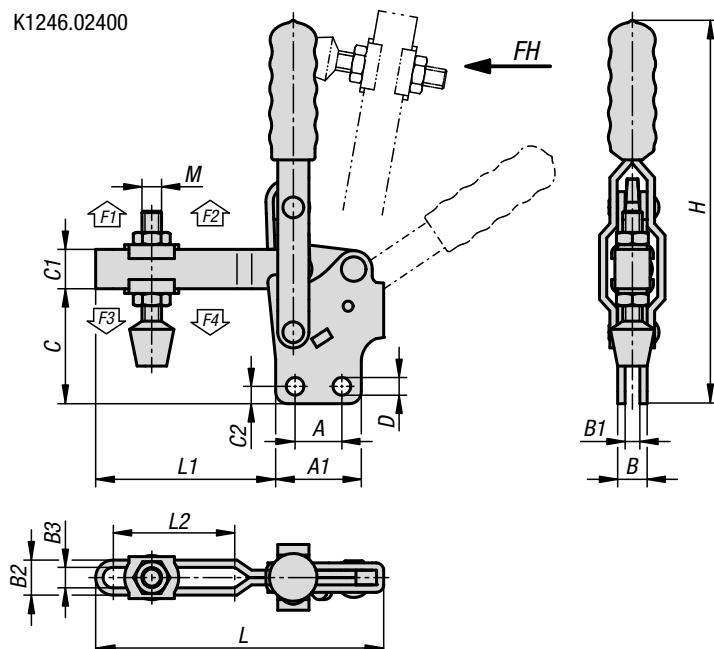
KIPP Toggle clamps vertical with straight foot and adjustable clamping spindle

Order No.	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N
K1246.01000	120°	85°	80	700	1000	500	750
K1246.01600	95°	75°	100	1200	1600	800	1000
K1246.02400	100°	56°	150	1200	2400	800	1600
K1246.04000	112°	61°	250	2000	4000	1400	3000

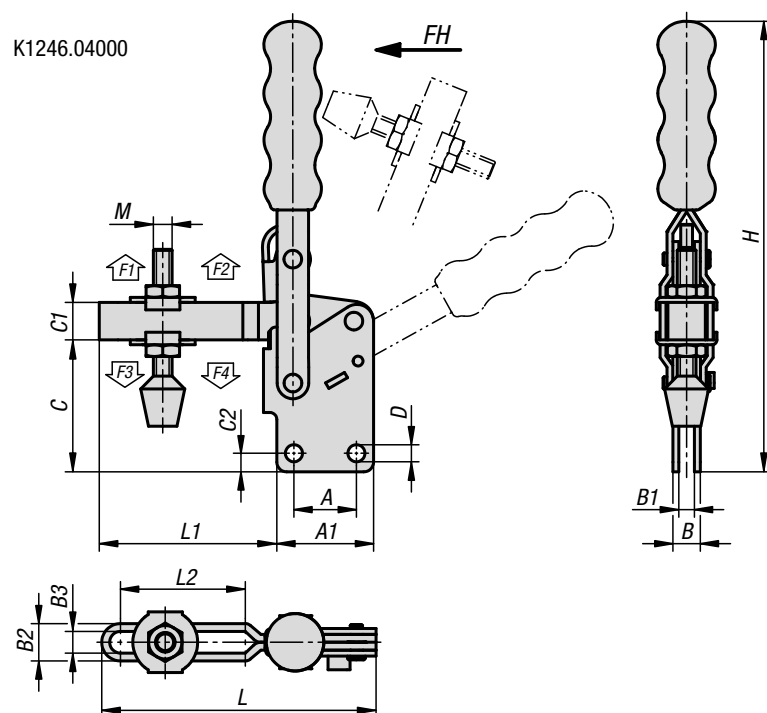
Toggle clamps vertical

with straight foot and adjustable clamping spindle

K1246.02400



K1246.04000

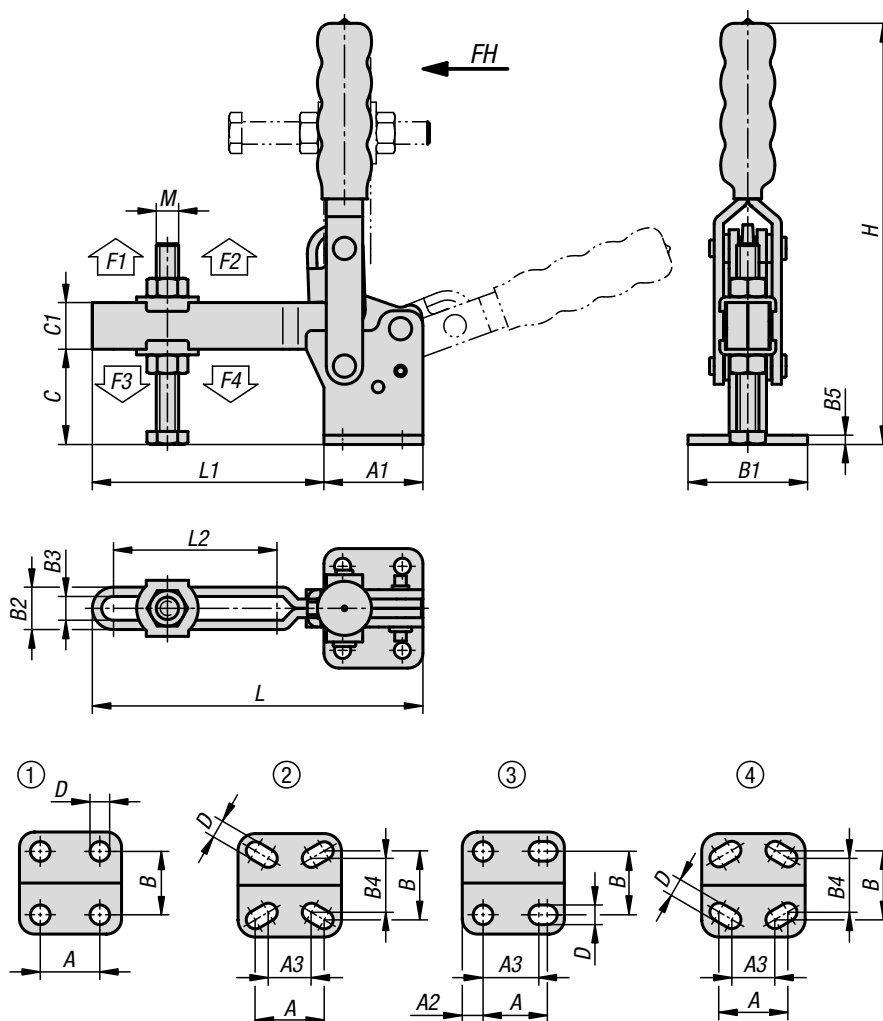


Order No.	A	A1	B	B1	B2	B3	C	C1	C2	D	H	L	L1	L2	M
K1246.01000	16	26	8	4	9,5	5,5	27,6	9	5	4,4	99,7	57	31	16,6	M5x40
K1246.01600	12,7	27	12	6	12,2	6,2	34	11	5,5	5,2	136	70	43	24,9	M6x50
K1246.02400	19	34,9	12	6	14,3	8,3	46,8	16	7,1	7,2	156	117,2	73,2	49,4	M8x63
K1246.04000	31,8	49,2	14	8	19	11	67,2	19	9,5	8,7	229	139,5	90,3	63,5	M10x85

K1255

Toggle clamps vertical

with flat foot and adjustable clamping spindle



Material:

Steel or stainless steel.

Version:

Electro zinc-plated steel.

Bright stainless steel.

Plastic handle, oil-resistant.

Sample order:

K1255.001000

Note:

A neoprene thrust pad is supplied with versions K1255.001000, K1255.101000, K1255.001800, K1255.010001, K1255.001600, K1255.101600, K1255.002400 and K1255.004000.

Accessories:

K0688

K0689

K0690

K0101

K1442

K0102

K0103

K1443

K0104

K0106

K1441

K1431

Toggle clamps vertical

with flat foot and adjustable clamping spindle



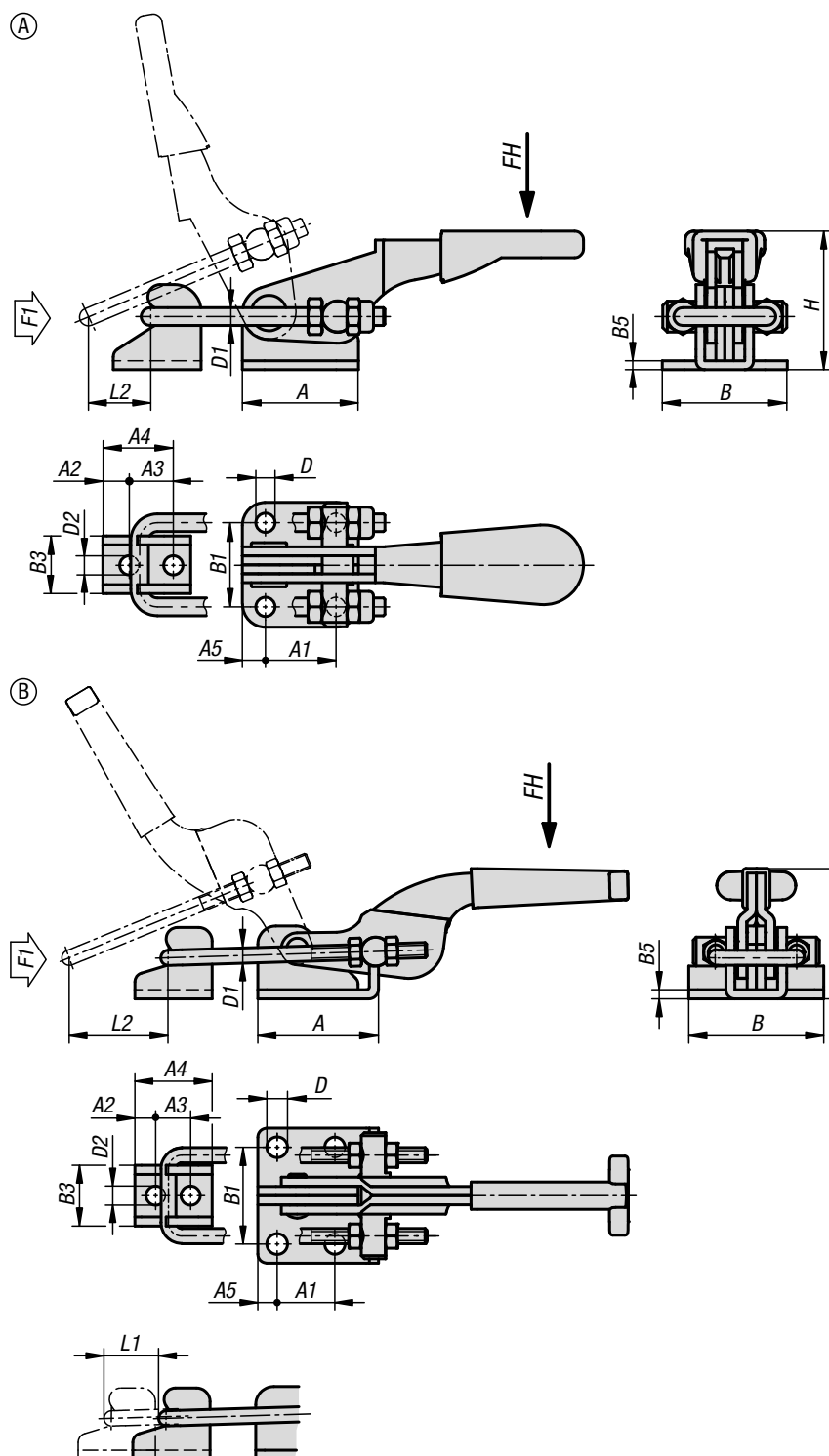
KIPP Toggle clamps vertical with flat foot and adjustable clamping spindle

Order No.	Main material	hole arrangement	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N
K1255.001000	steel	1	120°	85°	50	700	1000	500	700
K1255.001800	steel	1	95°	60°	100	800	1800	600	1200
K1255.010001	steel	2	96°	69°	50	700	1000	500	800
K1255.001600	steel	1	95°	75°	100	1200	1600	800	1000
K1255.002000	steel	4	108°	70°	100	1000	2000	900	1200
K1255.002400	steel	1	100°	56°	150	1200	2400	800	1600
K1255.002600	steel	1	90°	70°	150	1000	2600	800	1600
K1255.004000	steel	1	112°	61°	250	2000	4000	1400	3000
K1255.040001	steel	1	90°	70°	250	2000	4000	1400	3000
K1255.007000	steel	1	90°	70°	250	3200	7000	1400	3000
K1255.003600	steel	3	106°	67°	100	1800	3600	900	1800
K1255.008000	steel	1	100°	50°	280	3000	8000	1800	3900
K1255.101000	stainless steel	1	120°	85°	50	700	1000	500	700
K1255.101800	stainless steel	1	95°	60°	100	800	1800	600	1200
K1255.101600	stainless steel	1	95°	75°	100	1200	1600	800	1000
K1255.102600	stainless steel	1	90°	70°	150	1000	2600	800	1600
K1255.102400	stainless steel	1	100°	56°	150	1200	2400	800	1600
K1255.104000	stainless steel	1	112°	61°	250	2000	4000	1400	3000

Order No.	Main material	A	A1	A2	A3	B	B1	B2	B3	B4	B5	C	C1	D	H	L	L1	L2	M
K1255.001000	steel	16	26	-	-	24	34	9,5	5,5	-	2	16	9	4,4	88	57	31	16,6	M5x35
K1255.001800	steel	12,7	25,4	-	-	27	39,7	13	7	-	3	22,7	9,5	5,2	104	64,7	33,7	19,9	M6x44
K1255.010001	steel	16	29	-	14	24	34	10	5	17,5	2,5	22	10	4,8	97	67	38	27,9	M5x35
K1255.001600	steel	12,7	27	-	-	26,8	37,8	12,2	6,2	-	3	23	11	5,2	125	70	43	24,9	M6x50
K1255.002000	steel	19	35	-	12,7	27	42	11	6	25	3	29	13	5,5	135	79	44	32,9	M6x50
K1255.002400	steel	19	34,9	-	-	31,8	46	14,3	8,3	-	3	31,8	16	7,2	141	117,2	73,2	49,4	M8x63
K1255.002600	steel	19	35	-	-	32	47	14,9	8,9	-	3	32	17,5	7,1	178	110,2	75,2	50,1	M8x60
K1255.004000	steel	31,8	49,2	-	-	45,3	64,3	19	11	-	3	44	19	8,7	206	139,5	90,3	63,5	M10x85
K1255.040001	steel	32	50	-	-	45	64	18,6	10,6	-	4	42	22	8,3	220,4	142,8	92,8	62,2	M10x80
K1255.007000	steel	32	53	-	-	45	64	22,7	12,7	-	5	51	25	8,7	226	177	124	90	M12x100
K1255.003600	steel	25	43	9	19	33,7	51,2	14,8	8,8	-	3	35	19	8	197	143	100	70	M8x60
K1255.008000	steel	50,8	76,2	-	-	69,8	95,2	26,5	16,5	-	8	82,1	31,8	12,3	303	229,2	153	105	M16x150
K1255.101000	stainless steel	16	26	-	-	24	34	9,5	5,5	-	2	16	9	4,4	88	57	31	16,6	M5x35
K1255.101800	stainless steel	12,7	25,4	-	-	27	39,7	13	7	-	3	22,7	9,5	5,2	104	64,7	33,7	19,9	M6x40
K1255.101600	stainless steel	12,7	27	-	-	26,8	37,8	12,2	6,2	-	3	23	11	5,2	125	70	43	24,9	M6x50
K1255.102600	stainless steel	19	35	-	-	32	47	14,9	8,9	-	3	32	17,5	7,1	178	110,2	75,2	50,1	M8x60
K1255.102400	stainless steel	19	34,9	-	-	31,8	46	14,3	8,3	-	3	31,8	16	7,2	141	117,2	73,2	49,4	M8x60
K1255.104000	stainless steel	31,8	49,2	-	-	45,3	64,3	19	11	-	3	44	19	8,7	206	139,5	90,3	63,5	M10x80

Toggle clamps latch horizontal

with catch plate



Material:

Steel or stainless steel.

Version:

Electro zinc-plated steel.

Bright stainless steel.

Plastic handle, oil-resistant.

Sample order:

K1261.03000

Note:

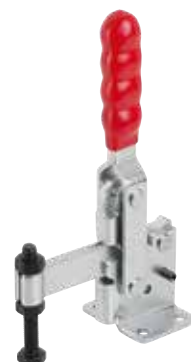
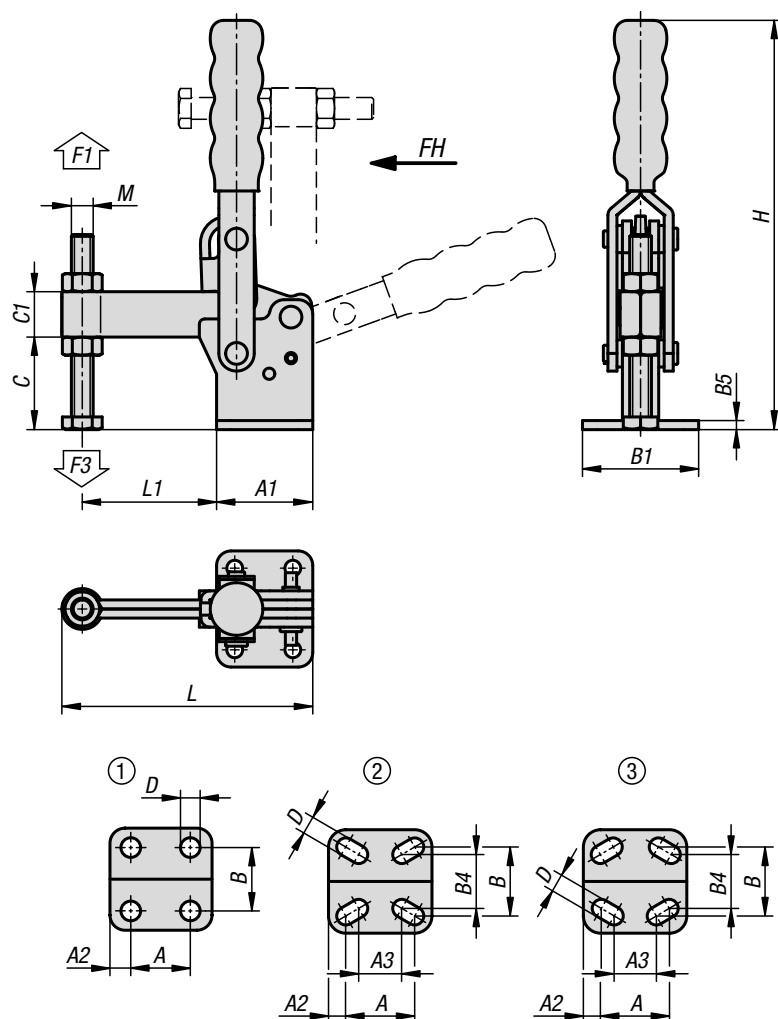
Horizontal latch toggle clamps are especially suitable for quickly closing and locking covers and hatches. The travel can be set by altering the hasp length.

KIPP Toggle clamps latch horizontal with catch plate

Order No.	Main material	Form	Hand force FH N	Pull force F1 N	A	A1	A2	A3	A4	A5	B	B1	B3	B5	D	D1	D2	H	L1	Clamping travel L2
K1261.01600	steel	A	100	1600	26,2	15,9	15,9	9,9	19,8	5,2	28,2	19	13	2	4,4	4	4,4	31,3	10,4	30
K1261.11600	stainless steel	A	100	1600	26,2	15,9	15,9	9,9	19,8	5,2	28,2	19	13	2	4,4	4	4,4	31,3	10,4	30
K1261.03000	steel	B	150	3000	39,7	19	6,8	11,5	25,4	6,4	44,4	31,8	20	3	6,7	5	6,3	42	21,6	45
K1261.07000	steel	B	200	7000	60,3	41,3	9,5	19,1	38,1	9,5	54	38,1	30,2	4	8,6	8	8,5	76,1	23,7	75
K1261.13000	stainless steel	B	150	3000	39,7	19	6,8	11,5	25,4	6,4	44,4	31,8	20	3	6,7	5	6,3	42	21,6	45
K1261.17000	stainless steel	B	200	7000	60,3	41,3	9,5	19,1	38,1	9,5	54	38,1	30,2	4	8,6	8	8,5	76,1	23,7	75

Toggle clamps vertical

with flat foot and fixed clamping spindle



Material:
Steel.

Version:
Trivalent passivated.
Clamping spindle and nuts phosphated.
Plastic grip oil-resistant.

Sample order:
K1438.00800

Note:
A neoprene pressure pad is supplied with version K1438.00800.

Accessories:

K0688
K0689
K0690
K0101
K1442
K0102
K0103
K1443
K0104
K0106
K1431

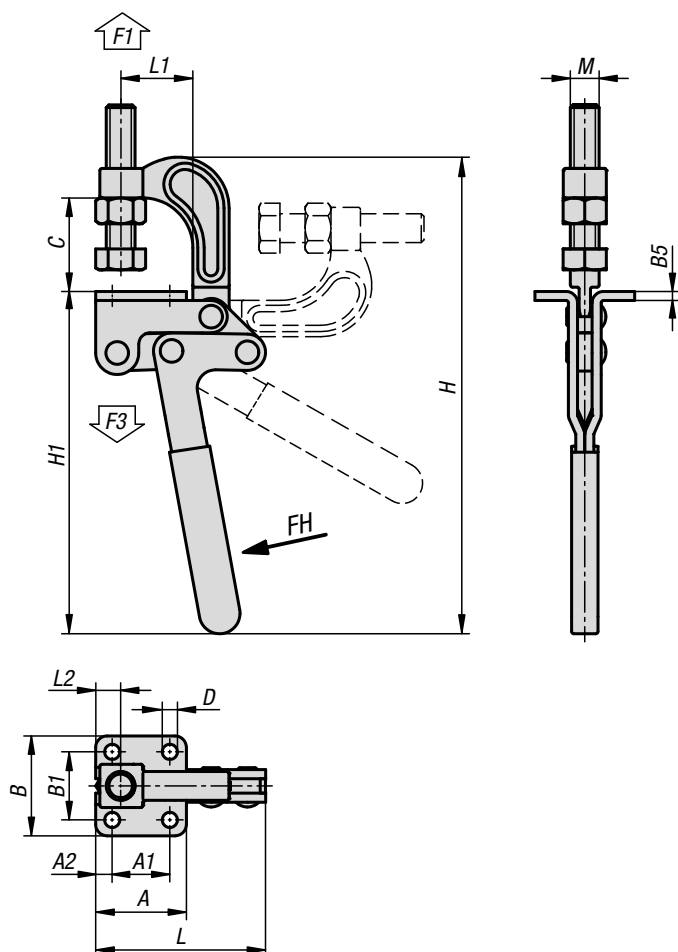
KIPP Toggle clamps vertical with flat foot and fixed clamping spindle

Order No.	hole arrangement	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Clamping force F3 N
K1438.00800	2	96°	69°	50	800	600
K1438.01500	3	108°	70°	100	1500	1000
K1438.02400	1	90°	70°	150	2400	1200
K1438.03400	1	90°	70°	200	3400	1600
K1438.04400	1	90°	70°	250	4400	1600
K1438.05400	1	100°	50°	280	5400	1800

Order No.	A	A1	A2	A3	B	B1	B4	B5	C	C1	D	H	L	L1	M
K1438.00800	16	29	6,5	14	24	34	17,5	2,5	21,8	10,5	4,8	97	66,7	31,5	M5x35
K1438.01500	19	35	8	12,7	27	42	25	3	29	13	5,5	135	75,7	35	M6x50
K1438.02400	19	35	8	-	32	47	-	3	32	17,5	7,1	178	87,7	40	M08x65
K1438.03400	32	50	9	-	45	64	-	4	42	22	8,3	218	124,3	65	M10x80
K1438.04400	32	53	10	-	45	64	-	5	51	25	8,7	226	138,3	74	M12x100
K1438.05400	50,8	76,2	12,7	-	69,8	95,2	-	8	82,1	31,8	12,3	303	197,5	107,8	M16x150

K1439

Toggle clamps pivot jaw



Material:

Steel. Draw bail in cast steel.
Stainless steel.

Version:

Steel galvanized and passivated.
Bright stainless steel.
Plastic grip oil-resistant

Sample order:

K1439.03400

Note:

The pivot jaw toggle clamp is ideal for applications in which there is little mounting space at the sides. In this case the clamp plate is secured from below to the work surface.

Accessories:

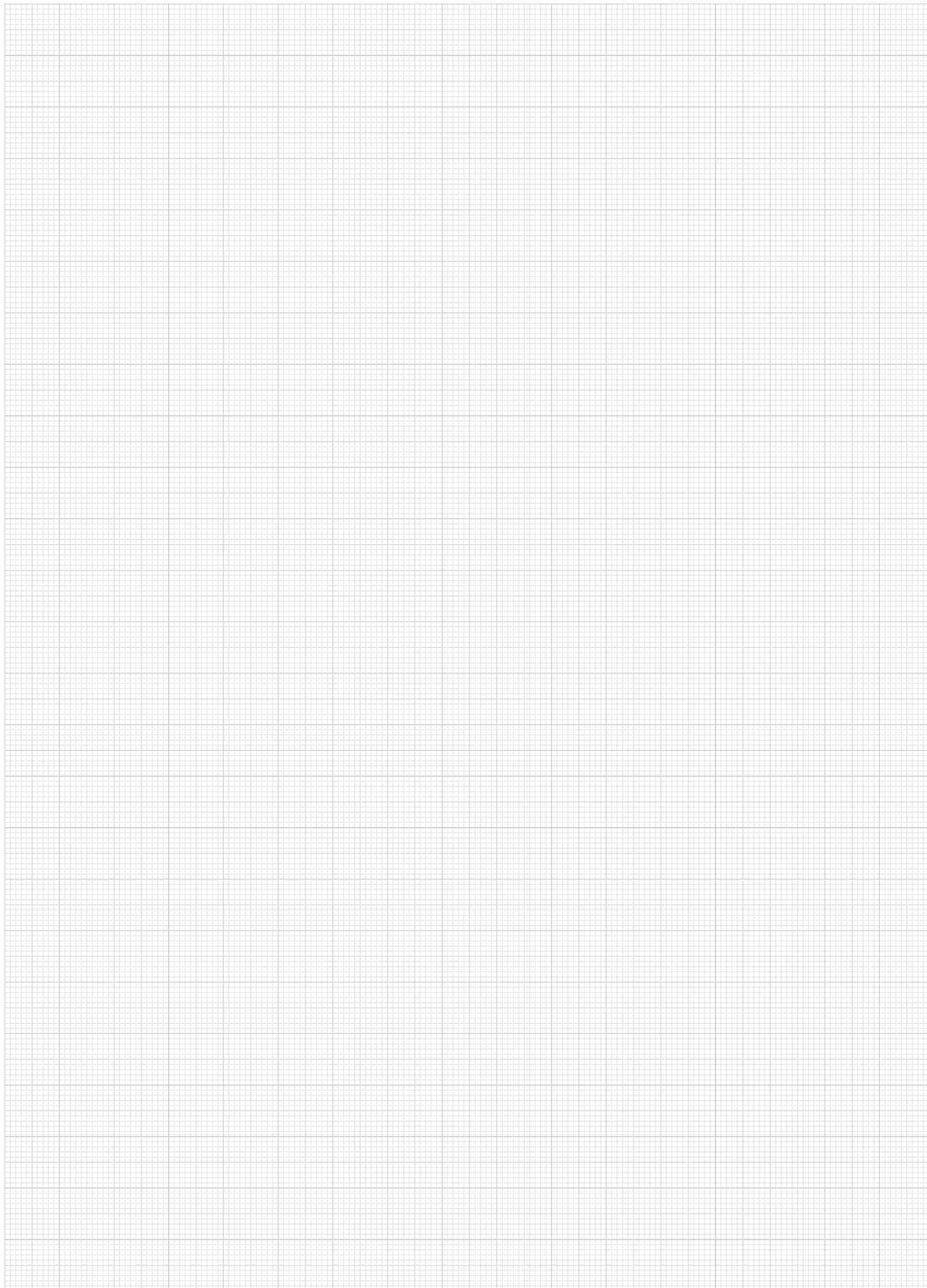
K0102
K0103
K1442
K0106

KIPP Toggle clamps pivot jaw

Order No.	Main material	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Clamping force F3 N
K1439.03400	steel	90°	50°	250	3400	1100
K1439.13000	stainless steel	90°	50°	200	3000	1000

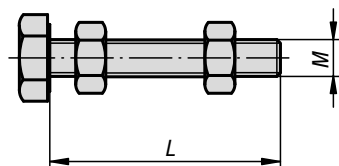
Order No.	Main material	A	A1	A2	B	B1	B5	C	D	H	H1	L	L1	L2	M
K1439.03400	steel	40	25,4	7,3	44	30	4	41,2	6,7	210	153	74,6	31,8	14	1/2-13x2,5
K1439.13000	stainless steel	40	25,4	7,3	44	30	4	41,2	6,7	210	153	74,6	31,8	14	1/2-13x2,5

Notes



Clamping spindles

rigid


Material:

Polyamide, steel or stainless steel.

Version:

Spindle and nuts, electro zinc-plated.
K1442.204020 made from nylon.

Sample order:

K1442.005035

Note:

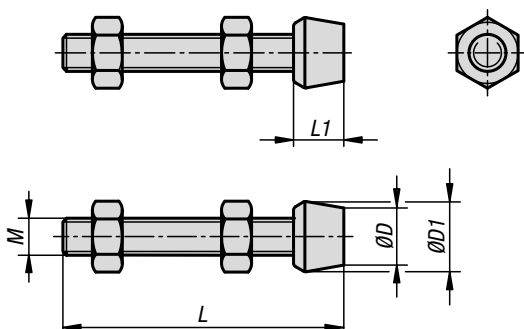
The clamping spindle K1442.204020 is supplied with one nut.

KIPP Clamping spindles, rigid

Order No.	Main material	Form	M	L
K1442.204020	polyamide	A	M4	20
K1442.004025	steel	A	M4	25
K1442.004040	steel	A	M4	40
K1442.005035	steel	A	M5	35
K1442.006025	steel	A	M6	25
K1442.006050	steel	A	M6	50
K1442.008040	steel	A	M8	40
K1442.008060	steel	A	M8	60
K1442.010050	steel	A	M10	50
K1442.010080	steel	A	M10	80
K1442.012075	steel	A	M12	75
K1442.012100	steel	A	M12	100
K1442.016150	steel	A	M16	150
K1442.104020	stainless steel	A	M4	20
K1442.105030	stainless steel	A	M5	30
K1442.105035	stainless steel	A	M5	35
K1442.106040	stainless steel	A	M6	40
K1442.106050	stainless steel	A	M6	50
K1442.108060	stainless steel	A	M8	60
K1442.110080	stainless steel	A	M10	80

Clamping spindles

with vulcanized neoprene thrust pad


Material:

Threaded spindle and nuts in steel or stainless steel.
Thrust pad neoprene.

Version:

Threaded spindle and nuts galvanized or bright.

Sample order:

K1443.050372

KIPP Clamping spindles with vulcanised neoprene thrust pad

Order No.	Main material	D	D1	M	L	L1
K1443.040421	steel	8	12	M4	42	10
K1443.050372	steel	10	10	M5	37	5,7
K1443.060441	steel	10	16	M6	44	14
K1443.080631	steel	13	19	M8	63	19
K1443.100851	steel	15	24	M10	85	26
K1443.121001	steel	25	31	M12	100	26
K1443.1040251	stainless steel	8	12	M4	25	10
K1443.1050421	stainless steel	11	13	M5	42	10
K1443.1060501	stainless steel	10	16	M6	50	14
K1443.1080641	stainless steel	13	19	M8	64	19
K1443.1100851	stainless steel	24	30	M10	85	26

K1541

Mini toggle clamp, horizontal

with horizontal foot and fixed clamping spindle



Material:

Steel or stainless steel.

Version:

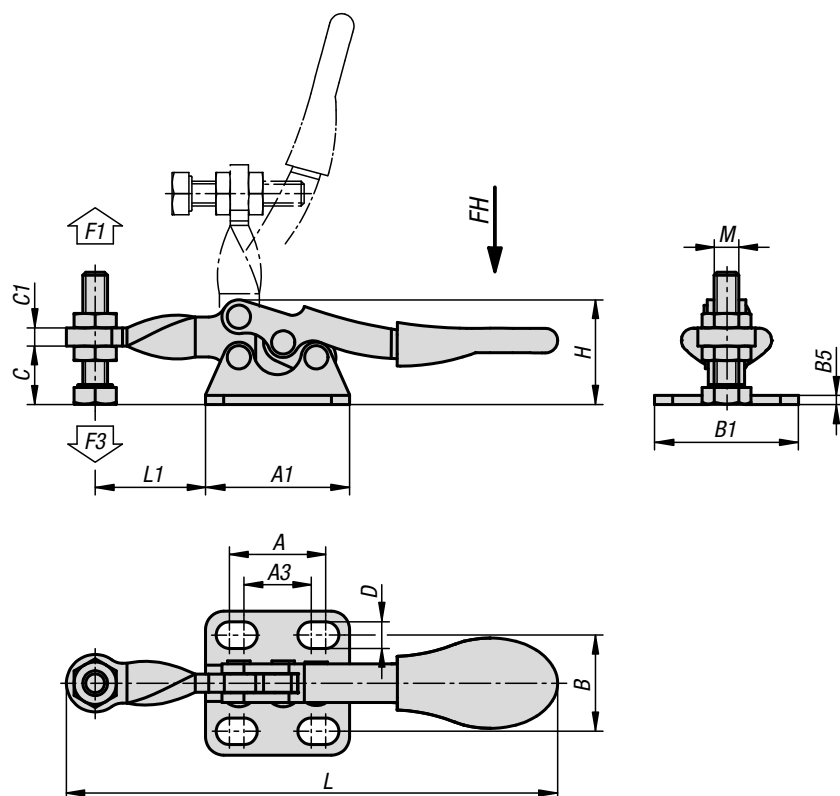
Electro zinc-plated steel.

Bright stainless steel.

Plastic handle, oil-resistant.

Sample order:

K1541.00500



KIPP Horizontal Mini-Clamp with flat foot and fixed clamping spindle

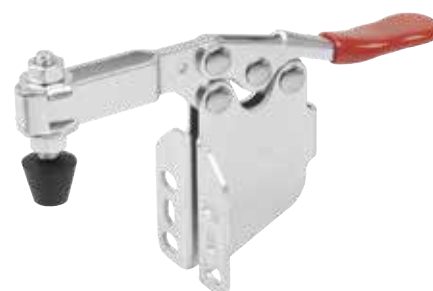
Order No.	Main material	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Clamping force F3 N
K1541.00500	steel	90°	75°	80	500	250
K1541.10500	stainless steel	90°	75°	80	500	250

Order No.	Main material	A	A1	A3	B	B1	B5	C	C1	D	H	L	L1	M
K1541.00500	steel	15,9	23,8	11,1	15,9	23,8	1,5	9,7	3	4,4	17,3	81,2	18,3	M4x20
K1541.10500	stainless steel	15,9	23,8	11,1	15,9	23,8	1,5	9,7	3	4,4	17,3	81,2	18,3	M4x20

K1542

Toggle clamp, horizontal

with angled foot and adjustable clamping spindle

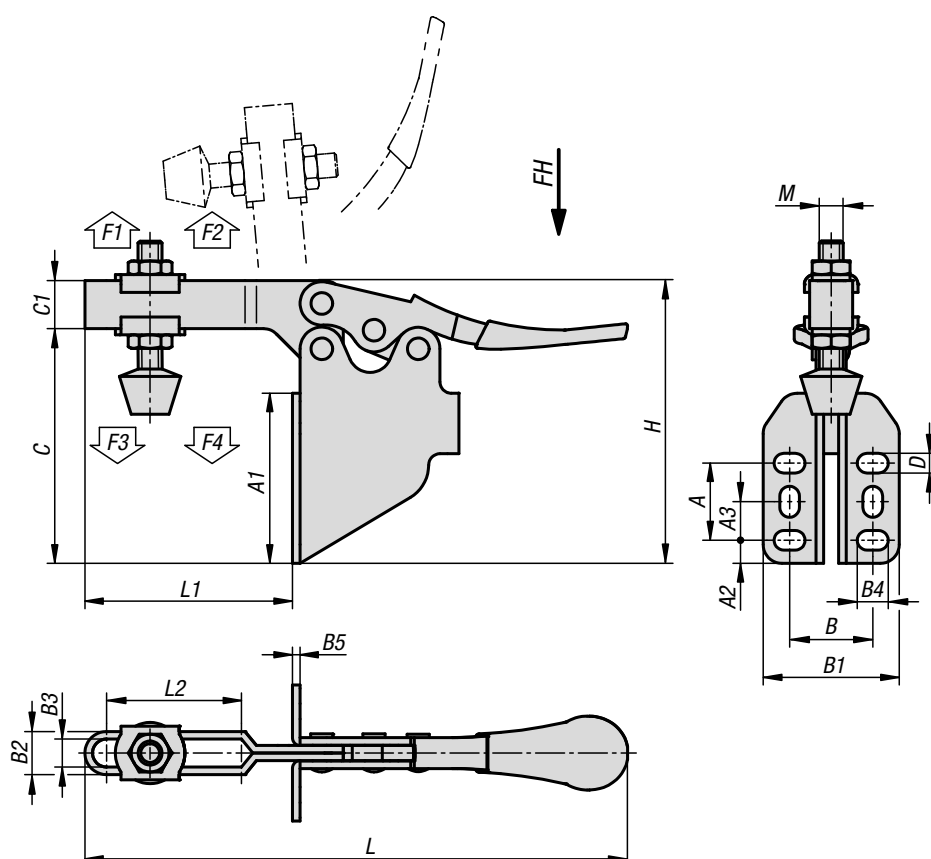


Material:
Steel.

Version:
Electro zinc-plated steel.
Plastic handle, oil-resistant.

Sample order:
K1542.01200

Note:
The clamping spindle is supplied with a neoprene thrust pad.



KIPP Toggle clamp horizontal with angled foot and adjustable clamping spindle

Order No.	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N
K1542.01200	85°	73°	100	600	1200	300	700
K1542.02800	90°	65°	160	1200	2800	600	1000

Order No.	A	A1	A2	A3	B	B1	B2	B3	B4	B5	C	C1	D	H	L	L1	L2	M
K1542.01200	20,4	45	6,1	10,2	22	36	11,4	7,4	8,2	2	62,1	12,7	5,2	74,8	143,5	54,9	35,6	M6x44
K1542.02800	21,4	40	5,9	10,7	27,6	42,4	14,7	8,7	9,7	3	67,2	12,7	6,7	79,9	173	68	39,1	M8x63

K1543

Mini toggle clamp, horizontal

with horizontal foot left and adjustable clamping spindle

**Material:**

Steel.

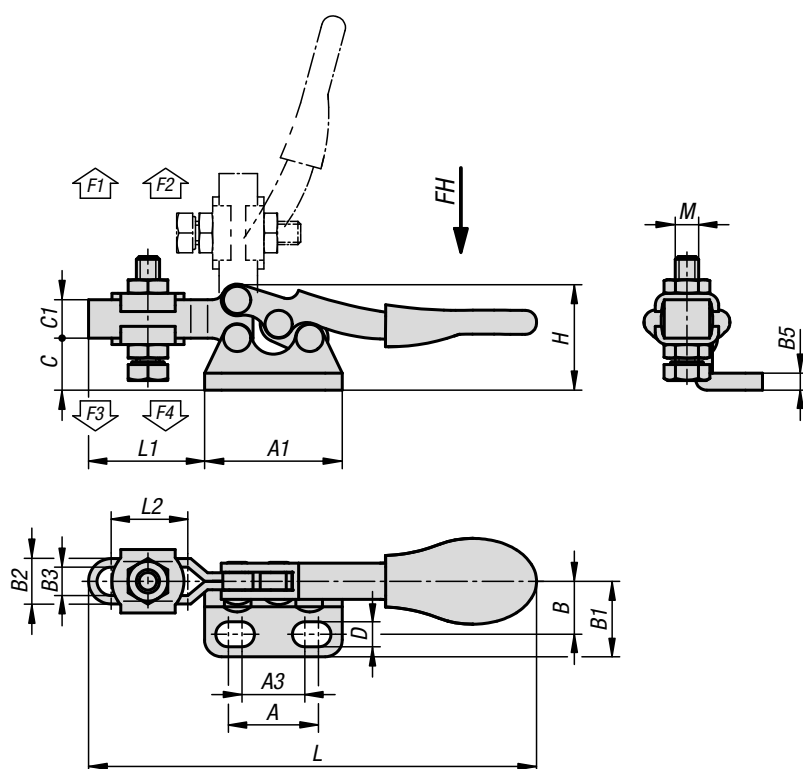
Version:

Electro zinc-plated steel.

Plastic handle, oil-resistant.

Sample order:

K1543.0250



KIPP Horizontal Mini-Clamp with flat left foot and adjustable clamping spindle

Order No.	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N
K1543.0250	90°	75°	80	250	500	150	350

Order No.	A	A1	A3	B	B1	B2	B3	B5	C	C1	D	H	L	L1	L2	M
K1543.0250	15,9	24,3	11,1	9,4	13,3	8	5	3	9,2	6,8	4,4	18,7	79	20,5	13,5	M4x20

K1544

Mini toggle clamp, horizontal

with horizontal foot right and adjustable clamping spindle



Material:

Steel.

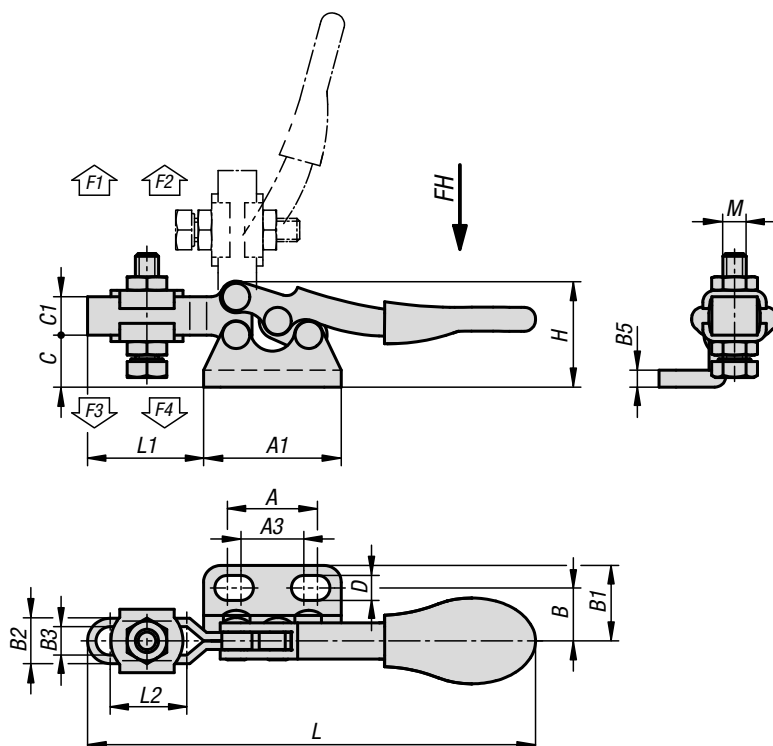
Version:

Electro zinc-plated steel.

Plastic handle, oil-resistant.

Sample order:

K1544.0250



KIPP Horizontal Mini-Clamp with flat right foot and adjustable clamping spindle

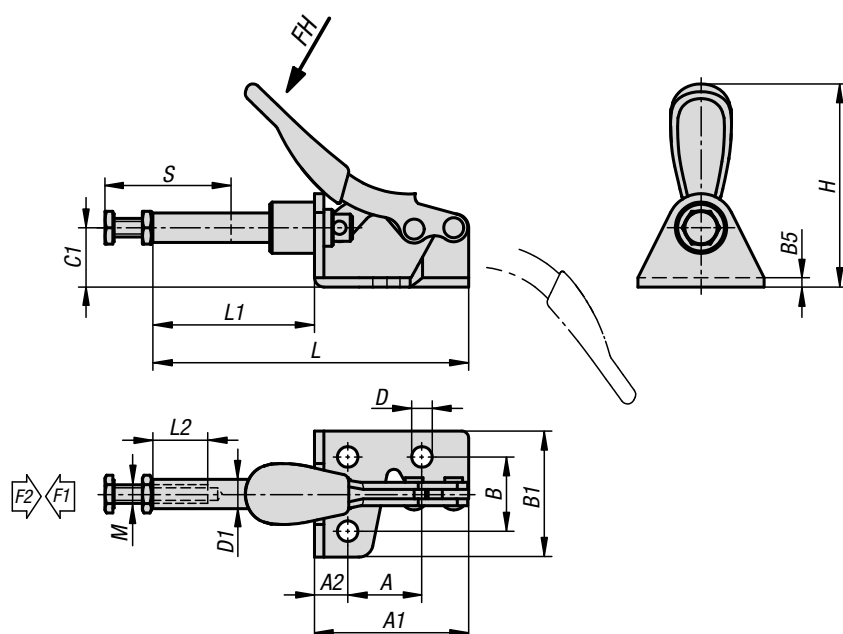
Order No.	Opening angle of holding arm	Opening angle of handle	Hand force FH N	Retaining force F1 N	Retaining force F2 N	Clamping force F3 N	Clamping force F4 N
K1544.0250	90°	75°	80	250	500	150	350

Order No.	A	A1	A3	B	B1	B2	B3	B5	C	C1	D	H	L	L1	L2	M
K1544.0250	15,9	24,3	11,1	8	13,3	9,4	5	3	9,2	6,8	4,4	18,7	79	20,5	13,5	M4x20

K1545

Mini push-pull toggle clamp

with mounting bracket



Material:

Steel or stainless steel.

Version:

Electro zinc-plated steel.

Bright stainless steel.

Plastic handle, oil-resistant.

Sample order:

K1545.00500

Note:

The clamps lock in the open and closed handle positions.

This means they can clamp during the pushing or pulling actions.

KIPP Push-Pull Mini-Clamp with mounting bracket

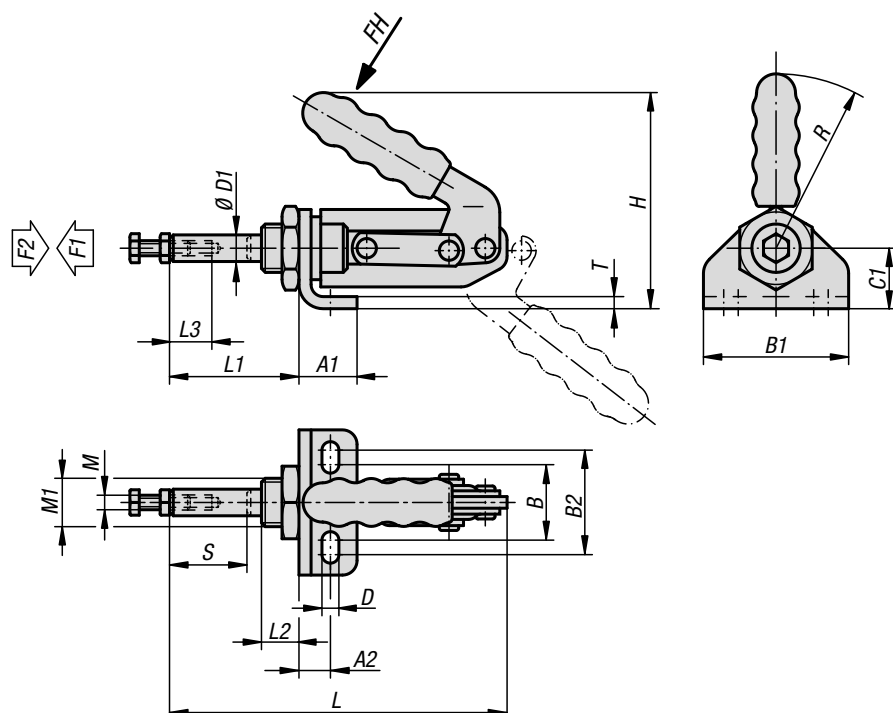
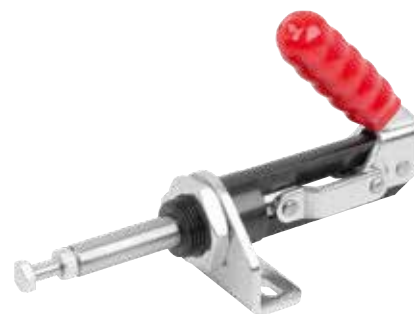
Order No.	Main material	Opening angle of handle	Hand force FH N	Clamping force F1 N	Retaining force F2 N
K1545.00500	steel	190°	80	500	500
K1545.10500	stainless steel	190°	80	500	500

Order No.	Main material	A	A1	A2	B	B1	B5	C1	D	D1	H	L	L1	L2	M	Travel S
K1545.00500	steel	15,9	33	7,1	15,9	27	2	12,7	4,4	6,3	43,5	67,9	34,9	12	M4x20	17
K1545.10500	stainless steel	15,9	33	7,1	15,9	27	2	12,7	4,4	6,3	43,5	67,9	34,9	12	M4x20	17

K1546

Push-pull toggle clamp

with mounting bracket



Material:
Steel.

Version:
Steel galvanized and passivated.
Plastic handle oil-resistant.

Sample order:
K1546.02400

Note:
As the push-pull toggle clamps lock in open and closed handle positions, they can be used to clamp when pushing or pulling.
The fastening nut supplied allows the clamps to be mounted in any desired position.

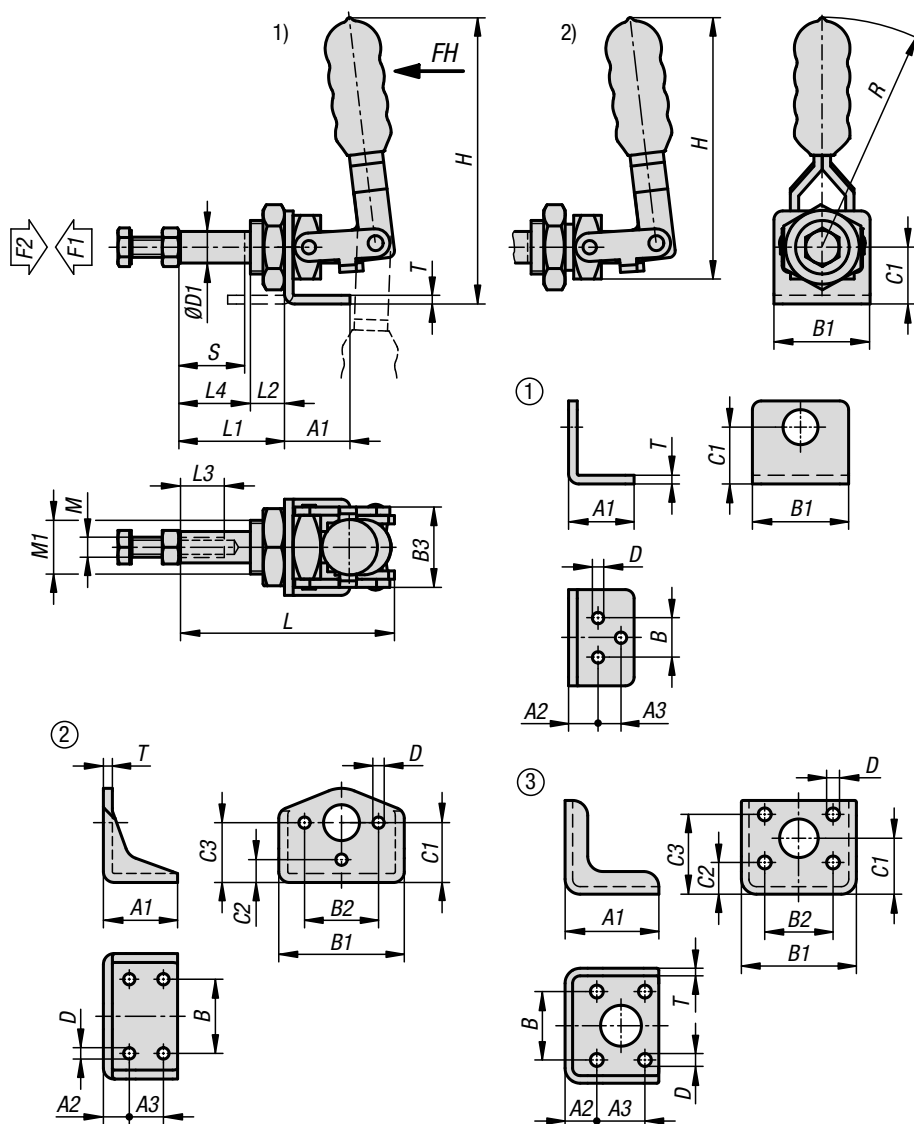
KIPP Push-Pull Clamps with mounting bracket

Order No.	Opening angle of handle	Hand force FH N	Clamping force F1 N	Retaining force F2 N
K1546.02400	190°	150	1200	2400
K1546.04000	185°	180	2000	4000

Order No.	A1	A2	B	B1	B2	C1	D	D1	H	L	L1	L2	L3	M	M1	R	T	Travel S
K1546.02400	22,4	13,4	30	57	42	25	6,5	11	85	136	51	13	12	M6	M20x1,5	60	4	32
K1546.04000	28	15,5	30	64	45	30	8,5	16	120	173	59,5	17,5	20	M10	M24x1,5	90	4,5	38

Push-pull toggle clamp

with mounting bracket

**Material:**

Steel or stainless steel.

Version:Steel galvanized and passivated.
Bright stainless steel.
Plastic grip oil-resistant**Sample order:**

K1547.01000

Note:As the push-pull toggle clamps lock in open and closed handle positions, they can be used to clamp when pushing or pulling.
The fastening nut supplied allows the clamps to be mounted in any desired position.**Attention:**

The stainless steel versions come without mounting bracket.

Drawing reference:1) with mounting bracket
2) without mounting bracket

KIPP Push-Pull Clamps with mounting bracket

Order No. steel with mounting bracket	Order No. stainless steel without mounting bracket	hole arrangement	M	M1	R	Travel S	Opening angle of handle	Hand force FH N	Clamping force F1 N	Retaining force F2 N
K1547.01000	K1547.11000	1/-	M6	M16x1,5	68,5	20,3	189°	40	500	1000
K1547.02000	K1547.12000	2/-	M8	M20x1,5	90	40	186°	60	1000	2000
K1547.04000	K1547.14000	3/-	M10	M27x2	127	66,7	181°	100	2000	4000

Order No. steel with mounting bracket	Order No. stainless steel without mounting bracket	A1	A2	A3	B	B1	B2	B3	C1	C2	C3	D	D1	L	L1	L2	L3	L4	T
K1547.01000	K1547.11000	30/-	13,5/-	10,5/-	18/-	44/-	-	24/-	26/-	-	-	5,2/-	9,4	64,3	30/34	8,7/12,7	15,8	21,3	4/-
K1547.02000	K1547.12000	41,3/-	14,4/-	19/-	41,3/-	69,9/-	41,3/-	28,6/-	33/-	12,7/-	33,3/-	5,6/-	10,9	118,741,7/46,711/16	25,4	40,7	5/-		
K1547.04000	K1547.14000	62/-	21/-	31,8/-	45,2/-	76/-	45,2/-	40/-	37/-	21/-	52,8/-	8,5/-	15,9	169,2	86/91	17/22	32	69	5/-

K1548

Horizontal Pneumatic Clamps



Material:

Lever parts and clamping spindle steel.

Version:

Lever parts trivalent passivated.
Clamping spindle and nuts phosphated.
Cylinder bright.

Sample order:

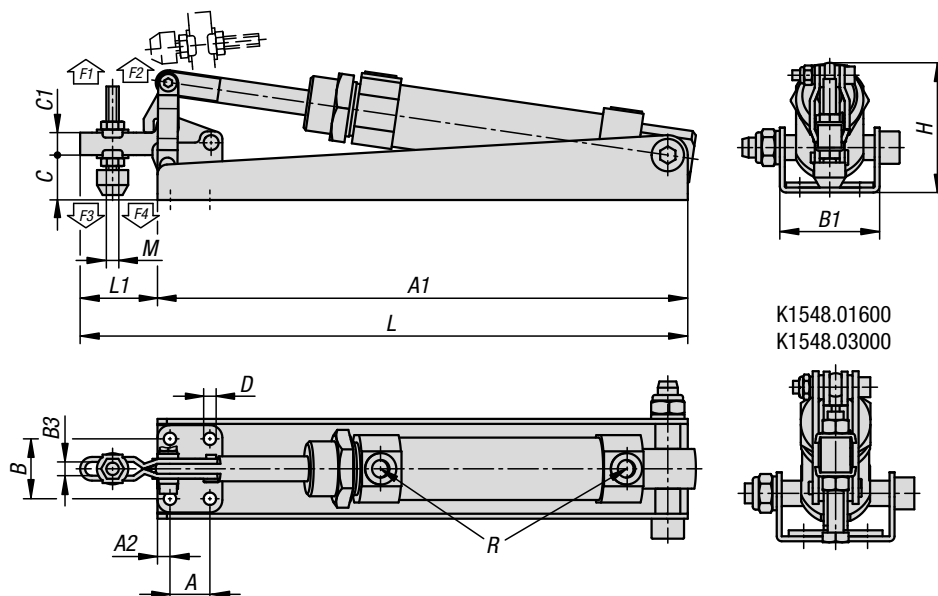
K1548.01000

Note:

A neoprene thrust pad is supplied with versions K1548.01000 and K1548.01200.

Pneumatic cylinder:

Double-acting without end of stroke dampening.



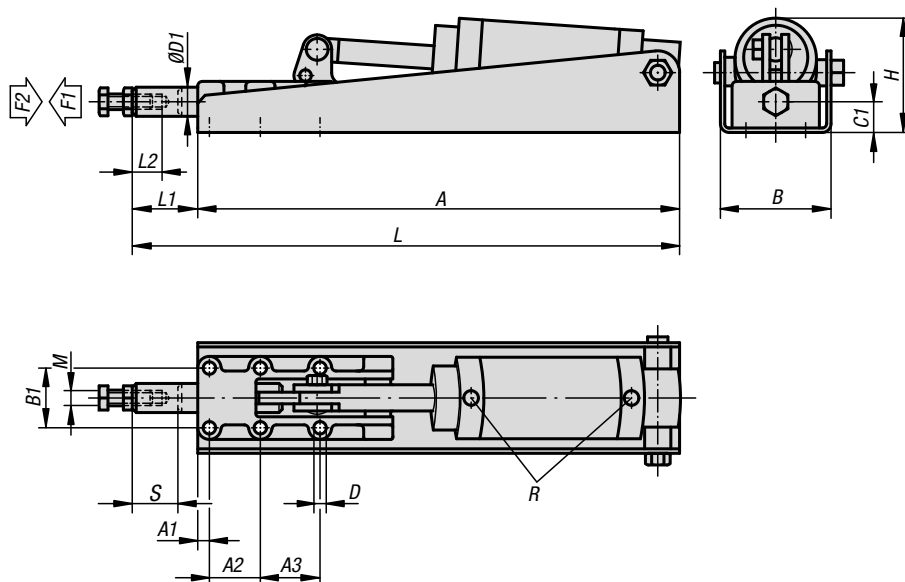
K1548.01600
K1548.03000

KIPP Horizontal Pneumatic Clamps

Order No.	Opening angle of holding arm	Air consumption per cycle	Holding force at 6 bar F1 N	Holding force at 6 bar F2 N	Clamping force at 6 bar F3 N	Clamping force at 6 bar F4 N	Operating pressure bar	strokes per min. at 6 bar
K1548.01000	70°	0,06 dm ³	1000	1500	800	1200	2 - 6	60
K1548.01200	85°	0,08 dm ³	1200	1800	1000	1500	2 - 6	60
K1548.01600	90°	0,28 dm ³	1600	2400	1200	1800	2 - 6	50
K1548.03000	85°	0,32 dm ³	3000	5400	2400	4800	2 - 6	50

Order No.	A	A1	A2	B	B1	B3	C	C1	D	H	L	L1	M	R
K1548.01000	16	212,5	5	24	40	5,5	18	9	4,5	52	243,5	31	M5x35	G1/8
K1548.01200	12,7	218	7	26,8	48	6,2	25	11	5,2	61,5	261	43	M6x50	G1/8
K1548.01600	19	270	8	32	59	8,9	34,5	17,5	7,1	85,2	345,2	75,2	M08x65	G1/8
K1548.03000	32	311,5	10	45	76	13,2	53,5	25	8,7	117,5	435,5	124	M12x100	G1/8

Pneumatic push-pull clamps

**Material:**

Lever parts, bracket and thrust rod, steel.
Thrust rod housing ductile iron (SG iron)

Version:

Phosphated. Cylinder bright.

Sample order:

K1549.06000

Pneumatic cylinder:

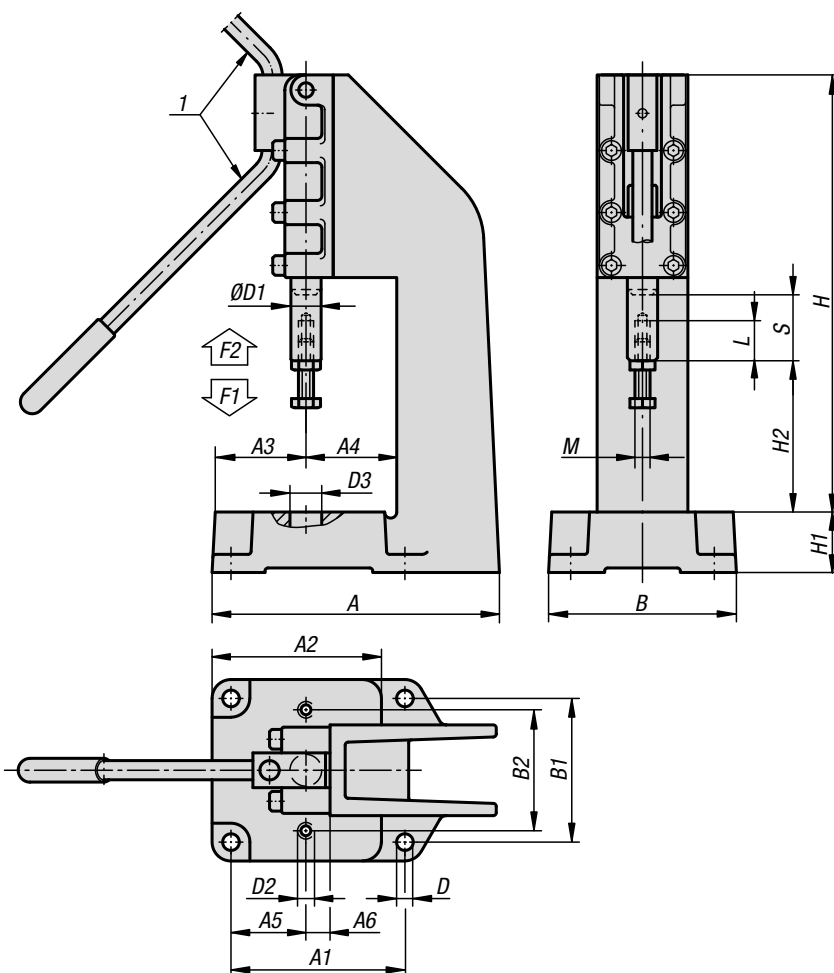
Double-acting without end of stroke dampening.

KIPP Pneumatic push-pull clamps

Order No.	Thrust rod extended / Clamping force F1 N	Retaining force F2 N	Air consumption per cycle	Operating pressure bar	strokes per min. at 6 bar
K1549.06000	5mm/300N, 10mm/400N, 15mm/600N, 200mm/800N, 24mm/1500N	6000	0,04 dm ³	2 - 6	60
K1549.12000	5mm/1200N, 10mm/1400N, 15mm/1600N, 20mm/1800N, 25mm/2300N, 30mm/4000N	12000	0,1 dm ³	2 - 6	50
K1549.25000	5mm/1400N, 10mm/1600N, 20mm/2000N, 30mm/2400N, 40mm/3000N, 49mm/7000N	25000	0,25 dm ³	2 - 6	40

Order No.	A	A1	A2	A3	B	B1	C1	D	D1	H	L	L1	L2	M	R	Travel S
K1549.06000	284	25	36,5	-	59	33,4	14	5,5	14	46,2	325	41	30	M8	G1/8	25
K1549.12000	380	8	35	41	76,5	41	21	8,5	19,9	66,5	435	55	40	M10	G1/8	32
K1549.25000	475	12	45	45	96	54	26	10,3	25	94,5	577	102	60	M12	G1/8	50

Toggle press, manual version



Material:

Press stand cast steel.

For push-pull clamp see K0088

Version:

Press uprights painted blue.

For push-pull toggle clamps, see K0088.

Sample order:

K1550.06000

Note:

The thrust clamps can be re-ordered as a complete assembly kit. See K0088 for specifications.

Drawing reference:

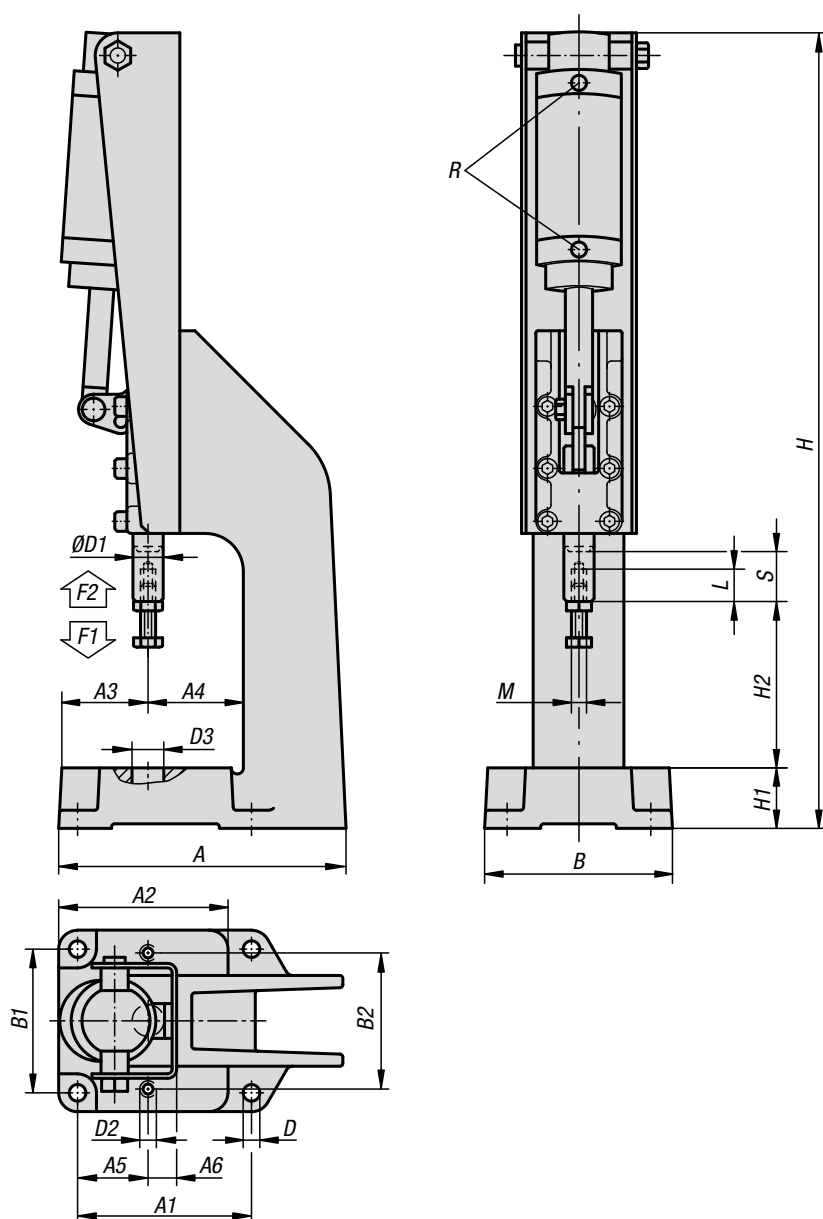
1) handle can be mounted right or left

KIPP Toggle Presses for manual operation

Order No.	Opening angle of handle	Hand force FH N	Clamping force F1 N	Retaining force F2 N
K1550.06000	185°	140	3000	6000
K1550.12000	185°	160	5000	12000
K1550.25000	185°	180	7000	25000

Order No.	A	A1	A2	A3	A4	A5	A6	B	B1	B2	D	D1	D2	D3	H	H1	H2	L	M	Travel S
K1550.06000	157	95	95	56	44	46,5	12	105	80	70	9	14	M8	15,5	202	32	75	30	M8	32
K1550.12000	210	115	113	62	60	49,6	18	126	95	80	11	19,9	M10	20	290	40	100	40	M10	50
K1550.25000	238	142	139	65	75	52	22	150	125	90	11	25	M10	30	418	50	120	60	M12	75

Toggle presses for pneumatic operation

**Material:**

Press uprights cast steel.

For pneumatic push-pull clamps, see K1549.

Version:

Press uprights painted blue.

For pneumatic push-pull clamps, see K1549.

Sample order:

K1551.06000

Note:

Double-acting cylinder without end position damping.
Pneumatic push-pull clamps can be reordered as a complete assembly kit. For technical data and clamping forces, see K1549.

KIPP Toggle presses for pneumatic operation

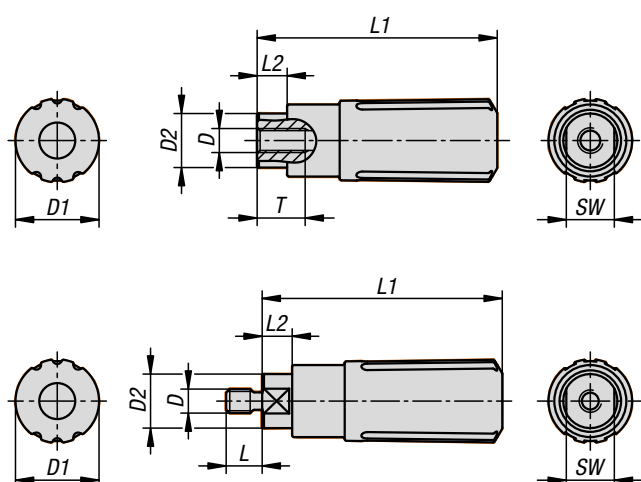
Order No.	Clamping force F1 N	Retaining force F2 N	Operating pressure bar	Air consumption per cycle	strokes per min. at 6 bar
K1551.06000	3000	6000	2 - 6	0,04 dm ³	60
K1551.12000	5000	12000	2 - 6	0,1 dm ³	50
K1551.25000	7000	25000	2 - 6	0,25 dm ³	40

Order No.	A	A1	A2	A3	A4	A5	A6	B	B1	B2	D	D1	D2	D3	H	H1	H2	L	M	R	Travel S
K1551.06000	157	95	95	53,9	46	46,5	12	105	80	70	9	14	M8	15,5	412	32	96	30	M8	G1/8	25
K1551.12000	210	115	113	59	63	49,6	18	126	95	80	11	19,9	M10	20	575	40	155	40	M10	G1/8	32
K1551.25000	238	145	139	61	79	52	22	150	125	90	11	25	M10	30	747	50	222	60	M12	G1/8	50

K1468

Plastic cylindrical grips,

revolving



Cylindrical grips are supplied assembled and can be screwed onto handwheels, crank handles, etc. The cylindrical recess and conical shape ensure that the cylindrical grips have optimised haptics and good grip.

Material:

Grip, thermoplastic.
Steel axis.

Version:

Grip, black.
Steel parts, black oxidised.

Sample order:

K1468.104

Advantages:

Optimised haptics and good grip
Grips for handwheels and cranks
Various thread sizes
NOVO grip KIPP design

KIPP Plastic cylindrical grips, revolving, internal thread

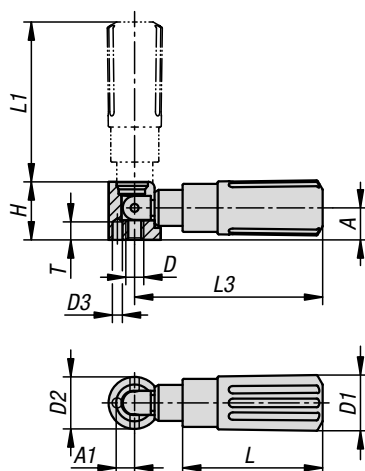
Order No.	Thread type	Size	D	D1	D2	L1	L2	T	SW
K1468.1104	internal thread	1	M4	14	9	40	5	8	8
K1468.1205	internal thread	2	M5	16	11	49,1	5,1	10	10
K1468.1306	internal thread	3	M6	20	14	61,4	6,4	12	12
K1468.1408	internal thread	4	M8	25	18	82,5	12,5	16	15

KIPP Plastic cylindrical grips, revolving, external thread

Order No.	Thread type	Size	D	D1	D2	L	L1	L2	SW
K1468.104	external thread	1	M4	14	9	6	40	5	8
K1468.205	external thread	2	M5	16	11	7,5	49,1	5,1	10
K1468.306	external thread	3	M6	20	14	9	61,4	6,4	12
K1468.408	external thread	4	M8	25	18	12	82,5	12,5	15

Plastic cylindrical grips,

fold-away



Cylindrical grips are supplied assembled and can be screwed onto handwheels, crank handles, etc. The cylindrical recess and conical shape ensure that the cylindrical grips have optimised haptics and good grip.

The fold-away grip enables prevention of protruding edges, which also minimises the risk of injury.

Material:

Grip, thermoplastic.

Steel axis.

Version:

Grip, black.

Steel parts, black oxidised.

Sample order:

K1469.104

Note:

The hole D3 is used for positioning.

Advantages:

Optimised haptics and good grip

Protruding edges prevented

Grips for handwheels and cranks

Various thread sizes

NOVO grip KIPP design

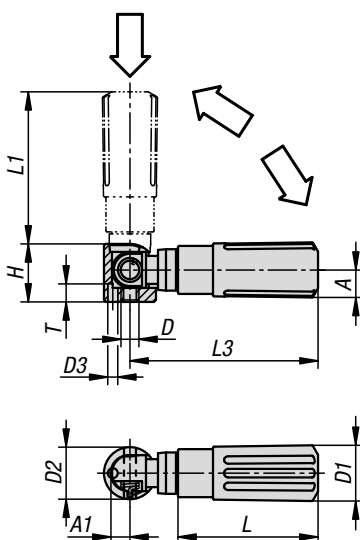
KIPP Plastic cylindrical grips, fold-away

Order No.	Size	A	A1	D	D1	D2	D3	H	L	L1	L3	T
K1469.104	1	8	4,3	M4	14	13	2,5	14,5	35	40	47	4,5
K1469.205	2	10	5,3	M5	16	16	3,5	18	44	49	58	4,5
K1469.306	3	12,5	6,5	M6	20	20	4,5	22,5	55	59,5	71,5	6
K1469.408	4	16	9	M8	25	26	5,5	29	70	83	98	6,5

K1470

Plastic safety cylinder grips,

auto-return



Cylindrical grips are supplied assembled and can be screwed onto handwheels, crank handles, etc. The cylindrical recess and conical shape ensure that the cylindrical grips have optimised haptics and good grip.

The auto-return mechanism prevents protruding edges, which also minimises the risk of injury.

Material:

Grip, thermoplastic.
Steel axis.

Version:

Grip, black.
Steel parts, black oxidised.

Sample order:

K1470.104

Note:

Two actions must be made to bring the safety cylinder grip into an operating position:

- Swing the grip out around the pivot shaft until it stops (90°).

- Push the grip in an axial direction into the lock position.

The grip swivels back automatically after releasing.

The hole D3 is used as a location hole.

Advantages:

Optimised haptics and good grip

Grips for handwheels and cranks

Self-righting after release

Various thread sizes

NOVO grip KIPP design

KIPP Plastic safety cylinder grips, self-righting

Order No.	Size	A	A1	D	D1	D2	D3	H	L	L1	L3	T
K1470.104	1	8	4,3	M4	14	13	2,5	14,5	35	38	47	4,5
K1470.205	2	10	5,3	M5	16	16	3,5	18	44	47,5	58	4,5
K1470.306	3	12,5	6,5	M6	20	20	4,5	22,5	55	58,5	71,5	6
K1470.408	4	16	9	M8	25	26	5,5	29	70	82	98	6,5

K1515

T-grips, stainless steel, Hygienic USIT®

with female thread



Material:

Stainless steel 1.4404.

Version:

High-gloss polished.

Sample order:

K1515.5505

Note:

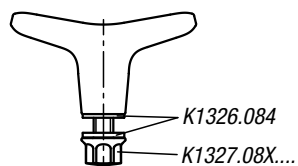
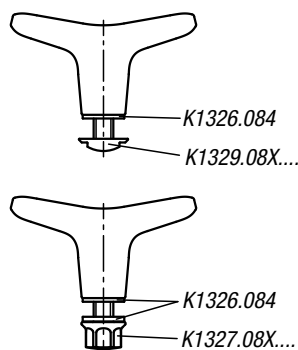
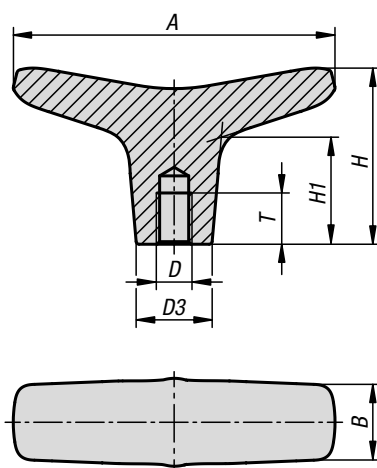
The complete surface is polished to a high gloss with a surface finish of Ra 0.8 µm. This means that dirt and impurities can hardly adhere. Easy cleaning is ensured. The Hygienic USIT® sealing and shim washers from Freudenberg Process are used to seal the fastening point. The shaft of the T-grip is specially designed to suit this seal. A cavity-free seal of the fastening point is created, which satisfies hygienic regulations.

On request:

Other thread depths, inch threads, male threads.

Accessories:

Hygienic USIT® sealing and shim washer Freudenberg Process Seals



KIPP T-grips, stainless steel, Hygienic USIT®, with female thread

Order No.	A	B	D	D3	H	H1	T
K1515.5505	55,2	12,3	M5	11,65	32,9	21	7,5
K1515.6506	65,3	14	M6	14	37	22,7	9
K1515.7508	75,3	17,7	M8	17,8	41,2	24,9	12

K1539

Grease nipple, steel, assortment box



Material:

Steel.

Version:

Electro zinc-plated.

Sample order:

K1539.140

Note:

Grease nipples in an organised assortment box in different forms and thread sizes.

DIN 71412 grease nipples, conical head, Form A (straight):

25 x M6x1
25 x M8x1
15 x M10x1
15 x G1/8"

DIN 71412 grease nipples, conical head, Form B (45°):

10 x M6x1
10 x M8x1
5 x M10x1
5 x G1/8"

DIN 71412 grease nipples, conical head, Form B (90°):

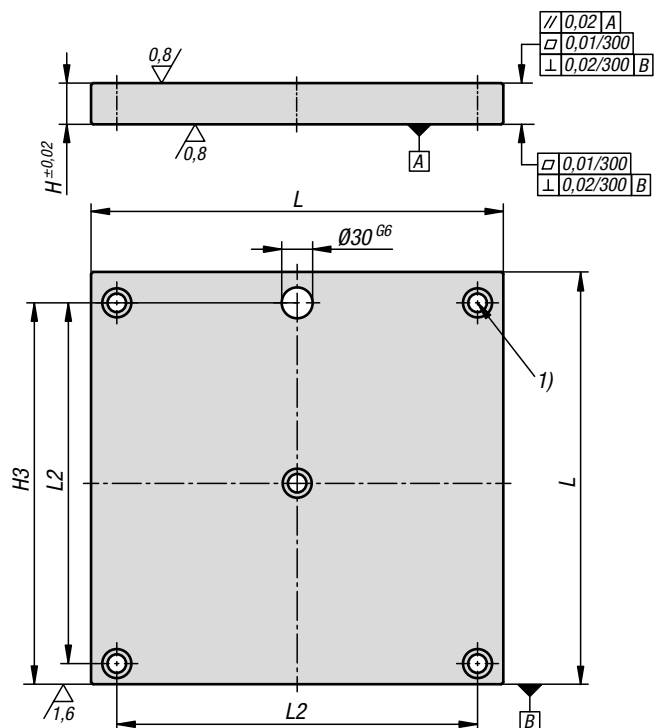
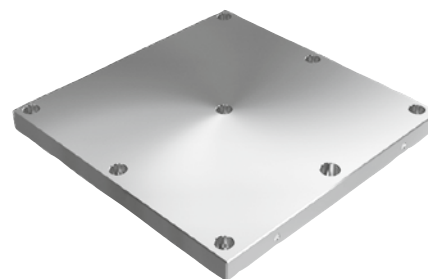
10 x M6x1
10 x M8x1
5 x M10x1
5 x G1/8"

KIPP Grease nipple, steel, assortment box

Order No.	Content
K1539.140	140 pieces

Interchangeable subplates, grey cast iron,

with pre-machined clamping faces



Material:

GJL 300.

Version:

Support and mounting surfaces ground

Sample order:

K0801.1004040

Note:

Interchangeable subplates with pre-machine clamping faces are used double-sided, together with the tombstones. The interchangeable subplates are positioned and mounted on both sides of the tombstone. This means that clamping fixtures can be replaced efficiently. The interchangeable subplates can be machined accordingly by the customer.

Drawing reference:

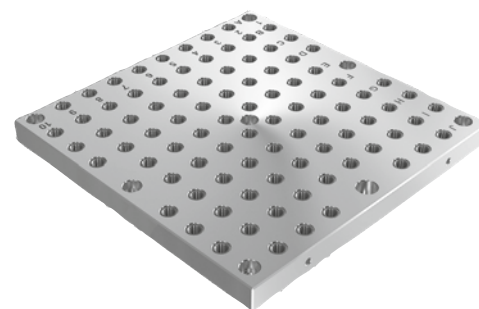
1) hole for DIN 912 cap screw, M16

KIPP Interchangeable subplates, grey cast iron, with pre-machined clamping faces

Order No.	L	H	H3	L2	No. of fastening holes
K0801.1004040	400	40	370	350	5
K0801.1005050	500	40	470	450	7
K0801.1006363	630	40	600	580	7
K0801.1008080	800	50	770	750	7

K0801

Interchangeable subplates, grey cast iron, with grid holes


Material:

GJL 300.

Version:

Mounting surfaces ground

Sample order:

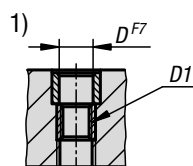
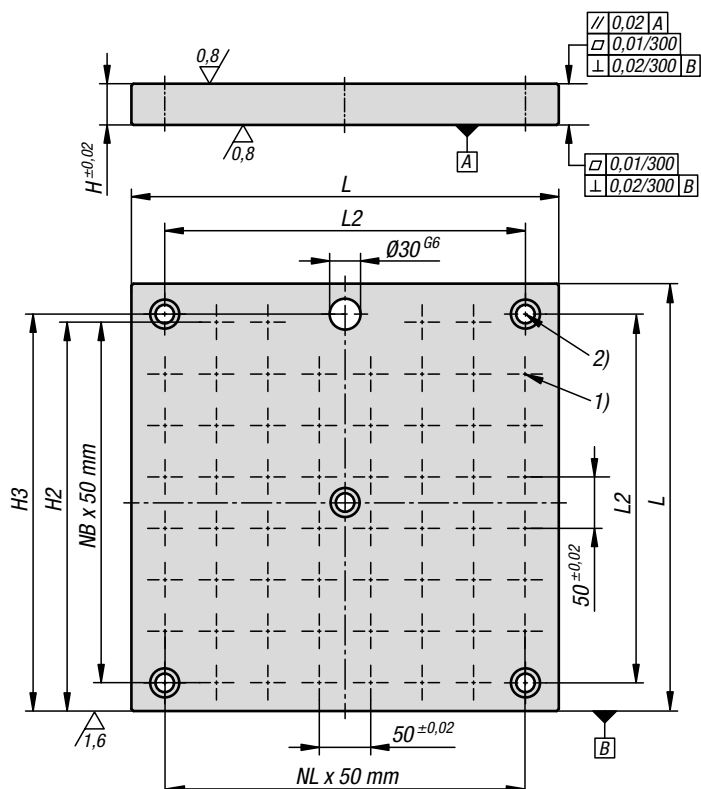
K0801.2124040

Note:

Interchangeable subplates with grid holes are used double-sided, together with the tombstones. The interchangeable subplates are positioned and mounted on both sides of the tombstone. This means that clamping fixtures can be replaced efficiently. The alphanumerically labelled grid holes mean that the clamping elements can be assigned in a defined manner in the event of repeat setups. Please order protection plugs to plug unused grid holes separately.

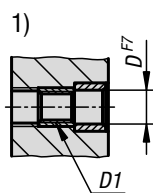
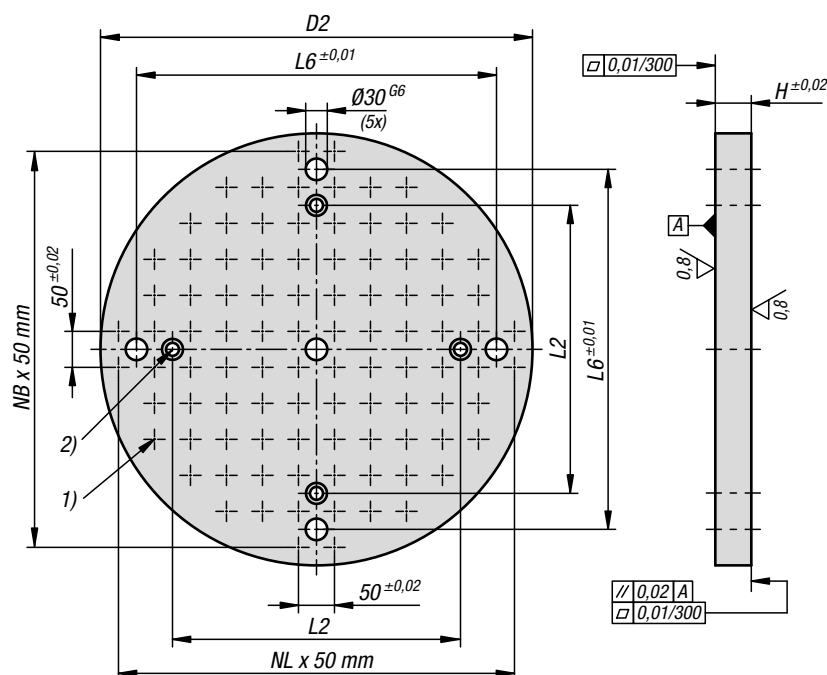
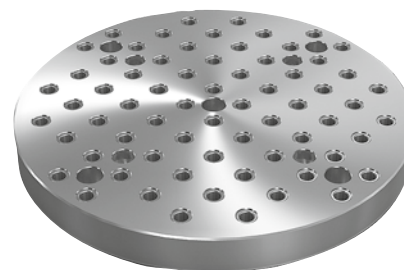
Drawing reference:

- 1) grid hole
- 2) hole for DIN 912 cap screw, M16


KIPP Interchangeable subplates, grey cast iron, with grid holes

Order No.	L	H	D	D1	H2	H3	L2	N1=No. of grid holes	NL=No. lengthwise	NB=No. across	No. of fastening holes
K0801.2124040	400	40	12	M12	370	370	350	58	7	7	5
K0801.2125050	500	40	12	M12	470	470	450	94	9	9	7
K0801.2126363	630	40	12	M12	585	600	580	138	11	11	7
K0801.2128080	800	50	12	M12	770	770	750	250	15	15	7
K0801.2164040	400	40	16	M16	370	370	350	58	7	7	5
K0801.2165050	500	40	16	M16	470	470	450	90	9	9	7
K0801.2166363	630	40	16	M16	585	600	580	138	11	11	7
K0801.2168080	800	50	16	M16	770	770	750	246	15	15	7

Baseplates, grey cast iron, round,
with grid holes



Material:
GJL 300.

Version:
Support and mounting surfaces ground

Sample order:
K1532.21230050

Note:
Grid spacing 50 ±0,02 mm.
Round baseplates with grid holes are used for setting up modular fixtures. These baseplates are positioned and mounted directly on machine tables.
The aligning holes are used to align the baseplate on the machine table.
Please order locating pins to locate the baseplates separately.
Please order protection plugs to plug unused grid holes separately.
Ring bolts for hoisting are supplied.
Other dimensions available on request.

On request:
other dimensions.

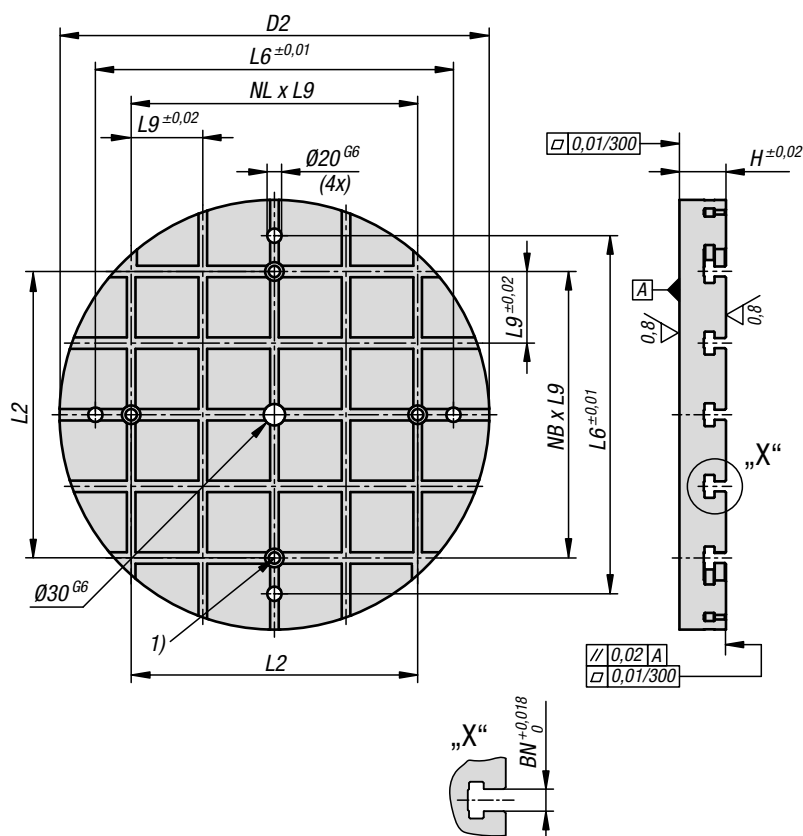
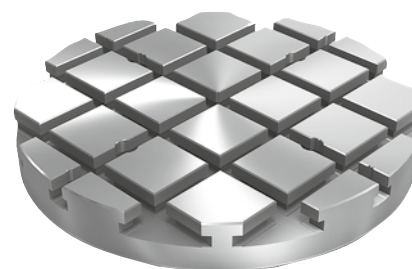
Drawing reference:
1) grid hole
2) hole for DIN 912 cap screw (D4)

KIPP Baseplates, grey cast iron, round, with grid holes

Order No.	D2	H	D	D1	D4	L2	L6	N1=No. of grid holes	NL=No. lengthwise	NB=No. across
K1532.21230050	300	50	12	M12	M12	150	220	24	5	5
K1532.21240050	400	50	12	M12	M12	250	320	44	7	7
K1532.21250050	500	50	12	M12	M16	300	400	68	9	9
K1532.21260050	600	50	12	M12	M16	400	500	96	11	11
K1532.21650050	500	50	16	M16	M16	300	400	68	9	9
K1532.21660050	600	50	16	M16	M16	400	500	96	11	11

K1532

Baseplates, grey cast iron, round, with T-slots

**Material:**

GJL 300.

Version:

Support and mounting surfaces ground

Sample order:

K1532.31430050

Note:

Round baseplates with T-slots are used for constructing modular fixtures. These baseplates are positioned and mounted directly on machine tables. The precise longitudinal and transverse slot spacing ensures very high repeat clamping accuracy. The aligning holes are used to align the baseplate on the machine table. Please order locating pins to locate the baseplates separately. Ring bolts with T-nuts for hoisting are supplied. Other dimensions available on request.

On request:

other dimensions.

Drawing reference:

1) hole for DIN 912 cap screw (D4)

KIPP Baseplates, grey cast iron, round, with T-slots

Order No.	D2	H	D4	L2	L6	L9	BN=slot width	NL=No. lengthwise	NB=No. across
K1532.31430050	300	50	M12	150	250	75	14	2	2
K1532.31440050	400	50	M12	250	350	75	14	4	4
K1532.31850065	500	65	M16	300	450	100	18	4	4
K1532.31860065	600	65	M16	400	550	100	18	4	4

Clamping towers, grey cast iron, 4-sided, with pre-machined clamping faces



Material:
GJL 300.

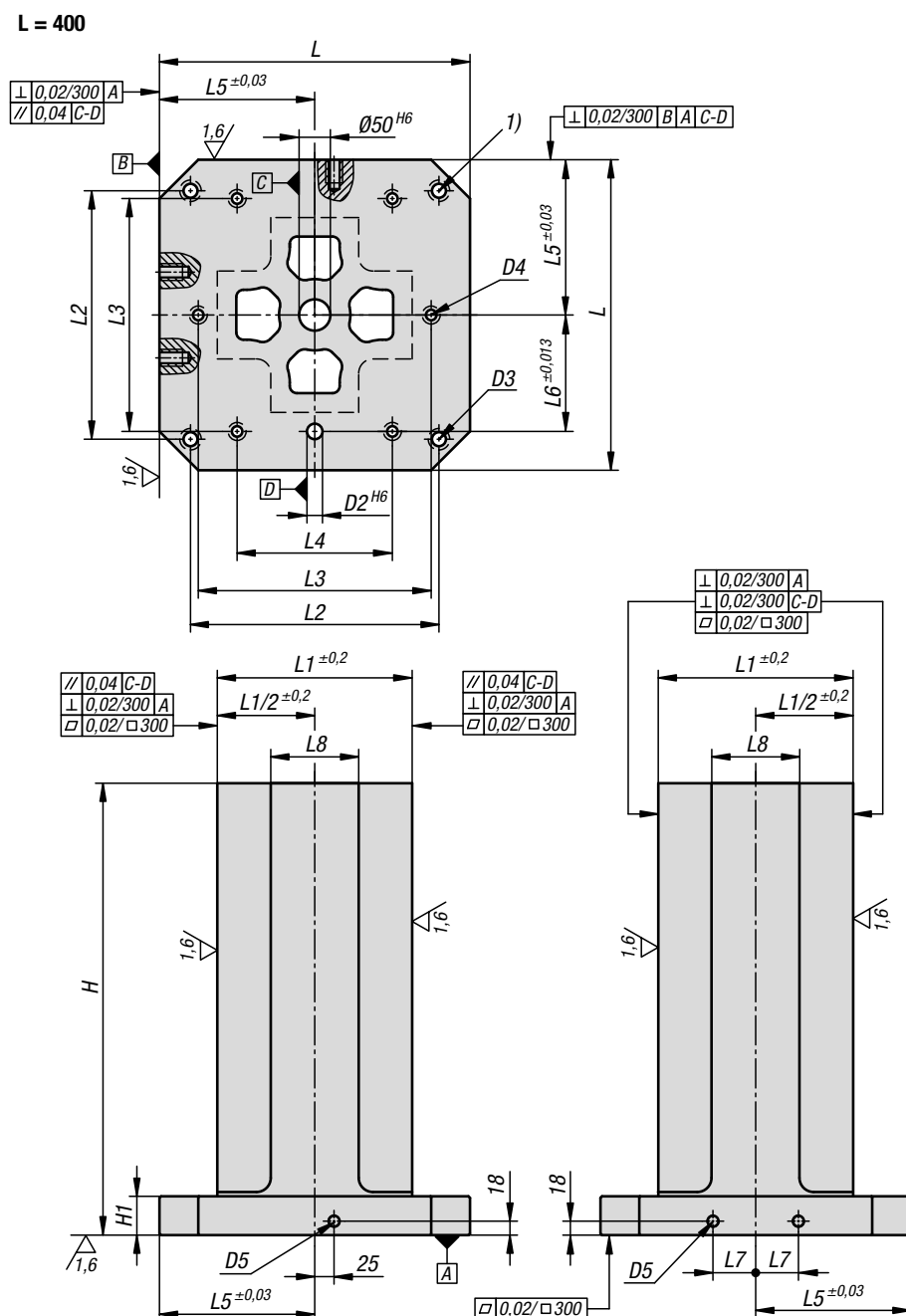
Version:
Support and clamping faces are precision-machined.
The clamping faces have a +1 mm allowance.

Sample order:
K1533.10040050

Note:
Clamping towers with pre-machined clamping faces provide a fast and economic way of producing bodies with specific grid or individual holes. The base is ready for mounting on the machine table. The clamping faces can be machined to the end dimensions by the user. The clamping towers conform to machine tables for machine tools acc. to DIN 55201 and JIS6337-1980. Please order locating pins for positioning subplates on machine tables acc. to DIN 55201 separately. Ring bolts for hoisting are supplied. Other dimensions available on request.

On request:
other dimensions.

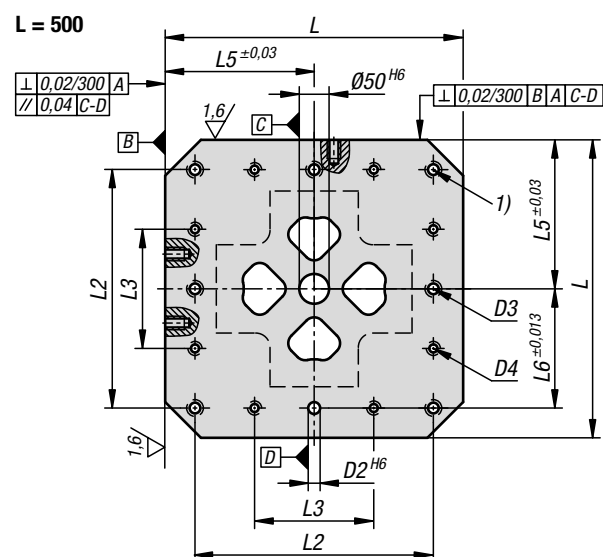
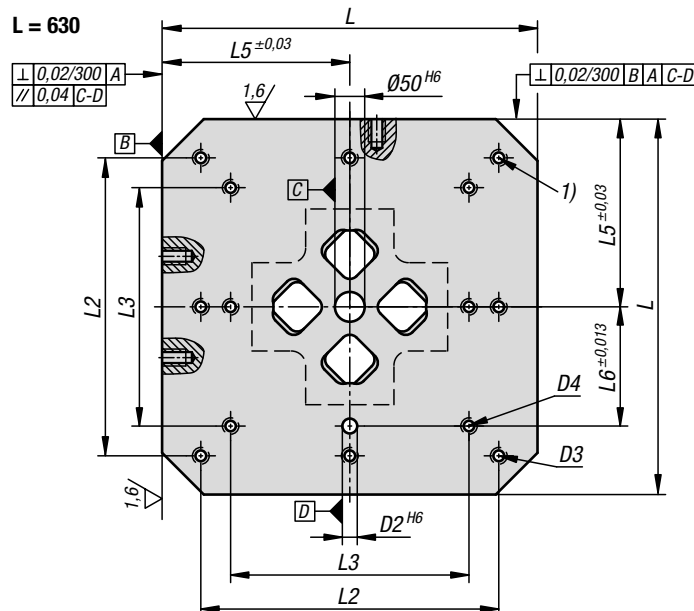
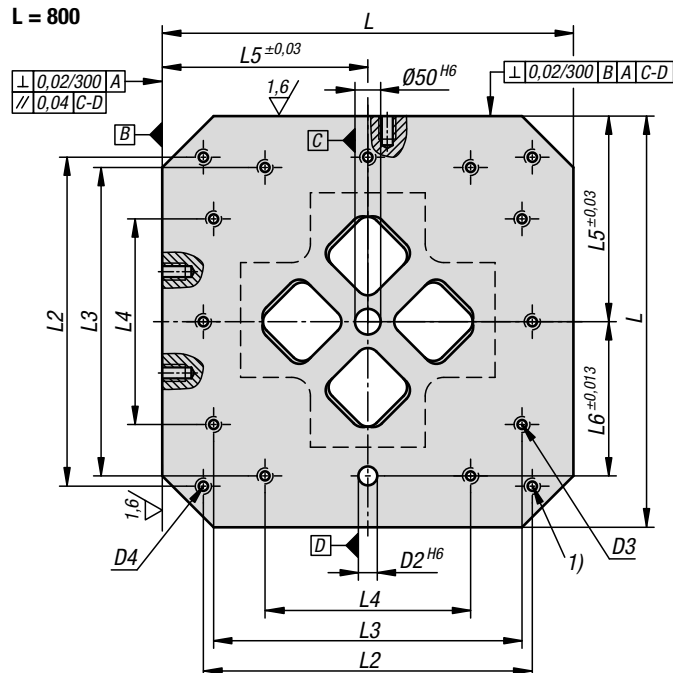
Drawing reference:
1) hole for DIN 912 cap screw (D3/D4)



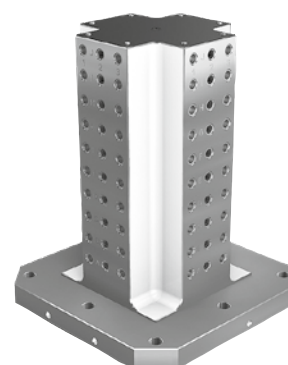
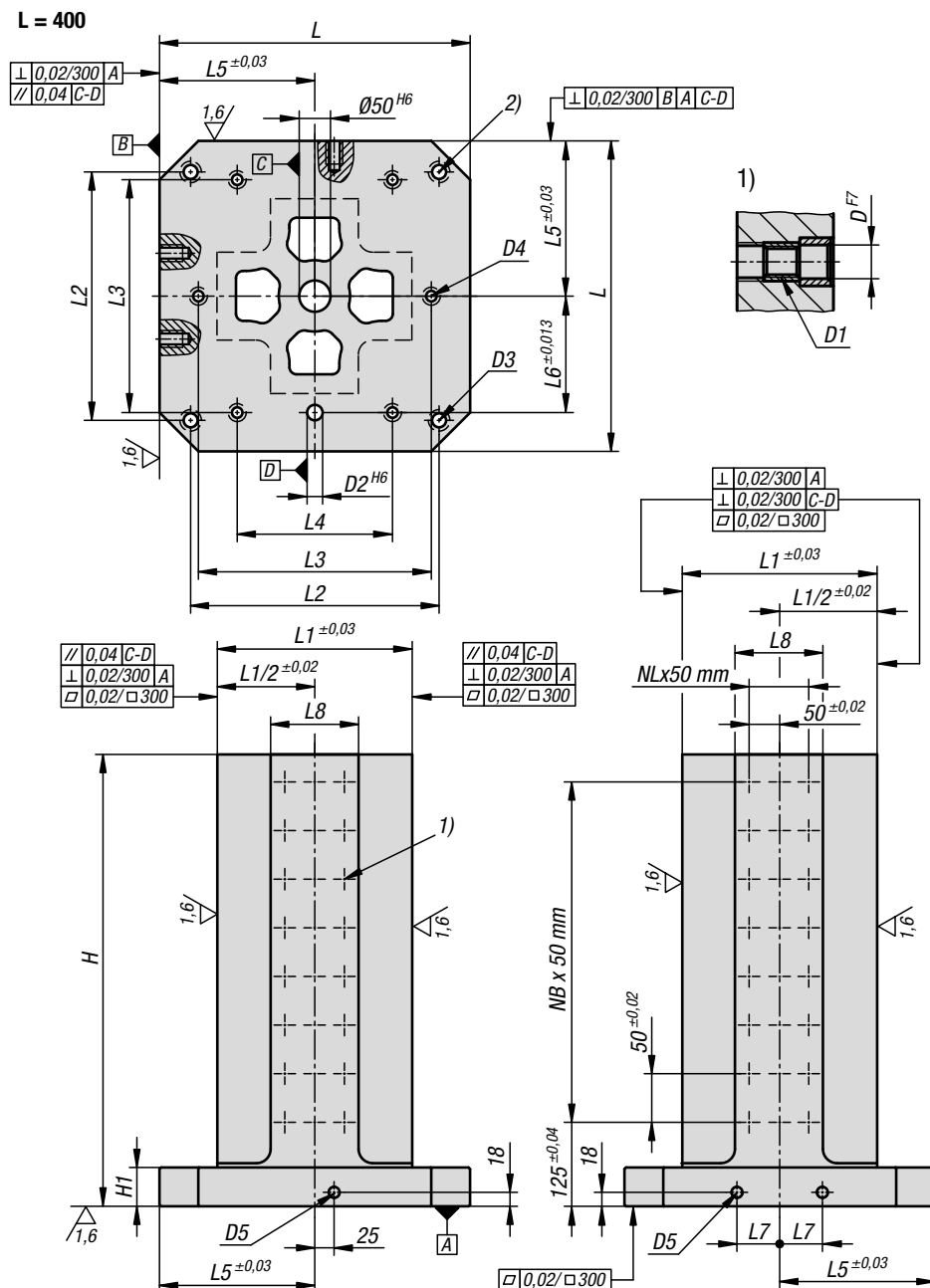
KIPP Clamping towers, grey cast iron, 4-sided, with pre-machined clamping faces

Order No.	L	H	H1	D2	D3	D4	D5	L1	L2	L3	L4	L5	L6	L7	L8
K1533.10040050	400	500	50	20	M16	M12	M 16	251	320	300	200	200	150	55	125
K1533.10040065	400	650	50	20	M16	M12	M 16	251	320	300	200	200	150	55	125
K1533.10050060	500	600	50	20	M16	M12	M 16	301	400	200	-	250	200	75	150
K1533.10050075	500	750	50	20	M16	M12	M 16	301	400	200	-	250	200	75	150
K1533.10063070	630	700	50	25	M16	M16	M 16	351	500	400	-	315	200	100	200
K1533.10063085	630	850	50	25	M16	M16	M 16	351	500	400	-	315	200	100	200
K1533.10080080	800	800	50	25	M16	M16	M 16	501	640	600	400	400	300	135	300
K1533.10080100	800	1000	50	25	M16	M16	M 16	501	640	600	400	400	300	135	300

Clamping towers, grey cast iron, 4-sided, with pre-machined clamping faces


L = 500

L = 630

L = 800


Clamping towers, grey cast iron, 4-sided, with grid holes



Material:

GJL 300.

Version:

Support and mounting surfaces precision machined

Sample order:

K1533.21240050

Note:

Grid spacing 50 ± 0.02 mm.

Clamping towers with grid holes are used on horizontal machining centres.

The alphanumerically labelled grid holes mean that the clamping elements can be assigned in a defined manner in the event of repeat setups.

The clamping towers conform to machine tables for machine tools acc. to DIN 55201 and JIS6337-1980.

Please order locating pins for positioning subplates on machine tables acc. to DIN 55201 separately.

Please order protection plugs to plug unused grid holes separately.

Ring bolts for hoisting are supplied.

Other dimensions available on request.

On request:

other dimensions.

Drawing reference:

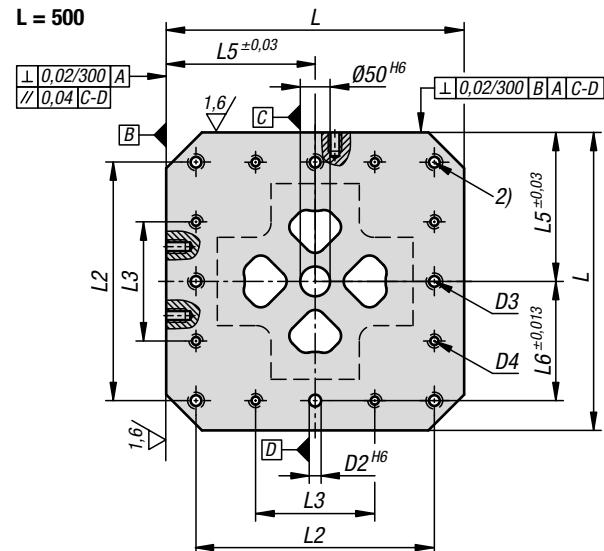
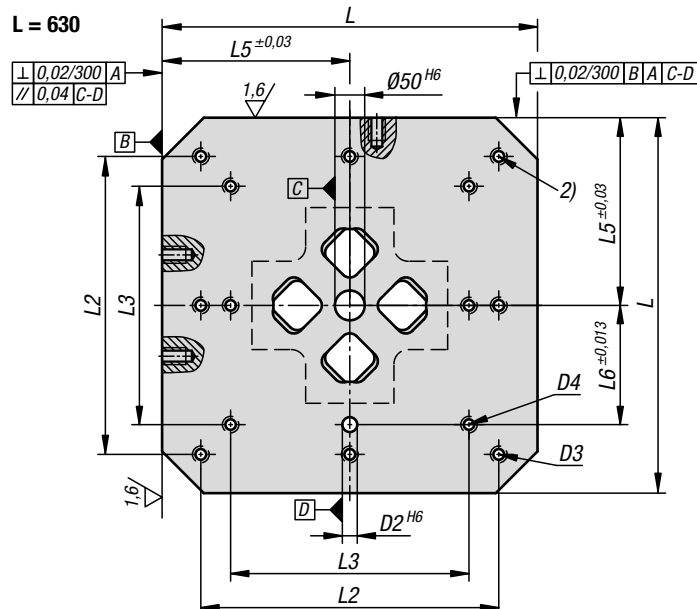
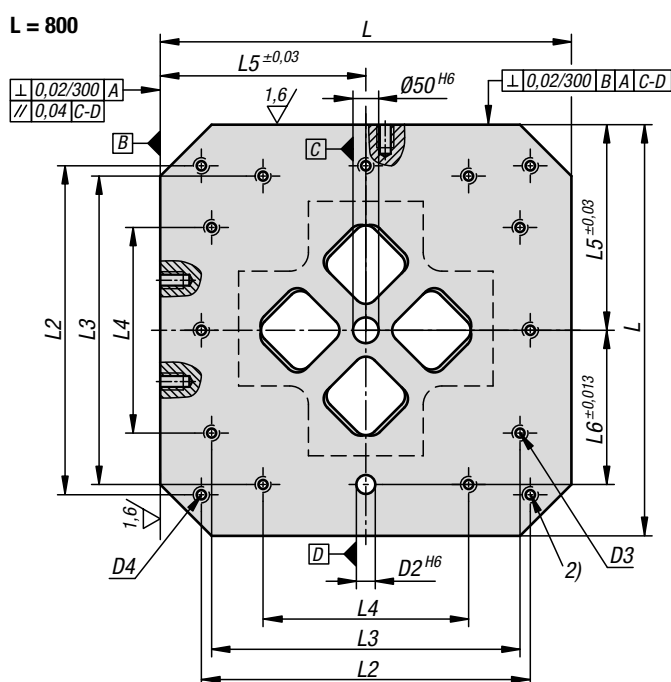
1) grid hole

2) hole for DIN 912 cap screw (D3/D4)

KIPP Clamping towers, grey cast iron, 4-sided, with grid holes

Order No. D=Reamed hole 12	Order No. D=Reamed hole 16	L	H	H1	D1	D2	D3	D4	D5	L1	L2
K1533.21240050	K1533.21640050	400	500	50	M12/M16	20	M16	M12	M 16	250	320
K1533.21240065	K1533.21640065	400	650	50	M12/M16	20	M16	M12	M 16	250	320
K1533.21250060	K1533.21650060	500	600	50	M12/M16	20	M16	M12	M 16	300	400
K1533.21250075	K1533.21650075	500	750	50	M12/M16	20	M16	M12	M 16	300	400
K1533.21263070	K1533.21663070	630	700	50	M12/M16	25	M16	M16	M 16	350	500
K1533.21263085	K1533.21663085	630	850	50	M12/M16	25	M16	M16	M 16	350	500
K1533.21280080	K1533.21680080	800	800	50	M12/M16	25	M16	M16	M 16	500	640
K1533.21280100	K1533.21680100	800	1000	50	M12/M16	25	M16	M16	M 16	500	640

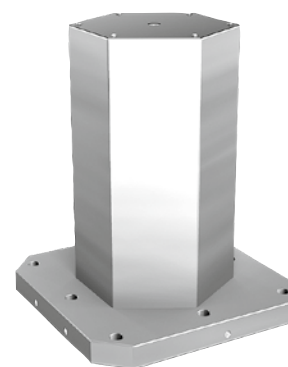
Clamping towers, grey cast iron, 4-sided, with grid holes


L = 500

L = 630

L = 800


Order No. D=Reamed hole 12	Order No. D=Reamed hole 16	L3	L4	L5	L6	L7	L8	No. of grid holes	NL=No. lengthwise	NB=No. across
K1533.21240050	K1533.21640050	300	200	200	150	55	125	64	1	7
K1533.21240065	K1533.21640065	300	200	200	150	55	125	88	1	10
K1533.21250060	K1533.21650060	200	-	250	200	75	150	120	2	9
K1533.21250075	K1533.21650075	200	-	250	200	75	150	156	2	12
K1533.21263070	K1533.21663070	400	-	315	200	100	200	192	3	11
K1533.21263085	K1533.21663085	400	-	315	200	100	200	240	3	14
K1533.21280080	K1533.21680080	600	400	400	300	135	300	336	5	13
K1533.21280100	K1533.21680100	600	400	400	300	135	300	432	5	17

Clamping towers, grey cast iron, 6-sided,

with pre-machined clamping faces



Material:

GJL 300.

Version:

Support and clamping faces are precision-machined. The clamping faces have a +1 mm allowance.

Sample order:

K1534.10040050

Note:

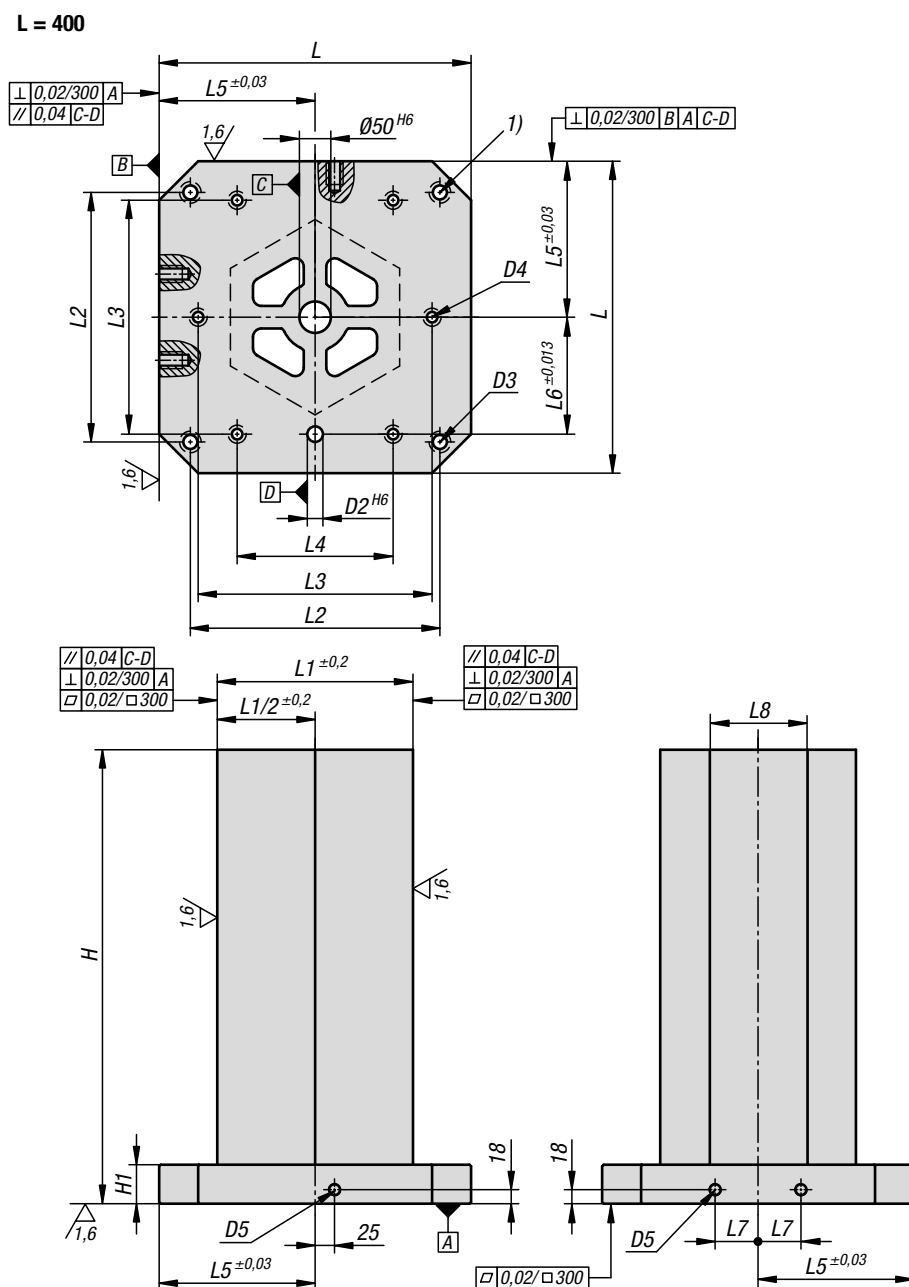
Clamping towers with pre-machined clamping faces provide a fast and economic way of producing bodies with specific grid or individual holes. The base is ready for mounting on the machine table. The clamping faces can be machined to the end dimensions by the user. The clamping towers conform to machine tables for machine tools acc. to DIN 55201 and JIS6337-1980. Please order locating pins for positioning subplates on machine tables acc. to DIN 55201 separately. Ring bolts for hoisting are supplied. Other dimensions available on request.

On request:

other dimensions.

Drawing reference:

1) hole for DIN 912 cap screw (D3/D4)



KIPP Clamping towers, grey cast iron, 6-sided, with pre-machined clamping faces

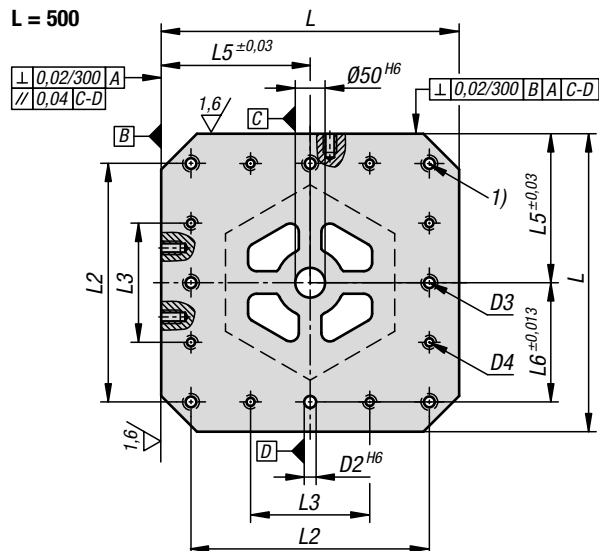
Order No.	L	H	H1	D2	D3	D4	D5	L1	L2	L3	L4	L5	L6	L7	L8
K1534.10040050	400	500	50	20	M16	M12	M 16	251	320	300	200	200	150	55	144,6
K1534.10040065	400	650	50	20	M16	M12	M 16	251	320	300	200	200	150	55	144,6
K1534.10050060	500	600	50	20	M16	M12	M 16	301	400	200	-	250	200	75	173,6
K1534.10050075	500	750	50	20	M16	M12	M 16	301	400	200	-	250	200	75	173,6
K1534.10063070	630	700	50	25	M16	M16	M 16	351	500	400	-	315	200	100	202,6
K1534.10063085	630	850	50	25	M16	M16	M 16	351	500	400	-	315	200	100	202,6
K1534.10080080	800	800	50	25	M16	M16	M 16	501	640	600	400	400	300	135	289,6
K1534.10080100	800	1000	50	25	M16	M16	M 16	501	640	600	400	400	300	135	289,6

K1534

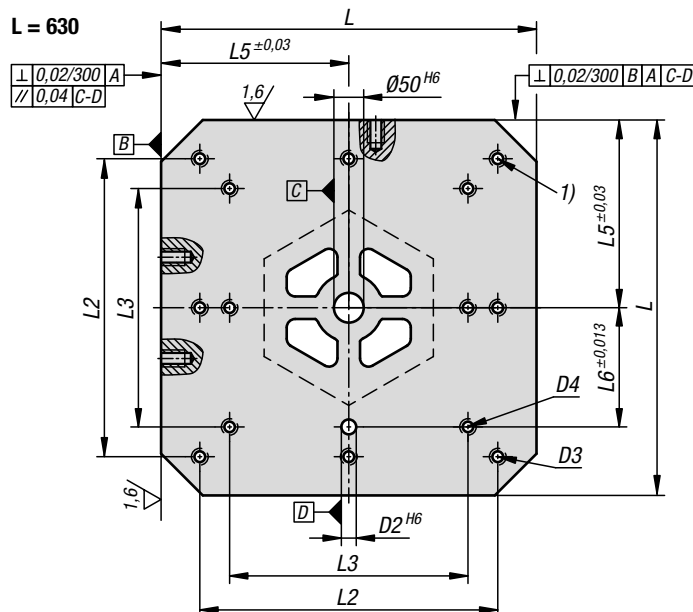
Clamping towers, grey cast iron, 6-sided, with pre-machined clamping faces



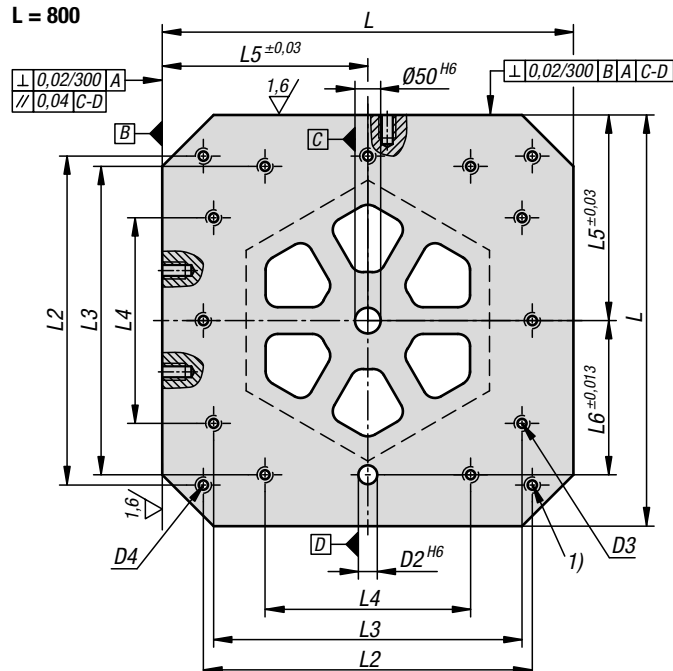
L = 500



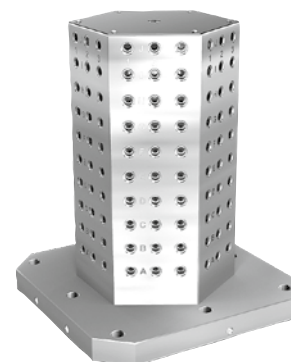
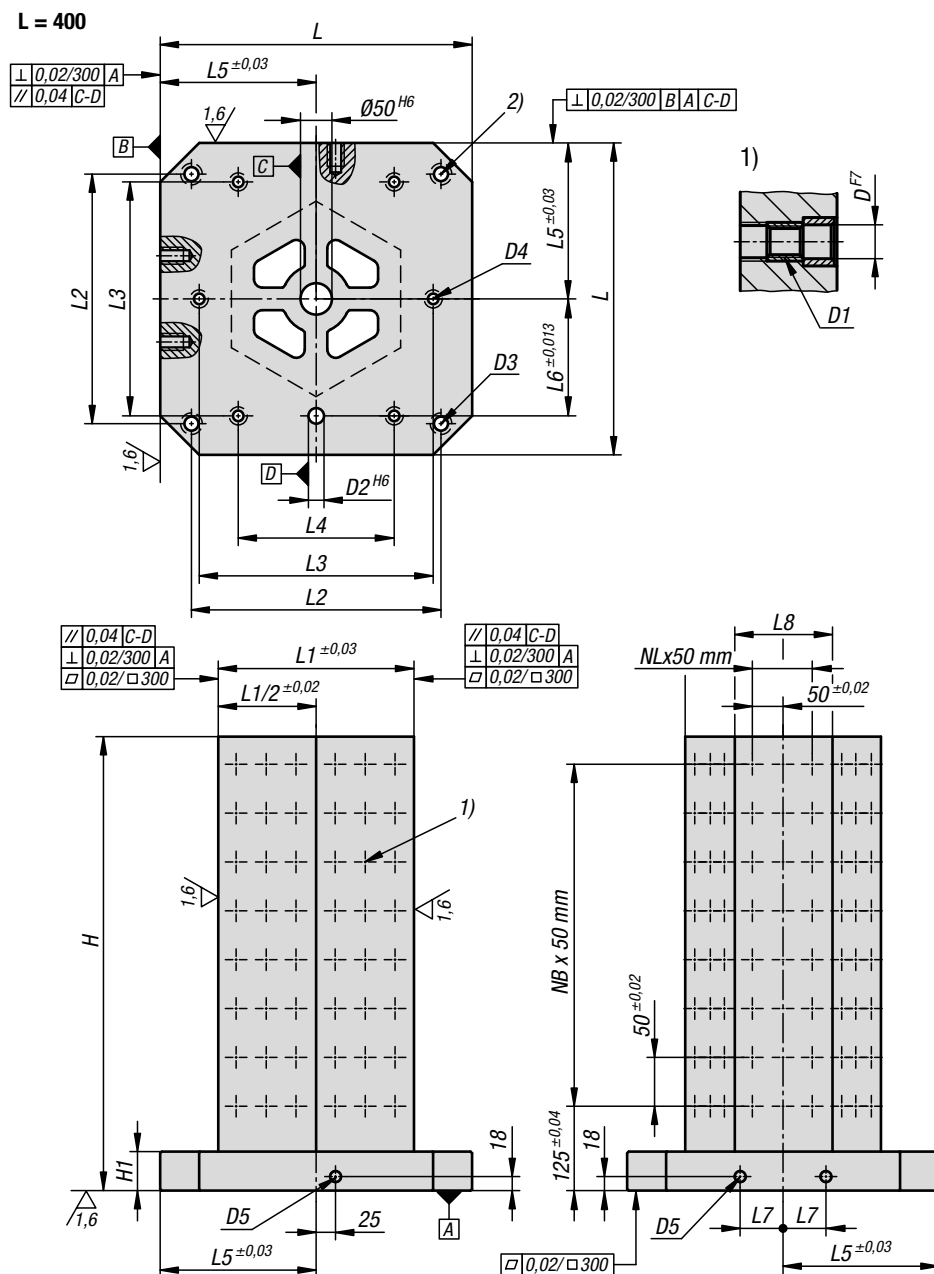
L = 630



L = 800



Clamping towers, grey cast iron, 6-sided, with grid holes



Material:
GJL 300.

Version:
Support and mounting surfaces precision
machined

Sample order:
K1534.21240050

Note:
Grid spacing 50 $\pm$ 0.02 mm.
Clamping towers with grid holes are used on horizontal machining centres.
The alphanumerically labelled grid holes mean that the clamping elements can be assigned in a defined manner in the event of repeat setups.
The clamping towers conform to machine tables for machine tools acc. to DIN 55201 and JIS6337-1980.
Please order locating pins for positioning subplates on machine tables acc. to DIN 55201 separately.
Please order protection plugs to plug unused grid holes separately.
Ring bolts for hoisting are supplied.
Other dimensions available on request.

On request:
other dimensions.

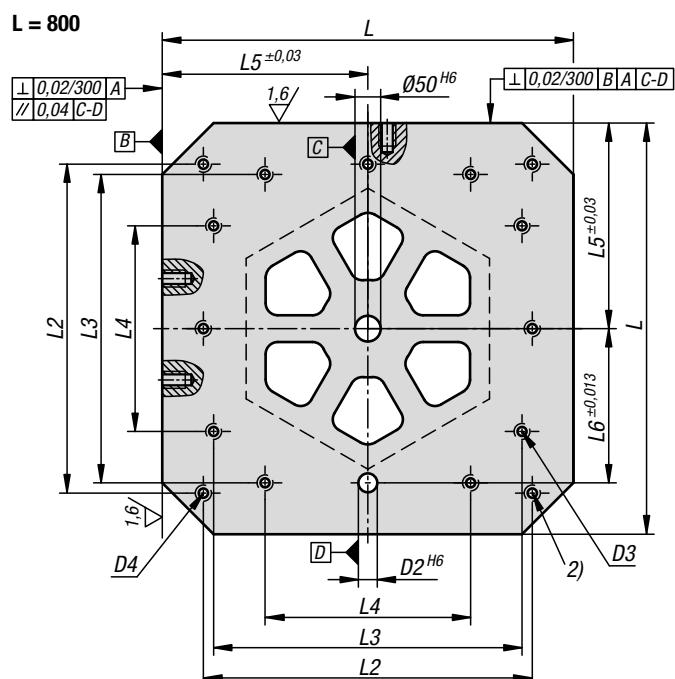
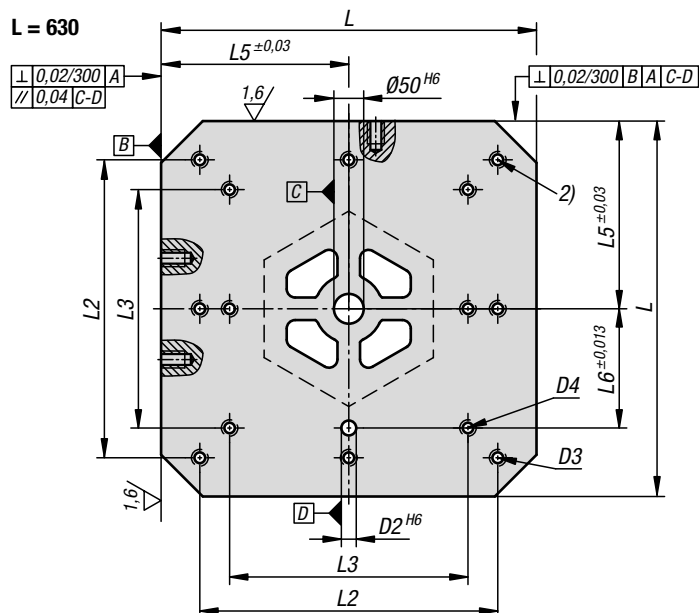
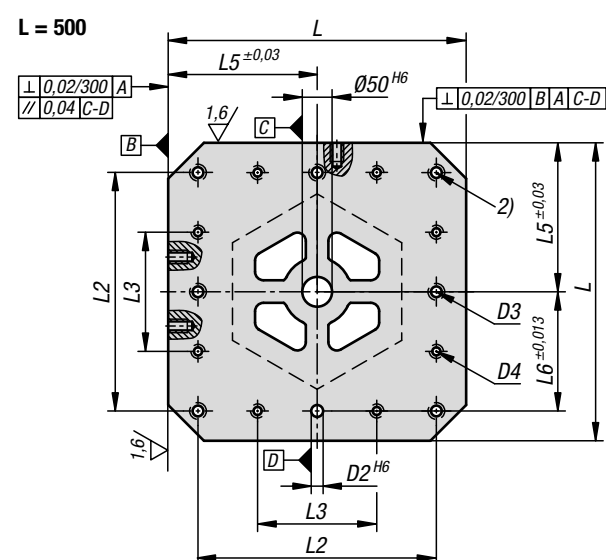
Drawing reference:

- 1) grid hole
- 2) hole for DIN 912 cap screw (D3/D4)

KIPP Clamping towers, grey cast iron, 6-sided, with grid holes

Order No. D=Reamed hole 12	Order No. D=Reamed hole 16	L	H	H1	D1	D2	D3	D4	D5	L1	L2
K1534.21240050	K1534.21640050	400	500	50	M12/M16	20	M16	M12	M 16	250	320
K1534.21240065	K1534.21640065	400	650	50	M12/M16	20	M16	M12	M 16	250	320
K1534.21250060	K1534.21650060	500	600	50	M12/M16	20	M16	M12	M 16	300	400
K1534.21250075	K1534.21650075	500	750	50	M12/M16	20	M16	M12	M 16	300	400
K1534.21263070	K1534.21663070	630	700	50	M12/M16	25	M16	M16	M 16	350	500
K1534.21263085	K1534.21663085	630	850	50	M12/M16	25	M16	M16	M 16	350	500
K1534.21280080	K1534.21680080	800	800	50	M12/M16	25	M16	M16	M 16	500	640
K1534.21280100	K1534.21680100	800	1000	50	M12/M16	25	M16	M16	M 16	500	640

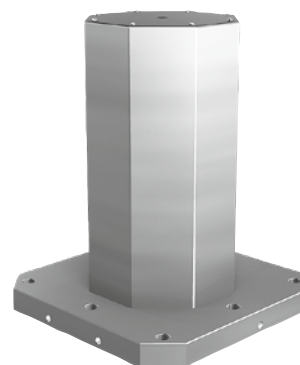
Clamping towers, grey cast iron, 6-sided, with grid holes



Order No. D=Reamed hole 12	Order No. D=Reamed hole 16	L3	L4	L5	L6	L7	L8	No. of grid holes	NL=No. lengthwise	NB=No. across
K1534.21240050	K1534.21640050	300	200	200	150	55	144	96	1	7
K1534.21240065	K1534.21640065	300	200	200	150	55	144	132	1	10
K1534.21250060	K1534.21650060	200	-	250	200	75	-	180	2	9
K1534.21250075	K1534.21650075	200	-	250	200	75	-	234	2	12
K1534.21263070	K1534.21663070	400	-	315	200	100	202	216	2	11
K1534.21263085	K1534.21663085	400	-	315	200	100	202	270	2	14
K1534.21280080	K1534.21680080	600	400	400	300	135	-	420	4	13
K1534.21280100	K1534.21680100	600	400	400	300	135	-	540	4	17

Clamping towers, grey cast iron, 8-sided,

with pre-machined clamping faces



Material:

GJL 300.

Version:

Support and clamping faces are precision-machined. The clamping faces have a +1 mm allowance.

Sample order:

K1535.10040050

Note:

Clamping towers with pre-machined clamping faces provide a fast and economic way of producing bodies with specific grid or individual holes. The base is ready for mounting on the machine table. The clamping faces can be machined to the end dimensions by the user. The clamping towers conform to machine tables for machine tools acc. to DIN 55201 and JIS6337-1980.

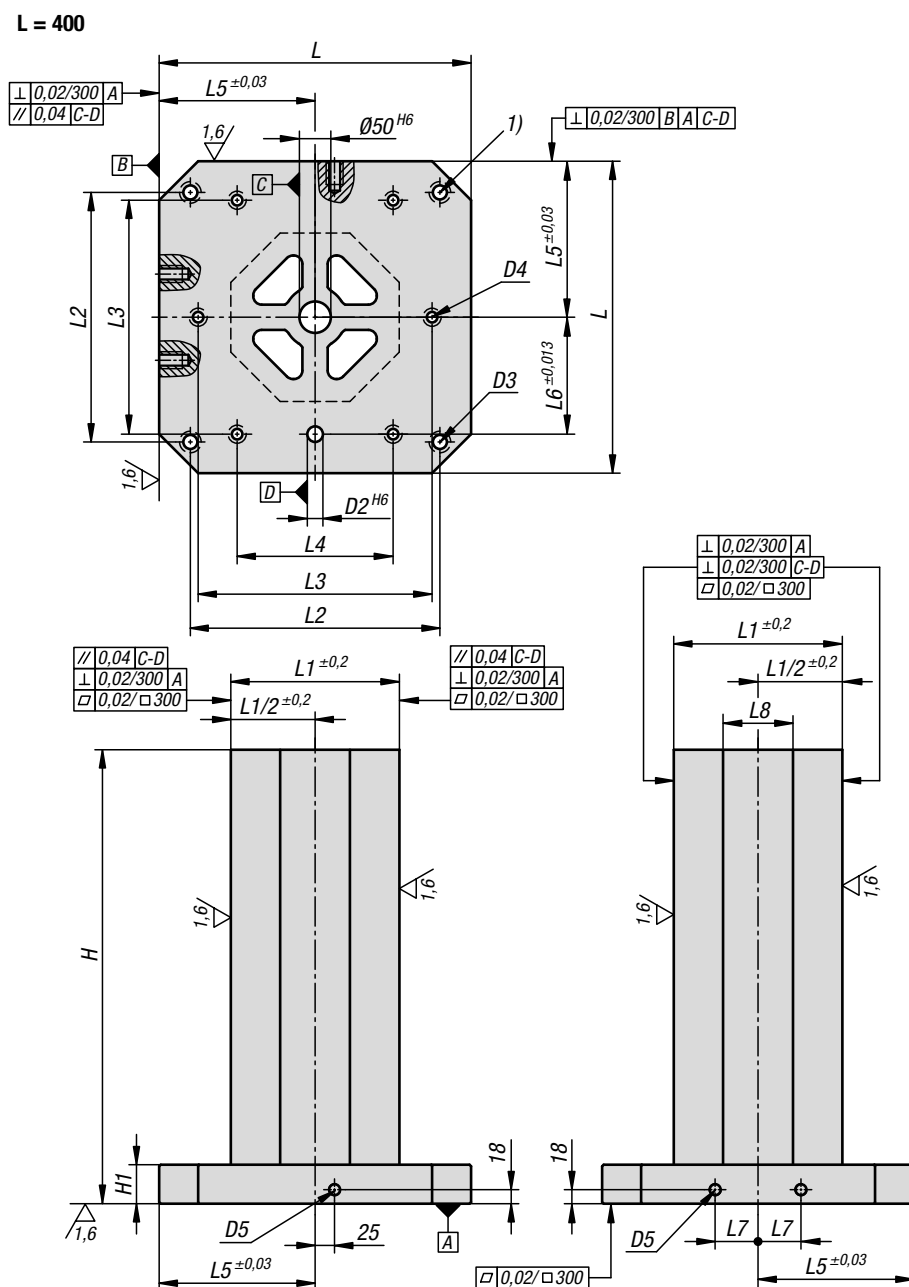
Please order locating pins for positioning subplates on machine tables acc. to DIN 55201 separately. Ring bolts for hoisting are supplied. Other dimensions available on request.

On request:

other dimensions.

Drawing reference:

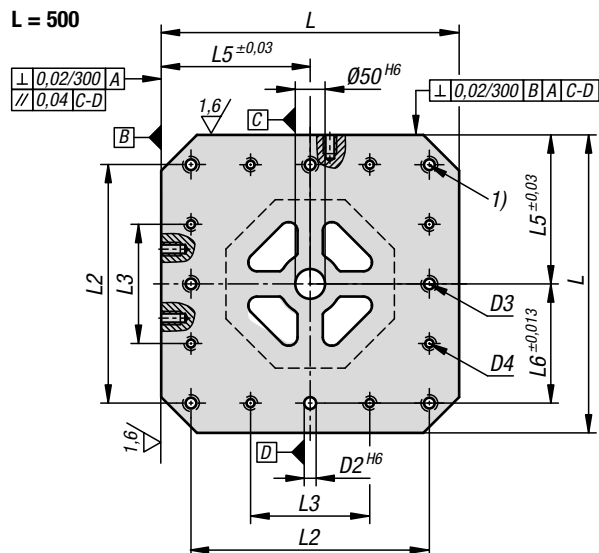
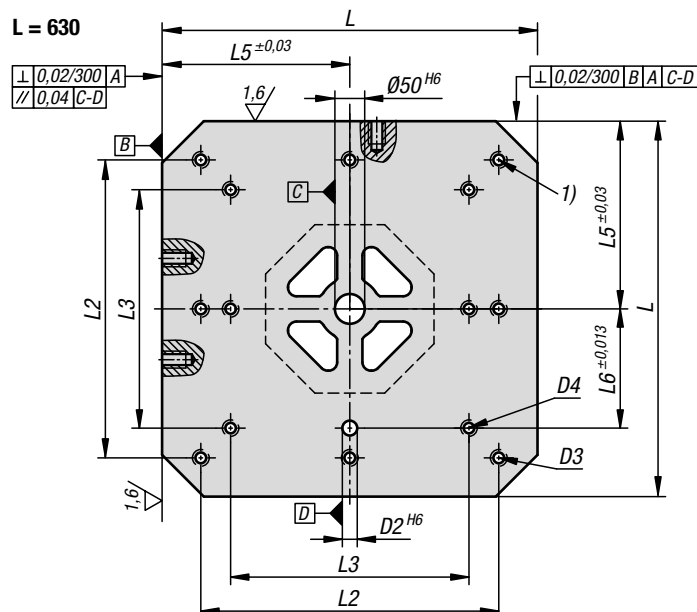
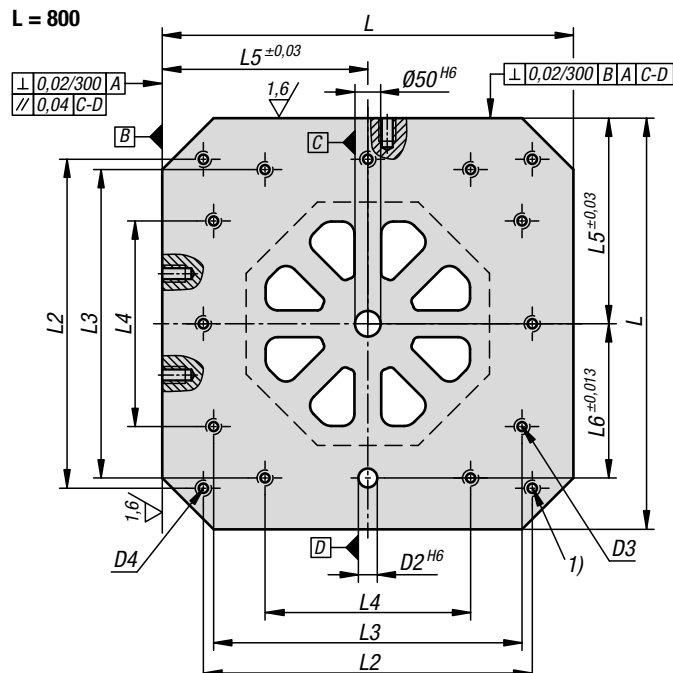
1) hole for DIN 912 cap screw (D3/D4)



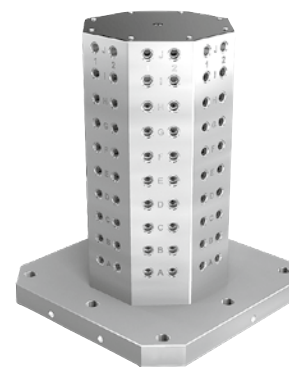
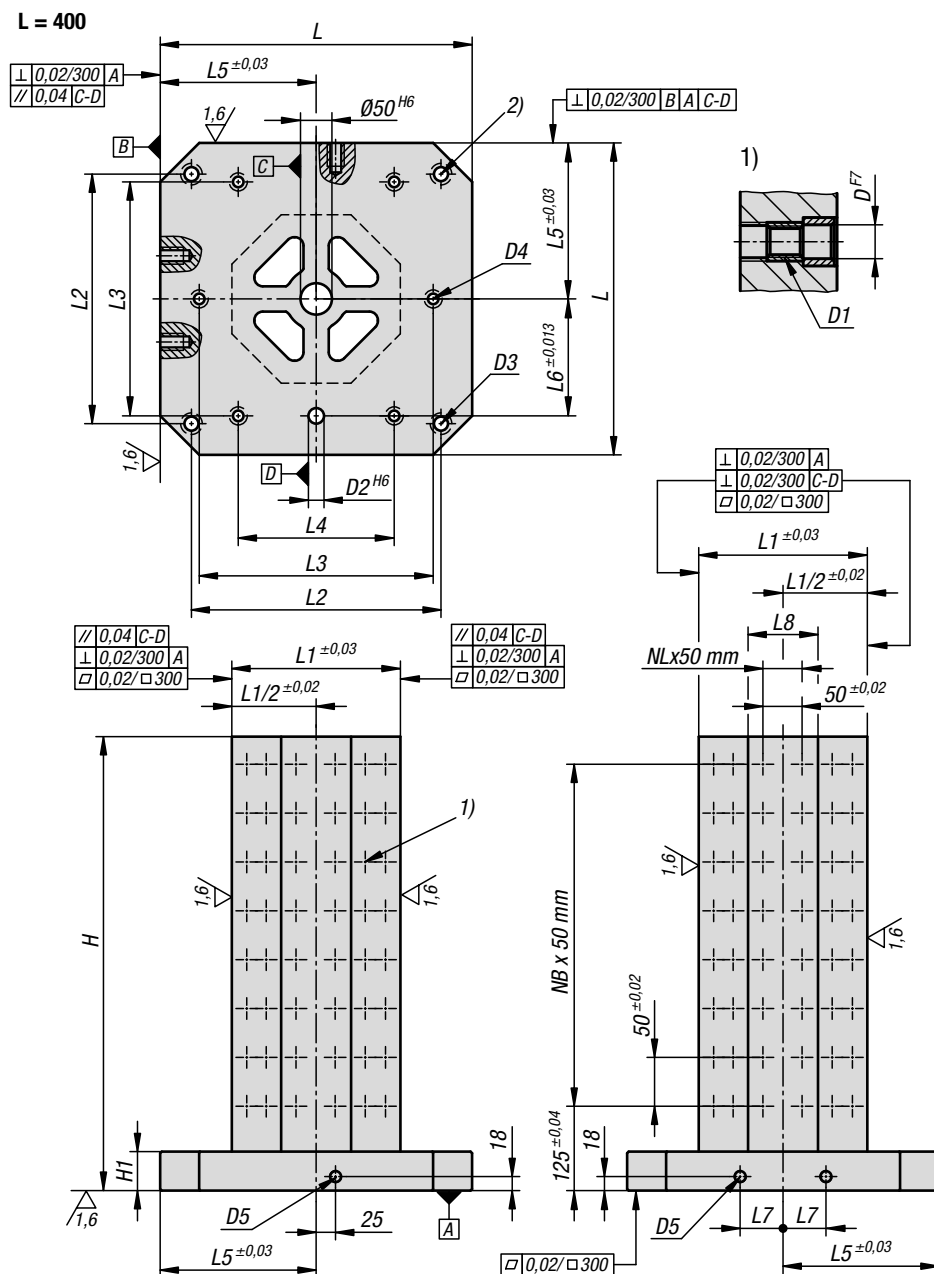
KIPP Clamping towers, grey cast iron, 8-sided, with pre-machined clamping faces

Order No.	L	H	H1	D2	D3	D4	D5	L1	L2	L3	L4	L5	L6	L7	L8
K1535.10040050	400	500	50	20	M16	M12	M 16	251	320	300	200	200	150	55	103,4
K1535.10040065	400	650	50	20	M16	M12	M 16	251	320	300	200	200	150	55	103,4
K1535.10050060	500	600	50	20	M16	M12	M 16	301	400	200	-	250	200	75	124,4
K1535.10050075	500	750	50	20	M16	M12	M 16	301	400	200	-	250	200	75	124,4
K1535.10063070	630	700	50	25	M16	M16	M 16	351	500	400	-	315	200	100	145,4
K1535.10063085	630	850	50	25	M16	M16	M 16	351	500	400	-	315	200	100	145,4
K1535.10080080	800	800	50	25	M16	M16	M 16	501	640	600	400	400	300	135	207,4
K1535.10080100	800	1000	50	25	M16	M16	M 16	501	640	600	400	400	300	135	207,4

Clamping towers, grey cast iron, 8-sided, with pre-machined clamping faces


L = 500

L = 630

L = 800


Clamping towers, grey cast iron, 8-sided, with grid holes



Material:
GJL 300.

Version:
Support and mounting surfaces precision
machined

Sample order:
K1535.21240050

Note:
Grid spacing 50 $\pm$ 0.02 mm.
Clamping towers with grid holes are used on horizontal machining centres.
The alphanumerically labelled grid holes mean that the clamping elements can be assigned in a defined manner in the event of repeat setups.
The clamping towers conform to machine tables for machine tools acc. to DIN 55201 and JIS6337-1980.
Please order locating pins for positioning subplates on machine tables acc. to DIN 55201 separately.
Please order protection plugs to plug unused grid holes separately.
Ring bolts for hoisting are supplied.
Other dimensions available on request.

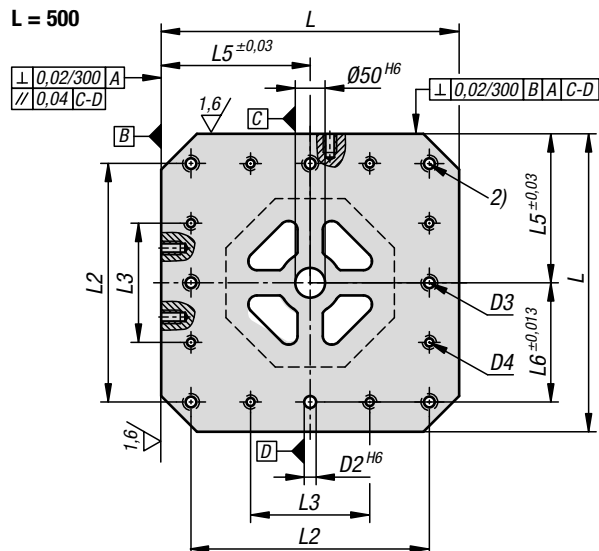
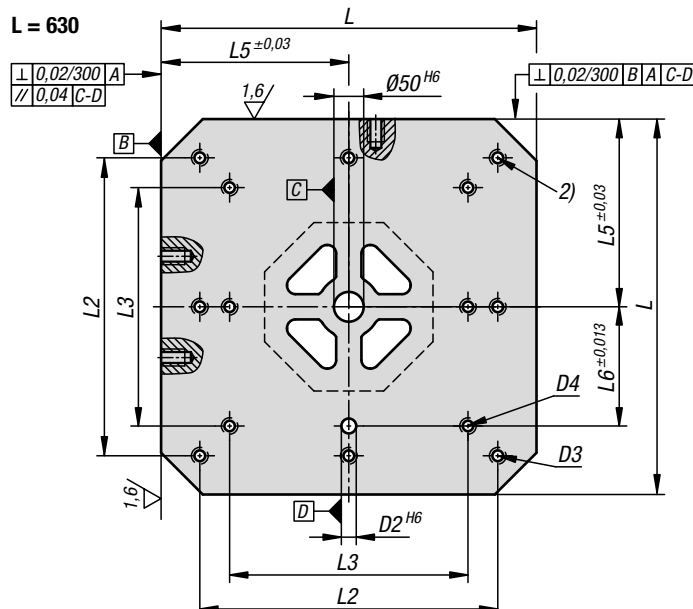
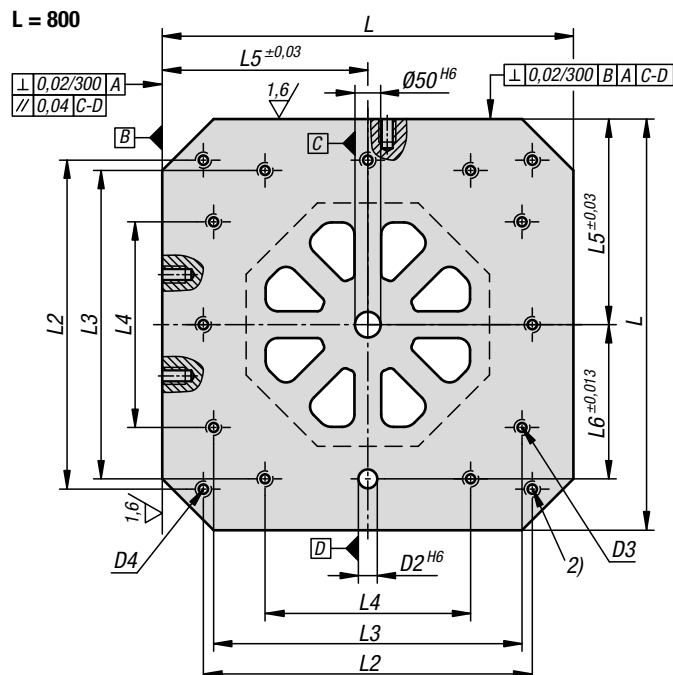
On request:
other dimensions.

Drawing reference:
1) grid hole
2) hole for DIN 912 cap screw (D3/D4)

KIPP Clamping towers, grey cast iron, 8-sided, with grid holes

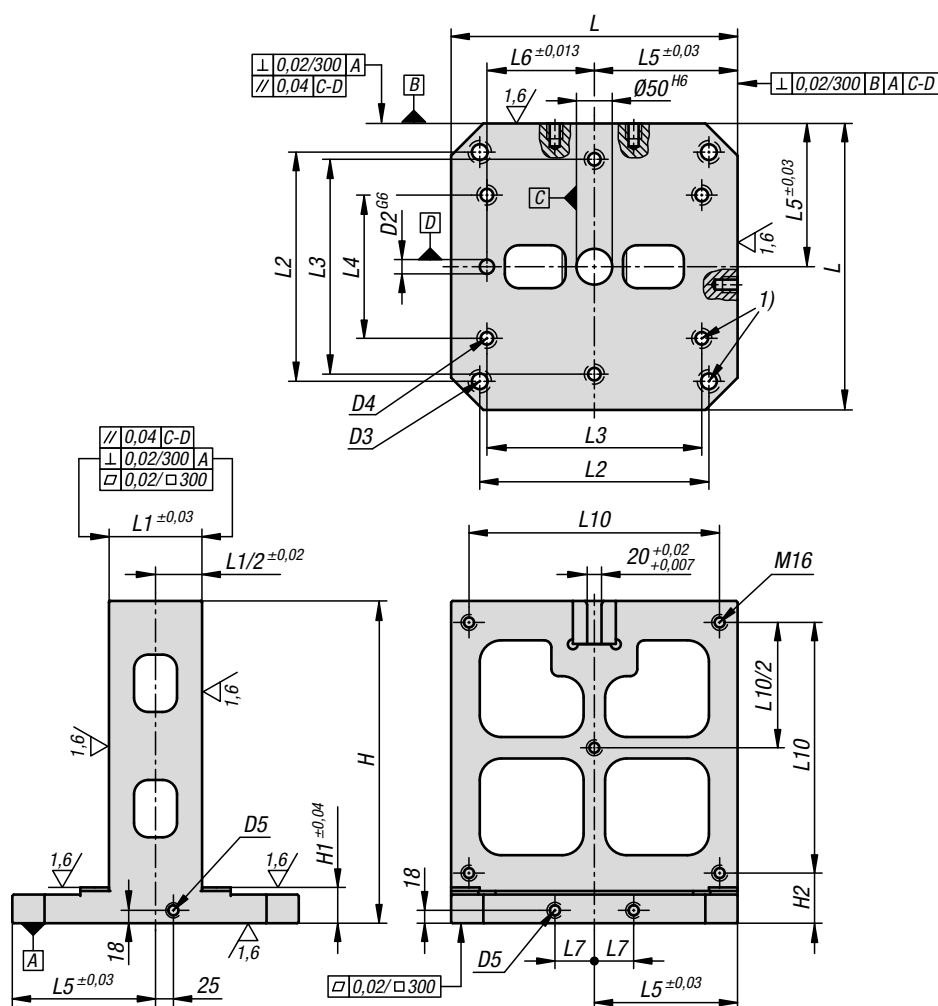
Order No. D=Reamed hole 12	Order No. D=Reamed hole 16	L	H	H1	D1	D2	D3	D4	D5	L1	L2
K1535.21240050	K1535.21640050	400	500	50	M12/M16	20	M16	M12	M 16	250	320
K1535.21240065	K1535.21640065	400	650	50	M12/M16	20	M16	M12	M 16	250	320
K1535.21250060	K1535.21650060	500	600	50	M12/M16	20	M16	M12	M 16	300	400
K1535.21250075	K1535.21650075	500	750	50	M12/M16	20	M16	M12	M 16	300	400
K1535.21263070	K1535.21663070	630	700	50	M12/M16	25	M16	M16	M 16	350	500
K1535.21263085	K1535.21663085	630	850	50	M12/M16	25	M16	M16	M 16	350	500
K1535.21280080	K1535.21680080	800	800	50	M12/M16	25	M16	M16	M 16	500	640
K1535.21280100	K1535.21680100	800	1000	50	M12/M16	25	M16	M16	M 16	500	640

Clamping towers, grey cast iron, 8-sided, with grid holes


L = 500

L = 630

L = 800


Order No. D=Reamed hole 12	Order No. D=Reamed hole 16	L3	L4	L5	L6	L7	L8	No. of grid holes	NL=No. lengthwise	NB=No. across
K1535.21240050	K1535.21640050	300	200	200	150	55	103	128	1	7
K1535.21240065	K1535.21640065	300	200	200	150	55	103	176	1	10
K1535.21250060	K1535.21650060	200	-	250	200	75	124	160	1	9
K1535.21250075	K1535.21650075	200	-	250	200	75	124	208	1	12
K1535.21263070	K1535.21663070	400	-	315	200	100	145	192	1	11
K1535.21263085	K1535.21663085	400	-	315	200	100	145	240	1	14
K1535.21280080	K1535.21680080	600	400	400	300	135	207	448	3	13
K1535.21280100	K1535.21680100	600	400	400	300	135	207	576	3	17

Tombstone, grey cast iron, double-sided, for interchangeable subplates



Material:
GJL 300.

Version:
Support and mounting surfaces precision machined

Sample order:
K0804.14045

Note:
Interchangeable subplates can be positioned and mounted on both sides of the tombstone. This means that clamping fixtures can be replaced efficiently. The tombstones conform to machine tables for machine tools acc. to DIN 55201 and JIS6337-1980. Please order locating pins for positioning subplates on machine tables acc. to DIN 55201 separately.
Ring bolts for hoisting are supplied, as well as 2 positioning pins for positioning the interchangeable subplates.

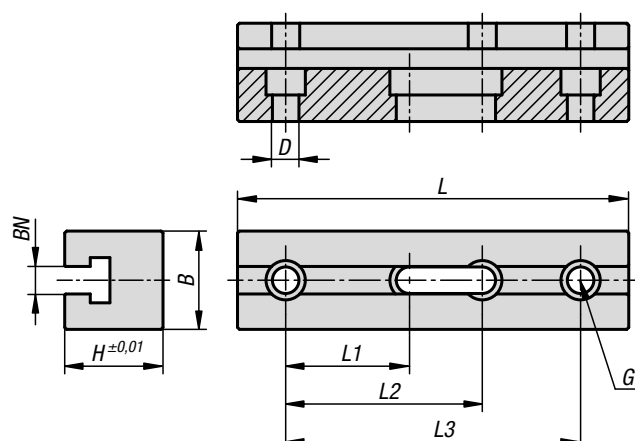
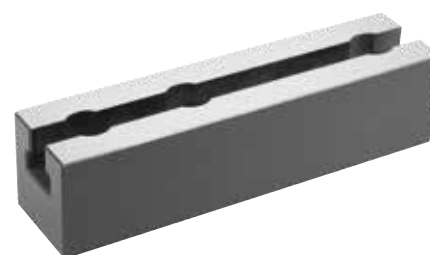
Drawing reference:
1) hole for DIN 912 cap screw

KIPP Tombstone, grey cast iron, double-sided, for interchangeable subplates

Order No.	L	L1	H	D2	D3	D4	D5	H1	H2	L2	L3	L4	L5	L6	L7	L10
K0804.14045	400	130	450	20	M16	M12	M 16	50	70	320	300	200	200	150	55	350
K0804.15055	500	150	550	20	M16	M12	M 16	55	75	400	200	-	250	200	75	450
K0804.16369	630	220	690	25	M16	M16	M 16	60	80	500	400	-	315	200	100	580
K0804.18086	800	250	860	25	M16	M16	M 16	60	80	640	600	400	400	300	135	750

Straps

for fixture components



Material:

Steel 1.7131.

Version:

black oxidised,
case-hardened and ground.

Sample order:

K1537.14149

Note:

The straps are used to fasten fixture components via the T-slot.

The hole spacing on the straps enable flexible mounting on the machine table or a base element. Diagonal installation is possible due to the combination of the fastening hole and fastening slot.

Accessories:

DIN 912 cap screws

Nuts for DIN 508 T-slots

KIPP Straps for fixture components

Order No.	BN=slot width	B	D	H	L	L1	L2	L3	G for socket head screw
K1537.14149	14	48	13,5	50	149	63	100	-	M12
K1537.14199	14	48	13,5	50	199	63	100	150	M12
K1537.18149	18	58	17,5	60	149	63	100	-	M16
K1537.18199	18	58	17,5	60	199	63	100	150	M16





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