

Clamping Technology | Standard Elements | Operating Parts



HEINRICH KIPP WERK

**100%**  
VISION  
SINCE 1919

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# NEW PRODUCTS

100% INNOVATION

I / 2022



# TRUST IN KIPP

## Manufacturing expertise with family tradition



For more than 100 years HEINRICH KIPP WERK has been a quality partner to industry. We offer a comprehensive product spectrum with more than 55,000 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*

Nicolas Kipp

*Heinrich Kipp*

Heinrich Kipp





## Professional advice

HEINRICH KIPP WERK has highly trained customer service staff and expert technical advisers with extensive experience.



## Delivery

The high-performance logistics system guarantees rapid response times and high supply availability. Customers can choose between standard, express or premium delivery.



## AEO Certification

As an authorised economic operator, HEINRICH KIPP WERK guarantees consistent security in the international supply chain.



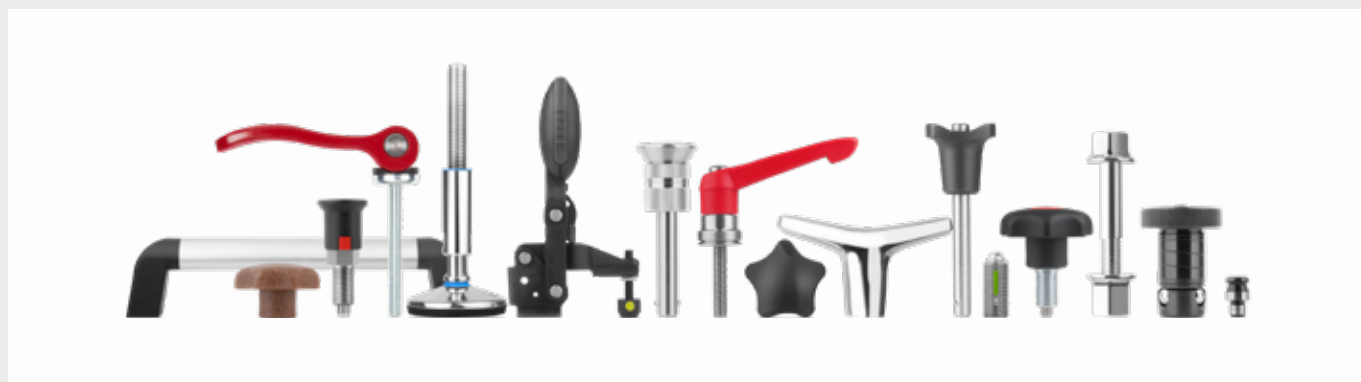
## TÜV Certification

The TÜV Saarland conducted a neutral customer survey. KIPP was once again assessed by its customers with the mark "VERY GOOD" (1.7). 99.4% of the customers said that they would order from KIPP again.



## Social media

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OPERATING PARTS | STANDARD ELEMENTS



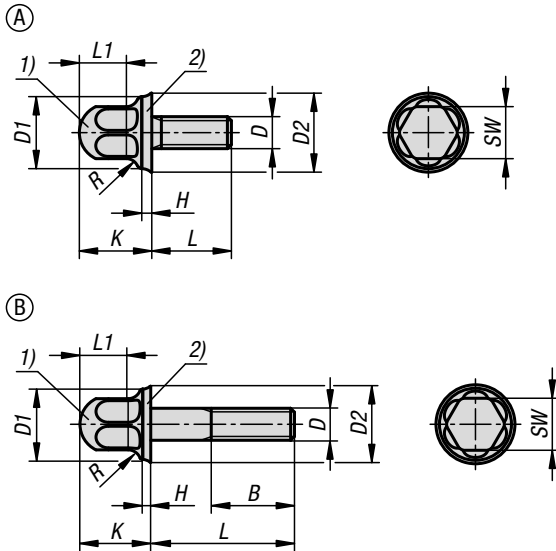
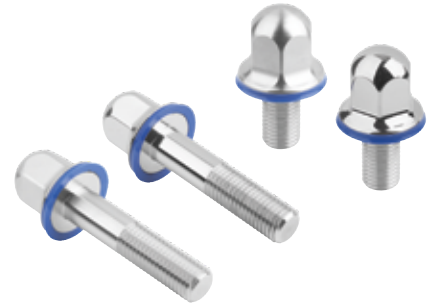
CLAMPING TECHNOLOGY



SPECIAL SOLUTIONS

# Hex head bolts, stainless steel with seal washer

in Hygienic DESIGN



## Drawing reference:

- 1) Hex head bolt
- 2) Sealing washer

The Hygienic DESIGN fastening system was specially developed for use in food processing facilities. Special attention was paid to the cleaning-optimised geometry and a surface finish of  $Ra \leq 0.8 \mu\text{m}$ . The quick and easy installation due to a pre-installed sealing washer rounds off the overall package.

### Material:

Hex head bolt: stainless steel 1.4404.  
Sealing washer: EU10/2011 and FDA conform thermoplastic (POM).

### Version:

Hex head bolt: Polished or unpolished stainless steel.  
Sealing washer: RAL5002 - ultra marine (POM).

### Sample order:

K1647.1104X08  
(include length L e.g. 08 for L = 8 mm.)

### Note:

The contact face for the sealing ring must ideally be flat and perpendicular to the threaded hole and have a surface finish of  $Ra \leq 0.8 \mu\text{m}$ .  
Sealing ring is unsuitable for acidic cleaning ( $\text{pH} < 4$ ) and oxidising agents.

### Temperature range:

-20° to +100° C (POM).

### Advantages:

Pre-installed, exchangeable seal washer.  
Foodstuff conform material.  
Cleaning optimised geometry.

### On request:

Special versions.

### Attention:

The suitability of the Hygienic DESIGN fasters for the respective application must be checked by the user. Depending on the loads and external influences (temperature, cleaning media, product media), the sealing washer should be inspected regularly and replaced if necessary.

### Supplied with:

Hex head bolt incl. seal washer.

### Accessories:

Sealing washer K1649.  
Stainless steel hex nut with sealing washer K1648.  
Sockets with plastic inserts K1361.  
Ring/open-end spanner with protective caps K1362.

### Threaded version:

M4 - M16.

## Hex head bolts, stainless steel with seal washer

in Hygienic DESIGN

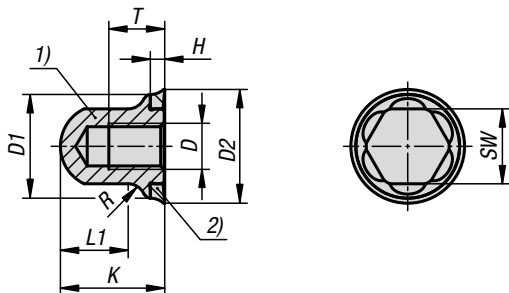


## KIPP Hex head bolts, stainless steel with seal washer in Hygienic DESIGN

Order No. polished	Order No. not polished	Form	Form-Type	B	D	D1	D2	H	K	L	L1	R	SW
K1647.1104X	K1647.2104X	A	without shaft	-	M4	10	11,25	2	11,1	8/10/12/16/20	5,9	3	7
K1647.1104X	K1647.2104X	B	with shaft	14	M4	10	11,25	2	11,1	25/30/35/40	5,9	3	7
K1647.1105X	K1647.2105X	A	without shaft	-	M5	12	13,25	2	13,1	10/12/16/20	7,4	3	8
K1647.1105X	K1647.2105X	B	with shaft	16	M5	12	13,25	2	13,1	25/30/35/40/45/50	7,4	3	8
K1647.1106X	K1647.2106X	A	without shaft	-	M6	14	15,74	2,5	15,1	12/16/20/25	9,1	3	10
K1647.1106X	K1647.2106X	B	with shaft	18	M6	14	15,74	2,5	15,1	30/35/40/45/50/60	9,1	3	10
K1647.1108X	K1647.2108X	A	without shaft	-	M8	18	19,74	2,5	18,1	16/20/25/30/35	11,7	3	13
K1647.1108X	K1647.2108X	B	with shaft	22	M8	18	19,74	2,5	18,1	40/45/50/60/70/80	11,7	3	13
K1647.1110X	K1647.2110X	A	without shaft	-	M10	22	23,74	2,5	22,1	20/25/30/35/40	15	4	16
K1647.1110X	K1647.2110X	B	with shaft	26	M10	22	23,74	2,5	22,1	45/50/60/70/80	15	4	16
K1647.1112X	K1647.2112X	A	without shaft	-	M12	26	28,25	3	25,1	25/30/35/40/45	16,1	5	18
K1647.1112X	K1647.2112X	B	with shaft	30	M12	26	28,25	3	25,1	50/60/70/80	16,1	5	18
K1647.1116X	K1647.2116X	A	without shaft	-	M16	35	37,25	3	32,1	30/35/40/45/50/60	21,8	6	24
K1647.1116X	K1647.2116X	B	with shaft	38	M16	35	37,25	3	32,1	70/80	21,8	6	24

## Hex nuts, stainless steel with seal washer

in Hygienic DESIGN



The Hygienic DESIGN fastening system was specially developed for use in food processing facilities. Special attention was paid to the cleaning-optimised geometry and a surface finish of  $Ra \leq 0.8 \mu\text{m}$ . The quick and easy installation due to a pre-installed sealing washer rounds off the overall package.

**Material:**

Hex nut: stainless steel 1.4404.  
Sealing washer: EU10/2011 and FDA conform thermoplastic (POM).

**Version:**

Hex nut: Polished or unpolished stainless steel.  
Sealing washer: RAL5002 - ultra marine (POM).

**Sample order:**

K1648.1108

**Note:**

The contact face for the sealing ring must ideally be flat and perpendicular to the threaded hole and have a surface finish of  $Ra \leq 0.8 \mu\text{m}$ .  
Sealing ring is unsuitable for acidic cleaning ( $\text{pH} < 4$ ) and oxidising agents.

**Temperature range:**

$-20^\circ$  to  $+100^\circ$  C (POM).

**Advantages:**

Pre-installed, exchangeable seal washer.  
Foodstuff conform material.  
Cleaning optimised geometry.

**On request:**

Special versions.

**Attention:**

The suitability of the Hygienic DESIGN fasteners for the respective application must be checked by the user. Depending on the loads and external influences (temperature, cleaning media, product media), the sealing washer should be inspected regularly and replaced if necessary.

**Supplied with:**

Hex nut incl. seal washer.

**Accessories:**

Sealing washer K1649.  
Stainless steel hex head bolt with sealing washer K1647.  
Sockets with plastic inserts K1361.  
Ring/open-end spanner with protective caps K1362.

**Threaded version:**

M4 - M16.

**Drawing reference:**

1) Hex nut  
2) Sealing washer

## KIPP Hex nuts, stainless steel with seal washer in Hygienic DESIGN

Order No. polished	Order No. not polished	D	D1	D2	H	K	L1	R	SW	T
K1648.1104	K1648.2104	M4	10	11,25	2	11,1	5,9	3	7	4,8
K1648.1105	K1648.2105	M5	12	13,25	2	13,1	7,4	3	8	6
K1648.1106	K1648.2106	M6	14	15,74	2,5	15,1	9,1	3	10	7,2
K1648.1108	K1648.2108	M8	18	19,74	2,5	18,1	11,7	3	13	9,6
K1648.1110	K1648.2110	M10	22	23,74	2,5	22,1	15	4	16	12
K1648.1112	K1648.2112	M12	26	28,25	3	25,1	16,1	5	18	14,4
K1648.1116	K1648.2116	M16	35	37,25	3	32,1	21,8	6	24	19,2



# Seal washers

in Hygienic DESIGN



The thermoplastic seal washer in Hygienic DESIGN was specially developed for use in combination with the hex head bolt K1647 or hex nut K1648. Special emphasis has been placed on the cleaning-optimised geometry and a surface finish of  $Ra \leq 0.8 \mu m$ .

The seal washers are made from an EU10/2011 and FDA conform plastic granulate.

**Material:**

EU10/2011 and FDA conform thermoplastic (POM).

**Version:**

RAL5002 - Ultramarine blue (POM).

**Sample order:**

K1649.108

**Note:**

Sealing ring is unsuitable for acidic cleaning ( $pH < 4$ ) and oxidising agents.

**Temperature range:**

$-20^{\circ}$  to  $+100^{\circ}$  C (POM).

**Advantages:**

Foodstuff conform material.  
Cleaning optimised geometry.

**On request:**

Special versions.

**Attention:**

The suitability of the Hygienic DESIGN fasters for the respective application must be checked by the user. Depending on the loads and external influences (temperature, cleaning media, product media), the sealing washer should be inspected regularly and replaced if necessary.

**Supplied with:**

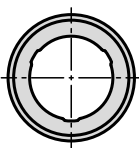
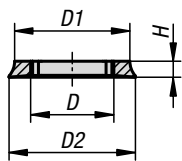
Seal washer.

**Accessories:**

Stainless steel hex head bolt with seal washer K1647.  
Stainless steel hex nut with seal washer K1648.

**Threaded version:**

M4 - M16.

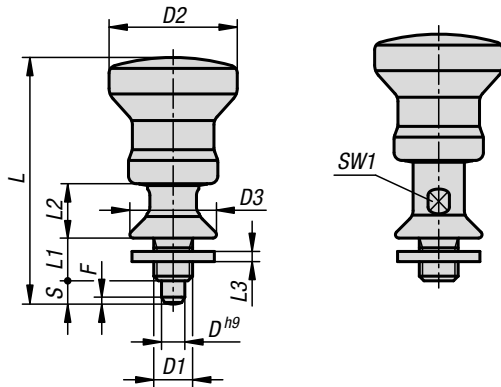


## KIPP Seal washers in Hygienic DESIGN

Order No.	D	D1	D2	H	G=thread / for thread
K1649.104	6	10	11,25	2	M4
K1649.105	8	12	13,25	2	M5
K1649.106	9	14	15,74	2,5	M6
K1649.108	13	18	19,74	2,5	M8
K1649.110	17	22	23,74	2,5	M10
K1649.112	20	26	28,25	3	M12
K1649.116	29	35	37,25	3	M16

# Indexing plungers with collar

for Hygienic USIT® seal and shim washers



Indexing plungers are used where it is necessary to prevent changes of position due to lateral forces. A new locking position can be set only after the plunger has been manually retracted. Form C (with lockout slot) is recommended for applications where the indexing pin should remain disengaged for an extended period and be prevented from springing back.

This indexing plunger is suitable for the foodstuff sectors. It has a conical collar so that the fastening point can be hygienically sealed using the Hygienic USIT® sealing and shim washer. The surface finish is  $Ra < 0.8 \mu\text{m}$ , which prevents dirt particles from adhering and ensures easy cleaning.

**Material:**

Steel parts stainless steel 1.4404.  
Seal 70 EPDM 291 (black) or 75 Fluoroprene® XP 41 (blue).

**Version:**

Indexing pin hardened or not hardened, bright.

**Sample order:**

K1698.1120801

**Temperature range:**

70 EPDM 291:  $-40^{\circ}\text{C}$  to  $150^{\circ}\text{C}$ .  
75 Fluoroprene® XP 41:  $-15^{\circ}\text{C}$  to  $200^{\circ}\text{C}$ .

**Advantages:**

Hygienic conform design  
Stainless steel 1.4404  
Suitable for CIP/SIP cleaning  
Resistant to polar and nonpolar media as well as aromatic substances

**Supplied with:**

Indexing plungers including Hygienic USIT® sealing and shim washers.

**Accessories:**

Hygienic USIT® seal and shim washers K1491.

# Indexing plungers with collar

for Hygienic USIT® seal and shim washers



## KIPP Indexing plungers with collar, indexing pin hardened

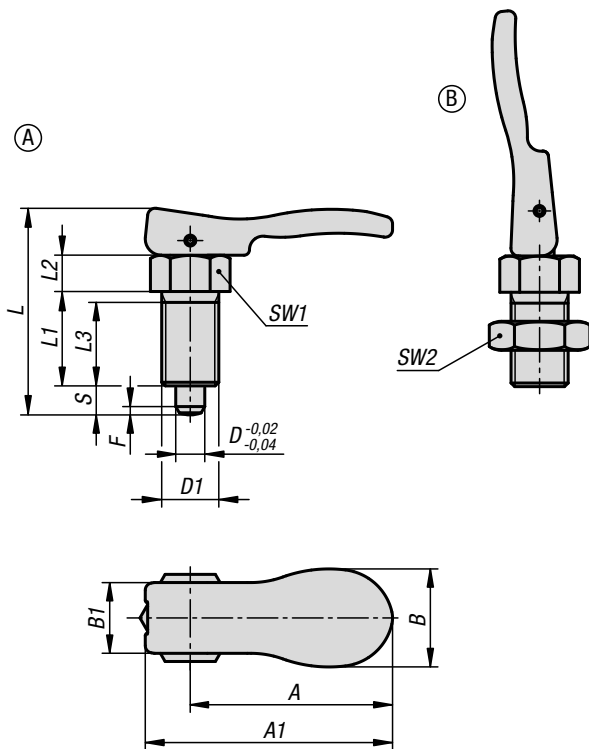
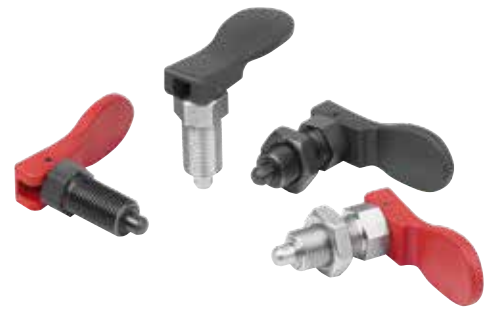
Order No. Form A without locking slot	Order No. Form C with locking slot	Component colour	D	D1	D2	D3	L	L1	L2	L3	Travel S	SW1	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1698.0110601	K1698.0310601	black	6	M10	33	22,3	63,5	11	14	1,5	6	12	1,8	40	45
K1698.0110611	K1698.0310611	black	6	M10x1	33	22,3	63,5	11	14	1,5	6	12	1,8	40	45
K1698.0120801	K1698.0320801	black	8	M12	33	26,6	69,5	13	16	1,5	8	12	2,3	40	62
K1698.0120811	K1698.0320811	black	8	M12x1,5	33	26,6	69,5	13	16	1,5	8	12	2,3	40	62
K1698.0110602	K1698.0310602	blue	6	M10	33	22,3	63,5	11	14	1,5	6	12	1,8	40	45
K1698.0110612	K1698.0310612	blue	6	M10x1	33	22,3	63,5	11	14	1,5	6	12	1,8	40	45
K1698.0120802	K1698.0320802	blue	8	M12	33	26,6	69,5	13	16	1,5	8	12	2,3	40	62
K1698.0120812	K1698.0320812	blue	8	M12x1,5	33	26,6	69,5	13	16	1,5	8	12	2,3	40	62

## KIPP Indexing plungers with collar, indexing pin not hardened

Order No. Form A without locking slot	Order No. Form C with locking slot	Component colour	D	D1	D2	D3	L	L1	L2	L3	Travel S	SW1	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1698.1110601	K1698.1310601	black	6	M10	33	22,3	63,5	11	14	1,5	6	12	1,8	40	45
K1698.1110611	K1698.1310611	black	6	M10x1	33	22,3	63,5	11	14	1,5	6	12	1,8	40	45
K1698.1120801	K1698.1320801	black	8	M12	33	26,6	69,5	13	16	1,5	8	12	2,3	40	62
K1698.1120811	K1698.1320811	black	8	M12x1,5	33	26,6	69,5	13	16	1,5	8	12	2,3	40	62
K1698.1110602	K1698.1310602	blue	6	M10	33	22,3	63,5	11	14	1,5	6	12	1,8	40	45
K1698.1110612	K1698.1310612	blue	6	M10x1	33	22,3	63,5	11	14	1,5	6	12	1,8	40	45
K1698.1120802	K1698.1320802	blue	8	M12	33	26,6	69,5	13	16	1,5	8	12	2,3	40	62
K1698.1120812	K1698.1320812	blue	8	M12x1,5	33	26,6	69,5	13	16	1,5	8	12	2,3	40	62

# Indexing plunger with cam lever,

steel or stainless steel



### Drawing reference:

Form A: without locknut

Form B: with locknut

### Material:

Steel version:

Threaded sleeve 1.0718.

Indexing pin 1.0718.

Stainless steel version:

Threaded sleeve 1.4305.

Indexing pin 1.4305.

Handle fibreglass reinforced thermoplastic PPA (high temperature resistant).

### Version:

Steel version:

Threaded sleeve, black oxidised.

Indexing pin hardened, ground and black oxidised.

Stainless steel version:

Threaded sleeve, bright.

Indexing pin ground and left bright.

Grip black or traffic red RAL3020.

### Sample order:

K1584.8105

### Note:

Indexing plungers are used where it is necessary to prevent changes of position due to lateral forces. A new locking position can be set only after the plunger has been manually disengaged. With this indexing plunger a cam lever is used to retract the pin. The indexing plunger remains unlocked as long as the handle is positioned over the dead-centre of the cam. The ergonomic cam lever enables light handling with low effort.

### Temperature range:

Permanent operating temperature acc. to IEC 216 max. 160°C.

Short-term operating temperature max. 250°C.

### Advantages:

Simple and quick operation.

Suitable for high temperature applications.

With integrated detent function.

### On request:

Special versions.

### Accessories:

Spacer rings K0665

Positioning bushes for indexing plunger K1290

Mounting brackets K0638

# Indexing plunger with cam lever,

steel or stainless steel

## KIPP Indexing plunger with cam lever, steel

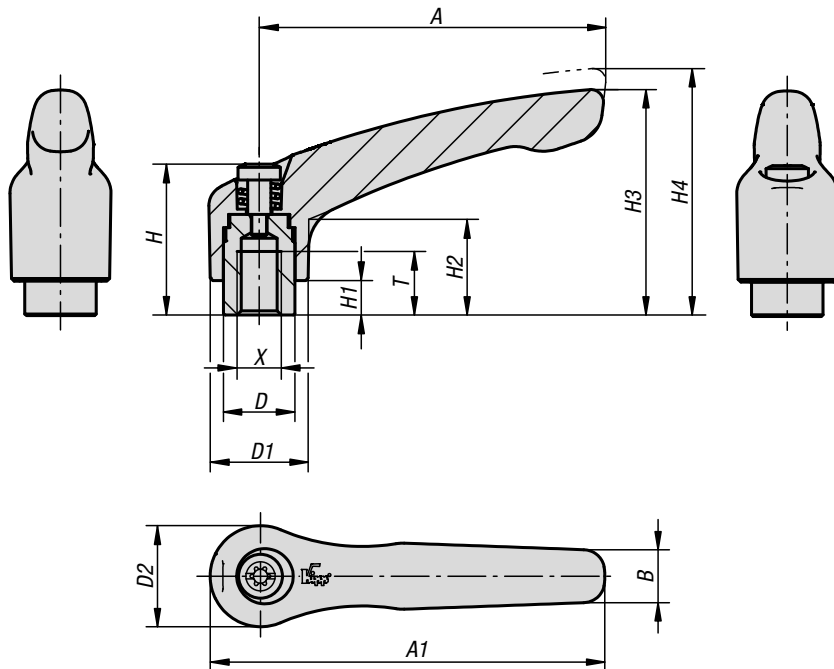
Order No. black	Order No. red	Form	A	A1	B	B1	D	D1	Travel S	L	L1	L2	L3	SW1	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1584.8105	K1584.8105154	A	31,7	41,7	17,8	12,9	5	M10x1	5	39	17	7	15	13	1,3	5	12
K1584.8206	K1584.8206154	A	31,6	41,7	17,8	12,9	6	M12x1,5	6	44	20	8	17	14	1,8	6	14
K1584.8308	K1584.8308154	A	55,5	67,8	26,9	19,4	8	M16x1,5	8	56,9	26	10	23	19	2,3	15	35
K1584.8410	K1584.8410154	A	53,4	67,8	26,9	19,4	10	M20x1,5	10	62,9	28	12	25	22	2,8	15	34
K1584.9105	K1584.9105154	B	31,7	41,7	17,8	12,9	5	M10x1	5	39	17	7	15	13	1,3	5	12
K1584.9206	K1584.9206154	B	31,6	41,7	17,8	12,9	6	M12x1,5	6	44	20	8	17	14	1,8	6	14
K1584.9308	K1584.9308154	B	55,5	67,8	26,9	19,4	8	M16x1,5	8	56,9	26	10	23	19	2,3	15	35
K1584.9410	K1584.9410154	B	53,4	67,8	26,9	19,4	10	M20x1,5	10	62,9	28	12	25	22	2,8	15	34

## KIPP Indexing plunger with cam lever, stainless steel

Order No. black	Order No. red	Form	A	A1	B	B1	D	D1	Travel S	L	L1	L2	L3	SW1	SW2	Fx30°	Spring force initial pressure F1 approx. N	Spring force final pressure F2 approx. N
K1584.18105	K1584.18105154	A	31,7	41,7	17,8	12,9	5	M10x1	5	39	17	7	15	13	-	1,3	5	12
K1584.18206	K1584.18206154	A	31,6	41,7	17,8	12,9	6	M12x1,5	6	44	20	8	17	14	-	1,8	6	14
K1584.18308	K1584.18308154	A	55,5	67,8	26,9	19,4	8	M16x1,5	8	56,9	26	10	23	19	-	2,3	15	35
K1584.18410	K1584.18410154	A	53,4	67,8	26,9	19,4	10	M20x1,5	10	62,9	28	12	25	22	-	2,8	15	34
K1584.19105	K1584.19105154	B	31,7	41,7	17,8	12,9	5	M10x1	5	39	17	7	15	13	17	1,3	5	12
K1584.19206	K1584.19206154	B	31,6	41,7	17,8	12,9	6	M12x1,5	6	44	20	8	17	14	19	1,8	6	14
K1584.19308	K1584.19308154	B	55,5	67,8	26,9	19,4	8	M16x1,5	8	56,9	26	10	23	19	24	2,3	15	35
K1584.19410	K1584.19410154	B	53,4	67,8	26,9	19,4	10	M20x1,5	10	62,9	28	12	25	22	30	2,8	15	34

# Clamping levers, zinc

with internal thread, steel parts trivalent blue passivated



**Material:**

Handle die-cast zinc DIN EN 12844.  
Steel parts grade 5.8.

**Version:**

Handle plastic-coated or high-gloss chromed.  
Steel parts trivalent blue passivated.

**Sample order:**

K1659.0041

**Note:**

Δ Add the desired lever colour here.  
Standard colours are:  
black satin finish, orange RAL 2004, silver metallic,  
high gloss chromed.

**On request:**

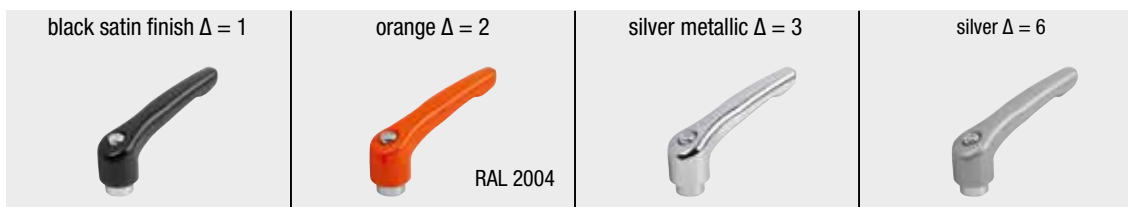
Other threads, colours and special versions.  
Dimension "H1" available in other lengths at extra charge.

lift to  
disengage



## Clamping levers, zinc

with internal thread, steel parts trivalent blue passivated

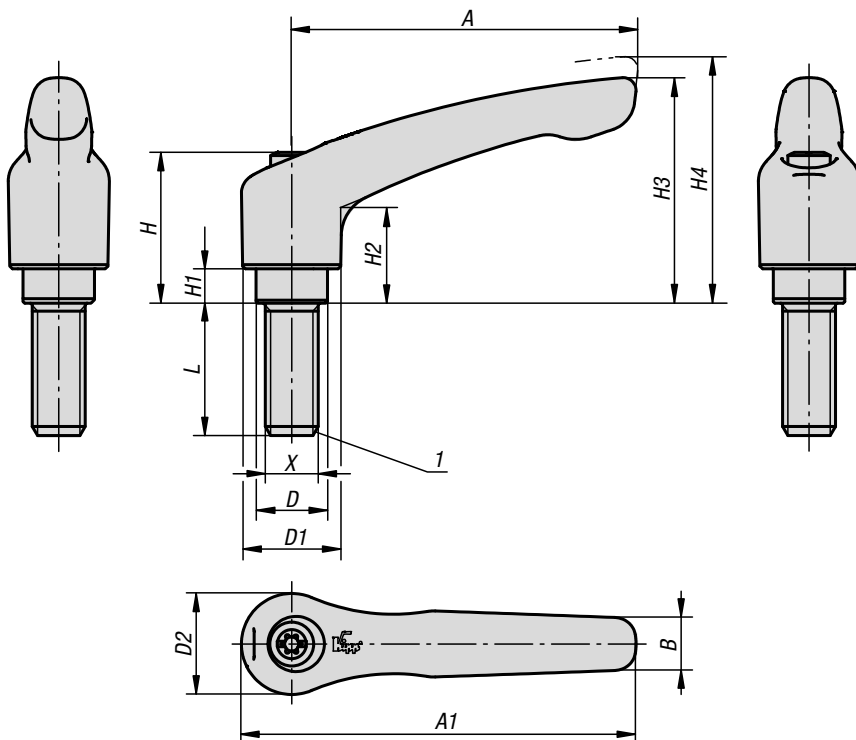


### KIPP Clamping levers with internal thread

Order No.	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	T	No. of teeth
K1659.003Δ	M3	30	37	7	10	13	14	24,5	4	14,5	30	33	9	16
K1659.004Δ	M4	30	37	7	10	13	14	24,5	4	14,5	30	33	9	16
K1659.005Δ	M5	30	37	7	10	13	14	24,5	4	14,5	30	33	9	16
K1659.104Δ	M4	40	47	7	10	13	14	24,5	4	14,5	31	34	9	16
K1659.105Δ	M5	40	47	7	10	13	14	24,5	4	14,5	31	34	9	16
K1659.106Δ	M6	40	47	7	10	13	14	24,5	4	14,5	31	34	9	16
K1659.206Δ	M6	65	74,5	9,5	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	12	20
K1659.208Δ	M8	65	74,5	9,5	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	12	20
K1659.308Δ	M8	80	91	11	16	21	22	37	10	24	54,5	58,5	14	22
K1659.310Δ	M10	80	91	11	16	21	22	37	10	24	54,5	58,5	14	22
K1659.410Δ	M10	95	109	13	19	27	27,5	43	10	27	63	67,5	17	24
K1659.412Δ	M12	95	109	13	19	27	27,5	43	10	27	63	67,5	17	24
K1659.512Δ	M12	110	126	15	23	31	32	49	12	31,5	73	77,5	23	26
K1659.516Δ	M16	110	126	15	23	31	32	49	12	31,5	73	77,5	23	26

## Clamping levers, zinc

with external thread, steel parts trivalent blue passivated



**Material:**

Handle die-cast zinc DIN EN 12844.  
Steel parts grade 5.8.

**Version:**

Handle plastic-coated or high-gloss chromed.  
Steel parts trivalent blue passivated.

**Sample order:**

K1659.0041X10 (clamping lever, black satin finish;  
include length L)

**Note:**

Δ Add the desired lever colour here.  
Standard colours are:  
black satin finish, orange RAL 2004, silver metallic,  
high gloss chromed.  
Where  $L \geq 60$  mm the thread length is 60 mm.

**On request:**

Other threads, colours and special versions.  
Dimension "H1" available in other lengths at extra  
charge.

**Drawing reference:**

1) flat point DIN 78

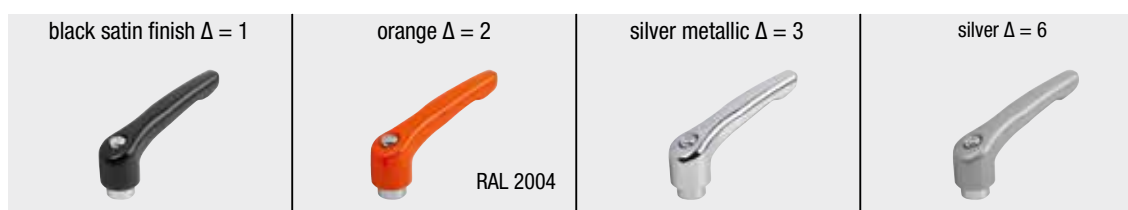
lift to  
disengage





## Clamping levers, zinc

with external thread, steel parts trivalent blue passivated

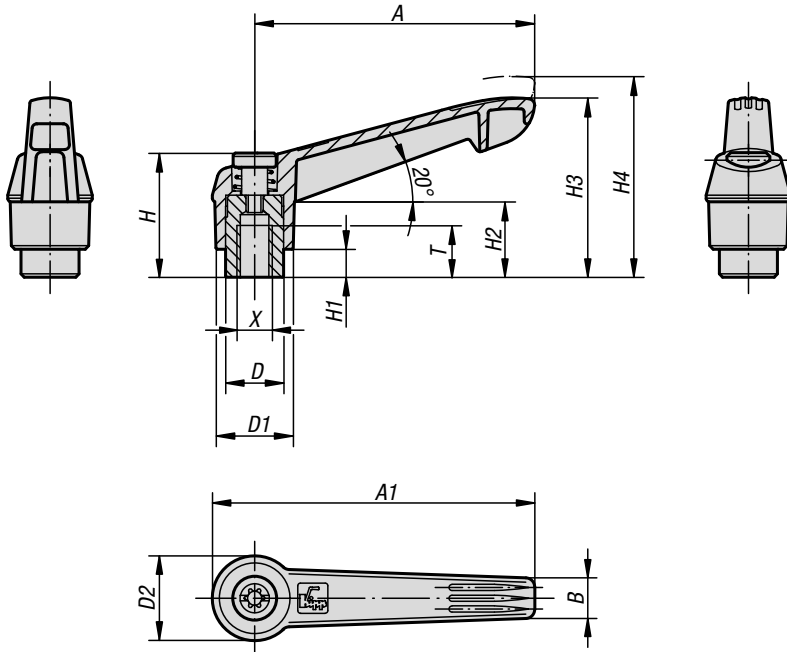


### KIPP Clamping levers with external thread

Order No.	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	No. of teeth	L
K1659.004ΔX	M4	30	37	7	10	13	14	24,5	4	14,5	30	33	16	10/15/20/25/30/35/40/45/50
K1659.005ΔX	M5	30	37	7	10	13	14	24,5	4	14,5	30	33	16	10/15/20/25/30/35/40/45/50
K1659.105ΔX	M5	40	47	7	10	13	14	24,5	4	14,5	31	34	16	10/15/20/25/30/35/40/45/50
K1659.106ΔX	M6	40	47	7	10	13	14	24,5	4	14,5	31	34	16	10/15/20/25/30/35/40/45/50
K1659.206ΔX	M6	65	74,5	9,5	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	20	15/20/25/30/35/40/45/50/55/60
K1659.208ΔX	M8	65	74,5	9,5	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	20	15/20/25/30/35/40/45/50/55/60
K1659.210ΔX	M10	65	74,5	9,5	13,5	18,5	19	28,5	6,5	17,5	42,5	45,5	20	15/20/25/30/35/40/45/50/55/60
K1659.308ΔX	M8	80	91	11	16	21	22	37	10	24	54,5	58,5	22	15/20/25/30/35/40/45/50/55/60
K1659.310ΔX	M10	80	91	11	16	21	22	37	10	24	54,5	58,5	22	15/20/25/30/35/40/45/50/55/60
K1659.410ΔX	M10	95	109	13	19	27	27,5	43	10	27	63	67,5	24	20/25/30/35/40/45/50/55/60/70/80/90
K1659.412ΔX	M12	95	109	13	19	27	27,5	43	10	27	63	67,5	24	20/25/30/35/40/45/50/55/60/70/80/90
K1659.512ΔX	M12	110	126	15	23	31	32	49	12	31,5	73	77,5	26	25/30/35/40/45/50/55/60/70/80/90
K1659.516ΔX	M16	110	126	15	23	31	32	49	12	31,10	73	77,10	26	25/30/35/40/45/50/55/60/70/80/90

## Clamping levers, plastic

with internal thread, steel parts trivalent blue passivated



**Material:**

Handle fibreglass reinforced plastic with die-cast zinc toothed ring.  
Steel parts grade 5.8.

**Version:**

Steel parts blue-passivated.

**Sample order:**

K1660.10486 (lever colour signal green)

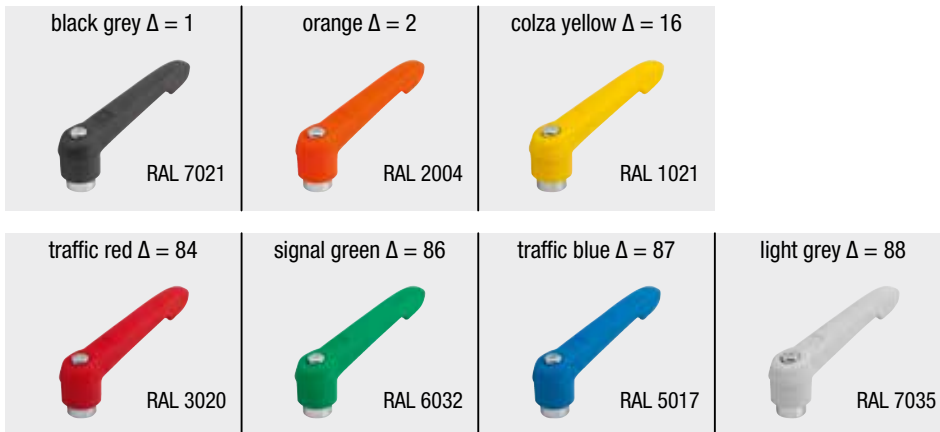
**Note:**

Δ Add the desired grip colour here.

**On request:**

Other threads and special versions.

Dimension "H1" available in other lengths at extra charge.

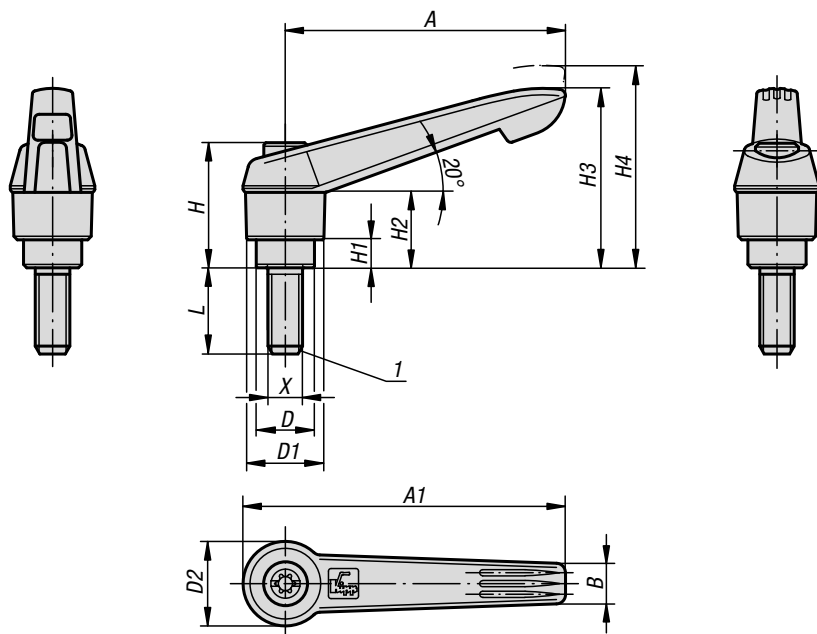


### KIPP Clamping levers with plastic handle, internal thread

Order No.	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	T	No. of teeth
K1660.104Δ	M4	40	47	7,5	10	13	14,5	24,5	4	15	30	33,5	9	16
K1660.105Δ	M5	40	47	7,5	10	13	14,5	24,5	4	15	30	33,5	9	16
K1660.106Δ	M6	40	47	7,5	10	13	14,5	24,5	4	15	30	33,5	9	16
K1660.206Δ	M6	65	75	9,5	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	12	20
K1660.208Δ	M8	65	75	9,5	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	12	20
K1660.308Δ	M8	80	91,5	11	16	21,5	23	37	10	24	53,5	58	14	22
K1660.310Δ	M10	80	91,5	11	16	21,5	23	37	10	24	53,5	58	14	22
K1660.410Δ	M10	95	109	13	19	25,5	27,5	43	10	26	61	66	17	24
K1660.412Δ	M12	95	109	13	19	25,5	27,5	43	10	26	61	66	17	24
K1660.512Δ	M12	110	126	15,5	23	30	32,5	49	12	33	72	77	23	26
K1660.516Δ	M16	110	126	15,5	23	30	32,5	49	12	33	72	77	23	26

## Clamping levers, plastic

with external thread, steel parts trivalent blue passivated



**Material:**  
Handle fibreglass reinforced plastic with die-cast zinc toothed ring.  
Steel parts grade 5.8.

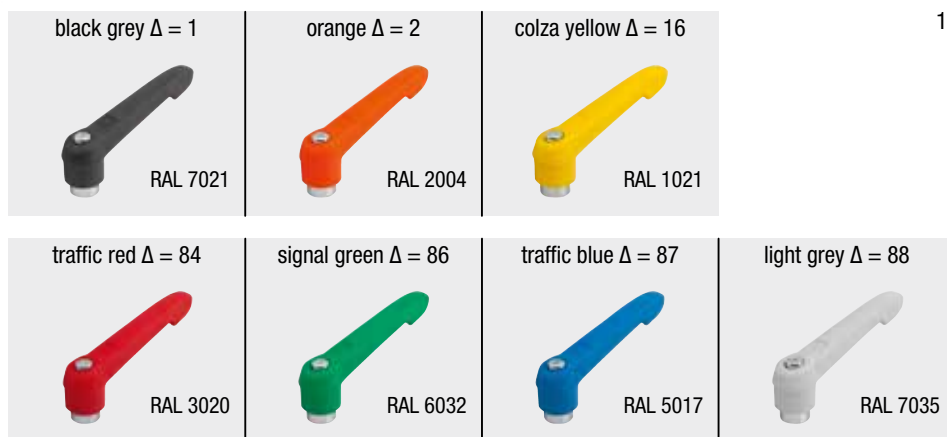
**Version:**  
Steel parts blue-passivated.

**Sample order:**  
K1660.1051X40 (lever black grey; include length L)

**Note:**  
Δ Add the desired grip colour here.  
Where L ≥ 60 mm the thread length is always 60 mm.

**On request:**  
Other threads, screw lengths and special versions.  
Dimension "H1" available in other lengths at extra charge.

**Drawing reference:**  
1) flat point DIN 78

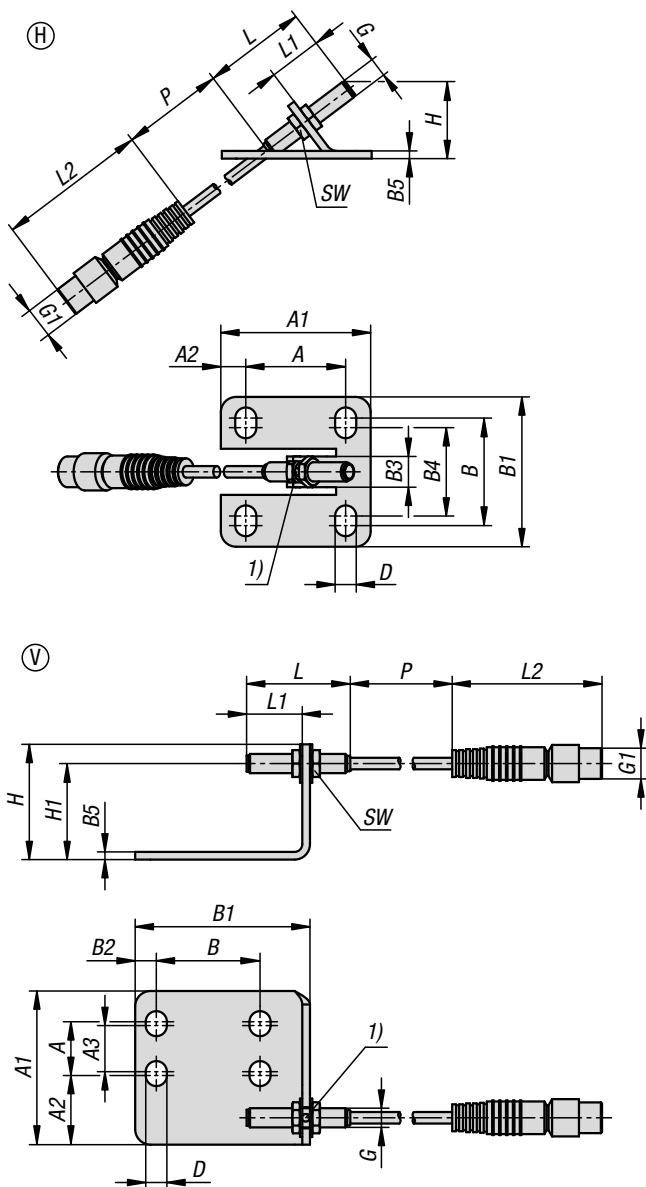
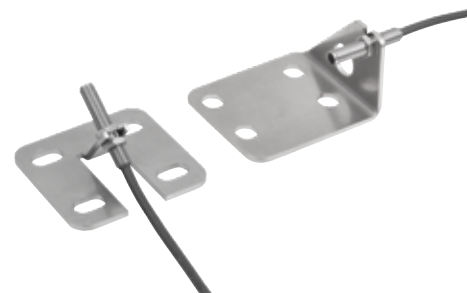


### KIPP Clamping levers with plastic handle, external thread

Order No.	X	A	A1	B	D	D1	D2	H	H1	H2	H3	H4	No. of teeth	L
K1660.105ΔX	M5	40	47	7,5	10	13	14,5	24,5	4	15	30	33,5	16	10/15/20/25/30/35/40/45/50
K1660.106ΔX	M6	40	47	7,5	10	13	14,5	24,5	4	15	30	33,5	16	10/15/20/25/30/35/40/45/50
K1660.206ΔX	M6	65	75	9,5	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	20	15/20/25/30/35/40/45/50/55/60
K1660.208ΔX	M8	65	75	9,5	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	20	15/20/25/30/35/40/45/50/55/60
K1660.210ΔX	M10	65	75	9,5	13,5	18	19,5	28,5	6,5	17,5	41,5	45,5	20	15/20/25/30/35/40/45/50/55/60
K1660.308ΔX	M8	80	91,5	11	16	21,5	23	37	10	24	53,5	58	22	15/20/25/30/35/40/45/50/55/60
K1660.310ΔX	M10	80	91,5	11	16	21,5	23	37	10	24	53,5	58	22	15/20/25/30/35/40/45/50/55/60
K1660.410ΔX	M10	95	109	13	19	25,5	27,5	43	10	26	61	66	24	20/25/30/35/40/45/50/55/60/70/80/90
K1660.412ΔX	M12	95	109	13	19	25,5	27,5	43	10	26	61	66	24	20/25/30/35/40/45/50/55/60/70/80/90
K1660.512ΔX	M12	110	126	15,5	23	30	32,5	49	12	33	72	77	26	25/30/35/40/45/50/55/60/70/80/90
K1660.516ΔX	M16	110	126	15,5	23	30	32,5	49	12	33	72	77	26	25/30/35/40/45/50/55/60/70/80/90

## Status sensors, stainless steel with bracket

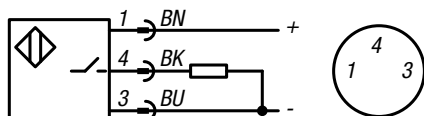
for toggle clamps



### Drawing reference:

1) LED-indicator

BN = brown  
BK = black  
BU = blue



Status sensors with brackets are used to monitor the actuated status of toggle clamps. The sensor detects whether the toggle clamp is open or closed and enables this status information to be processed electronically. The sensor is attached to the toggle clamp via the bracket.

**Material:**  
Stainless steel

**Version:**  
Bright.

**Sample order:**  
K1736.06111

**Note:**  
The status sensor and brackets are supplied unassembled.

**Assembly:**  
The status sensor is fastened to the bracket with the nuts and set to dimension L1. The bracket is attached with the toggle clamp screws through holes between the foot and the mounting surface. The switch point fine-tuning is carried out once the toggle clamp is mounted. The detailed procedure is described in the assembly instructions.

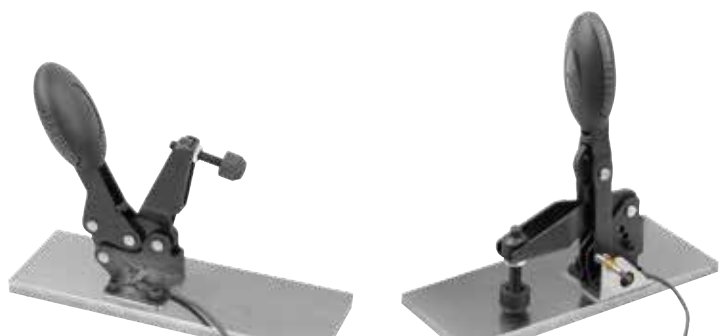
**Accessories:**  
K0660  
K0662  
K1276  
K1737

**Technical data:**  
Inductive sensor:  
Output circuit: PNP NO  
Operating voltage: 10 - 30 V DC  
Operating current: 100 mA  
Contact gap: 0.8 mm  
Switch frequency: 5000 Hz  
Short-circuit proof: yes  
Reverse polarity protection: yes  
Rating: IP 67  
Connection type: 0.3 m cable, PUR with plug  
Temperature range: -25 °C - +70 °C  
Approvals: CE, c UL us, EAC

**Safety:**  
Status sensors are not suitable for protecting people.

## Status sensors, stainless steel with bracket

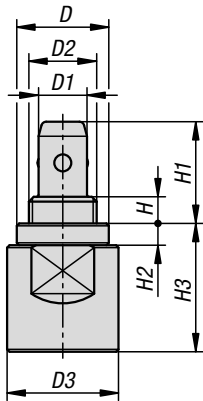
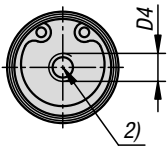
for toggle clamps



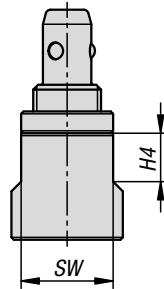
### KIPP Status sensors, stainless steel with bracket for toggle clamps

Order No.	Form	A	A1	A2	A3	B	B1	B2	B3	B4	B5	D	G	G1	H	H1	L	L1	L2	P	SW	for toggle clamp	M
K1736.06111	H	26	39	6,5	-	28	39	-	8	23	2	5,5	M5X0,5	M8x1	20,1	-	27	13,8	39	300	7	K0660	M6x35
K1736.08111	H	26	44	9	-	31	45	-	8	24	2	6,2	M5X0,5	M8x1	27,3	-	27	20,6	39	300	7	K0660	M8x45
K1736.06121	V	14	40	18	12	27	45,5	5,5	-	-	2	5,5	M5X0,5	M8x1	30	25	27	14,5	39	300	7	K0662	M6x35
K1736.08121	V	21	45	15	19	32	49	6,5	-	-	2	6,8	M5X0,5	M8x1	30	25	27	14,5	39	300	7	K0662	M8x45

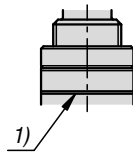
## Locating cylinder stainless steel, pneumatic



Ⓑ



Ⓐ



By locating cylinder Form A, the clamping balls are pushed out by a spring. Compressed air is used to retract the balls.

By locating cylinder Form B, the clamping balls are initially retracted. Compressed air pushes the balls out.

**Material:**

Body, stainless steel.  
Seal, NBR.

**Version:**

Stainless steel bright.

**Sample order:**

K1738.10140

**Note for ordering:**

Form A is marked with a groove.

**Note:**

The specified clamping forces (F) and holding forces are based on an operating pressure of 0.5 MPa.

**Assembly:**

Installation dimensions are for a 6 mm thick plate.

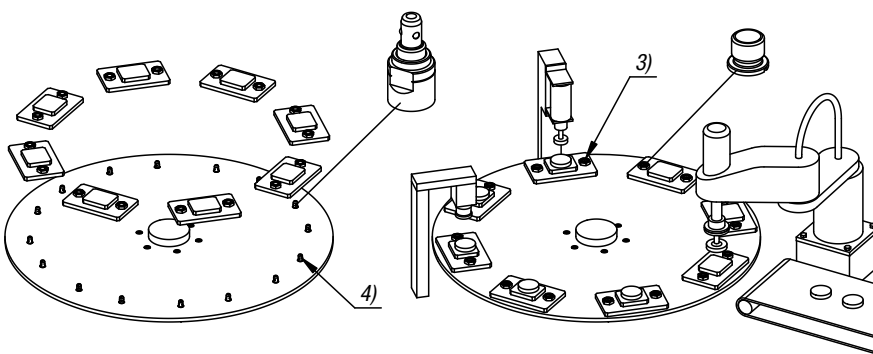
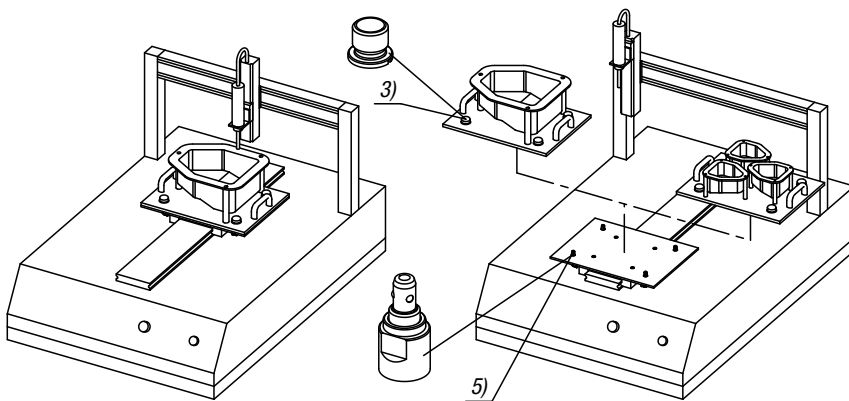
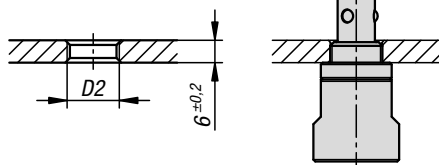
**Accessories:**

K1739 locating bushes stainless steel.

**Drawing reference:**

- 1) Form A ID groove
- 2) Pneumatic connection
- 3) Locating bush for locating cylinder
- 4) Form A locating cylinder
- 5) Form B locating cylinder

mounting instructions:



### KIPP Locating cylinder stainless steel, pneumatic

Order No.	Form	Form-Type	D	D1	D2	D3	D4	H	H1	H2	H3	H4	SW	Operating pressure MPa	F N	Holding force N
K1738.10140	A	spring-loaded	19	10	M14x1	23	M5	5,5	21	4,5	26,5	10	19	0,3 - 0,7	50	150
K1738.10141	B	Clamped pneumatically	19	10	M14x1	23	M5	5,5	21	4,5	26,5	10	19	0,3 - 0,7	150	300

## Locating bushes stainless steel,

for locating cylinder, pneumatic



**Material:**  
Stainless steel

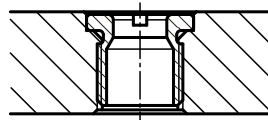
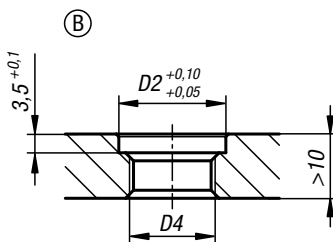
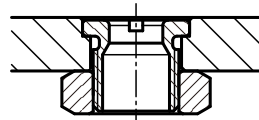
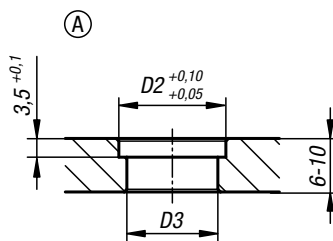
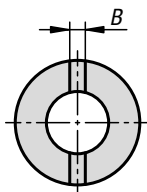
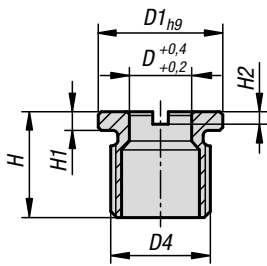
**Version:**  
Hardened.

**Sample order:**  
K1739.101

**Note:**  
Mounting dimensions Form A:  
Mounting with nut, max. plate thickness 10 mm.  
Mounting dimensions Form B:  
Screwed in, for plate thicknesses over 10 mm or in a blind hole.  
Colour may differ from the image due to the hardening process.

**On request:**  
Suitable nuts and assembly tool.

**Accessories:**  
K1738 Locating cylinder stainless steel, pneumatic



### KIPP Locating bushes stainless steel for locating cylinder, pneumatic

Order No.	B	D	D1	D2	D3	D4	H	H1	H2
K1739.101	2,5	10	20	20	17	M16x1,5	17	3	2



**Clamped using compressed air.  
Released via integrate spring.**

**Material:**

Body, stainless steel.  
Seal, NBR.

**Version:**

Stainless steel bright.

**Sample order:**

K1740.0618

**Note:**

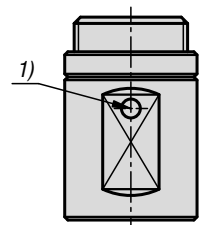
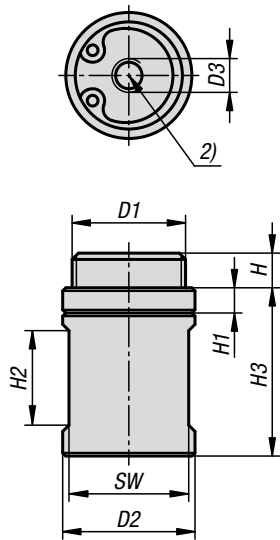
Installation dimensions are for a 6 mm thick plate.  
The specified clamping forces (F) and holding forces are based on an operating pressure of 0.5 Mpa.  
Repeat accuracy  $\pm 0.2$  mm.

**Accessories:**

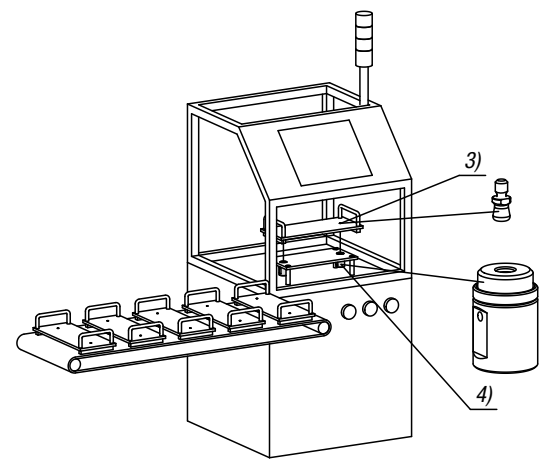
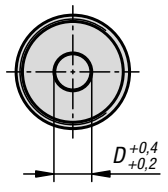
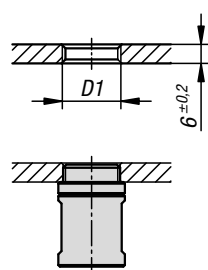
Clamping pins K1564.

**Drawing reference:**

- 1) Air valve (one-sided)
- 2) Pneumatic connection
- 3) Clamping pin
- 4) Locating adapter



mounting instructions:



**KIPP Locating adapters, cylindrical, stainless steel, pneumatic**

Order No.	D	D1	D2	D3	H	H1	H2	H3	SW	Operating pressure MPa	F N	Holding force N
K1740.0618	6	M18x1	21	M5	5,5	4	15	26,7	19	0,3 - 0,7	30	75



## Locating adapters, flange, stainless steel, pneumatic



**Clamped using compressed air. If the pressure fails, tension is retained by a spring. A spring force of 6 N must be overcome to release the positioning adapters using compressed air.**

**Material:**  
Body, stainless steel.  
Seal, NBR.

**Version:**  
Stainless steel bright.

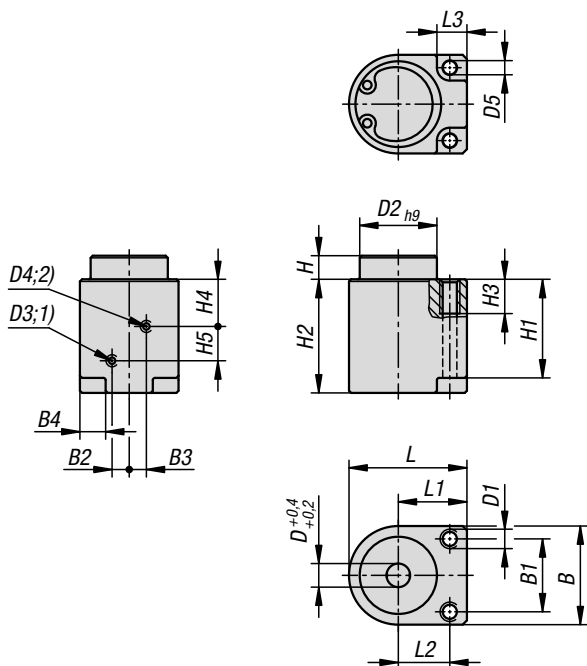
**Sample order:**  
K1741.0618

**Note for ordering:**  
M3x28 cap screws for fastening from below are supplied.  
M4 cap screws for fastening from above are not supplied.

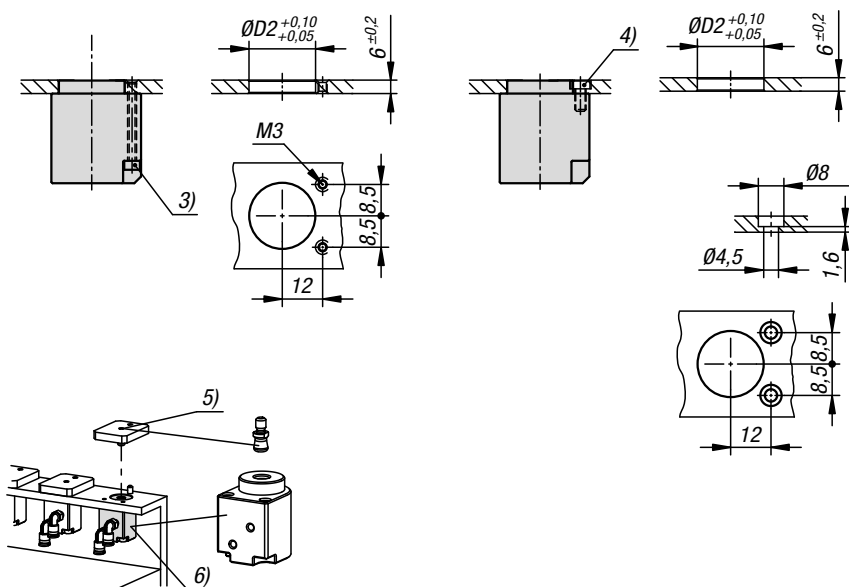
**Note:**  
Installation dimensions are for a 6 mm thick plate.  
The specified clamping forces (F) and holding forces are based on an operating pressure of 0.5 MPa.  
Repeat accuracy ±0.2 mm.

**Accessories:**  
Clamping pins K1564.

**Drawing reference:**  
1) „Clamping“ connection  
2) „Release“ connection  
3) M3 cap screw  
4) M4 cap screw  
5) Clamping pin  
6) Locating fixture



mounting instructions:

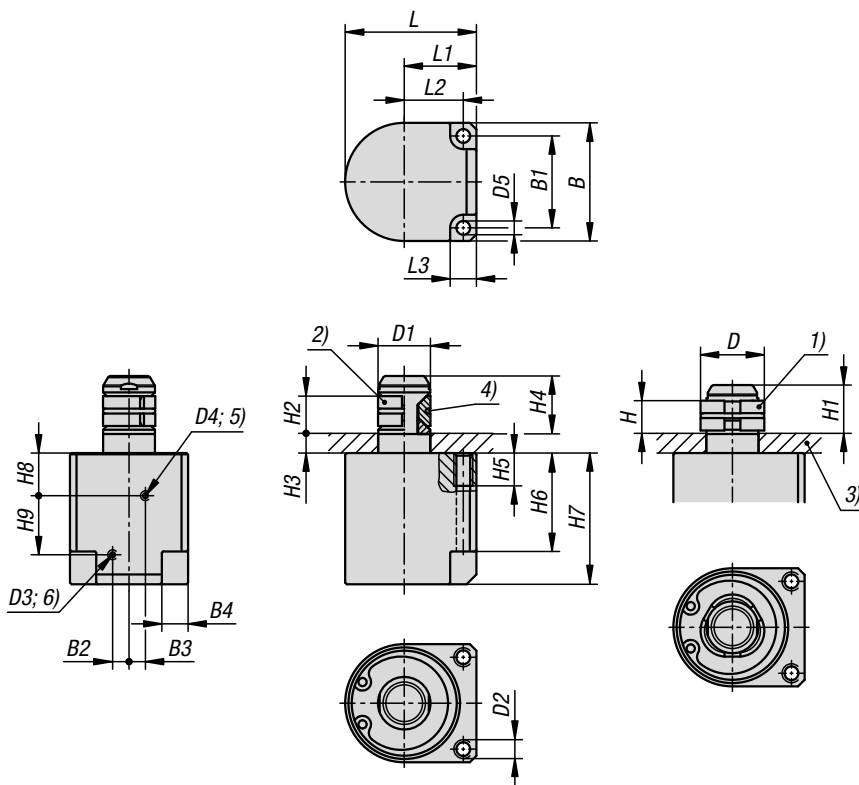


### KIPP Locating adapters, flange, stainless steel, pneumatic

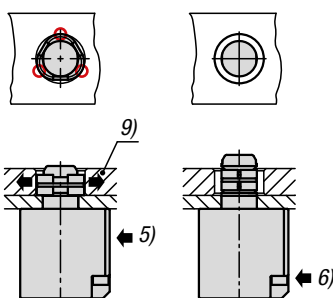
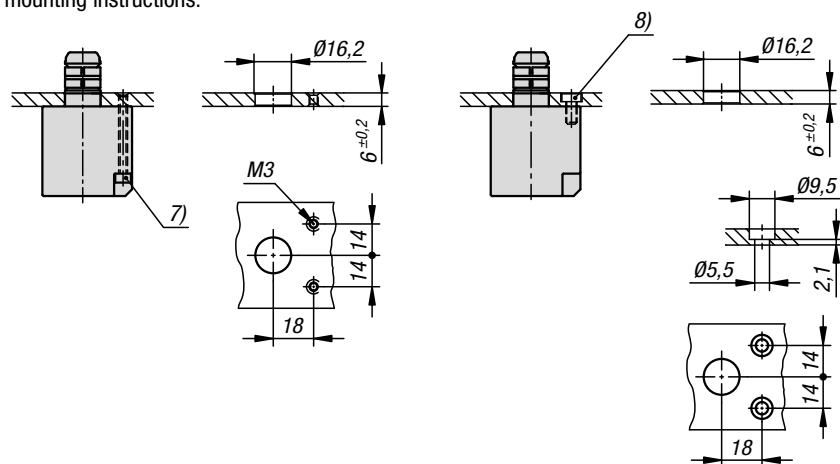
Order No.	B	B1	B2	B3	B4	D	D1	D2	D3	D4	D5	H	H1	H2
K1741.0618	23	17	4	4	6	6	M4	18	M3	M3	3,3	5,5	23	26,5

Order No.	H3	H4	H5	L	L1	L2	L3	Operating pressure MPa	F=clamping force N (Pneu. clamped)	F1=Retaining force N (spring-loaded)	Holding force N
K1741.0618	8	11	8	27,5	16	12	7	0,3 - 0,7	40	6	100

## Centring clamp stainless steel, pneumatic



mounting instructions:



Workpieces are clamped and released by compressed air.

The possible clamping diameter is from 16 to 20 mm.

**Material:**

Body, stainless steel.  
Seal, NBR.

**Version:**

Stainless steel bright.

**Sample order:**

K1742.16

**Note for ordering:**

Cylinder head screws M4X35 for fastening from below are included with delivery.

Cylinder head screws with low head M5 for fastening from above are not included with delivery.

**Note:**

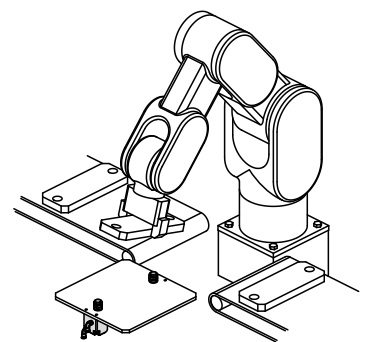
Installed dimensions for plate thickness 6 mm.

The stated retaining forces are related to an operating pressure of 0.5 Mpa and a surface quality of Ra 1.6 µm.

Repeat accuracy in this case is ±0.2 mm.

**Drawing reference:**

- 1) „Clamping“ position
- 2) „Release“ position
- 3) Mounting plate
- 4) O-ring
- 5) „Clamping“ connection
- 6) „Release“ connection
- 7) Cylinder head screw M4
- 8) Cylinder screw with low head M5
- 9) Workpiece



### KIPP Centring clamp stainless steel, pneumatic

Order No.	B	B1	B2	B3	B4	D	D1	D2	D3	D4	D5	H	H1	H2
<b>K1742.16</b>	36	28	5	5	7,5	20	16	M5	M3	M3	4,2	10	14,7	11,3

Order No.	H3	H4	H5	H6	H7	H8	H9	L	L1	L2	L3	Holding force N	Operating pressure MPa
<b>K1742.16</b>	6	17,5	10	30	40	13	18	40	22	18	8	77	0,3 - 0,7

## Clamping pin stainless steel



**Material:**  
Stainless steel

**Version:**  
Hardened.

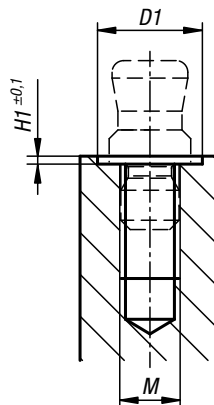
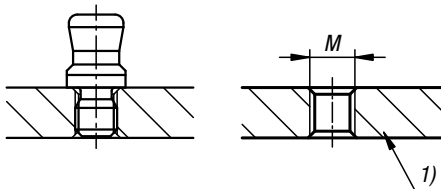
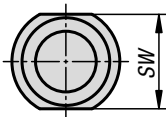
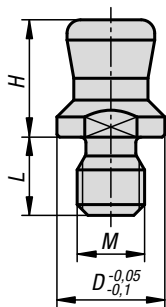
**Sample order:**  
K1564.16

**Note:**  
Colour may differ from image due to curing process.

**Method of operation:**  
Screw the clamping pin into the thread and tighten.  
See assembly drawing.

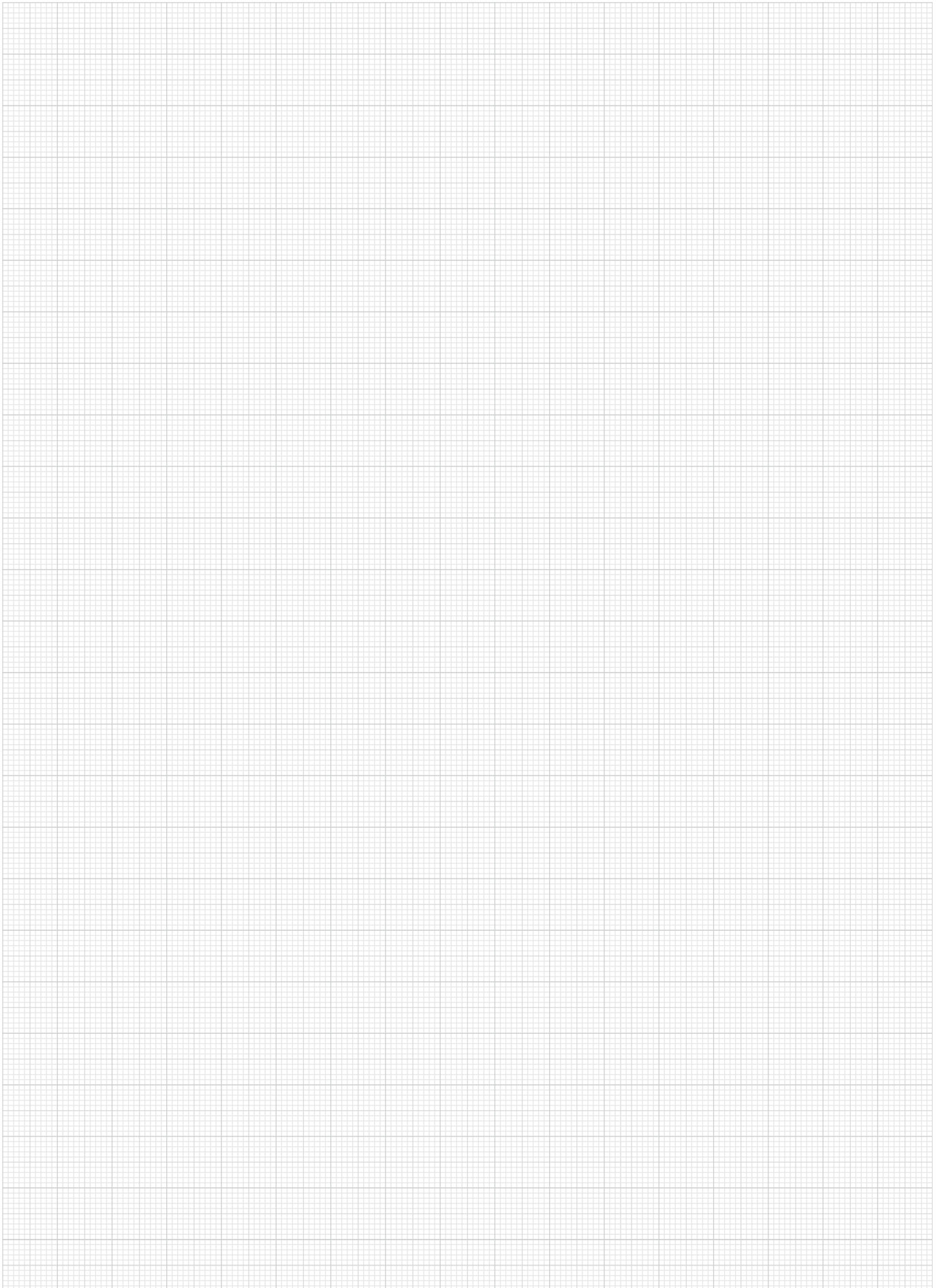
**Accessories:**  
Quarter-turn latches K1561.  
Push button latches K1562.  
Locating fixture round K1740.  
Locating fixture flange K1741.

**Drawing reference:**  
1) plate



### KIPP Clamping pin stainless steel

Order No.	D	D1	H	H1	L	M	SW
K1564.16	6	7	7,6	0,5	5,8	M04X0,7	5
K1564.18	8	9	8,7	0,5	5,8	M05X0,8	7



## Hoist rings, steel, 360° rotation

grade 10



**Material:**

Ring and attachment shackle steel.  
Bolt and bushing steel.

**Version:**

Ring and shackle forged, hardened and tempered.  
100% electromagnetic crack detection, painted blue.  
Bolt grade 10.9 or higher. 100% electromagnetic crack detection.  
Bush electro zinc-plated.

**Sample order:**

K1735.12020

**Note:**

The hoist ring can be folded-down, rotates through 360° and bears the full load in any permitted loading direction. The nominal load capacity is visibly indicated on the hoist ring. It applies to the most unfavourable load case (see table). The test load is 2.5 times the safe working load (SWL). The specified working load limit must not be exceeded.

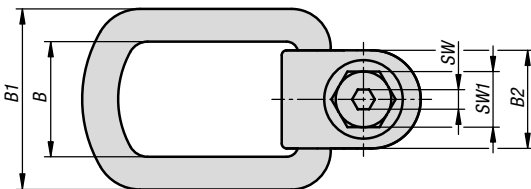
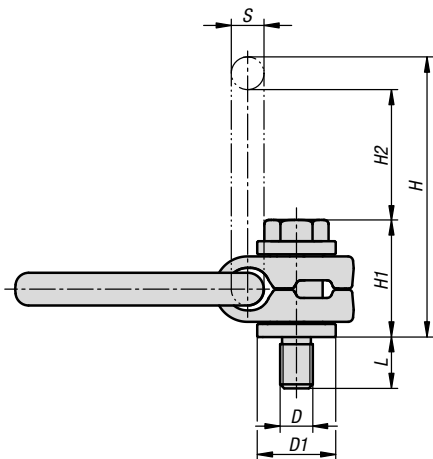
With captive but removable hex bolt. The hoist rings comply with the Machinery Directive and are DGUV tested.

Tested according to DIN EN 1677-1.

The CE marking is stamped into the hoist ring.

**On request:**

Certificate of conformity.



### KIPP Hoist rings, steel, 360° rotation, grade 10

Order No.	B	B1	B2	D	D1	H	H1	H2	L	S	SW	SW1	max. permissible load kg	Tightening torque Nm
K1735.08011	36	57	30	M8	24	87	34	41	11	12	6	13	300	20
K1735.10016	36	57	30	M10	24	87	35	40	16	12	6	17	630	30
K1735.12020	36	57	34	M12	30	98	43	41	20	14	8	19	1000	45
K1735.16025	36	57	34	M16	30	98	46	39	25	14	10	24	1500	150
K1735.20032	53	83	50	M20	45	145	56	71	32	17	12	30	2500	300
K1735.24037	53	83	50	M24	45	145	59	69	37	17	14	36	4000	400
K1735.30044	64	101	67	M30	59	172	85	64	44	23	17	46	5000	1000
K1735.36053	84	126	78	M36	69	223	100	96	53	28	22	55	8000	1800

## Hoist rings, steel, 360° rotation

grade 10



Maximum lifting weight "G" in kg for different sling types

Sling configuration																			
	No. of slings	1	1	2	2	2	2	2	3 - 4	3 - 4	3 - 4	3 - 4	3 - 4	3 - 4	3 - 4	3 - 4	3 - 4		
sling angle $\alpha$	0°	90°	0°	90°	0°-45°	45°-60°	asymmetric	0°-45°	45°-60°	asymmetric	0°-45°	45°-60°	asymmetric	0°-45°	45°-60°	asymmetric	0°-45°	45°-60°	asymmetric
M8	300	300	600	600	420	300	300	640	450	300	640	450	300	640	450	300	640	450	300
M10	630	630	1260	1260	890	630	630	1340	950	630	1340	950	630	1340	950	630	1340	950	630
M12	1000	1000	2000	2000	1410	1000	1000	2120	1500	1000	2120	1500	1000	2120	1500	1000	2120	1500	1000
M16	1500	1500	3000	3000	2120	1500	1500	3180	2250	1500	3180	2250	1500	3180	2250	1500	3180	2250	1500
M20	2500	2500	5000	5000	3540	2500	2500	5300	3750	2500	5300	3750	2500	5300	3750	2500	5300	3750	2500
M24	4000	4000	8000	8000	5660	4000	4000	8480	6000	4000	8480	6000	4000	8480	6000	4000	8480	6000	4000
M30	5000	5000	10000	10000	7070	5000	5000	10610	7500	5000	10610	7500	5000	10610	7500	5000	10610	7500	5000
M36	8000	8000	16000	16000	11310	8000	8000	16970	12000	8000	16970	12000	8000	16970	12000	8000	16970	12000	8000

## Ball knobs smooth

DIN 319 enhanced



**Material:**  
Thermoset PF 31, black or red.  
Bush electro zinc-plated steel.

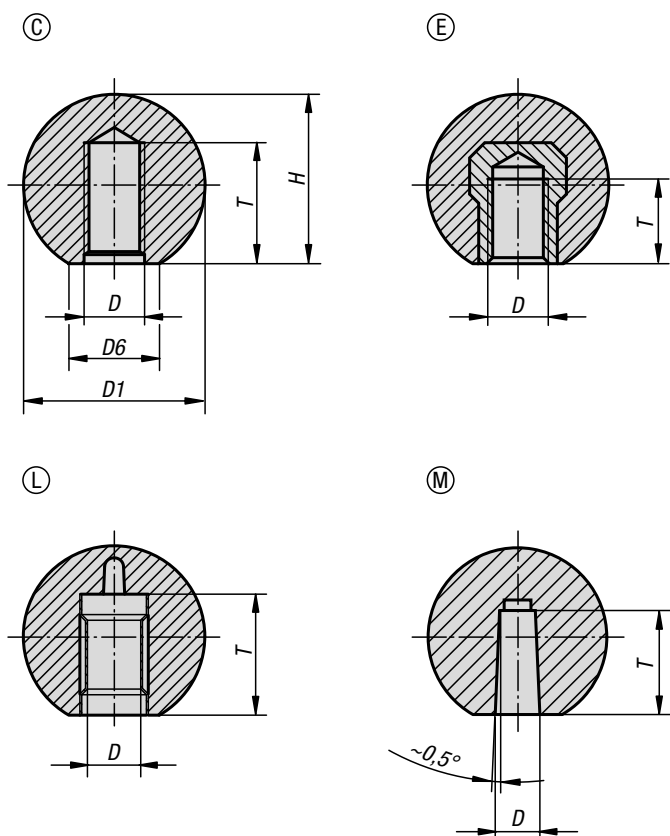
**Version:**  
High-gloss polished.

**Sample order:**  
K0159.11604

**Assembly:**  
Assembly, Form L: The ball knobs are installed by tapping lightly with a hammer. Please only use a rubber or plastic hammer with a weight up to 200 g!

The version K0159.21604 has a brass bush.  
The versions K0159.23008, K0159.230081, K0159.23508 and K0159.24008 have copper plated steel bushes.

**Shank tolerance:**  
Ball knobs with press-fit sleeve can be mounted on standard shafts with tolerance h9. The supplied press-fit sleeve assures a firm and reliable fit.



**Drawing reference:**  
Form C: moulded thread  
Form E: tapped bush  
Form L: press-fit sleeve  
Form M: tapered hole

### KIPP Ball knobs smooth DIN 319 enhanced, Form C, with molded thread

Order No. black	Order No. red	Form	D	D1	D6	H	T
K0159.11604	K0159.116041	C	M4	16	8	15	6
K0159.11605	K0159.116051	C	M5	16	8	15	7,5
K0159.12005	K0159.120051	C	M5	20	12	18	7,5
K0159.11606	-	C	M6	16	8	15	9
K0159.12006	K0159.120061	C	M6	20	12	18	9
K0159.12506	K0159.125061	C	M6	25	15	23	9
K0159.12508	K0159.125081	C	M8	25	15	23	12
K0159.13008	K0159.130081	C	M8	30	16	28	12
K0159.13208	K0159.132081	C	M8	32	18	29	12
K0159.13508	-	C	M8	36	17	33	18
K0159.14008	K0159.140081	C	M8	40	20	37,5	12
K0159.13210	-	C	M10	32	18	29	15
K0159.13510	K0159.135101	C	M10	36	17	33	15
K0159.14010	K0159.140101	C	M10	40	20	37,5	15
K0159.14510	-	C	M10	45	20	43	15
K0159.15010	K0159.150101	C	M10	50	22	48	15
K0159.14012	-	C	M12	40	20	37,5	18
K0159.14512	-	C	M12	45	20	43	18
K0159.15012	K0159.150121	C	M12	50	28	48	18



# Ball knobs smooth

DIN 319 enhanced

## KIPP Ball knobs smooth DIN 319 enhanced, Form E, with tapped bush

Order No. black	Order No. red	Form	D	D1	D6	H	T
K0159.21604	-	E	M4	16	8	15	6
K0159.22005	<a href="#">K0159.220051</a>	E	M5	20	12	18	7,5
K0159.22006	-	E	M6	20	12	18	9
K0159.22506	<a href="#">K0159.225061</a>	E	M6	25	15	23	9
K0159.22508	-	E	M8	25	15	23	12
K0159.23008	<a href="#">K0159.230081</a>	E	M8	30	16	28	12
K0159.23208	-	E	M8	32	18	29	12
K0159.23508	-	E	M8	36	17	33	14
K0159.24008	-	E	M8	40	20	37,5	14
K0159.23210	-	E	M10	32	18	29	15
K0159.23510	<a href="#">K0159.235101</a>	E	M10	36	17	33	14
K0159.24010	<a href="#">K0159.240101</a>	E	M10	40	20	37,5	15
K0159.24510	-	E	M10	45	20	43	22
K0159.25010	-	E	M10	50	22	48	15
K0159.24012	<a href="#">K0159.240121</a>	E	M12	40	20	37,5	18
K0159.24512	-	E	M12	45	20	43	21
K0159.25012	<a href="#">K0159.250121</a>	E	M12	50	28	48	18

## KIPP Ball knobs smooth DIN 319 enhanced, Form L, with clamping sleeve

Order No.	Form	Main colour	D	D1	D6	H	T
K0159.42005	L	black	5	20	12	18	13
K0159.42506	L	black	6	25	15	23	16
K0159.42508	L	black	8	25	15	23	15
K0159.43208	L	black	8	32	18	29	15
K0159.43210	L	black	10	32	18	29	20
K0159.44010	L	black	10	40	20	37,5	20
K0159.44012	L	black	12	40	20	37,5	23
K0159.45012	L	black	12	50	28	48	20

## KIPP Ball knobs smooth DIN 319 enhanced, Form M, with tapered bore

Order No.	Form	Main colour	D	D1	D6	H	T
K0159.31604	M	black	4	16	8	15	9
K0159.32005	M	black	5	20	12	18	12
K0159.32506	M	black	6	25	15	23	15
K0159.32508	M	black	8	25	15	23	15
K0159.33208	M	black	8	32	18	29	15
K0159.33210	M	black	10	32	18	29	15
K0159.34010	M	black	10	40	20	37,5	20
K0159.34012	M	black	12	40	20	37,5	20
K0159.35012	M	black	12	50	28	48	22

## Lateral spring plungers

with plastic spring



**Material:**

Sleeve and spring plastic  
Thrust pin steel, stainless steel or POM

**Version:**

Thrust pin (steel) case-hardened and black oxidised.  
Thrust pin (stainless steel) bright  
Thrust pin (POM) white.

**Sample order:**

K1733.100307

**Note:**

Lateral spring plungers are used for positioning, holding and fastening workpieces in applications where there is increased presence of dirt. For example: painting and sandblasting.

**Calculation dimension X:**

$Y > = L1 - D1/2$ , therefore  $X = D1/2 - S$

$Y < L1 - D1/2$ , therefore  $X = D1/2 - S - ((L1 - D1/2 - Y) * 0,123)$

Light spring force = blue spring

Standard spring force = red spring

Strong spring force = green spring

**Assembly:**

The sleeve is pressed into the hole. It is recommended to moisten the sleeve before assembly.

**Drawing reference:**

1) Assembly tool

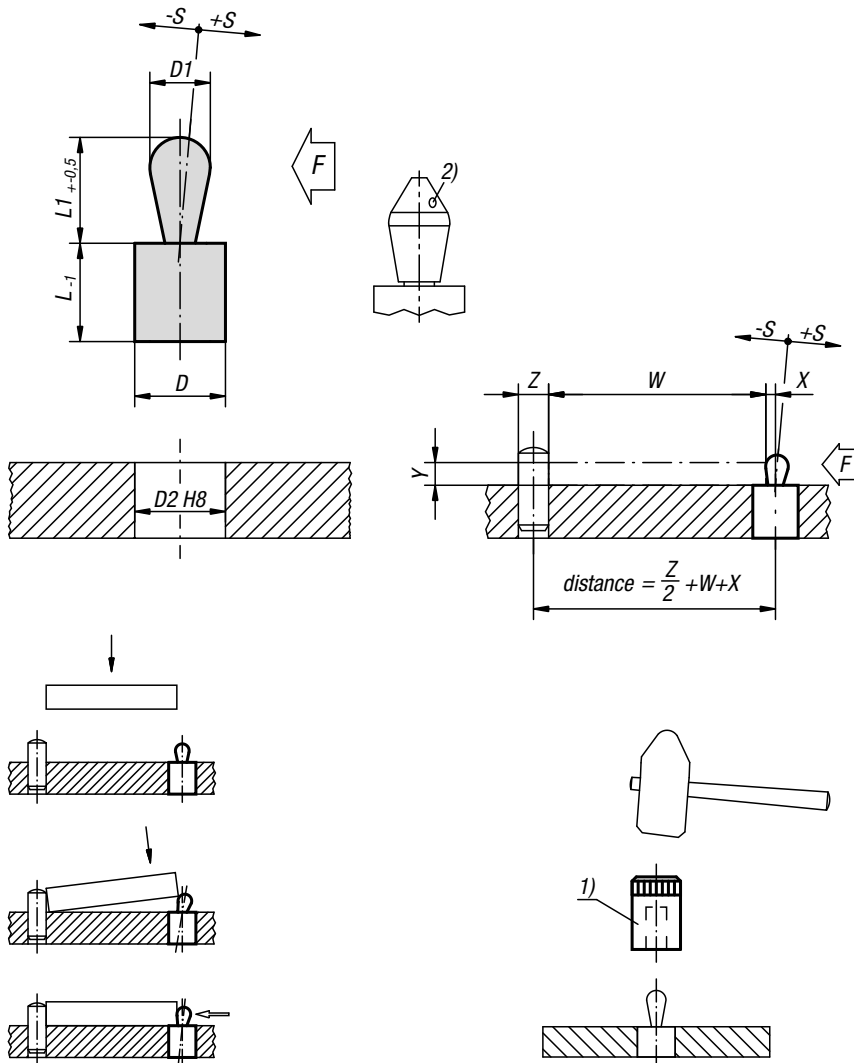
2) Some sizes have a different pin form

Y = workpiece height

W = workpiece length

X = coordinate dimension

Z = stop diameter

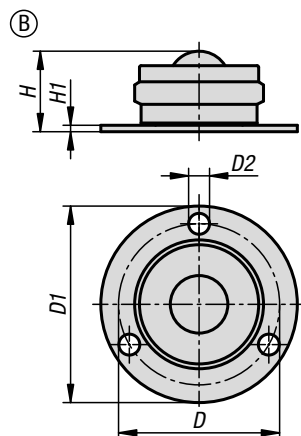
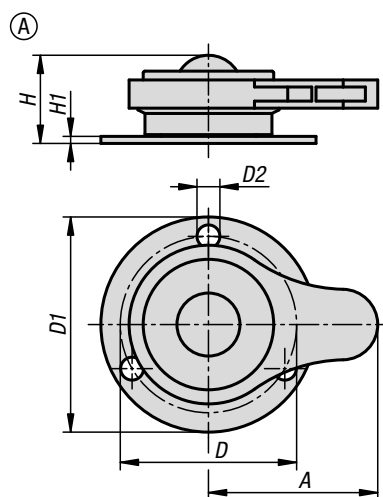


### KIPP Lateral spring plungers, steel thrust pins

Order No.	Version 1	Version 2	D	D1	D2	L	L1	±S	F ca.N	Order No. assembly tool
K1733.120307	light spring force	different pin form	6	3	5,9	7	3,7	0,4	10	K1733.03
K1733.120409	light spring force	-	8	4	7,9	9	5,2	0,6	15	K1733.04
K1733.120509	light spring force	-	10	5	9,9	9	7,3	0,8	30	K1733.05
K1733.120609	light spring force	-	10	6	9,9	9	10,3	1	20	K1733.05
K1733.220307	standard spring force	different pin form	6	3	5,9	7	3,7	0,4	20	K1733.03
K1733.220409	standard spring force	-	8	4	7,9	9	5,2	0,6	30	K1733.04
K1733.220509	standard spring force	-	10	5	9,9	9	7,3	0,8	60	K1733.05
K1733.220609	standard spring force	-	10	6	9,9	9	10,3	1	30	K1733.05
K1733.220813	standard spring force	-	12	8	11,9	13	13,3	1,2	50	K1733.08
K1733.221016	standard spring force	-	16	10	15,9	16	16,9	1,6	80	K1733.10
K1733.320509	intensified spring force	-	10	5	9,9	9	7,3	0,8	90	K1733.05
K1733.320609	intensified spring force	-	10	6	9,9	9	10,3	1	60	K1733.05
K1733.320813	intensified spring force	-	12	8	11,9	13	13,3	1,2	100	K1733.08
K1733.321016	intensified spring force	-	16	10	15,9	16	16,9	1,6	160	K1733.10

## Ball transfer units steel

with lockable ball



**Material:**

Housing steel.

Lever polyamide.

Load ball stainless steel 1.4034 or polyamide.

**Version:**

Steel electro zinc-plated.

**Sample order:**

K1734.1219

**Note:**

Ball transfer units with lockable balls are suitable for transporting and positioning sensitive goods such as glass or polished aluminium, brass and steel sheets. Ball transfer units can also be used as an alternative to standard rollers, making it easy to transport and position low profiles, e.g. in retail, production or at home.

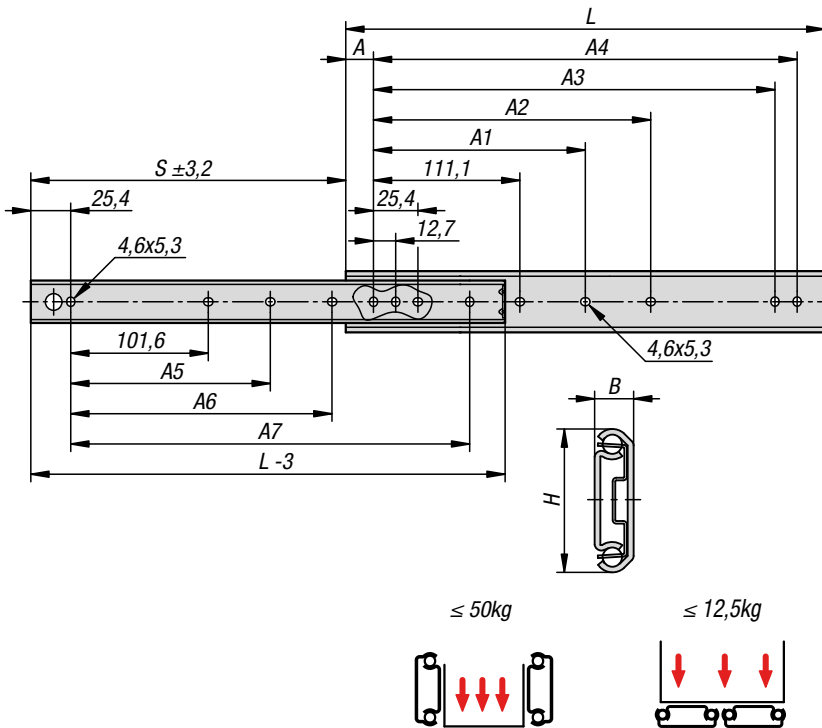
### KIPP Ball transfer units steel with lockable ball

Order No.	Form	Form-Type	Component material	Ball-Ø	A	D	D1	D2	H	H1	Max load in kg ball on top	Max load in kg ball under
K1734.1119	A	with clamping	ball stainless steel	19	48	50	63	6,5	25	2	120	80
K1734.2119	A	with clamping	Balls polyamide	19	48	50	63	6,5	25	2	120	80

Order No.	Form	Form-Type	Component material	Ball-Ø	D	D1	D2	H	H1	Max load in kg ball on top	Max load in kg ball under
K1734.1219	B	without clamp	ball stainless steel	19	50	63	6,5	25	2	120	80
K1734.2219	B	without clamp	Balls polyamide	19	50	63	6,5	25	2	120	80

## Telescopic slides, steel

for side mounting, partial extension, load capacity up to 50 kg



### Material:

Slides steel.  
Ball cages steel.  
Balls, steel.

### Version:

Slides electro zinc-plated.  
Ball cages steel.  
Balls hardened.

### Sample order:

K1710.0356

### Note for ordering:

Sold in pairs.

### Note:

On telescopic slides with partial extension, the travel is less than the installed length.

The dynamic load capacity of the telescopic slides indicates the maximum load rating of a vertically mounted slide pair when the entire extension length is used.

The load capacity specified is calculated with a slide spacing of 450 mm and is based on the maximum value with 10,000 cycles.

The load capacity is ca. 75% lower by horizontal mounting.

The head height of the fastening screws should not exceed 2.5 mm otherwise there is a risk of collision with other parts of the slide.

### Temperature range:

-20°C to +110°C.

### Advantages:

Suitable for flat mounting  
Light running  
Precise guidance for high lateral stability

# Telescopic slides, steel

for side mounting, partial extension, load capacity up to 50 kg



## KIPP Steel telescopic slides for side mounting, partial extension, load capacity up to 50 kg

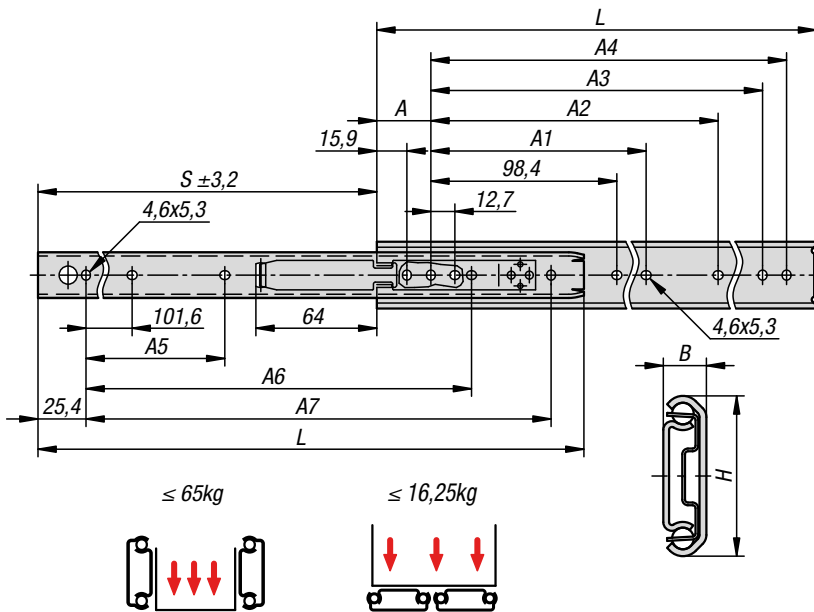
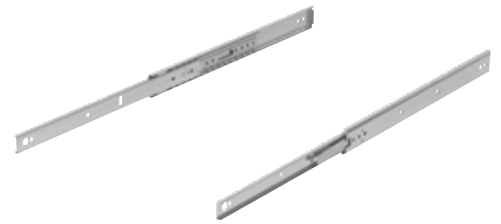
Order No.	Assembly	Product type	Loading per pair kg	Packaging type
K1710.0305	side mounting	standard	50	1 piece = 1 pair
K1710.0356	side mounting	standard	50	1 piece = 1 pair
K1710.0406	side mounting	standard	45	1 piece = 1 pair
K1710.0457	side mounting	standard	45	1 piece = 1 pair
K1710.0508	side mounting	standard	40	1 piece = 1 pair
K1710.0559	side mounting	standard	40	1 piece = 1 pair
K1710.0610	side mounting	standard	35	1 piece = 1 pair
K1710.0660	side mounting	standard	30	1 piece = 1 pair
K1710.0711	side mounting	standard	30	1 piece = 1 pair

Order No.	A	A1	A2	A3	A4	A5	A6	A7	B	H	Travel S	L
K1710.0305	15,9	-	149,2	260,3	273	-	152,4	254	9,5	35,3	227	305
K1710.0356	15,9	-	200	311,1	323,8	-	203,2	304,8	9,5	35,3	277	356
K1710.0406	15,9	-	250,8	361,9	374,6	-	254	355,6	9,5	35,3	302	406
K1710.0457	15,9	212,7	301,6	412,7	425,4	203,2	304,8	406,4	9,5	35,3	328	457
K1710.0508	15,9	238,1	352,4	463,5	476,2	228,6	355,6	457,2	9,5	35,3	379	508
K1710.0559	15,9	263,5	403,2	514,3	527	254	406,4	508	9,5	35,3	405	559
K1710.0610	15,9	288,9	454	565,1	577,8	279,4	457,2	558,8	9,5	35,3	429	610
K1710.0660	15,9	314,3	504,8	615,9	628,6	304,8	508	609,6	9,5	35,3	481	660
K1710.0711	15,9	339,7	555,6	666,8	679,4	330,2	558,8	660,4	9,5	35,3	506	711

# Telescopic slides, steel

for side mounting, partial extension, load capacity up to 65 kg

19"



### Material:

Slides steel.  
Ball cages steel.  
Balls, steel.

### Version:

Slides electro zinc-plated.  
Ball cages, electro zinc-plated.  
Balls hardened.

### Sample order:

K1711.0356

### Note for ordering:

Sold in pairs.

### Note:

On telescopic slides with partial extension, the travel is less than the installed length. Latches in open position. When the release lever is actuated, the drawer can be taken out easily and separated from the guide. The dynamic load capacity of the telescopic slides indicates the maximum load rating of a vertically mounted slide pair when the entire extension length is used.

The load capacity specified is calculated with a slide spacing of 450 mm and is based on the maximum value with 10,000 cycles.

The load capacity is ca. 75% lower by horizontal mounting.

The head height of the fastening screws should not exceed 2.5 mm otherwise there is a risk of collision with other parts of the slide.

### Temperature range:

-20°C to +70°C.

### Advantages:

Latches in open position  
Quick frontal release  
Suitable for flat mounting

# Telescopic slides, steel

for side mounting, partial extension, load capacity up to 65 kg

19"

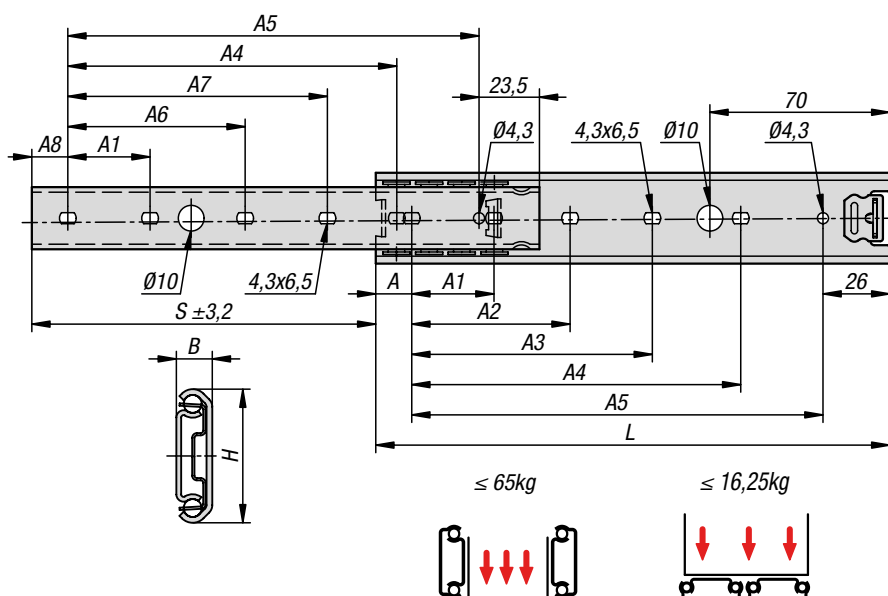
## KIPP Steel telescopic slides for side mounting, partial extension, load capacity up to 65 kg

Order No.	Assembly	Product type	Loading per pair kg	Packaging type
K1711.0305	side mounting	standard	65	1 piece = 1 pair
K1711.0356	side mounting	standard	65	1 piece = 1 pair
K1711.0406	side mounting	standard	60	1 piece = 1 pair
K1711.0457	side mounting	standard	55	1 piece = 1 pair
K1711.0508	side mounting	standard	50	1 piece = 1 pair
K1711.0559	side mounting	standard	40	1 piece = 1 pair
K1711.0610	side mounting	standard	35	1 piece = 1 pair
K1711.0660	side mounting	standard	30	1 piece = 1 pair
K1711.0711	side mounting	standard	30	1 piece = 1 pair

Order No.	A	A1	A2	A3	A4	A5	A6	A7	B	H	Travel S	L
K1711.0305	28,6	-	136,5	247,6	260,3	-	215,9	254	9,5	35,3	201,5	305
K1711.0356	28,6	-	187,3	298,4	311,1	-	266,7	304,8	9,5	35,3	252,5	356
K1711.0406	28,6	-	238,1	349,2	361,9	-	317,5	355,6	9,5	35,3	303	406
K1711.0457	28,6	200	288,9	400	412,7	203,2	342,9	406,4	9,5	35,3	329	457
K1711.0508	28,6	225,4	339,7	450,8	463,5	228,6	393,7	457,2	9,5	35,3	379,5	508
K1711.0559	28,6	250,8	390,5	501,6	514,3	254	419,1	508	9,5	35,3	405	559
K1711.0610	28,6	276,2	441,3	552,4	565,1	279,4	444,5	558,8	9,5	35,3	430,5	610
K1711.0660	28,6	301,6	492,1	603,2	615,9	304,8	495,3	609,6	9,5	35,3	481,5	660
K1711.0711	28,6	327	542,9	654	666,7	330,2	520,7	660,4	9,5	35,3	506,5	711

## Telescopic slides, stainless steel

for side mounting, partial extension, load capacity up to 65 kg



### Material:

Slides stainless steel 1.4301.  
Ball cage stainless steel 1.4301.  
Balls stainless steel 1.4034.

### Version:

Slides bright.  
Ball cages bright.  
Balls bright.

### Sample order:

K1712.0350

### Note for ordering:

Sold in pairs.

### Note:

On telescopic slides with partial extension, the travel is less than the installed length. Latches in closed position.  
The dynamic load capacity of the telescopic slides indicates the maximum load rating of a vertically mounted slide pair when the entire extension length is used.  
The load capacity specified is calculated with a slide spacing of 450 mm and is based on the maximum value with 10,000 or 80,000 cycles.

The load capacity is ca. 75% lower by horizontal mounting.

The head height of the fastening screws should not exceed 2.5 mm otherwise there is a risk of collision with other parts of the slide.

### Advantages:

Latches in closed position  
Suitable for flat mounting  
Light running



# Telescopic slides, stainless steel

for side mounting, partial extension, load capacity up to 65 kg



## KIPP Stainless steel telescopic slides for side mounting, partial extension, load capacity up to 65 kg

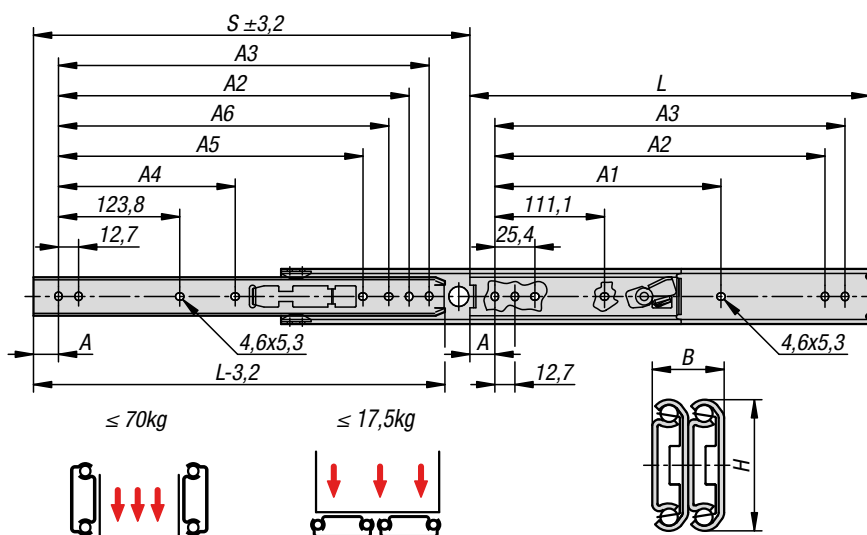
Order No.	Assembly	Product type	Load capacity per pair (80,000 cycles) kg	Loading pair (10,000 cycles) kg	Packaging type
K1712.0300	side mounting	standard	60	65	1 piece = 1 pair
K1712.0350	side mounting	standard	57	63	1 piece = 1 pair
K1712.0400	side mounting	standard	54	59	1 piece = 1 pair
K1712.0450	side mounting	standard	50	57	1 piece = 1 pair
K1712.0500	side mounting	standard	47	53	1 piece = 1 pair
K1712.0550	side mounting	standard	45	50	1 piece = 1 pair
K1712.0600	side mounting	standard	43	46	1 piece = 1 pair
K1712.0650	side mounting	standard	41	43	1 piece = 1 pair
K1712.0700	side mounting	standard	40	42	1 piece = 1 pair

Order No.	A	A1	A2	A3	A4	A5	A6	A7	A8	B	H	Travel S	L
K1712.0300	18	32	-	-	224	256	128	160	17,5	9,5	35,34	209	300
K1712.0350	36	32	160	192	256	288	160	192	35,5	9,5	35,34	245	350
K1712.0400	22	32	160	192	320	352	160	192	21,5	9,5	35,34	282	400
K1712.0450	8	32	224	256	384	416	224	256	7,5	9,5	35,34	320	450
K1712.0500	26	32	224	256	416	448	224	256	25,5	9,5	35,34	357	500
K1712.0550	12	32	288	320	480	512	288	320	11,5	9,5	35,34	394	550
K1712.0600	30	32	288	320	512	544	288	320	29,5	9,5	35,34	432	600
K1712.0650	16	32	352	384	576	608	352	384	15,5	9,5	35,34	469	650
K1712.0700	34	32	352	384	608	640	352	384	33,5	9,5	35,34	506	700

## Telescopic slides, steel

for side mounting, over-extension, load capacity up to 70 kg

19"



### Material:

Slides steel.  
Ball cages steel.  
Balls, steel.

### Version:

Slides electro zinc-plated.  
Ball cages, electro zinc-plated.  
Balls hardened.

### Sample order:

K1713.0356

### Note for ordering:

Sold in pairs.  
Fastening material included.

### Note:

On telescopic slides with over-extension, the travel is greater than the installed length. Latches in open position. When the release lever is actuated, the drawer can be taken out easily and separated from the guide. The dynamic load capacity of the telescopic slides indicates the maximum load rating of a vertically mounted slide pair when the entire extension length is used. The load capacities specified refer to the maximum value for 10,000 cycles.

The load capacity is ca. 75% lower by horizontal mounting.

The head height of the fastening screws should not exceed 2.5 mm otherwise there is a risk of collision with other parts of the slide.

### Temperature range:

-20°C to +110°C.

### Advantages:

Latches in open position  
Quick frontal release  
Suitable for flat mounting

# Telescopic slides, steel

for side mounting, over-extension, load capacity up to 70 kg

19"

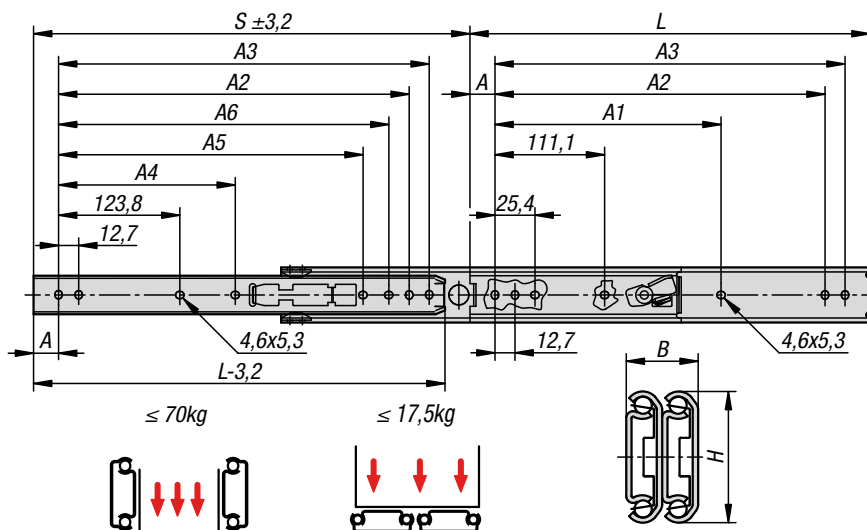
## KIPP Steel telescopic slides for side mounting, over-extension, load capacity up to 70 kg

Order No.	Assembly	Product type	Loading per pair kg	Packaging type
K1713.0305	side mounting	standard	70	1 piece = 1 pair
K1713.0356	side mounting	standard	68	1 piece = 1 pair
K1713.0406	side mounting	standard	65	1 piece = 1 pair
K1713.0457	side mounting	standard	62	1 piece = 1 pair
K1713.0508	side mounting	standard	57	1 piece = 1 pair
K1713.0559	side mounting	standard	52	1 piece = 1 pair
K1713.0610	side mounting	standard	46	1 piece = 1 pair
K1713.0660	side mounting	standard	41	1 piece = 1 pair
K1713.0711	side mounting	standard	36	1 piece = 1 pair

Order No.	A	A1	A2	A3	A4	A5	A6	B	H	Travel S	L
K1713.0305	15,9	-	260,3	273	-	-	-	19,1	35,3	327	305
K1713.0356	15,9	-	311,1	323,8	-	-	298,4	19,1	35,3	378	356
K1713.0406	15,9	250,8	361,9	374,6	-	-	349,2	19,1	35,3	429	406
K1713.0457	15,9	301,6	412,7	425,4	212,7	-	400	19,1	35,3	479,5	457
K1713.0508	15,9	352,4	463,5	476,2	238,1	365,2	450,8	19,1	35,3	530,5	508
K1713.0559	15,9	403,2	514,3	527	263,5	415,9	501,6	19,1	35,3	581	559
K1713.0610	15,9	454	565,1	577,8	288,9	466,7	552,4	19,1	35,3	632	610
K1713.0660	15,9	504,8	615,9	628,6	314,3	517,7	603,2	19,1	35,3	683	660
K1713.0711	15,9	555,6	666,7	679,4	339,7	568,3	654	19,1	35,3	733,5	711

## Telescopic slides, stainless steel

for side mounting, over-extension, load capacity up to 70 kg



### Material:

Slides stainless steel 1.4301.  
Ball cage stainless steel 1.4301.  
Balls stainless steel 1.4034.

### Version:

Slides bright.  
Ball cages bright.  
Balls bright.

### Sample order:

K1714.0356

### Note for ordering:

Sold in pairs.

### Note:

On telescopic slides with over-extension, the travel is greater than the installed length. Latches in open position. When the release lever is actuated, the drawer can be taken out easily and separated from the guide. The dynamic load capacity of the telescopic slides indicates the maximum load rating of a vertically mounted slide pair when the entire extension length is used. The load capacity specified is calculated with a slide spacing of 450 mm and is based on the maximum value with 10,000 cycles.

The load capacity is ca. 75% lower by horizontal mounting.

The head height of the fastening screws should not exceed 2.5 mm otherwise there is a risk of collision with other parts of the slide.

### Temperature range:

-20°C to +110°C.

### Advantages:

Latches in open position  
Quick frontal release  
Suitable for flat mounting

# Telescopic slides, stainless steel

for side mounting, over-extension, load capacity up to 70 kg



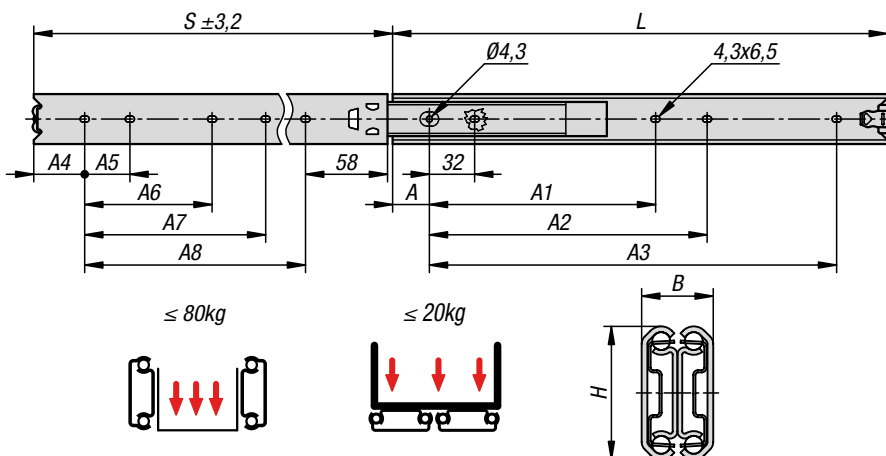
## KIPP Stainless steel telescopic slides for side mounting, over-extension, load capacity up to 70 kg

Order No.	Assembly	Product type	Loading per pair kg	Packaging type
K1714.0305	side mounting	standard	70	1 piece = 1 pair
K1714.0356	side mounting	standard	68	1 piece = 1 pair
K1714.0406	side mounting	standard	65	1 piece = 1 pair
K1714.0457	side mounting	standard	62	1 piece = 1 pair
K1714.0508	side mounting	standard	57	1 piece = 1 pair
K1714.0559	side mounting	standard	52	1 piece = 1 pair
K1714.0610	side mounting	standard	46	1 piece = 1 pair
K1714.0660	side mounting	standard	41	1 piece = 1 pair
K1714.0711	side mounting	standard	36	1 piece = 1 pair

Order No.	A	A1	A2	A3	A4	A5	A6	B	H	Travel S	L
K1714.0305	15,9	-	260,3	273	-	-	-	19,1	35,3	327	305
K1714.0356	15,9	-	311,1	323,8	-	-	298,4	19,1	35,3	378	356
K1714.0406	15,9	250,8	361,9	374,6	-	-	349,2	19,1	35,3	429	406
K1714.0457	15,9	301,6	412,7	425,4	212,7	-	400	19,1	35,3	479,5	457
K1714.0508	15,9	352,4	463,5	476,2	238,1	365,2	450,8	19,1	35,3	530,5	508
K1714.0559	15,9	403,2	514,3	527	263,5	415,9	501,6	19,1	35,3	581	559
K1714.0610	15,9	454	565,1	577,8	288,9	466,7	552,4	19,1	35,3	632	610
K1714.0660	15,9	504,8	615,9	628,6	314,3	517,7	603,2	19,1	35,3	683	660
K1714.0711	15,9	555,6	666,7	679,4	339,7	568,3	654	19,1	35,3	733,5	711

## Telescopic slides, stainless steel

for side mounting, full extension, load capacity up to 80 kg



### Material:

Slides stainless steel 1.4301.  
Ball cage stainless steel 1.4301.  
Balls stainless steel 1.4034.

### Version:

Slides bright.  
Ball cages bright.  
Balls bright.

### Sample order:

K1715.0350

### Note for ordering:

Sold in pairs.

### Note:

On telescopic slides with full extension, the travel is similar to the installed length, which ensures greater comfort and accessibility. Latches in closed position. The dynamic load capacity of the telescopic slides indicates the maximum load rating of a vertically mounted slide pair when the entire extension length is used. The load capacity specified is calculated with a slide spacing of 450 mm and is based on the maximum value with 10,000 or 80,000 cycles.

The load capacity is ca. 75% lower by horizontal mounting.

The head height of the fastening screws should not exceed 2.5 mm otherwise there is a risk of collision with other parts of the slide.

### Advantages:

- Latches in closed position
- Suitable for flat mounting
- Light running

## Telescopic slides, stainless steel

for side mounting, full extension, load capacity up to 80 kg



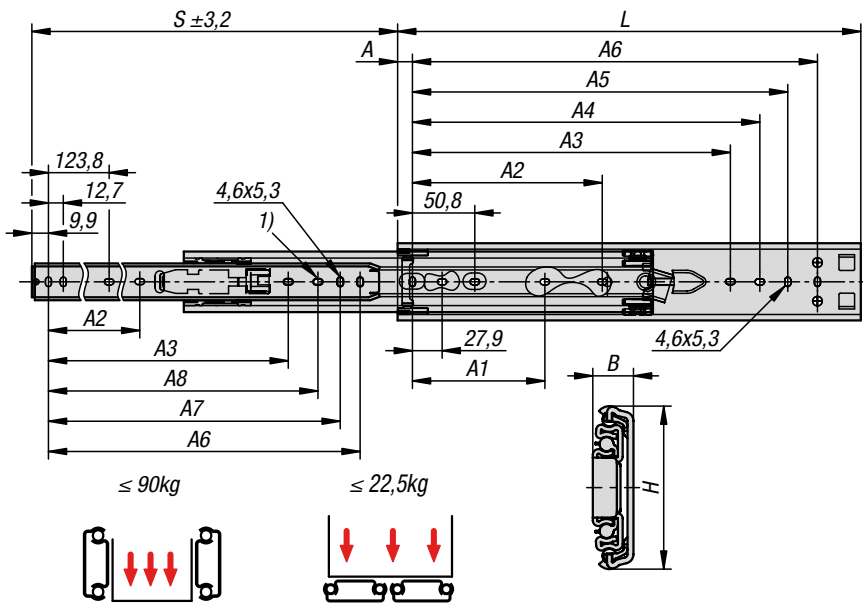
### KIPP Stainless steel telescopic slides for side mounting, full extension, load capacity up to 80 kg

Order No.	Assembly	Product type	Load capacity per pair (80,000 cycles) kg	Loading pair (10,000 cycles) kg	Packaging type
K1715.0300	side mounting	standard	50	65	1 piece = 1 pair
K1715.0350	side mounting	standard	55	70	1 piece = 1 pair
K1715.0400	side mounting	standard	60	75	1 piece = 1 pair
K1715.0450	side mounting	standard	65	80	1 piece = 1 pair
K1715.0500	side mounting	standard	57	75	1 piece = 1 pair
K1715.0550	side mounting	standard	50	70	1 piece = 1 pair
K1715.0600	side mounting	standard	45	65	1 piece = 1 pair
K1715.0700	side mounting	standard	30	55	1 piece = 1 pair

Order No.	A	A1	A2	A3	A4	A5	A6	A7	A8	B	H	Travel S	L
K1715.0300	26	-	192	224	18	32	-	-	224	19,1	35,3	304,5	300
K1715.0350	26	-	224	256	36	32	-	-	256	19,1	35,3	354	350
K1715.0400	26	-	192	320	22	32	-	160	320	19,1	35,3	403	400
K1715.0450	26	-	224	352	40	32	-	160	352	19,1	35,3	452	450
K1715.0500	26	256	288	416	26	32	160	192	416	19,1	35,3	501	500
K1715.0550	26	288	320	480	44	32	160	192	448	19,1	35,3	550,5	550
K1715.0600	26	320	352	512	30	32	192	224	512	19,1	35,3	600	600
K1715.0700	26	352	384	608	34	32	256	288	608	19,1	35,3	698	700

## Telescopic slides, stainless steel

for side mounting, over-extension, load capacity up to 90 kg



### Material:

Slides stainless steel 1.4301.  
Ball cage stainless steel 1.4301.  
Balls stainless steel 1.4034.

### Version:

Slides bright.  
Ball cages bright.  
Balls bright.

### Sample order:

K1716.0356

### Note for ordering:

Sold in pairs.

### Note:

On telescopic slides with over-extension, the travel is greater than the installed length. Latches in open position. When the release lever is actuated, the drawer can be taken out easily and separated from the guide. The dynamic load capacity of the telescopic slides indicates the maximum load rating of a vertically mounted slide pair when the entire extension length is used. The load capacity specified is calculated with a slide spacing of 400 mm and is based on the maximum value with 10,000 cycles.

The load capacity is ca. 75% lower by horizontal mounting.

The head height of the fastening screws should not exceed 2.5 mm otherwise there is a risk of collision with other parts of the slide.

### Advantages:

- Latches in open position
- Quick frontal release
- Suitable for flat mounting

### Drawing reference:

1) Mounting hole by K1716.0305 not provided



# Telescopic slides, stainless steel

for side mounting, over-extension, load capacity up to 90 kg



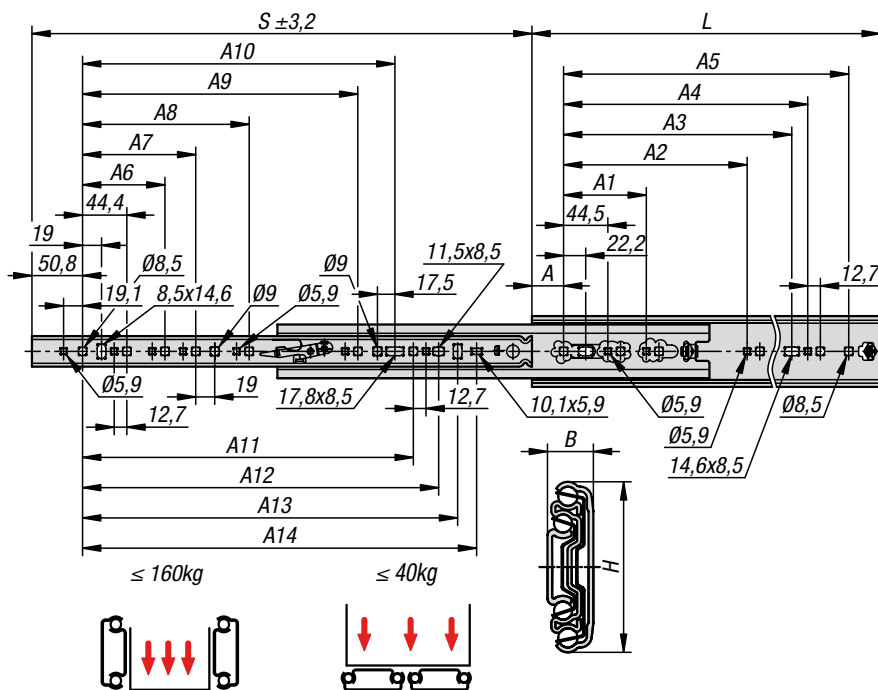
## KIPP Stainless steel telescopic slides for side mounting, over-extension, load capacity up to 90 kg

Order No.	Assembly	Product type	Loading per pair kg	Packaging type
K1716.0305	side mounting	standard	56	1 piece = 1 pair
K1716.0356	side mounting	standard	68	1 piece = 1 pair
K1716.0406	side mounting	standard	80	1 piece = 1 pair
K1716.0457	side mounting	standard	85	1 piece = 1 pair
K1716.0508	side mounting	standard	90	1 piece = 1 pair
K1716.0559	side mounting	standard	90	1 piece = 1 pair
K1716.0610	side mounting	standard	90	1 piece = 1 pair
K1716.0660	side mounting	standard	87	1 piece = 1 pair

Order No.	A	A1	A2	A3	A4	A5	A6	A7	A8	B	H	Travel S	L
K1716.0305	15,9	-	-	-	209,6	235	260,4	247,7	-	12,7	51,6	330	305
K1716.0356	15,9	-	-	-	260,4	285,8	311,2	298,5	285,8	12,7	51,6	381	356
K1716.0406	15,9	123,8	-	-	311,2	336,6	362	349,3	336,6	12,7	51,6	432	406
K1716.0457	15,9	123,8	177,8	314,4	362	387,4	412,8	400,1	387,4	12,7	51,6	483	457
K1716.0508	15,9	123,8	203,2	365,3	412,8	438,2	463,6	450,9	438,2	12,7	51,6	533	508
K1716.0559	15,9	123,8	228,6	416,1	463,6	489	514,4	501,7	489	12,7	51,6	584	559
K1716.0610	15,9	123,8	254	466,9	514,4	539,8	565,2	552,5	539,8	12,7	51,6	635	610
K1716.0660	15,9	123,8	279,4	517,7	565,2	590,6	616	603,3	590,6	12,7	51,6	686	660

## Telescopic slides, steel

for side mounting, full extension, load capacity up to 160 kg



**Material:**

Slides steel.  
Ball cages steel.  
Balls, steel.

**Version:**

Slides electro zinc-plated.  
Ball cages, electro zinc-plated.  
Balls hardened.

**Sample order:**

K1717.0356

**Note for ordering:**

Sold in pairs.

**Note:**

By telescopic slides with full extension, the travel is roughly equal to the installed length, which ensures greater comfort and accessibility. Latches in closed position. When the release lever is actuated, the drawer can be taken out easily and separated from the guide. The dynamic load capacity of the telescopic slides indicates the maximum load rating of a vertically mounted slide pair when the entire extension length is used. The load capacities specified refer to the maximum value for 80,000 cycles.

The load capacity is ca. 75% lower by horizontal mounting.

Suitable for a slide spacing up to 1,000 mm.

**Temperature range:**

-20°C to +70°C.

**Advantages:**

- Latches in closed position
- Quick frontal release
- Suitable for flat mounting

# Telescopic slides, steel

for side mounting, full extension, load capacity up to 160 kg

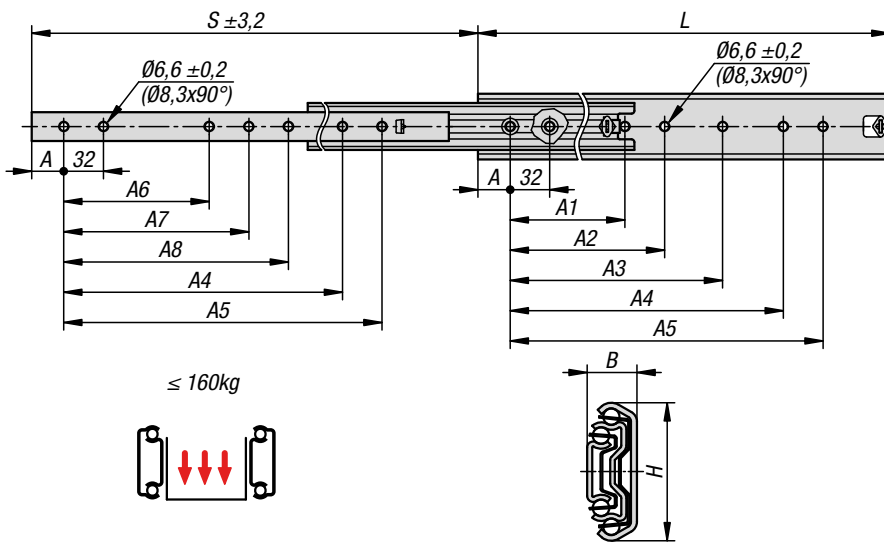
## KIPP Steel telescopic slides for side mounting, full extension, load capacity up to 160 kg

Order No.	Assembly	Product type	Loading per pair kg	Packaging type
K1717.0305	side mounting	standard	140	1 piece = 1 pair
K1717.0356	side mounting	standard	140	1 piece = 1 pair
K1717.0407	side mounting	standard	150	1 piece = 1 pair
K1717.0457	side mounting	standard	150	1 piece = 1 pair
K1717.0508	side mounting	standard	160	1 piece = 1 pair
K1717.0559	side mounting	standard	160	1 piece = 1 pair
K1717.0610	side mounting	standard	160	1 piece = 1 pair
K1717.0660	side mounting	standard	160	1 piece = 1 pair
K1717.0711	side mounting	standard	160	1 piece = 1 pair
K1717.0762	side mounting	standard	160	1 piece = 1 pair
K1717.0813	side mounting	standard	160	1 piece = 1 pair
K1717.0864	side mounting	standard	160	1 piece = 1 pair
K1717.0914	side mounting	standard	160	1 piece = 1 pair

Order No.	A	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	B	H	Travel S	L
K1717.0305	31,8	-	-	184,2	200,2	241,3	-	-	-	-	-	-	-	179,4	198,5	19,1	70,8	304,8	304,8
K1717.0356	31,8	-	-	235	251	292,1	-	-	-	-	-	-	-	230,2	249,3	19,1	70,8	355,6	355,6
K1717.0407	31,8	-	-	285,8	301,8	342,9	108	-	-	-	-	236,6	262	281	300,1	19,1	70,8	406,4	406,4
K1717.0457	31,8	-	-	336,6	352,6	393,7	108	-	-	-	-	287,4	312,8	331,8	350,9	19,1	70,8	457,2	457,2
K1717.0508	31,8	-	-	387,4	403,4	444,5	108	171,5	-	-	-	338,2	363,6	382,6	401,7	19,1	70,8	508	508
K1717.0559	31,8	-	-	438,2	454,2	495,3	108	171,5	-	-	328,7	389	414,4	433,4	452,5	19,1	70,8	558,8	558,8
K1717.0610	31,8	-	-	489	505	546,1	108	171,5	-	-	379,5	439,8	465,2	484,2	503,3	19,1	70,8	609,6	609,6
K1717.0660	31,8	-	-	539,8	555,8	596,9	108	171,5	-	-	430,3	490,6	516	535	554,1	19,1	70,8	660,4	660,4
K1717.0711	31,8	-	-	590,6	606,6	647,7	108	171,5	-	-	481,1	541,4	566,8	585,8	604,9	19,1	70,8	711,2	711,2
K1717.0762	31,8	203,2	469,9	641,4	657,4	698,5	108	171,5	-	-	531,9	592,2	617,6	636,6	655,7	19,1	70,8	762	762
K1717.0813	31,8	203,2	520,7	692,2	708,2	749,3	108	171,5	-	-	582,7	643	688,4	687,4	706,5	19,1	70,8	812,8	812,8
K1717.0864	31,8	203,2	571,5	743	759	800,1	108	171,5	349,3	-	633,5	693,8	719,2	738,2	757,3	19,1	70,8	863,6	863,6
K1717.0914	31,8	203,2	622,3	793,8	809,8	850,9	108	171,5	349,3	501,7	684,3	744,6	770	789	808,1	19,1	70,8	914,4	914,4

## Telescopic slides, steel

for side mounting, over-extension, load capacity up to 160 kg



**Material:**

Slides steel.  
Ball cages steel.  
Balls, steel.

**Version:**

Slides electro zinc-plated.  
Ball cages, electro zinc-plated.  
Balls hardened.

**Sample order:**

K1718.0350

**Note for ordering:**

Sold in pairs.

**Note:**

On telescopic slides with over-extension, the travel is greater than the installed length. Latches in closed position. The dynamic load capacity of the telescopic slides indicates the maximum load rating of a vertically mounted slide pair when the entire extension length is used. The load capacity specified is calculated with a slide spacing of 450 mm and is based on the maximum value with 10,000 or 80,000 cycles.

Not suitable for horizontal mounting.

**Temperature range:**

-20°C to +70°C.

**Advantages:**

Latches in closed position  
Light running  
Precise guidance for high lateral stability

# Telescopic slides, steel

for side mounting, over-extension, load capacity up to 160 kg

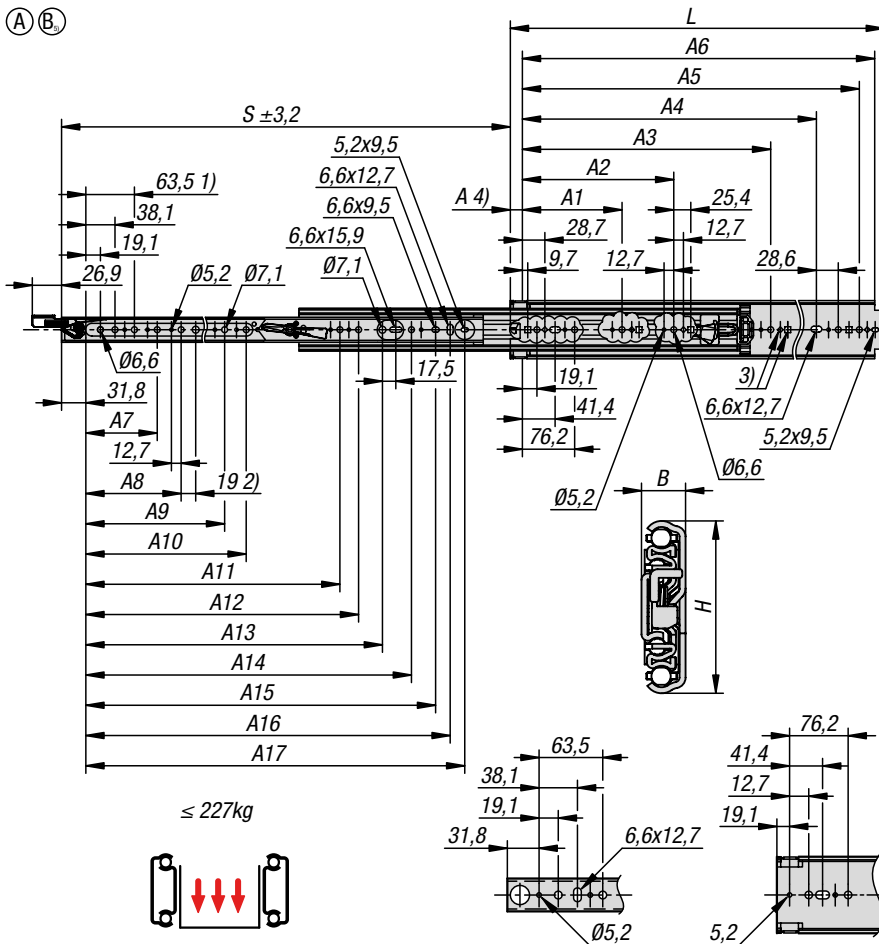
## KIPP Steel telescopic slides for side mounting, over-extension, load capacity up to 160 kg

Order No.	Assembly	Product type	Load capacity per pair (80,000 cycles) kg	Loading pair (10,000 cycles) kg	Packaging type
K1718.0300	side mounting	standard	120	130	1 piece = 1 pair
K1718.0350	side mounting	standard	120	140	1 piece = 1 pair
K1718.0400	side mounting	standard	130	150	1 piece = 1 pair
K1718.0450	side mounting	standard	140	160	1 piece = 1 pair
K1718.0500	side mounting	standard	140	160	1 piece = 1 pair
K1718.0550	side mounting	standard	140	160	1 piece = 1 pair
K1718.0600	side mounting	standard	120	150	1 piece = 1 pair
K1718.0700	side mounting	standard	110	130	1 piece = 1 pair
K1718.0790	side mounting	standard	100	100	1 piece = 1 pair
K1718.0900	side mounting	standard	80	90	1 piece = 1 pair
K1718.1000	side mounting	standard	70	80	1 piece = 1 pair
K1718.1100	side mounting	standard	60	70	1 piece = 1 pair

Order No.	A	A1	A2	A3	A4	A5	A6	A7	A8	B	H	Travel S	L
K1718.0300	26	-	-	-	192	224	-	-	-	19,1	53,1	323,5	300
K1718.0350	26	-	-	-	224	256	-	-	-	19,1	53,1	373,5	350
K1718.0400	26	-	160	192	288	320	128	160	-	19,1	53,1	423,5	400
K1718.0450	26	-	160	192	320	352	128	160	-	19,1	53,1	473,5	450
K1718.0500	26	-	192	224	384	416	160	192	-	19,1	53,1	523,5	500
K1718.0550	26	-	192	224	416	448	160	192	-	19,1	53,1	573,5	550
K1718.0600	26	-	256	288	480	512	192	256	-	19,1	53,1	623,5	600
K1718.0700	26	288	320	544	576	608	256	288	544	19,1	53,1	723,5	700
K1718.0790	26	-	352	384	672	704	320	352	384	19,1	53,1	803,5	790
K1718.0900	26	-	448	480	768	800	352	384	416	19,1	53,1	923,5	900
K1718.1000	26	448	480	512	864	896	448	480	-	19,1	53,1	1023,5	1000
K1718.1100	26	448	544	576	992	1024	448	480	512	19,1	53,1	1123,5	1100

## Telescopic slides, steel

for side mounting, full extension, load capacity up to 227 kg



### Drawing reference:

- 1) Mounting hole by K1719.03050 and K1719.03051 not provided
- 2) Mounting hole by K1719.05590 and K1719.05591 not provided
- 3) Cut-out for carriage bolt
- 4) Reference dimension only, not a mounting hole
- 5) Form B, identical dimensions as the right-hand version

### Material:

Slides steel.  
Ball cages steel.  
Balls, steel.

### Version:

Slides electro zinc-plated.  
Ball cages, electro zinc-plated.  
Balls hardened.

### Sample order:

1 Pair (latching both sides): K1719.\*\*\*\*0 (left) & K1719.\*\*\*\*1 (right)  
1 Pair (latching one side): K1719.\*\*\*\*0 (left) or K1719.\*\*\*\*1 (right) & K1720.\*\*\*\*

### Note for ordering:

Sold individually.

### Note:

By telescopic slides with full extension, the travel is roughly equal to the installed length, which ensures greater comfort and accessibility. Latches in open and closed positions. The telescopic slides can only be opened or closed after the release lever has been actuated. The dynamic load capacity of the telescopic slides indicates the maximum load rating of a vertically mounted slide pair when the entire extension length is used. The load capacities specified refer to the maximum value for 10,000 cycles.

Not suitable for horizontal mounting.

The head height of the fastening screws should not exceed 4,8 mm otherwise there is a risk of collision with other parts of the slide.

These telescopic slides cannot be ordered as a pair. If double sided latching is desired, a left and a right version must be ordered.

If single sided latching is desired, a combination with K1720 is possible.

### Advantages:

Latches in open and closed positions  
For heavy duty use  
Manual release  
Light running

### Accessories:

Steel telescopic slides K1720.

### Attention:

The maximum load rating refers to a pair of telescopic slides.

# Telescopic slides, steel

for side mounting, full extension, load capacity up to 227 kg

## KIPP Steel telescopic slides for side mounting, full extension, load capacity up to 227 kg

Order No.	Form	Form-Type	Assembly	Product type	Loading per pair kg	Packaging type
K1719.03050	A	left	side mounting	standard	227	packaged individually
K1719.03560	A	left	side mounting	standard	227	packaged individually
K1719.04060	A	left	side mounting	standard	227	packaged individually
K1719.04570	A	left	side mounting	standard	227	packaged individually
K1719.05080	A	left	side mounting	standard	227	packaged individually
K1719.05590	A	left	side mounting	standard	227	packaged individually
K1719.06100	A	left	side mounting	standard	227	packaged individually
K1719.06600	A	left	side mounting	standard	227	packaged individually
K1719.07110	A	left	side mounting	standard	227	packaged individually
K1719.07620	A	left	side mounting	standard	222	packaged individually
K1719.08130	A	left	side mounting	standard	218	packaged individually
K1719.08640	A	left	side mounting	standard	213	packaged individually
K1719.09140	A	left	side mounting	standard	209	packaged individually
K1719.10160	A	left	side mounting	standard	200	packaged individually
K1719.10670	A	left	side mounting	standard	195	packaged individually
K1719.12190	A	left	side mounting	standard	182	packaged individually
K1719.13720	A	left	side mounting	standard	168	packaged individually
K1719.15240	A	left	side mounting	standard	154	packaged individually

Order No.	A	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	B	H	Travel S	L
K1719.03050	12,7	-	-	-	203,2	260,4	279,4	-	-	-	-	-	-	-	153,9	179,3	198,4	19,1	76,2	304,8	304,8
K1719.03560	12,7	-	-	-	254	311,2	330,2	-	-	-	-	-	-	-	204,7	230,1	249,2	19,1	76,2	355,6	355,6
K1719.04060	12,7	-	-	-	304,8	362	381	-	-	-	-	-	-	-	255,5	280,9	300	19,1	76,2	406,4	406,4
K1719.04570	12,7	-	-	-	355,6	412,8	431,8	127	-	-	-	-	-	-	306,3	331,7	350,8	19,1	76,2	457,2	457,2
K1719.05080	12,7	-	-	-	406,4	463,6	482,6	127	-	-	-	-	-	296,6	357,1	382,5	401,6	19,1	76,2	508	508
K1719.05590	12,7	-	-	-	457,2	514,4	533,4	127	190,5	-	-	-	-	347,7	407,9	433,3	452,4	19,1	76,2	558,8	558,8
K1719.06100	12,7	-	-	-	508	565,2	584,2	127	190,5	-	-	-	-	398,5	458,7	484,1	503,2	19,1	76,2	609,6	609,6
K1719.06600	12,7	-	-	-	558,8	616	635	127	190,5	-	-	-	-	449,3	509,5	534,9	554	19,1	76,2	660,4	660,4
K1719.07110	12,7	-	-	-	609,6	666,8	685,8	127	190,5	-	-	-	-	500,1	560,3	585,7	604,8	19,1	76,2	711,2	711,2
K1719.07620	12,7	235	-	501,7	660,4	717,6	736,6	127	190,5	-	-	-	-	550,9	611,1	636,5	655,6	19,1	76,2	762	762
K1719.08130	12,7	235	-	552,5	711,2	768,4	787,4	127	190,5	-	-	-	-	601,7	661,9	687,3	706,4	19,1	76,2	812,8	812,8
K1719.08640	12,7	235	-	603,2	762	819,1	838,2	127	190,5	-	520,7	-	-	652,5	712,7	738,1	757,1	19,1	76,2	863,6	863,6
K1719.09140	12,7	235	-	654,1	812,8	869,9	889	127	190,5	368,3	520,7	-	-	703,3	763,5	788,9	807,9	19,1	76,2	914,4	914,4
K1719.10160	12,7	235	-	755,7	914,4	971,5	990,6	127	190,5	368,3	-	-	-	804,9	865,1	890,5	909,5	19,1	76,2	1016	1016
K1719.10670	12,7	235	-	806,5	965,2	1022,4	1041,4	127	190,5	368,3	-	-	-	855,7	915,9	941,3	960,4	19,1	76,2	1066,8	1066,8
K1719.12190	12,7	235	-	958,9	1117,6	1174,8	1193,8	127	190,5	368,3	520,7	825,5	-	1008,1	1068,3	1093,7	1112,8	19,1	76,2	1219,2	1219,2
K1719.13720	12,7	235	-	958,9	1270	1327,2	1346,2	127	190,5	368,3	520,7	825,5	-	1160,5	1220,8	1246,2	1265,2	19,1	76,2	1371,6	1371,6
K1719.15240	12,7	235	596,6	958,9	1422,4	1479,5	1498,6	127	190,5	368,3	520,7	825,5	1130,3	1312,9	1373,1	1398,5	1417,8	19,1	76,2	1524	1524

# Telescopic slides, steel

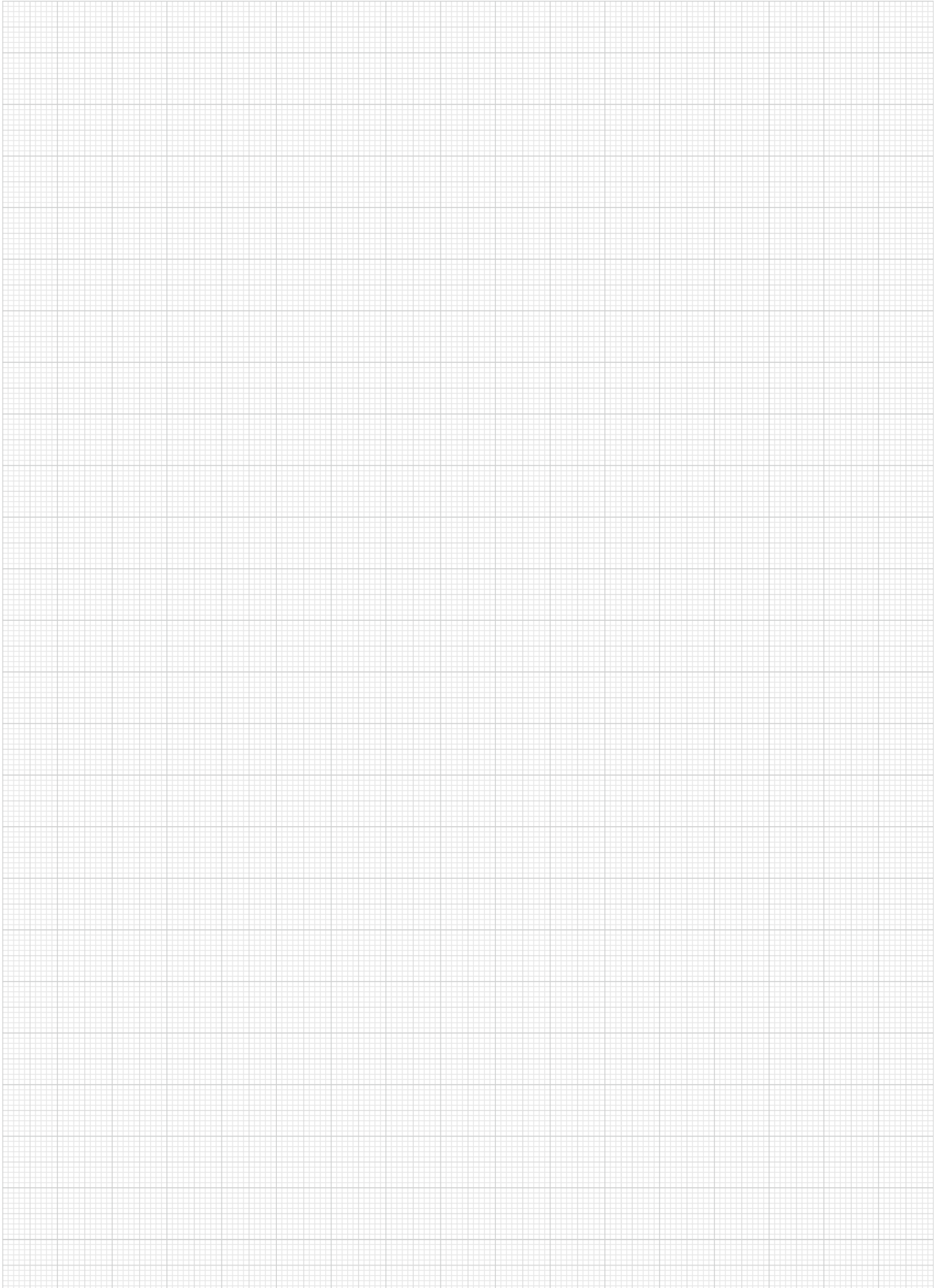
for side mounting, full extension, load capacity up to 227 kg

## KIPP Steel telescopic slides for side mounting, full extension, load capacity up to 227 kg

Order No.	Form	Form-Type	Assembly	Product type	Loading per pair kg	Packaging type
K1719.03051	B	right	side mounting	standard	227	packaged individually
K1719.03561	B	right	side mounting	standard	227	packaged individually
K1719.04061	B	right	side mounting	standard	227	packaged individually
K1719.04571	B	right	side mounting	standard	227	packaged individually
K1719.05081	B	right	side mounting	standard	227	packaged individually
K1719.05591	B	right	side mounting	standard	227	packaged individually
K1719.06101	B	right	side mounting	standard	227	packaged individually
K1719.06601	B	right	side mounting	standard	227	packaged individually
K1719.07111	B	right	side mounting	standard	227	packaged individually
K1719.07621	B	right	side mounting	standard	222	packaged individually
K1719.08131	B	right	side mounting	standard	218	packaged individually
K1719.08641	B	right	side mounting	standard	213	packaged individually
K1719.09141	B	right	side mounting	standard	209	packaged individually
K1719.10161	B	right	side mounting	standard	200	packaged individually
K1719.10671	B	right	side mounting	standard	195	packaged individually
K1719.12191	B	right	side mounting	standard	182	packaged individually
K1719.13721	B	right	side mounting	standard	168	packaged individually
K1719.15241	B	right	side mounting	standard	154	packaged individually

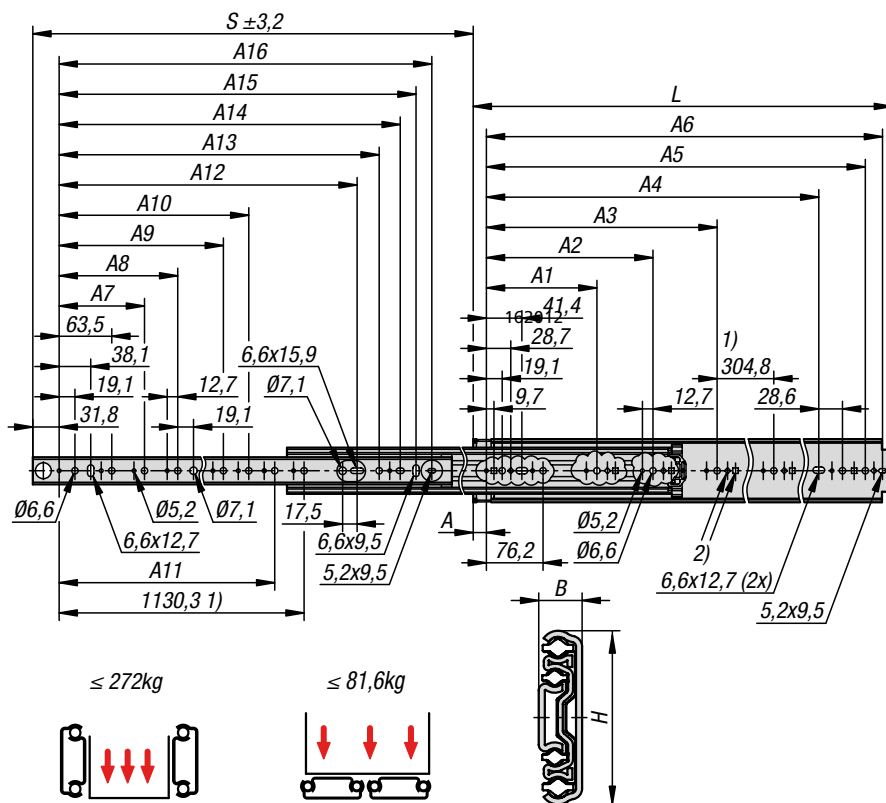
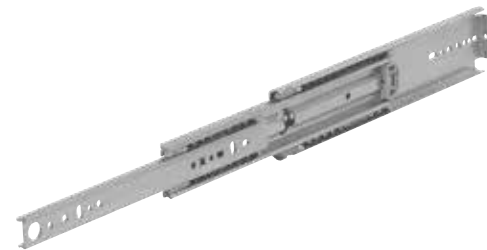
Order No.	A	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	B	H	Travel S	L
K1719.03051	12,7	-	-	-	203,2	260,4	279,4	-	-	-	-	-	-	-	153,9	179,3	198,4	19,1	76,2	304,8	304,8
K1719.03561	12,7	-	-	-	254	311,2	330,2	-	-	-	-	-	-	-	204,7	230,1	249,2	19,1	76,2	355,6	355,6
K1719.04061	12,7	-	-	-	304,8	362	381	-	-	-	-	-	-	-	255,5	280,9	300	19,1	76,2	406,4	406,4
K1719.04571	12,7	-	-	-	355,6	412,8	431,8	127	-	-	-	-	-	-	306,3	331,7	350,8	19,1	76,2	457,2	457,2
K1719.05081	12,7	-	-	-	406,4	463,6	482,6	127	-	-	-	-	-	296,6	357,1	382,5	401,6	19,1	76,2	508	508
K1719.05591	12,7	-	-	-	457,2	514,4	533,4	127	190,5	-	-	-	-	347,7	407,9	433,3	452,4	19,1	76,2	558,8	558,8
K1719.06101	12,7	-	-	-	508	565,2	584,2	127	190,5	-	-	-	-	398,5	458,7	484,1	503,2	19,1	76,2	609,6	609,6
K1719.06601	12,7	-	-	-	558,8	616	635	127	190,5	-	-	-	-	449,3	509,5	534,9	554	19,1	76,2	660,4	660,4
K1719.07111	12,7	-	-	-	609,6	666,8	685,8	127	190,5	-	-	-	-	500,1	560,3	585,7	604,8	19,1	76,2	711,2	711,2
K1719.07621	12,7	235	-	501,7	660,4	717,6	736,6	127	190,5	-	-	-	-	550,9	611,1	636,5	655,6	19,1	76,2	762	762
K1719.08131	12,7	235	-	552,5	711,2	768,4	787,4	127	190,5	-	-	-	-	601,7	661,9	687,3	706,4	19,1	76,2	812,8	812,8
K1719.08641	12,7	235	-	603,2	762	819,1	838,2	127	190,5	-	520,7	-	-	652,5	712,7	738,1	757,1	19,1	76,2	863,6	863,6
K1719.09141	12,7	235	-	654,1	812,8	869,9	889	127	190,5	368,3	520,7	-	-	703,3	763,5	788,9	807,9	19,1	76,2	914,4	914,4
K1719.10161	12,7	235	-	755,7	914,4	971,5	990,6	127	190,5	368,3	-	-	-	804,9	865,1	890,5	909,5	19,1	76,2	1016	1016
K1719.10671	12,7	235	-	806,5	965,2	1022,4	1041,4	127	190,5	368,3	-	-	-	855,7	915,9	941,3	960,4	19,1	76,2	1066,8	1066,8
K1719.12191	12,7	235	-	958,9	1117,6	1174,8	1193,8	127	190,5	368,3	520,7	825,5	-	1008,1	1068,3	1093,7	1112,8	19,1	76,2	1219,2	1219,2
K1719.13721	12,7	235	-	958,9	1270	1327,2	1346,2	127	190,5	368,3	520,7	825,5	-	1160,5	1220,8	1246,2	1265,2	19,1	76,2	1371,6	1371,6
K1719.15241	12,7	235	596,9	958,9	1422,4	1479,5	1498,6	127	190,5	368,3	520,7	825,5	1130,3	1312,9	1373,1	1398,5	1417,8	19,1	76,2	1524	1524





## Telescopic slides, steel

for side mounting, full extension, load capacity up to 272 kg



### Material:

Slides steel.  
Ball cages steel.  
Balls, steel.

### Version:

Slides electro zinc-plated.  
Ball cages, electro zinc-plated.  
Balls hardened.

### Sample order:

1 Pair (no latching): K1720\*\*\*\* & K1720.\*\*\*\*  
1 Pair (latching one side): K1719.\*\*\*\*0 (left) or  
K1719.\*\*\*\*1 (right) & K1720.\*\*\*\*

### Note for ordering:

Sold individually.

### Note:

By telescopic slides with full extension, the travel is roughly equal to the installed length, which ensures greater comfort and accessibility. The dynamic load capacity of the telescopic slides indicates the maximum load rating of a vertically mounted slide pair when the entire extension length is used. The load capacities specified refer to the maximum value for 10,000 cycles.

The load capacity is ca. 70% lower by horizontal mounting.

The head height of the fastening screws should not exceed 4,8 mm otherwise there is a risk of collision with other parts of the slide.

These telescopic slides cannot be ordered as a pair. If single sided latching is desired, a combination with K1719 is possible.

### Temperature range:

-20°C to +70°C.

### Advantages:

Suitable for flat mounting  
For heavy duty use  
Light running

### Accessories:

Steel telescopic slides K1719.

### Attention:

The maximum load rating refers to a pair of telescopic slides.

### Drawing reference:

1) Mounting hole by K1720.1524 provided  
2) Cut-out for carriage bolt

# Telescopic slides, steel

for side mounting, full extension, load capacity up to 272 kg



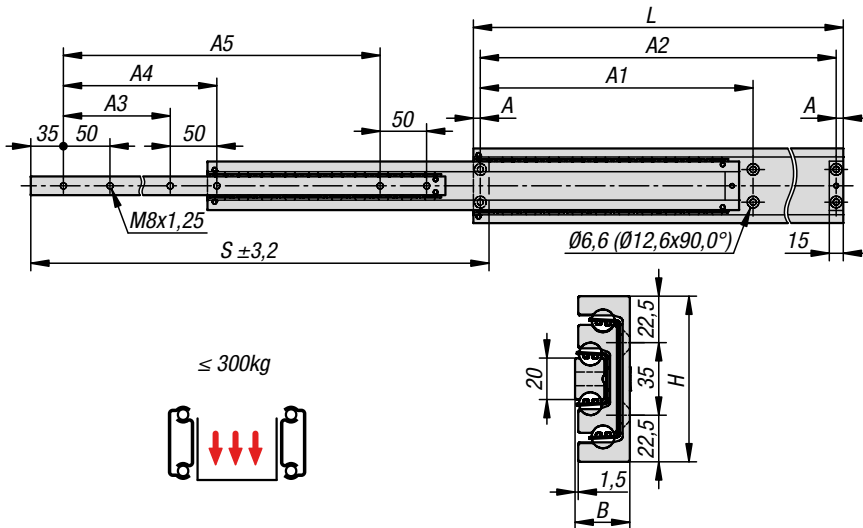
## KIPP Steel telescopic slides for side mounting, full extension, load capacity up to 272 kg

Order No.	Assembly	Product type	Loading per pair kg	Packaging type
K1720.0254	side mounting	standard	272	packaged individually
K1720.0305	side mounting	standard	272	packaged individually
K1720.0356	side mounting	standard	272	packaged individually
K1720.0406	side mounting	standard	272	packaged individually
K1720.0457	side mounting	standard	272	packaged individually
K1720.0508	side mounting	standard	272	packaged individually
K1720.0559	side mounting	standard	272	packaged individually
K1720.0610	side mounting	standard	267	packaged individually
K1720.0660	side mounting	standard	264	packaged individually
K1720.0711	side mounting	standard	261	packaged individually
K1720.0762	side mounting	standard	258	packaged individually
K1720.0813	side mounting	standard	256	packaged individually
K1720.0864	side mounting	standard	253	packaged individually
K1720.0914	side mounting	standard	248	packaged individually
K1720.1016	side mounting	standard	237	packaged individually
K1720.1067	side mounting	standard	228	packaged individually
K1720.1118	side mounting	standard	218	packaged individually
K1720.1220	side mounting	standard	204	packaged individually
K1720.1372	side mounting	standard	196	packaged individually
K1720.1524	side mounting	standard	182	packaged individually

Order No.	A	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	B	H	Travel S	L
K1720.0254	12,7	-	-	-	152,4	209,6	228,6	-	-	-	-	-	-	103,1	128,5	147,6	166,6	19,1	76,2	254	254
K1720.0305	12,7	-	-	-	203,2	260,4	279,4	-	-	-	-	-	-	153,9	179,3	198,4	217,4	19,1	76,2	304,8	304,8
K1720.0356	12,7	-	-	-	254	311,2	330,2	-	-	-	-	-	-	204,7	230,1	249,2	268,2	19,1	76,2	355,6	355,6
K1720.0406	12,7	-	-	-	304,8	362	381	127	-	-	-	-	-	255,5	280,9	300	319	19,1	76,2	406,4	406,4
K1720.0457	12,7	-	-	-	355,6	412,8	431,8	127	-	-	-	-	246,1	306,3	331,7	350,8	369,8	19,1	76,2	457,2	457,2
K1720.0508	12,7	-	-	-	406,4	463,6	482,6	127	190,5	-	-	-	296,9	357,1	382,5	401,6	420,6	19,1	76,2	508	508
K1720.0559	12,7	-	-	-	457,2	514,4	533,4	127	190,5	-	-	-	347,7	407,9	433,3	452,4	471,4	19,1	76,2	558,8	558,8
K1720.0610	12,7	-	-	-	508	565,2	584,2	127	190,5	-	-	-	398,5	458,7	484,1	503,2	522,2	19,1	76,2	609,6	609,6
K1720.0660	12,7	-	-	-	558,8	616	635	127	190,5	-	-	-	449,3	509,5	534,9	554	573	19,1	76,2	660,4	660,4
K1720.0711	12,7	-	-	-	609,6	666,8	685,8	127	190,5	-	-	-	500,1	560,3	585,7	604,8	623,8	19,1	76,2	711,2	711,2
K1720.0762	12,7	235	-	501,7	660,4	717,6	736,6	127	190,5	368,3	-	-	550,9	611,1	636,5	655,6	674,6	19,1	76,2	762	762
K1720.0813	12,7	235	393,7	552,5	711,2	768,4	787,4	127	190,5	368,3	-	-	601,7	661,9	687,3	706,4	725,4	19,1	76,2	812,8	812,8
K1720.0864	12,7	235	419,1	603,3	762	819,2	838,2	127	190,5	368,3	469,9	-	652,5	712,7	738,1	757,2	776,2	19,1	76,2	863,6	863,6
K1720.0914	12,7	235	444,5	654,1	812,8	870	889	127	190,5	368,3	520,7	-	703,3	763,5	788,9	808	827	19,1	76,2	914,4	914,4
K1720.1016	12,7	235	546,1	755,7	914,4	971,6	990,6	127	190,5	368,3	520,7	-	804,9	865,1	890,5	909,6	928,6	19,1	76,2	1016	1016
K1720.1067	12,7	235	546,1	806,5	965,2	1022,4	1041,4	127	190,5	368,3	520,7	-	855,7	915,9	941,3	960,4	979,4	19,1	76,2	1066,8	1066,8
K1720.1118	12,7	235	546,1	857,3	1016	1073,2	1092,2	127	190,5	368,3	520,7	-	906,5	966,7	992,1	1011,2	1030,2	19,1	76,2	1117,6	1117,6
K1720.1220	12,7	235	596,9	958,9	1117,6	1174,8	1193,8	127	190,5	368,3	520,7	825,5	1008,1	1068,3	1093,7	1112,8	1131,8	19,1	76,2	1219,2	1219,2
K1720.1372	12,7	235	596,9	958,9	1270	1327,2	1346,2	127	190,5	368,3	520,7	825,5	1160,5	1220,8	1246,2	1265,2	1284,2	19,1	76,2	1371,6	1371,6
K1720.1524	12,7	235	596,9	958,9	1422,4	1479,6	1498,6	127	190,5	368,3	520,7	825,5	1312,9	1373,1	1398,5	1417,6	1436,6	19,1	76,2	1524	1524

## Telescopic slides, aluminium

for side mounting, full extension, load capacity up to 300 kg



### Material:

Rail aluminium.  
Ball cage stainless steel 1.4301.  
Balls stainless steel 1.4021.

### Version:

Slides bright.  
Ball cages bright.  
Balls bright.

### Sample order:

K1721.0350

### Note for ordering:

Sold in pairs.

### Note:

By telescopic slides with full extension, the travel is roughly equal to the installed length, which ensures greater comfort and accessibility. The dynamic load capacity of the telescopic slides indicates the maximum load rating of a vertically mounted slide pair when the entire extension length is used. The load capacity specified is calculated with a slide spacing of 600 mm and is based on the maximum value with 10,000 cycles.

Not suitable for horizontal mounting.

Re-lubrication with high pressure grease is recommended after 2,000 cycles.

The end plate has been tested with the specified load rating over 10 cycles and a speed of 0.8 m/s. External end plates are also recommended.

### Temperature range:

-20°C to +110°C.

# Telescopic slides, aluminium

for side mounting, full extension, load capacity up to 300 kg

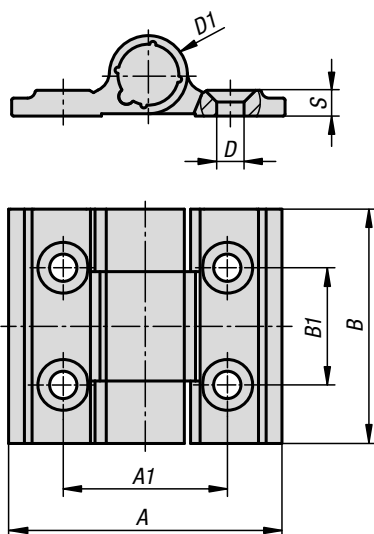
## KIPP Aluminium telescopic slides for side mounting, full extension, load capacity up to 300 kg

Order No.	Assembly	Product type	Loading per pair kg	Packaging type
K1721.0300	side mounting	standard	240	1 piece = 1 pair
K1721.0350	side mounting	standard	255	1 piece = 1 pair
K1721.0400	side mounting	standard	270	1 piece = 1 pair
K1721.0450	side mounting	standard	285	1 piece = 1 pair
K1721.0500	side mounting	standard	300	1 piece = 1 pair
K1721.0550	side mounting	standard	300	1 piece = 1 pair
K1721.0600	side mounting	standard	300	1 piece = 1 pair
K1721.0650	side mounting	standard	295	1 piece = 1 pair
K1721.0700	side mounting	standard	290	1 piece = 1 pair
K1721.0800	side mounting	standard	270	1 piece = 1 pair
K1721.0900	side mounting	standard	250	1 piece = 1 pair
K1721.1000	side mounting	standard	230	1 piece = 1 pair

Order No.	A	A1	A2	A3	A4	A5	B	H	Travel S	L
K1721.0300	7,5	142,5	285	75	125	150	26,5	80	300	300
K1721.0350	7,5	167,5	335	100	150	200	26,5	80	350	350
K1721.0400	7,5	192,5	385	125	175	250	26,5	80	400	400
K1721.0450	7,5	217,5	435	150	200	300	26,5	80	450	450
K1721.0500	7,5	242,5	485	175	225	350	26,5	80	500	500
K1721.0550	7,5	267,5	535	200	250	400	26,5	80	550	550
K1721.0600	7,5	292,5	585	225	275	450	26,5	80	600	600
K1721.0650	7,5	317,5	635	250	300	500	26,5	80	650	650
K1721.0700	7,5	342,5	685	275	325	550	26,5	80	700	700
K1721.0800	7,5	392,5	785	325	375	650	26,5	80	800	800
K1721.0900	7,5	442,5	885	375	425	750	26,5	80	900	900
K1721.1000	7,5	492,5	985	425	475	850	26,5	80	1000	1000

## Spring hinges

aluminium profile, 0.2 Nm



**Material:**

Aluminium 6060 T5.  
Cover plug PA 6.6.

**Version:**

Black anodised.  
Colourless anodised.

**Sample order:**

K1178.353001

**Note:**

These hinges have stainless steel tension springs which enables doors and hatches to open or close automatically.  
Opening angle 270°.

Spring torque opening:

M(0°): 0.23 Nm / M(90°): 0.15 Nm / M(180°): 0.08 Nm

Spring torque closing:

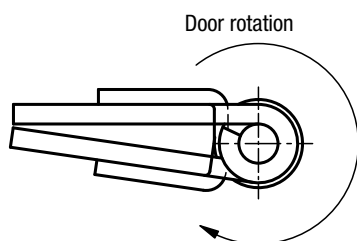
M(0°): 0.08 Nm / M(90°): 0.15 Nm / M(180°): 0.23 Nm

Fastened with DIN 7991 countersunk screws.

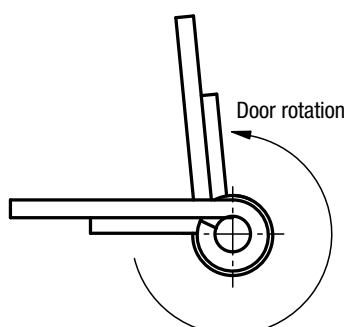
**Temperature range:**

From -20°C to +80°C

Hinges with closing spring



Hinges with opening spring



### KIPP Spring hinges aluminium profile, 0.2 Nm

Order No.	Version 1	Main colour	A	A1	B	B1	D	D1	S
K1178.353001	spring open	black	35	21	30	15	3,5	10	3,3
K1178.35300	spring open	colourless	35	21	30	15	3,5	10	3,5
K1178.353011	spring closed	black	35	21	30	15	3,5	10	3,3
K1178.35301	spring closed	colourless	35	21	30	15	3,5	10	3,5

## Spring hinges

aluminium profile, 0.35 Nm



**Material:**

Aluminium 6060 T5.  
End caps PA 6.6.  
Washers POM.

**Version:**

Black anodised.  
Colourless anodised.

**Sample order:**

K1179.556701

**Note:**

The hinges are equipped with an integrated steel tension spring. This allows automatic opening and closing of doors and hatches.  
Opening angle 180°.

Opening spring torque:

M(0°) : 0.35 Nm / M(90°) : 0.24 Nm / M(180°) : 0.12 Nm

Closing spring torque:

M(0°) : 0.12 Nm / M(90°) : 0.24 Nm / M(180°) : 0.35 Nm

These hinges are designed for more than 30,000 switching cycles.

Fastening with socket head screws as described in DIN 912/ DIN EN ISO 4762.

The loading values given for the hinges are non-binding reference values, which do not consider safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties.

These load values were determined under laboratory conditions. Each user must determine individually whether the hinge is suitable for the respective application.

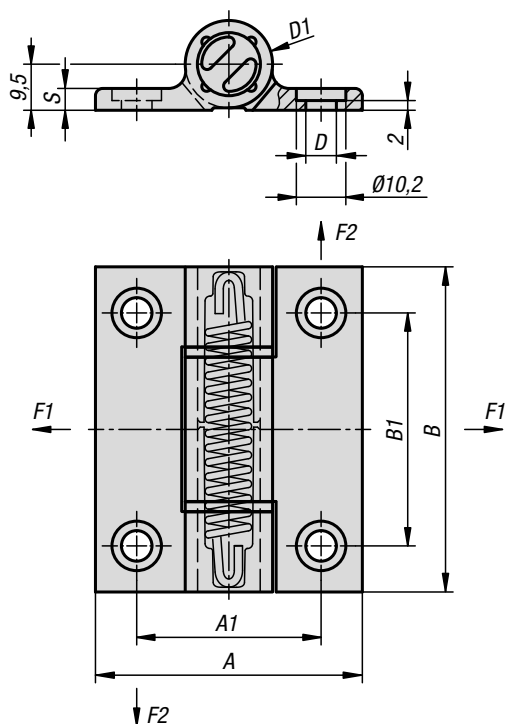
Wide differences in the materials on which the hinges are installed, the type of mounting, weather conditions and wear, can influence the determined values.

**Temperature range:**

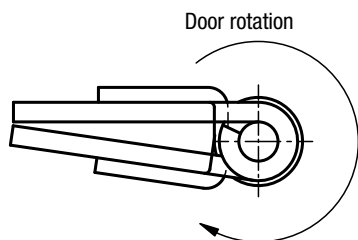
From -20°C to +80°C

**Accessories:**

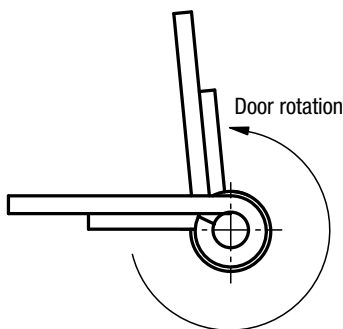
Socket head screws with hexagon socket DIN 912/EN ISO 4762.



Hinges with closing spring



Hinges with opening spring

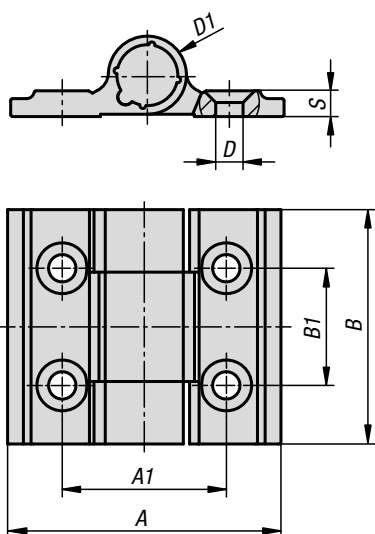


### KIPP Spring hinges aluminium profile, 0.35 Nm

Order No.	Version 1	Main colour	Surface finish body	A	A1	B	B1	D	D1	S	F1 max. kN	F2 max. kN
K1179.556701	spring open	black	anodized	55	38	67	48	6,3	18	4,5	2,65	2,25
K1179.55670	spring open	colourless	anodized	55	38	67	48	6,3	18	4,5	2,65	2,25
K1179.556711	spring closed	black	anodized	55	38	67	48	6,3	18	4,5	2,65	2,25
K1179.55671	spring closed	colourless	anodized	55	38	67	48	6,3	18	4,5	2,65	2,25

## Spring hinges

aluminium profile, 0.50 Nm



**Material:**

Aluminium 6060 T5.  
End caps PA 6.6.  
Washers POM.

**Version:**

Black anodised.  
Colourless anodised.

**Sample order:**

K1665.35600

**Note:**

These hinges have stainless steel tension springs which enables doors and hatches to open or close automatically.  
Opening angle 270°.

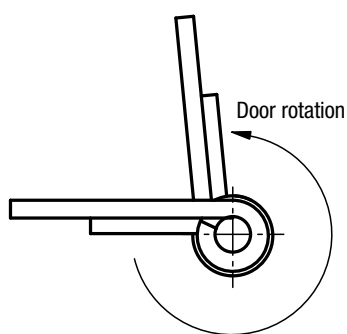
**Spring torque opening:**

M(0°): 0.48 Nm / M(90°): 0.3 Nm / M(180°): 0.16 Nm

Fastened with DIN 7991 countersunk screws.

**Temperature range:**

From -20°C to +80°C



Hinges with opening spring

### KIPP Spring hinges aluminium profile, 0.50 Nm

Order No.	Version 1	Main colour	A	A1	B	B1	D	D1	S
K1665.354001	spring open	black	35	21	60	30	3,5	10	3,3
K1665.35400	spring open	colourless	35	21	60	30	3,5	10	3,3



## Spring hinges

aluminium profile, 0.7 Nm



**Material:**  
Aluminium 6060 T5.  
End caps PA 6.6.  
Washers POM.

**Version:**  
Black anodised.  
Colourless anodised.

**Sample order:**  
K1180.556701

**Note:**  
The hinges are equipped with an integrated steel tension spring. This allows automatic opening and closing of doors and hatches.  
Opening angle 180°.

Opening spring torque:  
 $M(0^\circ) : 0.7 \text{ Nm} / M(90^\circ) : 0.45 \text{ Nm} / M(180^\circ) : 0.23 \text{ Nm}$   
Closing spring torque:  
 $M(0^\circ) : 0.23 \text{ Nm} / M(90^\circ) : 0.45 \text{ Nm} / M(180^\circ) : 0.7 \text{ Nm}$

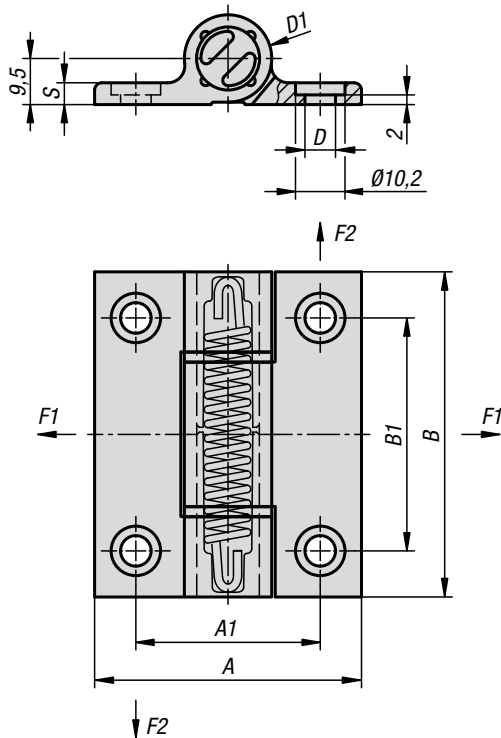
These hinges are designed for more than 30,000 switching cycles.

Fastening with socket head screws as described in DIN 912/ DIN EN ISO 4762.

The loading values given for the hinges are non-binding reference values, which do not consider safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties. These load values were determined under laboratory conditions. Each user must determine individually whether the hinge is suitable for the respective application. Wide differences in the materials on which the hinges are installed, the type of mounting, weather conditions and wear, can influence the determined values.

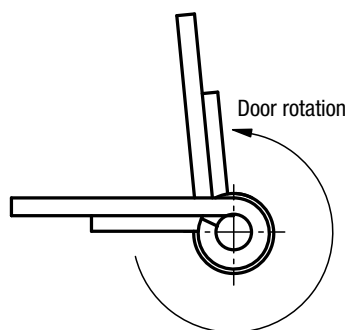
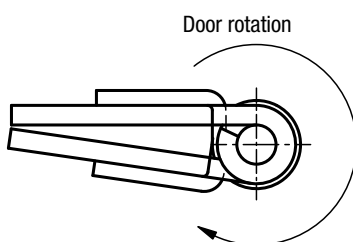
**Temperature range:**  
From -20°C to +80°C

**Accessories:**  
Socket head screws with hexagon socket DIN 912/EN ISO 4762.



Hinges with closing spring

Hinges with opening spring

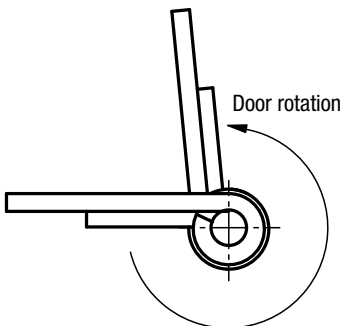
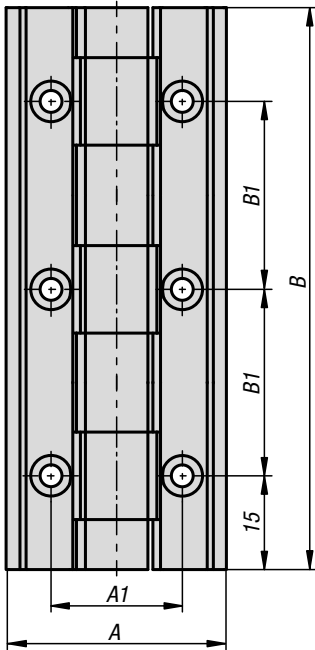
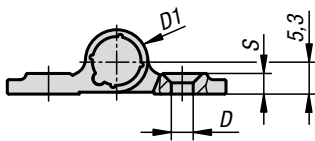


### KIPP Spring hinges aluminium profile, 0.7 Nm

Order No.	Version 1	Main colour	A	A1	B	B1	D	D1	S	F1 max. kN	F2 max. kN
K1180.556701	spring open	black	55	38	67	48	6,3	18	4,5	2,65	2,25
K1180.55670	spring open	colourless	55	38	67	48	6,3	18	4,5	2,65	2,25
K1180.556711	spring closed	black	55	38	67	48	6,3	18	4,5	2,65	2,25
K1180.55671	spring closed	colourless	55	38	67	48	6,3	18	4,5	2,65	2,25

## Spring hinges

aluminium profile, 0.7 Nm, long version



Hinges with opening spring

**Material:**

Aluminium 6060 T5.  
Cover plug PA 6.6.

**Version:**

Black anodised.  
Colourless anodised.

**Sample order:**

K1666.359001

**Note:**

These hinges have stainless steel tension springs which enables doors and hatches to open or close automatically.  
Opening angle 270°.

**Spring torque opening:**

M(0°): 0.7 Nm / M(90°): 0.5 Nm / M(180°): 0.3 Nm

Fastened with DIN 7991 countersunk screws.

**Temperature range:**

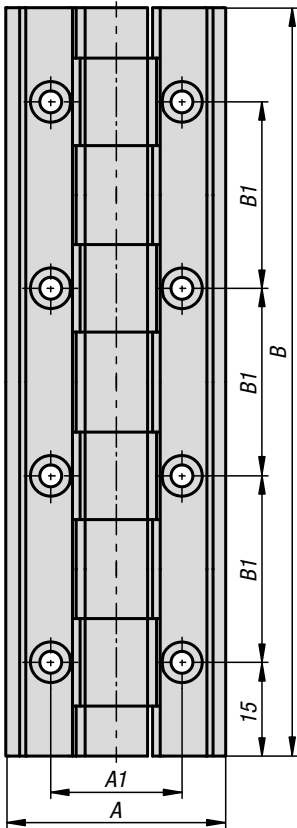
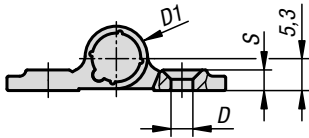
From -20°C to +80°C

### KIPP Spring hinges aluminium profile, 0.7 Nm, long version

Order No.	Version 1	Main colour	A	A1	B	B1	D	D1	S
K1666.359001	spring open	black	35	21	90	30	3,5	10	3,3
K1666.35900	spring open	colourless	35	21	90	30	3,5	10	3,3

# Spring hinges

aluminium profile, 0.9 Nm, long version



**Material:**

Aluminium 6060 T5.  
Cover plug PA 6.6.

**Version:**

Black anodised.  
Colourless anodised.

**Sample order:**

K1667.3512001

**Note:**

These hinges have stainless steel tension springs which enables doors and hatches to open or close automatically.  
Opening angle 270°.

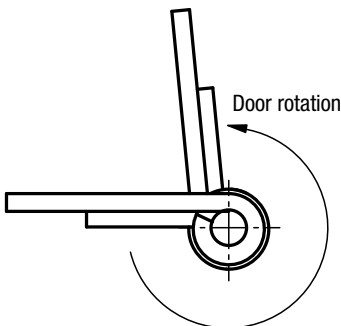
**Spring torque opening:**

M(0°): 0.92 Nm / M(90°): 0.7 Nm / M(180°): 0.44 Nm

Fastened with DIN 7991 countersunk screws.

**Temperature range:**

From -20°C to +80°C



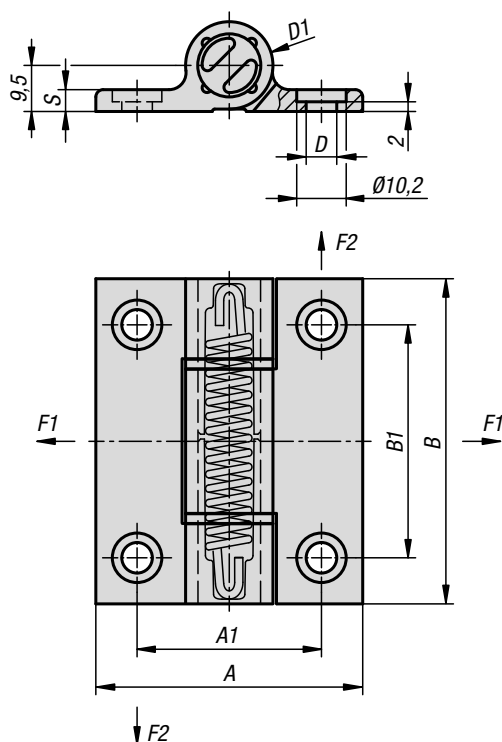
Hinges with opening spring

## KIPP Spring hinges aluminium profile, 0.9 Nm, long version

Order No.	Version 1	Main colour	A	A1	B	B1	D	D1	S
K1667.3512001	spring open	black	35	21	120	30	3,5	10	3,3
K1667.351200	spring open	colourless	35	21	120	30	3,5	10	3,3

## Spring hinges

aluminium profile, 1.3 Nm



**Accessories:**

Socket head screws with hexagon socket  
DIN 912/EN ISO 4762.

**Material:**

Aluminium 6060 T5.  
End caps PA 6.6.  
Washers POM.

**Version:**

Black anodised.  
Colourless anodised.

**Sample order:**

K1181.556701

**Note:**

The hinges are equipped with an integrated steel tension spring. This allows automatic opening and closing of doors and hatches.  
Opening angle 180°.

Opening spring torque:

$M(0^\circ) : 1.3 \text{ Nm} / M(90^\circ) : 1.1 \text{ Nm} / M(180^\circ) : 0.9 \text{ Nm}$

Closing spring torque:

$M(0^\circ) : 0.5 \text{ Nm} / M(90^\circ) : 0.7 \text{ Nm} / M(180^\circ) : 1 \text{ Nm}$

These hinges are designed for more than 10,000 switching cycles.

Fastening with socket head screws as described in DIN 912/ DIN EN ISO 4762.

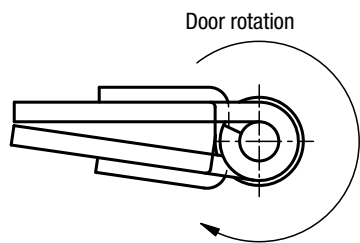
The loading values given for the hinges are non-binding reference values, which do not consider safety factors and exclude any liability. The values given are for information purposes only and do not constitute a legally binding assurance of properties. These load values were determined under laboratory conditions. Each user must determine individually whether the hinge is suitable for the respective application.

Wide differences in the materials on which the hinges are installed, the type of mounting, weather conditions and wear, can influence the determined values.

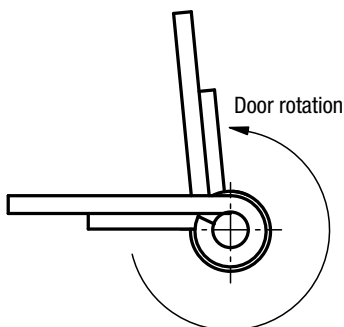
**Temperature range:**

From -20°C to +80°C

Hinges with closing spring



Hinges with opening spring

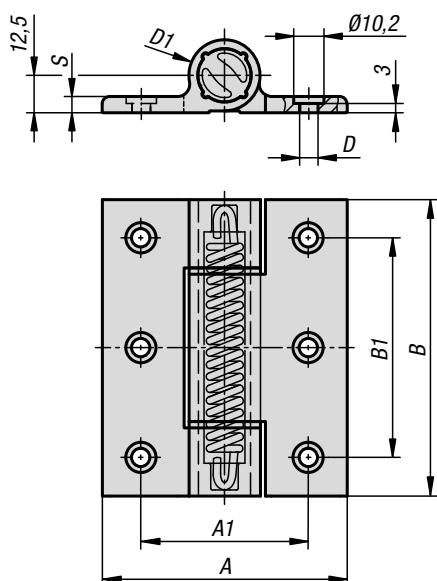


### KIPP Spring hinges aluminium profile, 1.3 Nm

Order No.	Version 1	Main colour	A	A1	B	B1	D	D1	S	F1 max. kN	F2 max. kN
K1181.556701	spring open	black	55	38	67	48	6,3	18	4,5	2,65	2,25
K1181.55670	spring open	colourless	55	38	67	48	6,3	18	4,5	2,65	2,25
K1181.556711	spring closed	black	55	38	67	48	6,3	18	4,5	2,65	2,25
K1181.55671	spring closed	colourless	55	38	67	48	6,3	18	4,5	2,65	2,25

## Spring hinges

aluminium profile, 3.8 Nm



**Material:**

Aluminium 6060 T5.  
End caps PA 6.6.  
Washers POM.

**Version:**

Black anodised.  
Colourless anodised.

**Sample order:**

K1182.8210001

**Note:**

These hinges have steel tension springs which enables doors and hatches to open or close automatically. Opening angle 270°.

**Spring torque opening:**

M(0°): 3.80 Nm / M(90°): 3.10 Nm / M(180°): 2.40 Nm

**Spring torque closing:**

M(0°): 2.20 Nm / M(90°): 2.90 Nm / M(180°): 3.50 Nm

Fastened using DIN 912/EN ISO 4762 socket head screws.

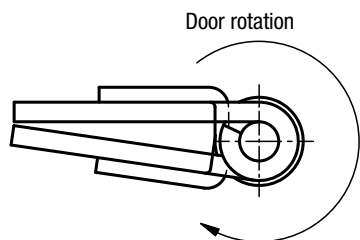
**Temperature range:**

From -20°C to +80°C

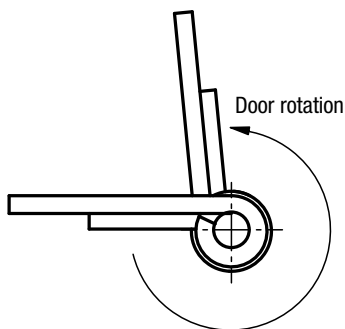
**Accessories:**

Socket head screws with hexagon socket DIN 912/EN ISO 4762.

Hinges with closing spring



Hinges with opening spring

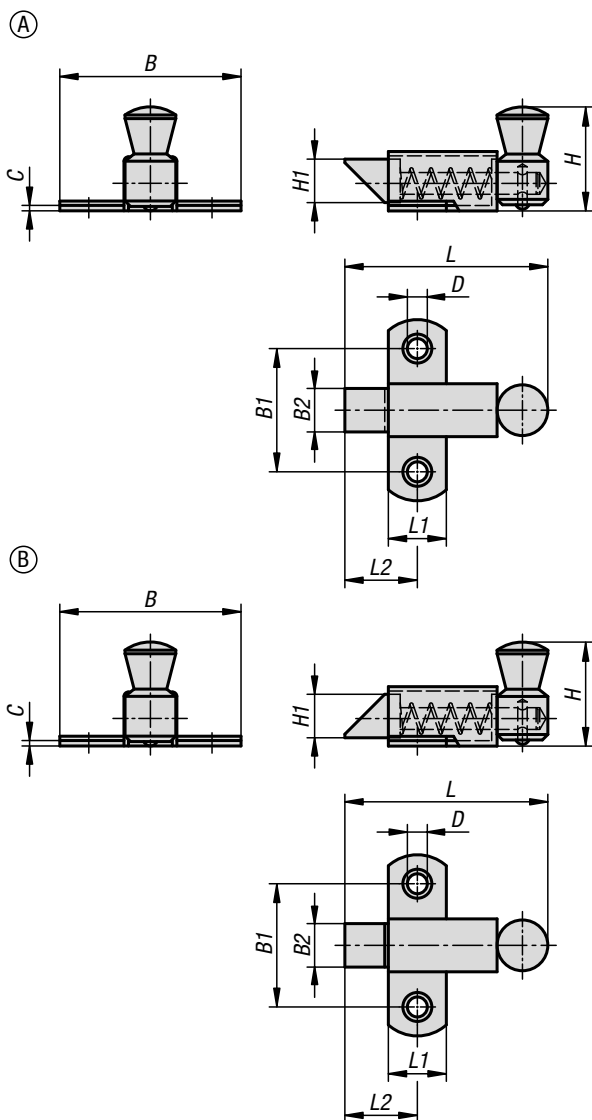


### KIPP Spring hinges aluminium profile, 3.8 Nm

Order No.	Version 1	Main colour	A	A1	B	B1	D	D1	S
K1182.8210001	spring open	black	82,5	56,5	100	74	6,2	24	5,5
K1182.821000	spring open	colourless	82,5	56,5	100	74	6,2	24	5,5
K1182.8210011	spring closed	black	82,5	56,5	100	74	6,2	24	5,5
K1182.821001	spring closed	colourless	82,5	56,5	100	74	6,2	24	5,5

## Lock grip with return spring steel or brass,

lock grip upward or downward



**Material:**

Steel or brass.

**Version:**

Steel zinc-plated.

Brass chromed.

**Sample order:**

K1668.056500

**Note:**

Lock grips with return spring can be easily screwed onto doors, hatches and hoods. These lock grips are available in two different variants: bevelled upward or bevelled downward. The bevelled surface allows the application to be closed or opened without actuating the lock grip. The integrated return spring always brings the lock grip back to its original position.

**Method of operation:**

When the lever is pushed, the lock grip moves into the open position and the door can be opened. When the door is pushed to, it is locked automatically by the bevel.

**Accessories:**

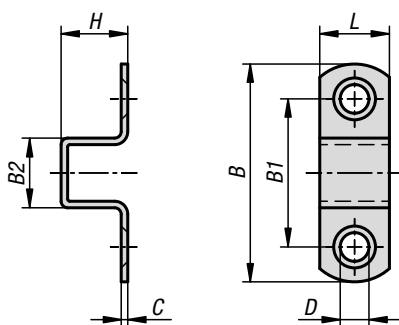
Locking plate steel or brass K1669.

### KIPP Lock grip with return spring steel or brass

Order No. steel	Order No. brass	Form	Form-Type	B	B1	B2	C	D	H	H1	L	L1	L2
K1668.036350	K1668.036351	A	Lock grip upward	35	23	8	1,2	3,5	19	8	36,5	11	13,5
K1668.056500	K1668.056501	A	Lock grip upward	50	34	12	1,5	4,8	29,5	12	56	16	19
K1668.073700	K1668.073701	A	Lock grip upward	70	45	16	2	7	38	16	73	22	28
K1668.136350	K1668.136351	B	Lock grip downward	35	23	8	1,2	3,5	19	8	36,5	11	13,5
K1668.156500	K1668.156501	B	Lock grip downward	50	34	12	1,5	4,8	29,5	12	56	16	19
K1668.173700	K1668.173701	B	Lock grip downward	70	45	16	2	7	38	16	73	22	28

## Locking plate steel or brass,

for lock grip with return spring



**Material:**

Steel or brass.

**Version:**

Steel zinc-plated.

Brass chromed.

**Sample order:**

K1669.16500

**Note:**

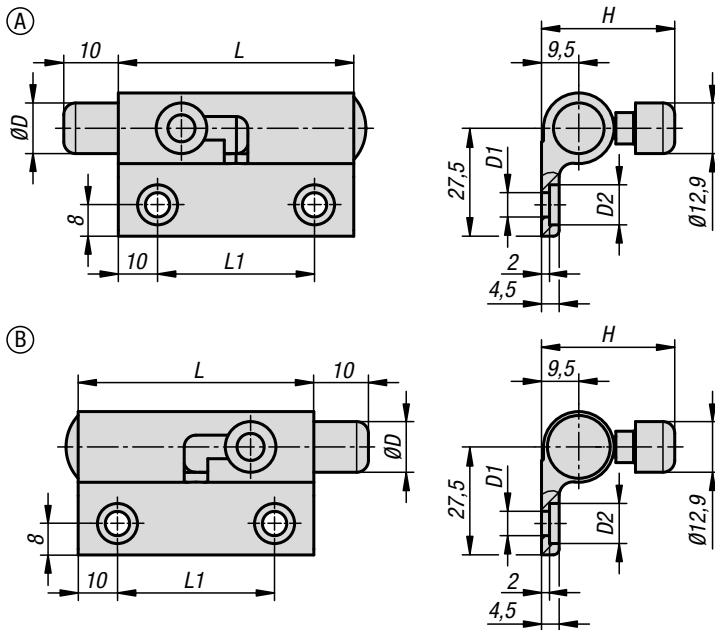
The locking plates can be simply screwed onto the application.

### KIPP Locking plate steel or brass, for lock grip with return spring

Order No. steel	Order No. brass	B	B1	B2	C	D	H	L
K1669.11350	K1669.11351	35	23	11,5	1,2	3,5	11,5	11
K1669.16500	K1669.16501	50	34	16	1,5	4,8	16	16
K1669.22680	K1669.22651	68,5	43,5	21	2	7	21	22

## Lock grip with return spring aluminium,

lock grip to left or right



**Material:**

Lock grip aluminium.  
Spring stainless steel.

**Sample order:**

K1691.04036

**Note:**

Lock grips with return spring can be easily screwed onto doors, hatches and hoods. These lock grips are available in two different variants for left-opening and right-opening doors. The lock grips can be locked in the open position. The integrated return spring always brings the lock grip back to its original position.

**Method of operation:**

When the lever is pushed, the lock grip moves into the open position and the door can be opened. If the lock grip is not locked in open position, it returns automatically to its original position. The door can be closed only if the lever is held in the open position.

**Accessories:**

Locking plate aluminium K1692.

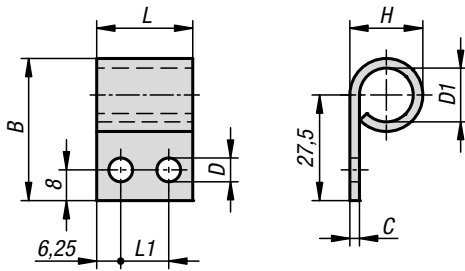
### KIPP Locking plate with return spring aluminium

Order No.	Form	Form-Type	B	D	D1	D2	H	L	L1
K1691.04036	A	left	36,5	12,9	6,2	10,2	34	60	40
K1691.14036	B	right	36,5	12,9	6,2	10,2	34	60	40



## Locking plates aluminium

for lock grip with return spring



**Material:**  
Aluminium.

**Sample order:**  
K1692.2537

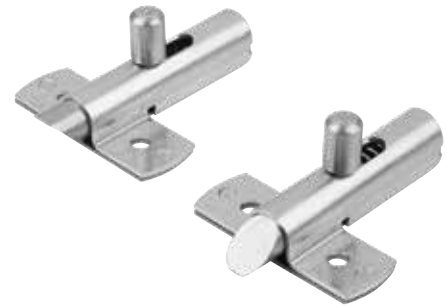
**Note:**  
The locking plates can be simply screwed onto the application.

### KIPP Locking plates aluminium, for lock grip with return spring

Order No.	B	C	D	D1	H	L	L1
K1692.2537	37	2,5	6,2	14	19	25	12,5

## Lock grip with return spring stainless steel,

lock grip upward or downward

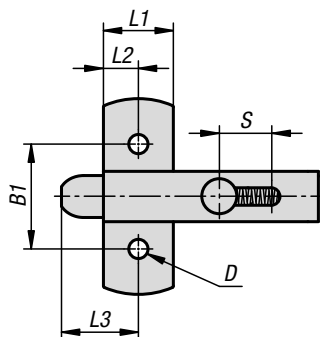
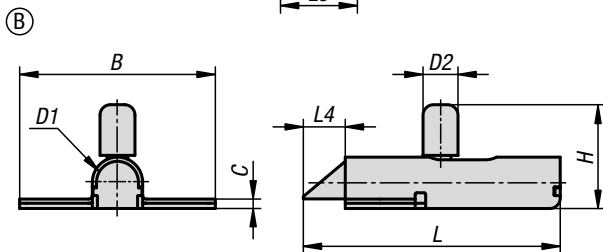
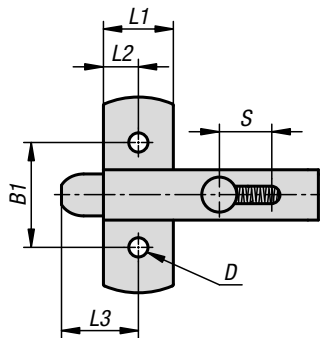
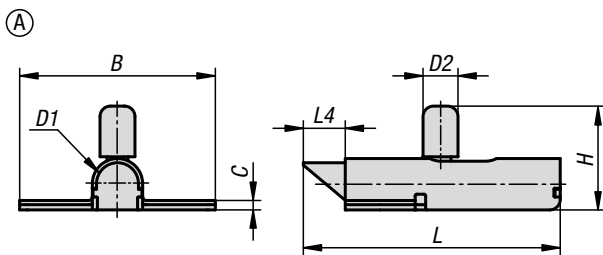


**Material:**  
Stainless steel

**Sample order:**  
K1693.07356

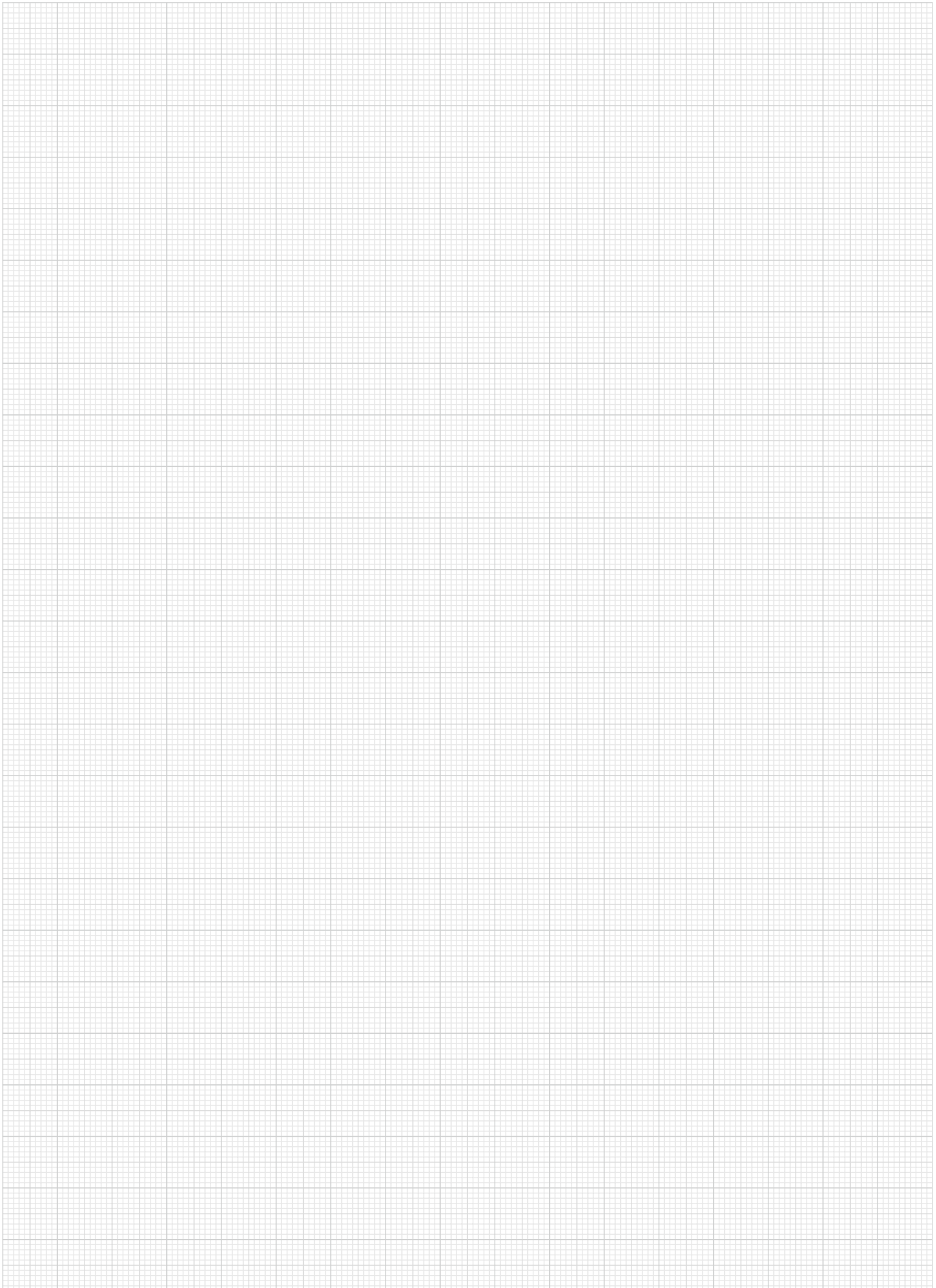
**Note:**  
Lock grips with return spring can be easily screwed onto doors, hatches and hoods. These lock grips are available in two different variants: bevelled upward or bevelled downward. The bevelled surface allows the application to be closed or opened without actuating the lock grip. The integrated return spring always brings the lock grip back to its original position.

**Method of operation:**  
When the lever is pushed, the lock grip moves into the open position and the door can be opened. When the door is pushed to, it is locked automatically by the bevel.



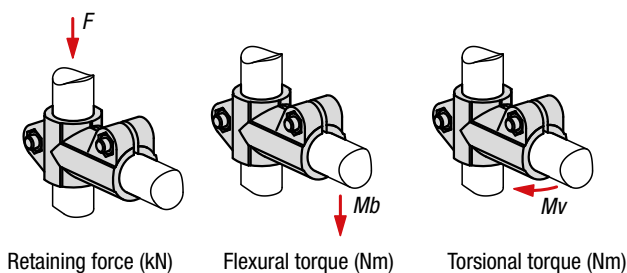
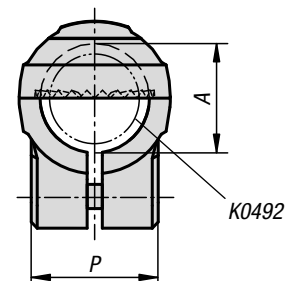
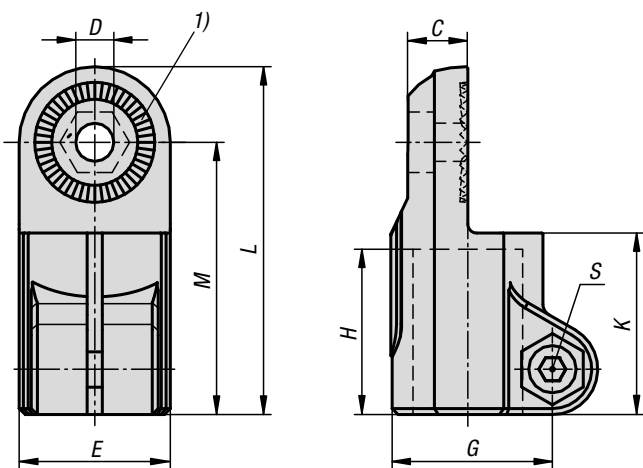
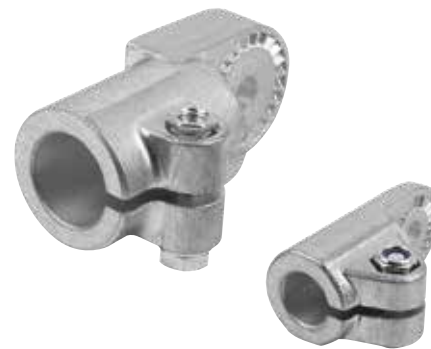
### KIPP Lock grip with return spring stainless steel

Order No.	Form	Form-Type	B	B1	C	D	D1	D2	H	Travel S	L	L1	L2	L3	L4
K1693.07356	A	Lock grip upward	56	30	2,7	5,5	12	10	29,7	13	73,5	20	10	22	12
K1693.17356	B	Lock grip downward	56	30	2,7	5,5	12	10	29,7	13	73,5	20	10	22	12



## Tube clamps, swivel half

aluminium, with sunken teeth



**Material:**  
Cast aluminium.  
Screws and nuts steel.

**Version:**  
Vibratory ground.  
Screws and nuts electro zinc-plated.

**Sample order:**  
K0484.516

**Note:**  
Swivel half clamps with sunken teeth can be combined with swivel half clamps with raised teeth (K0485) to make a complete swivel clamp.

Max. torque when tightening the lock screw:  
M6: 10 Nm.  
M8: 25 Nm.  
M10: 50 Nm.

**On request:**  
Clamping levers for tightening.

**Accessories:**  
- Hex nut DIN 985  
- Hex head bolt DIN 933  
- Cap screw DIN 6912

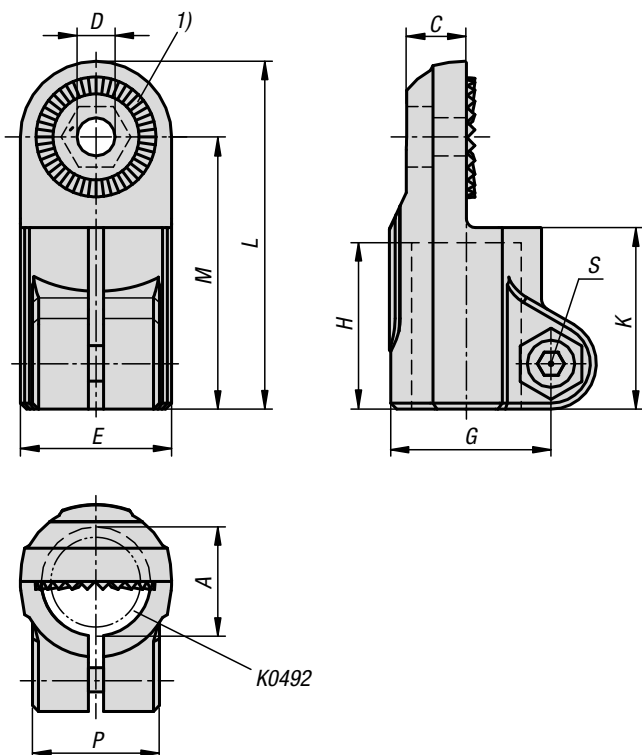
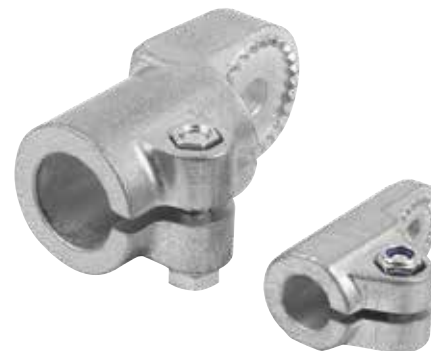
**Drawing reference:**  
1) 15° toothing

### KIPP Tube clamps, swivel half, aluminium, with sunken teeth

Order No.	A	C	D	E	G	H	K	L	M	P	S	F kN	Mb (Nm)	Mv (Nm)
K0484.512	12,1	10,5	7,5	26	29,4	25	30	57	44	21	M6	3,6	28	9
K0484.514	14,1	10,5	7,5	26	29,4	25	30	57	44	21	M6	3,6	28	9
K0484.516	16,1	10,5	7,5	26	29,4	25	30	57	44	21	M6	3,6	28	9
K0484.518	18,1	10,5	7,5	26	29,4	25	30	57	44	21	M6	3,6	28	9
K0484.520	20	16	9	40	40	45	50	93	73	33	M8	4,9	91	94
K0484.525	25,1	16	9	40	40	45	50	93	73	33	M8	4,9	91	94
K0484.530	30,1	16	9	40	40	45	50	93	73	33	M8	4,9	91	94
K0484.540	40,2	22	11	56	56	60	68	128	100	48	M10	6	267	181

## Tube clamps swivel half

aluminium, with raised teeth



**Material:**  
Cast aluminium.  
Screws and nuts steel.

**Version:**  
Vibratory ground.  
Screws and nuts electro zinc-plated.

**Sample order:**  
K0485.516

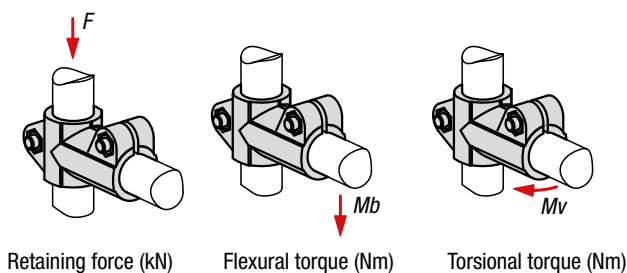
**Note:**  
Swivel half clamps with raised teeth can be combined with swivel half clamps with sunken teeth (K0484, K0486 or K0487) to make a complete swivel clamp.

Max. torque when tightening the lock screw:  
M6: 10 Nm.  
M8: 25 Nm.  
M10: 50 Nm.

**On request:**  
Clamping levers for tightening.

**Accessories:**  
- Hex nut DIN 985  
- Hex head bolt DIN 933  
- Cap screw DIN 6912

**Drawing reference:**  
1) 15° toothing

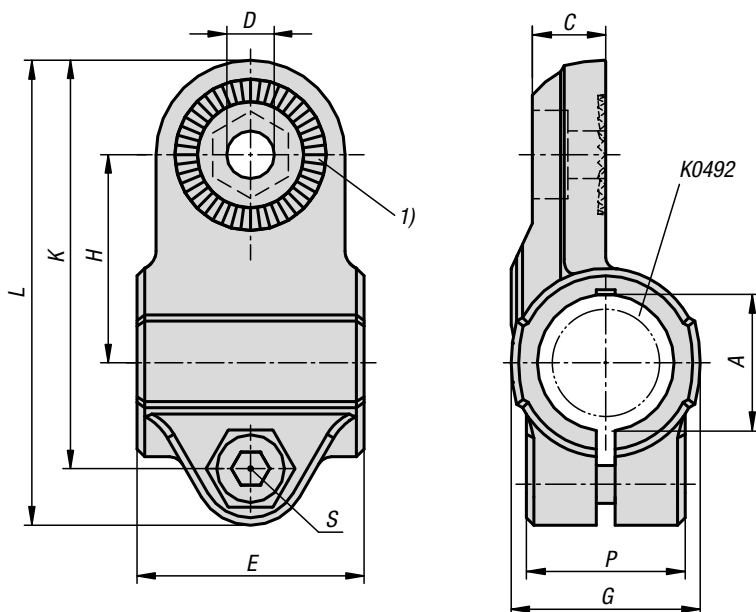


### KIPP Tube clamps swivel half, aluminium, with raised teeth

Order No.	A	C	D	E	G	H	K	L	M	P	S	F kN	Mb (Nm)	Mv (Nm)
K0485.512	12,1	10,5	7,5	26	29,4	25	30	57	44	21	M6	3,6	28	9
K0485.514	14,1	10,5	7,5	26	29,4	25	30	57	44	21	M6	3,6	28	9
K0485.516	16,1	10,5	7,5	26	29,4	25	30	57	44	21	M6	3,6	28	9
K0485.518	18,1	10,5	7,5	26	29,4	25	30	57	44	21	M6	3,6	28	9
K0485.520	20	16	9	40	40	45	50	93	73	33	M8	4,9	91	94
K0485.525	25,1	16	9	40	40	45	50	93	73	33	M8	4,9	91	94
K0485.530	30,1	16	9	40	40	45	50	93	73	33	M8	4,9	91	94
K0485.540	40,2	22	11	56	56	60	68	128	100	48	M10	6	267	181

## Tube clamps, swivel half

aluminium, with sunken teeth



**Material:**  
Cast aluminium.  
Screws and nuts steel.

**Version:**  
Vibratory ground.  
Screws and nuts electro zinc-plated.

**Sample order:**  
K0486.516

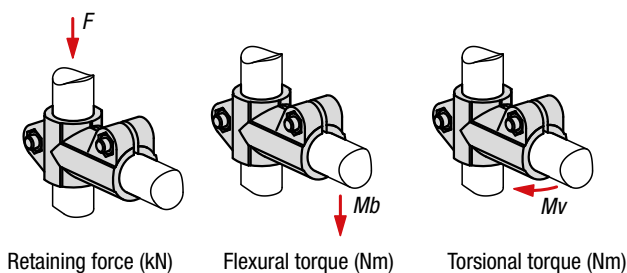
**Note:**  
Swivel half clamps with sunken teeth can be combined with swivel half clamps with raised teeth (K0485) to make a complete swivel clamp.

Max. torque when tightening the lockscrew:  
M6: 10 Nm.  
M8: 25 Nm.  
M10: 50 Nm.

**On request:**  
Clamping levers for tightening.

**Accessories:**  
- Hex nut DIN 985  
- Hex head bolt DIN 933  
- Cap screw DIN 6912

**Drawing reference:**  
1) 15° toothing

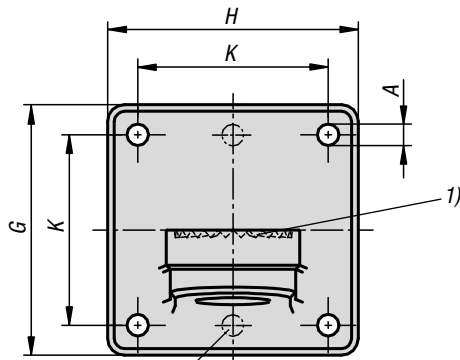
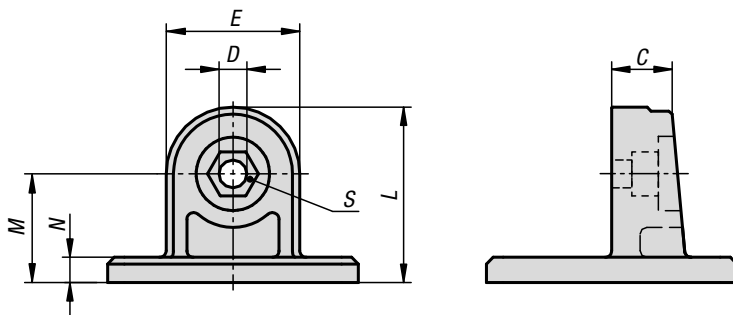


### KIPP Tube clamps, swivel half, aluminium, with sunken teeth

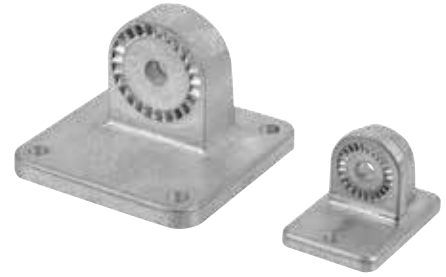
Order No.	A	C	D	E	G	H	K	L	P	S	F kN	Mb (Nm)	Mv (Nm)
K0486.512	12,1	10,5	7,5	30	26	27	56	64,5	21	M6	2,7	38	15
K0486.514	14,1	10,5	7,5	30	26	27	56	64,5	21	M6	2,7	38	15
K0486.516	16,1	10,5	7,5	30	26	27	56	64,5	21	M6	2,7	38	15
K0486.518	18,1	10,5	7,5	30	26	27	56	64,5	21	M6	2,7	38	15
K0486.520	20	16	9	40	40	43	85	93	33	M8	6	133	85
K0486.525	25,1	16	9	40	40	43	85	93	33	M8	6	133	85
K0486.530	30,1	16	9	40	40	43	85	93	33	M8	6	133	85
K0486.540	40,2	22	11	56	56	60	116	128	48	M10	5,8	264	138

## Tube clamps swivel base

aluminium, with sunken teeth



2 middle flange holes by K0487.518



**Material:**

Cast aluminium.  
Screws and nuts steel.

**Version:**

Vibratory ground.  
Screws and nuts electro zinc-plated.

**Sample order:**

K0487.518

**Note:**

Swivel half clamps with sunken teeth can be combined with swivel half clamps with raised teeth (K0485) to make a complete swivel clamp.

Max. torque when tightening the lock screw:

M6: 10 Nm.  
M8: 25 Nm.  
M10: 50 Nm.

**On request:**

Clamping levers for tightening.

**Accessories:**

- Hex nut DIN 985
- Hex head bolt DIN 933
- Cap screw DIN 6912

**Drawing reference:**

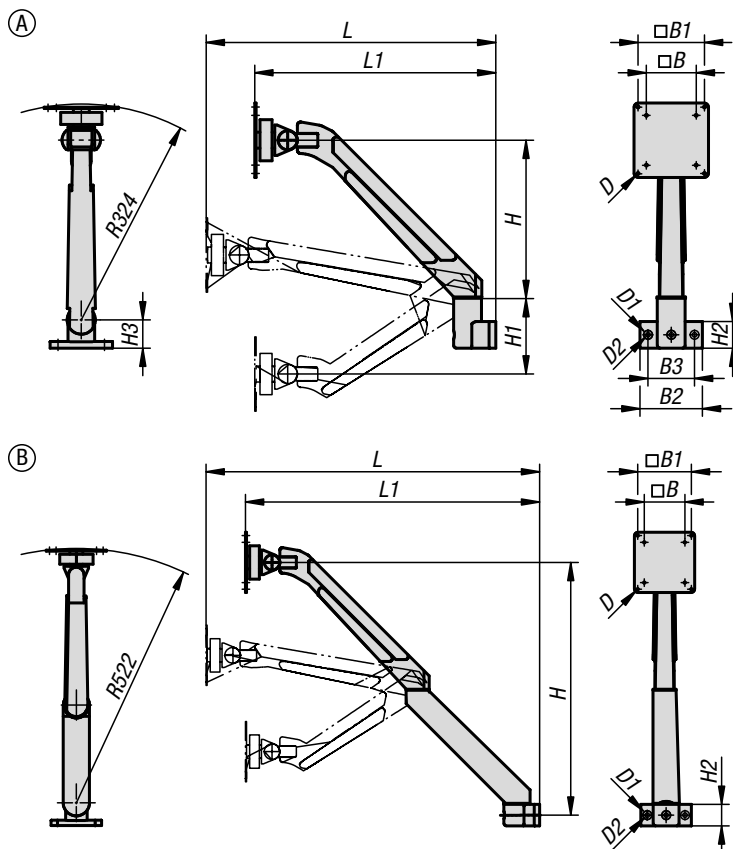
1) 15° toothing

### KIPP Tube clamps swivel base, aluminium, with sunken teeth

Order No.	A	C	D	E	G	H	K	L	M	N	S
K0487.518	5,3 (2x)	13	7	25	50	35	38	32,5	20	5	M6
K0487.530	6,5 (4x)	16	9	40	75	75	57	52,5	33	7,5	M8
K0487.540	8,5 (4x)	22	11	56	100	100	76	72	44	10	M10

# Monitor bracket, aluminium, height adjustable

4 or 5 axis



### Material:

Mounting plate steel/plastic.  
 Monitor bracket aluminium.  
 Bearing washers and sleeves plastic.  
 Mounting flange aluminium.  
 Mounting adapter aluminium.  
 Screws steel.

### Version:

Mounting plate painted.  
 Monitor bracket painted.  
 Mounting flange painted.  
 Mounting adapter painted.  
 Screws electro zinc-plated.

### Sample order:

K1792.4360

### Note:

Screens weighing up to 10 kg can be attached to the monitor brackets and removed again as required without any effort. Furthermore, the height and the viewing angle of the monitor bracket arm can be adjusted. The mounted monitor can be rotated through 90°. The mounting plates of the monitor brackets are compatible with the VESA 75/100 standard.

### Application:

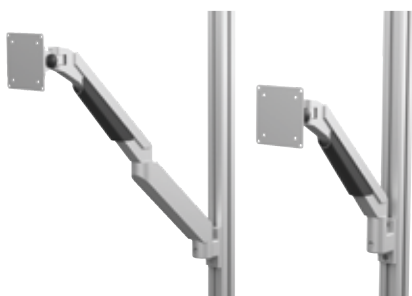
With the help of the hex key, the force that has to be applied to adjust the various axis can be increased or decreased.

### Supplied with:

4 axis monitor bracket:  
 1x VESA mounting plate including 4x M4x12 Phillips head screws.  
 1x 4 axis monitor bracket including covered cable guide.  
 1x DIN 6912 M8x25 assembly screw.  
 1x mounting adapter.  
 2x DIN 6912 M8x16 assembly screws.  
 1x 3mm hex key.  
 1x 4mm hex key.

### 5 axis monitor bracket:

1x VESA mounting plate including 4x M4x12 Phillips head screws.  
 1x 5 axis monitor bracket including covered cable guide.  
 1x DIN 6912 M8x25 assembly screw.  
 1x mounting adapter.  
 2x DIN 6912 M8x16 assembly screws.  
 1x 3mm hex key.  
 1x 4mm hex key.





# Monitor bracket, aluminium, height adjustable

4 or 5 axis



## KIPP Monitor bracket, aluminium, height adjustable, 4 axis

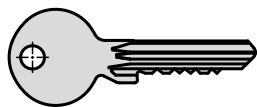
Order No.	Form	Form-Type	B	B1	B2	B3	D	D1	D2	H	H1	H2	H3	L	L1
K1792.4360	A	4 axis	75	100	94	70	5,3	13,8	9	236	114	40	43	436	361

## KIPP Monitor bracket, aluminium, height adjustable, 5 axis

Order No.	Form	Form-Type	B	B1	B2	B3	D	D1	D2	H	H2	L	L1
K1792.6341	B	5 axis	75	100	94	70	5,3	13,8	9	464	40	634	560

# Keys

for quarter-turn locks



**Material:**  
Steel.

**Version:**  
nickel-plated.

**Sample order:**  
K1511.1333

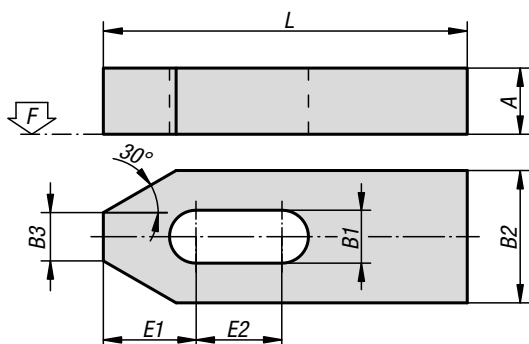
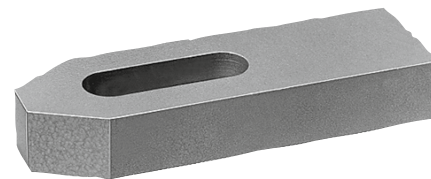
**Note:**  
Key for actuating the quarter-turn lock.  
Supplied in pairs.

## KIPP Quarter turn lock keys

Order No.	Version 1
K1511.1333	lock 1333

## Clamp straps

DIN 6314 straight, steel or aluminium

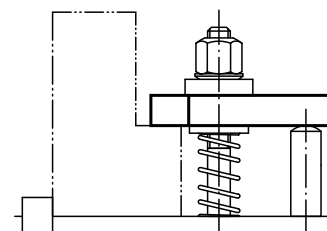


**Material:**  
Carbon steel or EN AW-7022.

**Version:**  
Steel painted.  
Aluminium bright.

**Sample order:**  
K1516.16

**Note:**  
When using spherical washers use the wide series K0729 Form G.



### KIPP Clamp straps DIN 6314 straight, steel or aluminium

Order No. high carbon steel	Order No. aluminium	L	A	B1	B2	B3	E1	E2	F kN	for screw
K1516.06	K1516.206	50	10	7	20	8	13,5	13	4,82	M6
K1516.08	K1516.208	60	12	9	25	10	14,5	13	8,77	M8
K1516.10	K1516.210	80	15	11	30	12	20,5	19	13,9	M10
K1516.12	K1516.212	100	20	14	40	14	28	26	20,2	M12/M14
K1516.14	K1516.214	125	20	14	40	14	28	36	20,2	M12/M14
K1516.16	K1516.216	125	25	18	50	18	35	27	37,8	M16/M18
K1516.18	K1516.218	160	25	18	50	18	35	47	37,8	M16/M18
K1516.20	K1516.220	160	30	22	60	22	41	38	58,8	M20/M22
K1516.201	K1516.2201	200	30	22	60	22	41	58	58,8	M20/M22
K1516.24	K1516.224	200	30	26	70	26	48	54	84,7	M24
K1516.241	K1516.2241	250	35	26	70	26	48	79	84,7	M24
K1516.30	K1516.230	250	40	34	80	34	62	66	135	M30/M32
K1516.301	K1516.2301	315	50	34	80	34	62	96	135	M30/M32

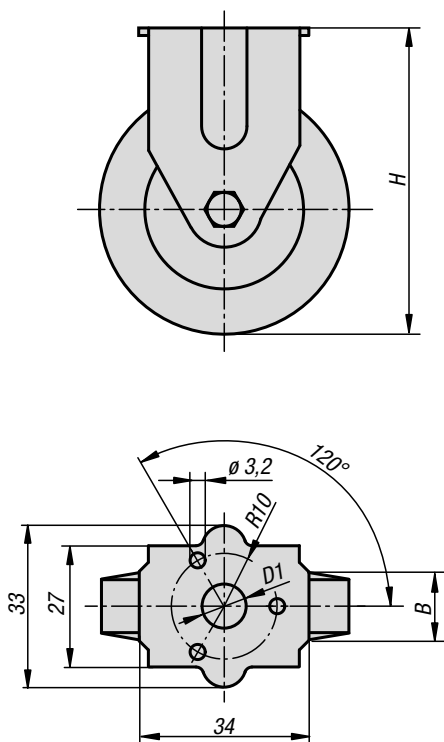
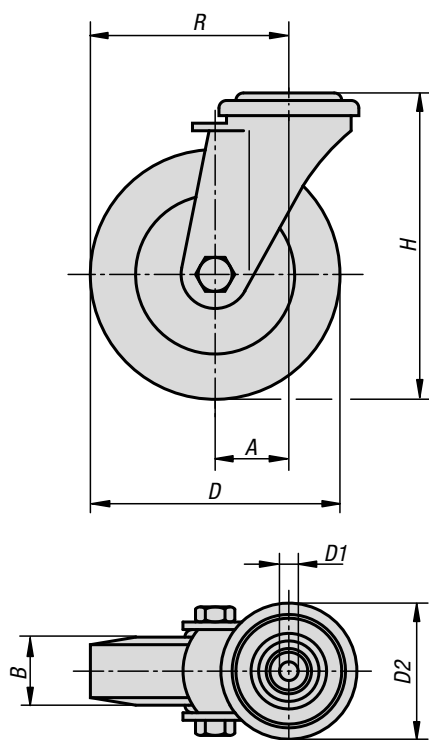
## Swivel and fixed castors

standard version



swivel castor

fixed castor



**Material:**

Housing steel plate.  
Wheel treads solid rubber.  
Wheel rims polyamide.

**Version:**

Housing press formed.  
Double ball bearing in the castor head.  
Plain bearing in wheels.

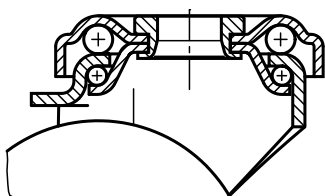
**Sample order:**

K1759.07525

**Note:**

Wheel axle bolted.  
Swivel and fixed castors with bolt hole.  
Wheels grey, non-marking.

swivel head bearing



### KIPP Swivel and fixed castors standard version

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	D	D1	D2	H	R	Permissible load kg
K1759.050181	K1759.05018	K1759.050182	plain bearing	-/25/25	18	50	11	-/43/43	69	-/50/50	40
K1759.075251	K1759.07525	K1759.075252	plain bearing	-/28/28	25	75	11	-/43/43	98	-/65,5/65,5	60
-	K1759.10025	K1759.100252	plain bearing	33/33	25	100	11	43/43	121	83/83	70

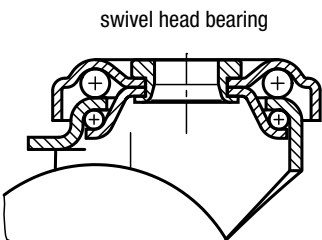
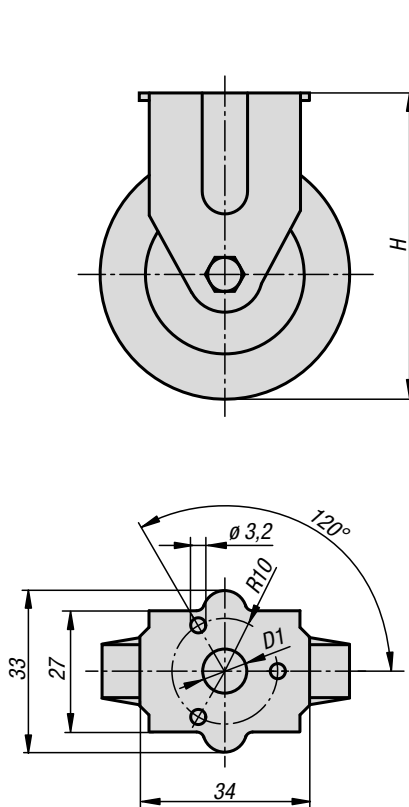
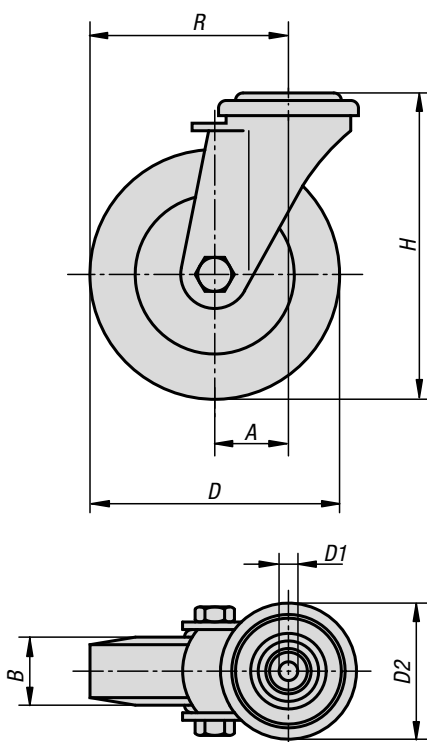
## Swivel and fixed castors

electrically conductive, standard version



swivel castor

fixed castor



swivel head bearing

**Material:**

Housing steel plate.  
Wheels with thermoplastic rubber tread.  
Wheel body polypropylene.

**Version:**

Housing press formed.  
Double ball bearing in the castor head.  
Plain bearing in wheels.

**Sample order:**

K1759.1105019

**Note:**

Wheel axle threaded. Swivel and fixed castors with bolt hole. Electrically conductive wheels, non-marking grey. The ohmic resistance of the wheel is less than  $10^4 \Omega$ .

**Application:**

Electrically conductive wheels on swivel and fixed castors are used to protect against electrostatic discharge generated by transport equipment or the transported goods. Damage to sensitive goods and painful electrostatic shocks to the personal is so prevented.

**Temperature range:**

-20 °C to +60 °C.



**KIPP Swivel and fixed castors standard version Swivel and fixed castors electrically conductive, standard version**

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	D	D1	D2	H	R	Permissible load kg
K1759.11050191	K1759.1105019	K1759.11050192	plain bearing	-/25/25	19	50	11	-/43/43	69	-/50/50	30
K1759.11075251	K1759.1107525	K1759.11075252	plain bearing	-/29/29	25	75	11	-/43/43	98	-/66,5/66,5	50
-	K1759.1110025	K1759.11100252	plain bearing	33/33	25	100	11	43/43	121	83/83	60

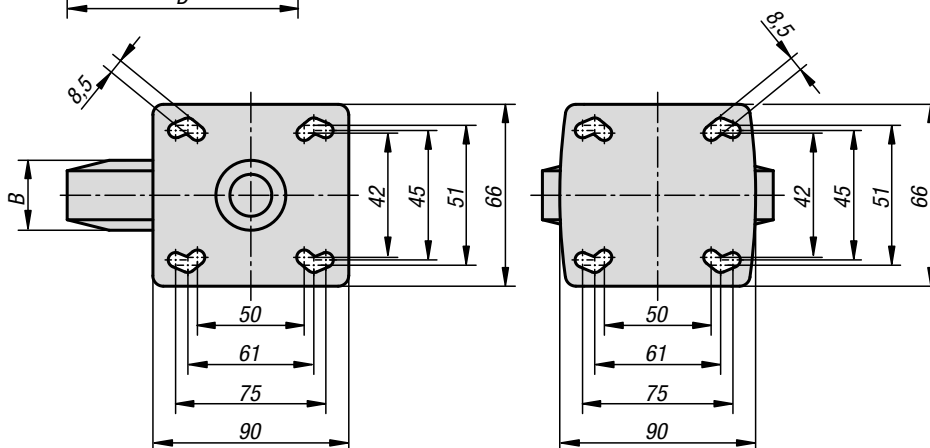
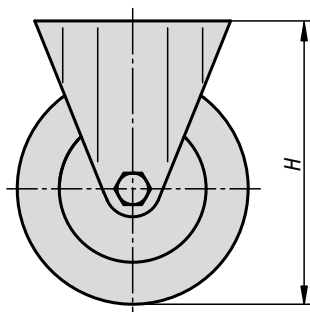
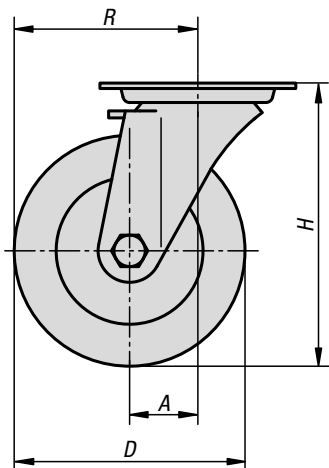
## Swivel and fixed castors

heavy-duty version



swivel castor

fixed castor



**Material:**

Housing steel plate.  
Wheel treads solid rubber.  
Wheel rims polyamide.

**Version:**

Housing press formed.  
Double ball bearing in the castor head.  
Plain bearing in wheels.

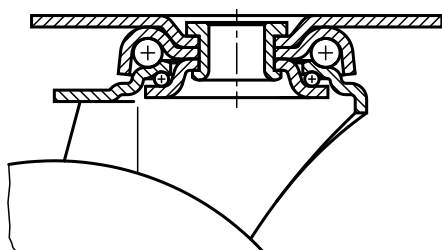
**Sample order:**

K1760.10032

**Note:**

Wheel axle bolted.  
Solid rubber tyres are shock and impact proof and non-corroding.

swivel head bearing



### KIPP Swivel and fixed castors heavy-duty version

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	D	H	R	Permissible load kg
K1760.080251	K1760.08025	K1760.080252	plain bearing	-/40/40	25	80	111	-/80/80	60
K1760.100321	K1760.10032	K1760.100322	plain bearing	-/40/40	32	100	136	-/90/90	90
K1760.125251	K1760.12525	K1760.125252	plain bearing	-/40/40	25	125	161	-/102,5/102,5	80
K1760.125321	K1760.12532	K1760.125322	plain bearing	-/40/40	32	125	161	-/102,5/102,5	100

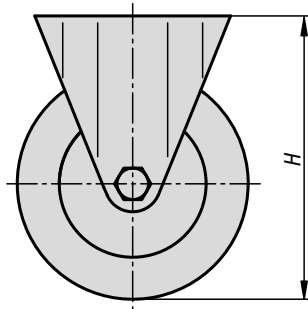
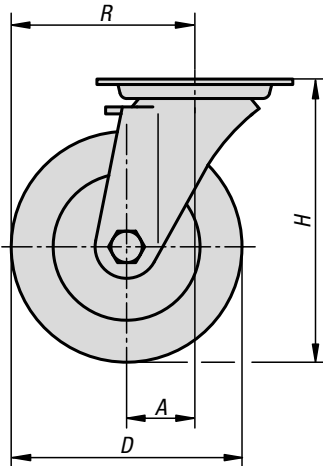
## Swivel and fixed castors

steel plate, electrically conductive, heavy-duty version



swivel castor

fixed castor



**Material:**

Housing steel plate.  
Wheels with thermoplastic rubber tread.  
Wheel body polypropylene.

**Version:**

Housing press formed.  
Double ball bearing in the castor head.  
Plain bearing in wheels.

**Sample order:**

K1760.1108032

**Note:**

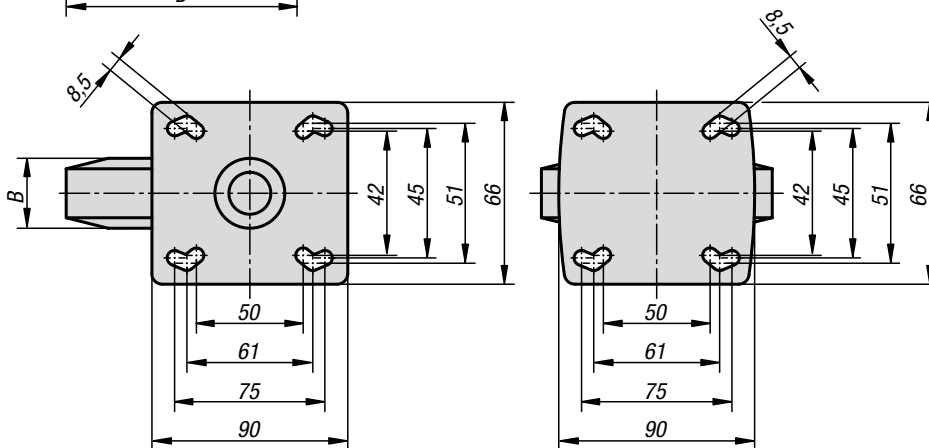
Wheel axle threaded. Swivel and fixed castors with mounting plate. Electrically conductive wheels, non-marking grey. The ohmic resistance of the wheel is less than  $10^4 \Omega$ .

**Application:**

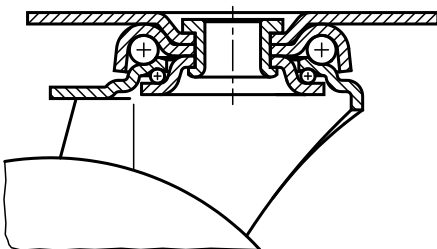
Electrically conductive wheels on swivel and fixed castors are used to protect against electrostatic discharge generated by transport equipment or the transported goods. Damage to sensitive goods and painful electrostatic shocks to the personal is so prevented.

**Temperature range:**

-20 °C to +60 °C.



swivel head bearing



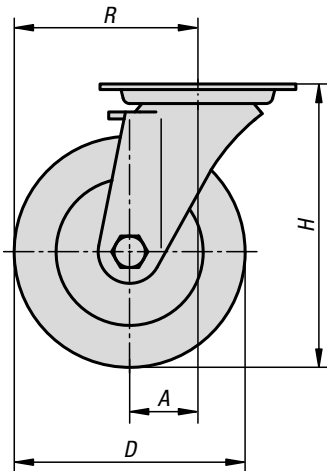
### KIPP Swivel and fixed castors steel plate, electrically conductive, heavy-duty version

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	D	H	R	Permissible load kg
K1760.11080321	K1760.1108032	K1760.11080322	plain bearing	-/40/40	32	80	111	-/80/80	65
K1760.11100321	K1760.1110032	K1760.11100322	plain bearing	-/40/40	32	100	136	-/90/90	70
K1760.11125321	K1760.1112532	K1760.11125322	plain bearing	-/40/40	32	125	161	-/102,5/102,5	80

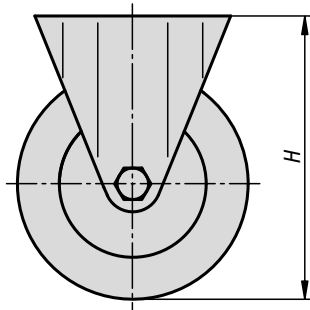
## Swivel and fixed castors

standard version

swivel castor



fixed castor



**Material:**

Housing and wheel rim steel plate.  
Tyres solid rubber.  
Wheel hub steel tube.

**Version:**

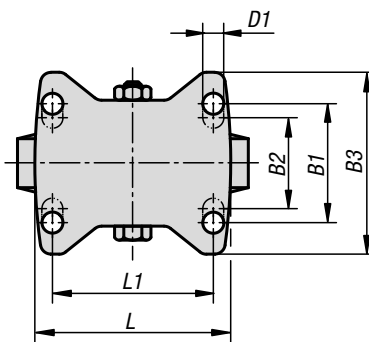
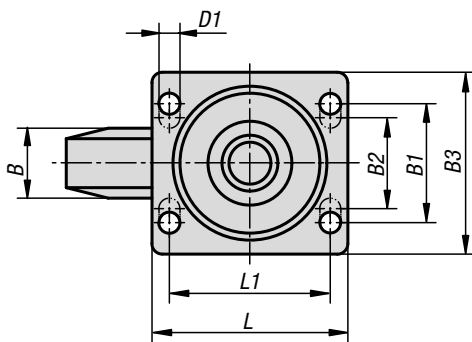
Housing and rim press formed.  
Double ball bearing with ball shield in castor head.  
Roller bearings in the wheels.

**Sample order:**

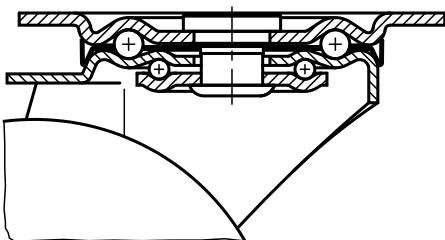
K1761.10030

**Note:**

Wheel axle bolted.



swivel head bearing



### KIPP Swivel and fixed castors standard version

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
K1761.080251	K1761.08025	K1761.080252	roller bearing	-/38/38	25	-	60	85	80	9
K1761.100301	K1761.10030	K1761.100302	roller bearing	-/36/36	30	-	60	85	100	9
K1761.125381	K1761.12538	K1761.125382	roller bearing	-/40/40	37,5	-	60	85	125	9
K1761.160401	K1761.16040	K1761.160402	roller bearing	-/60/60	40	75	80	110	160	11
K1761.200501	K1761.20050	K1761.200502	roller bearing	-/65/65	50	75	80	110	200	11

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	L	L1	H	R	Permissible load kg
K1761.080251	K1761.08025	K1761.080252	roller bearing	100	80	102	-/78/78	50
K1761.100301	K1761.10030	K1761.100302	roller bearing	100	80	125	-/86/86	70
K1761.125381	K1761.12538	K1761.125382	roller bearing	100	80	150	-/102,5/102,5	100
K1761.160401	K1761.16040	K1761.160402	roller bearing	140	105	195	-/140/140	135
K1761.200501	K1761.20050	K1761.200502	roller bearing	140	105	235	-/165/165	205



## Swivel and fixed castors

steel plate, electrically conductive standard version



**Material:**

Housing steel plate.  
Wheels with thermoplastic rubber tread.  
Wheel body polypropylene.

**Version:**

Housing press formed.  
Double ball bearing in the castor head.  
Plain bearing in wheels.

**Sample order:**

K1761.1108032

**Note:**

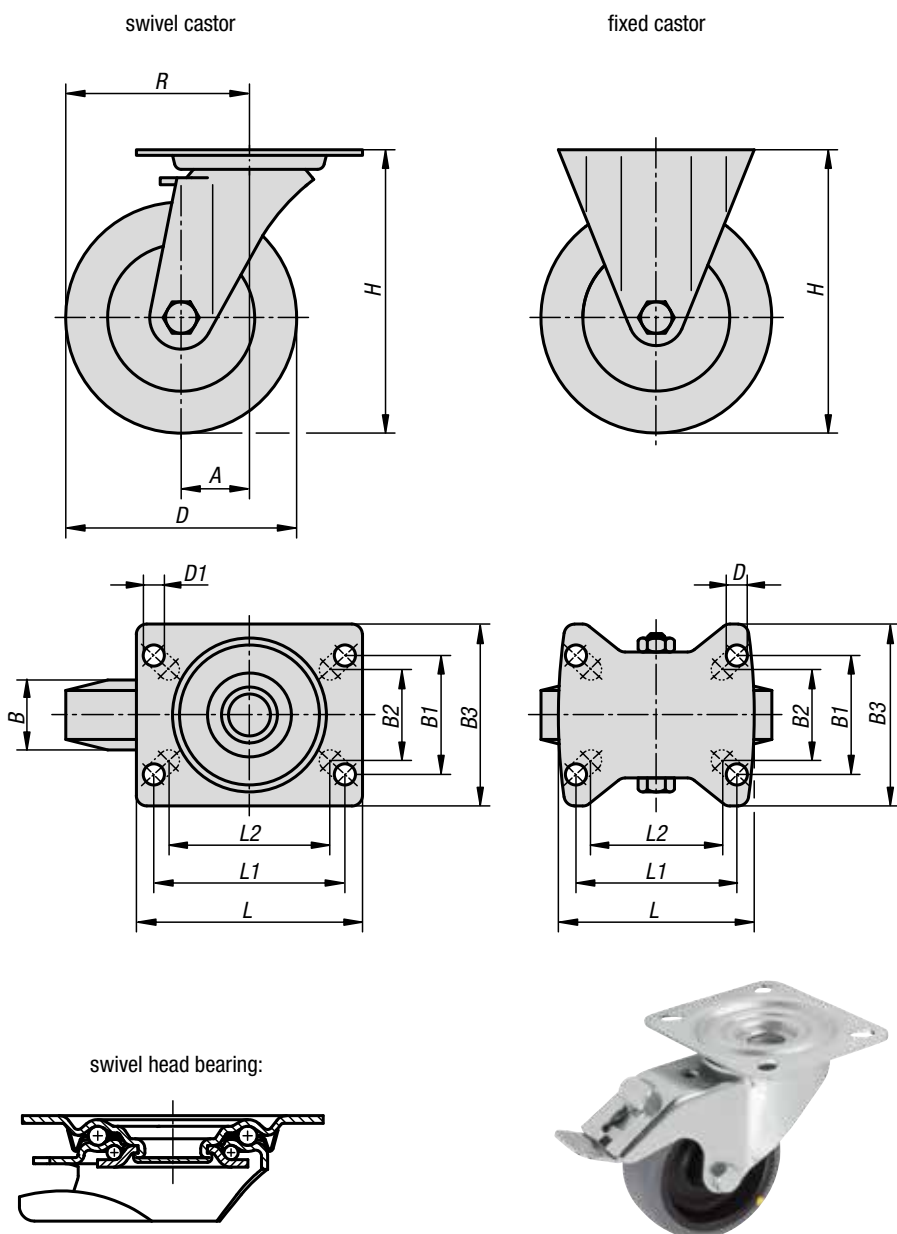
Wheel axle threaded. Swivel and fixed castors with mounting plate. Electrically conductive wheels, non-marking grey. The ohmic resistance of the wheel is less than  $10^4 \Omega$ .

**Application:**

Electrically conductive wheels on swivel and fixed castors are used to protect against electrostatic discharge generated by transport equipment or the transported goods. Damage to sensitive goods and painful electrostatic shocks to the personal is so prevented.

**Temperature range:**

-20 °C to +60 °C.



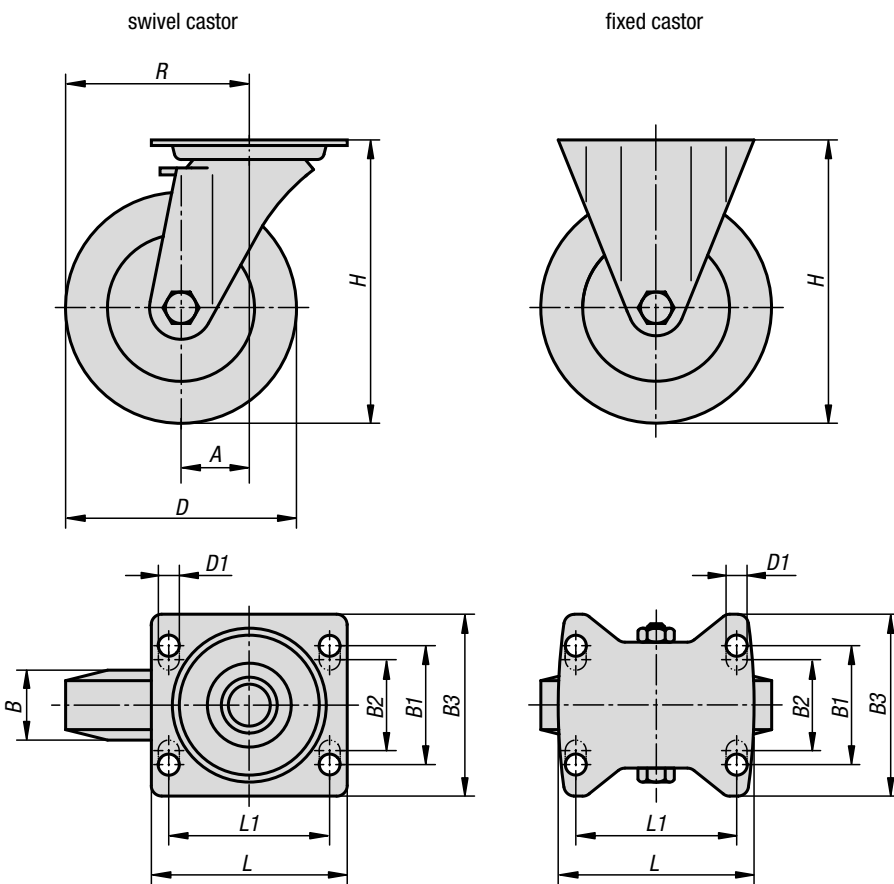
### KIPP Swivel and fixed castors, steel plate, electrically conductive standard version

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
K1761.11080321	K1761.1108032	K1761.11080322	plain bearing	-/38/38	32	55	60	85	80	9
K1761.11100321	K1761.1110032	K1761.11100322	plain bearing	-/36/36	32	55	60	85	100	9
K1761.11125321	K1761.1112532	K1761.11125322	plain bearing	-/40/40	32	55	60	85	125	9
K1761.11160401	K1761.1116040	K1761.11160402	plain bearing	-/54/54	40	75	80	110	160	11
K1761.11200401	K1761.1120040	K1761.11200402	plain bearing	-/54/54	40	75	80	110	200	11

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	L	L1	L2	H	R	Permissible load kg
K1761.11080321	K1761.1108032	K1761.11080322	plain bearing	100	80	76	102	-/78/78	65
K1761.11100321	K1761.1110032	K1761.11100322	plain bearing	100	80	76	125	-/86/86	70
K1761.11125321	K1761.1112532	K1761.11125322	plain bearing	100	80	76	150	-/102,5/102,5	80
K1761.11160401	K1761.1116040	K1761.11160402	plain bearing	140	105	-	195	-/134/134	130
K1761.11200401	K1761.1120040	K1761.11200402	plain bearing	140	105	-	235	-/154/154	160

## Swivel and fixed castors

standard version

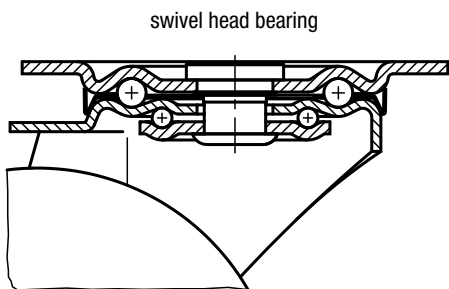


**Material:**  
Housing steel plate.  
Wheel body PA 6 with vulcanised elastic solid rubber tyre.

**Version:**  
Housing press formed.  
Double ball bearing with ball shield in castor head.  
Roller bearings in the wheels.

**Sample order:**  
K1762.12537

**Note:**  
Wheel axle bolted.  
Wheels are shock and impact proof.



### KIPP Swivel and fixed castors standard version

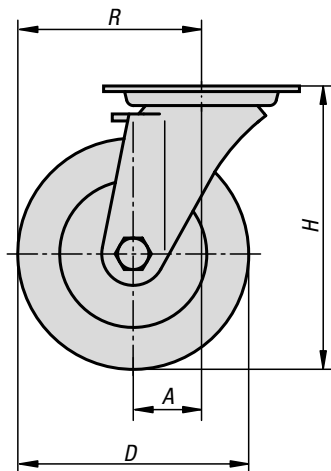
Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
K1762.100371	K1762.10037	K1762.100372	roller bearing	-/36/36	38	-	60	85	100	9
K1762.125371	K1762.12537	K1762.125372	roller bearing	-/40/40	40	-	60	85	125	9
K1762.160501	K1762.16050	K1762.160502	roller bearing	-/60/60	50	75	80	110	160	11
K1762.200501	K1762.20050	K1762.200502	roller bearing	-/65/65	50	75	80	110	200	11

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	H	L	L1	R	Permissible load kg
K1762.100371	K1762.10037	K1762.100372	roller bearing	125	100	80	-/86/86	170
K1762.125371	K1762.12537	K1762.125372	roller bearing	150	100	80	-/102,5/102,5	200
K1762.160501	K1762.16050	K1762.160502	roller bearing	195	140	105	-/140/140	350
K1762.200501	K1762.20050	K1762.200502	roller bearing	235	140	105	-/165/165	400

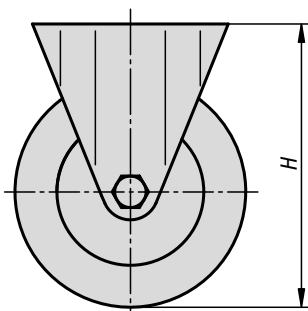
## Swivel and fixed castors

heavy-duty version

swivel castor



fixed castor



**Material:**

Housing thick steel plate.  
Tyres steel-wire reinforced elastic solid rubber.  
Wheel body welded steel.

**Version:**

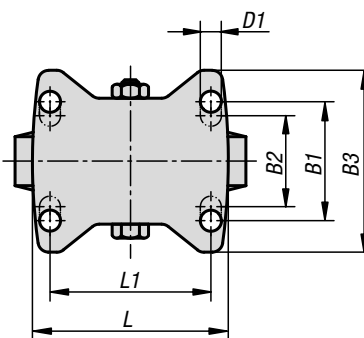
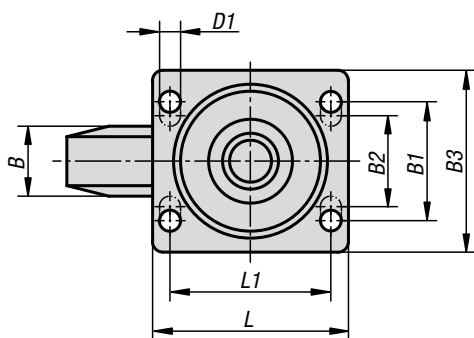
Housing press formed.  
Reinforced fork, base plate and centre pin.  
Double ball bearing with hardened shells in the castor head.  
Precision ball bearings in the wheels.

**Sample order:**

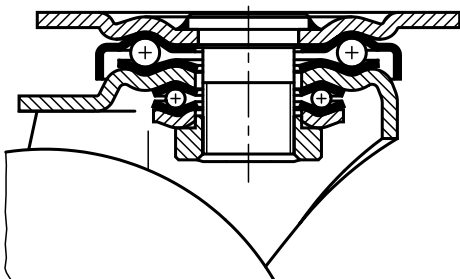
K1763.12550

**Note:**

These castors are particularly impact and shock proof and assure a high service life.  
Wheel axle bolted.



swivel head bearing



### KIPP Swivel and fixed castors heavy-duty version

Order No. without locking system Fixed Castor	Order No. without locking system Swivel Castor	Order No. with stop-top locking system Swivel Castor	Wheel bearing	A	B	B1	B2	B3	D	D1
K1763.100401	K1763.10040	K1763.100402	ball bearing	-/45/45	40	60	-	85	100	9
K1763.125501	K1763.12550	K1763.125502	ball bearing	-/55/55	50	80	75	110	125	11
K1763.160501	K1763.16050	K1763.160502	ball bearing	-/65/65	50	80	75	110	160	11
K1763.200501	K1763.20050	K1763.200502	ball bearing	-/70/70	50	80	75	110	200	11
K1763.250601	K1763.25060	K1763.250602	ball bearing	-/82/82	60	80	75	110	250	11

Order No. without locking system Fixed Castor	Order No. without locking system Swivel Castor	Order No. with stop-top locking system Swivel Castor	Wheel bearing	H	L	L1	R	Permissible load kg
K1763.100401	K1763.10040	K1763.100402	ball bearing	140	100	80	-/95/95	180
K1763.125501	K1763.12550	K1763.125502	ball bearing	170	140	105	-/117,5/117,5	280
K1763.160501	K1763.16050	K1763.160502	ball bearing	202	140	105	-/145/145	400
K1763.200501	K1763.20050	K1763.200502	ball bearing	245	140	105	-/170/170	500
K1763.250601	K1763.25060	K1763.250602	ball bearing	295	140	105	-/207/207	700

## Swivel and fixed castors

standard version



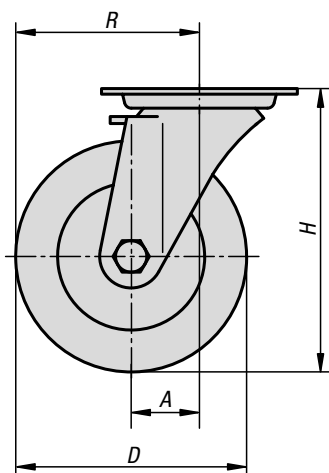
**Material:**  
Housing steel plate.  
Wheel body PA 6 with abrasion-resistant polyurethane tread.

**Version:**  
Housing press formed.  
Double ball bearing with ball shield in the castor head.  
Plain bearing in the wheels.

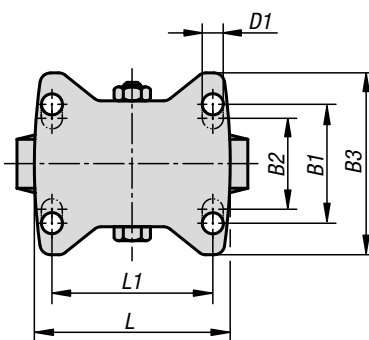
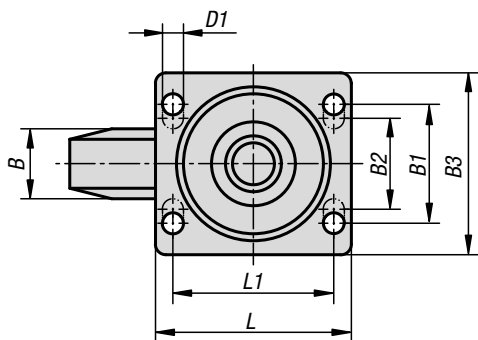
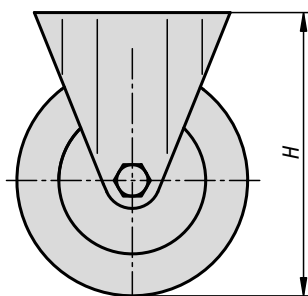
**Sample order:**  
K1764.12535

**Note:**  
The wheels are unbreakable, maintenance-free and non-corroding. Wheel axle bolted. Tread non-marking.

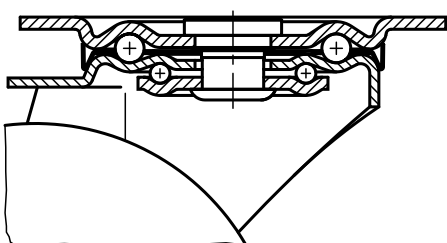
swivel castor



fixed castor



swivel head bearing



### KIPP Swivel and fixed castors standard version

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
K1764.100351	K1764.10035	K1764.100352	plain bearing	-/36/36	35	60	-	85	100	9
K1764.125351	K1764.12535	K1764.125352	plain bearing	-/40/40	40	60	-	85	125	9
K1764.150401	K1764.15040	K1764.150402	plain bearing	-/60/60	45	80	75	110	150	11
K1764.200501	K1764.20050	K1764.200502	plain bearing	-/65/65	50	80	75	110	200	11

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	H	L	L1	R	Permissible load kg
K1764.100351	K1764.10035	K1764.100352	plain bearing	125	100	80	-/86/86	200
K1764.125351	K1764.12535	K1764.125352	plain bearing	150	100	80	-/102,5/102,5	200
K1764.150401	K1764.15040	K1764.150402	plain bearing	190	140	105	-/135/135	400
K1764.200501	K1764.20050	K1764.200502	plain bearing	235	140	105	-/165/165	400

## Swivel and fixed castors

medium-duty version



**Material:**

Housing, steel plate.  
Wheel tread, high quality polyurethane elastomere.  
Wheel rims, die-cast aluminium.

**Version:**

Housing, press-formed.  
Swivel housing, double-row ball bearings in a swivel head.  
Ball bearing wheel axle bearings.

**Sample order:**

K1765.101000401

**Note:**

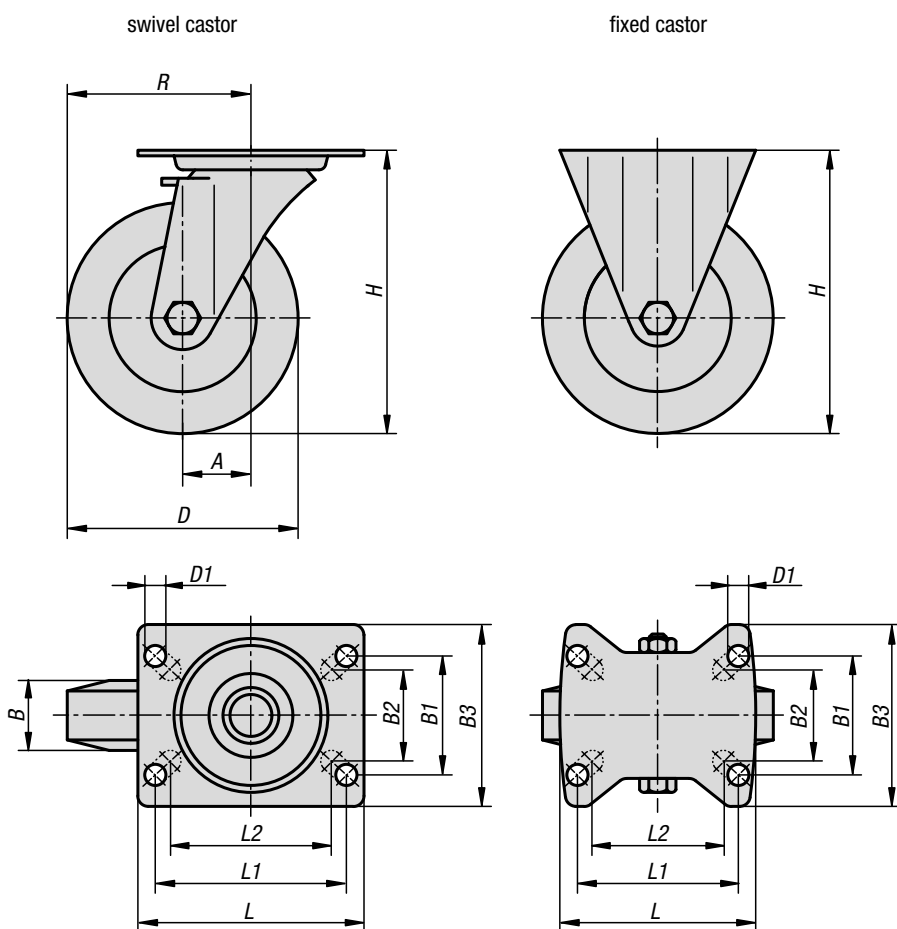
Wheel axle bolted.  
Swivel and fixed castors with mounting plate.

**Application:**

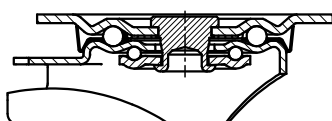
Heavy loads can be easily transported using this load handling equipment. The roll and swivel resistance is reduced with this new wheel series designed for intralogistic heavy load applications.

**Temperature range:**

-25 °C to +70 °C



swivel head bearing:



### KIPP Swivel and fixed castors medium-duty version

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
K1765.101000401	K1765.10100040	K1765.101000402	ball bearing	-/36/36	40	60	55	85	100	9
K1765.101250401	K1765.10125040	K1765.101250402	ball bearing	-/40/40	40	60	55	85	125	9
K1765.101500501	K1765.10150050	K1765.101500502	ball bearing	-/60/60	50	80	75	110	150	11
K1765.101600501	K1765.10160050	K1765.101600502	ball bearing	-/60/60	50	80	75	110	160	11
K1765.102000501	K1765.10200050	K1765.102000502	ball bearing	-/65/65	50	80	75	110	200	11

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	H	L	L1	L2	R	Permissible load kg
K1765.101000401	K1765.10100040	K1765.101000402	ball bearing	125	100	80	76	-/86/86	200
K1765.101250401	K1765.10125040	K1765.101250402	ball bearing	150	100	80	76	-/102,5/102,5	200
K1765.101500501	K1765.10150050	K1765.101500502	ball bearing	190	140	105	-	-/135/135	400
K1765.101600501	K1765.10160050	K1765.101600502	ball bearing	195	140	105	-	-/140/140	400
K1765.102000501	K1765.10200050	K1765.102000502	ball bearing	235	140	105	-	-/165/165	400

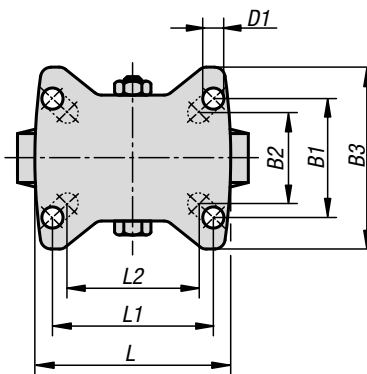
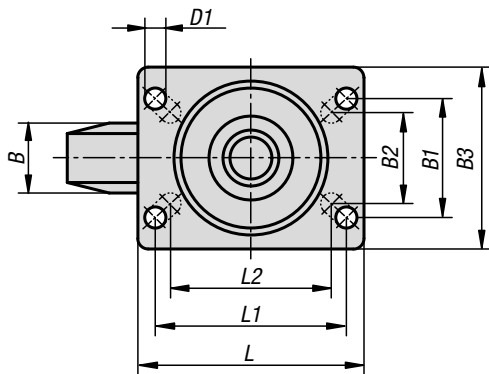
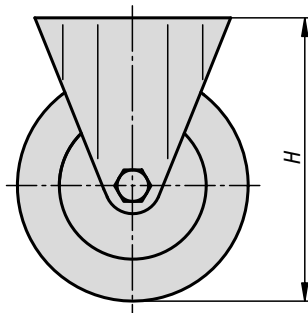
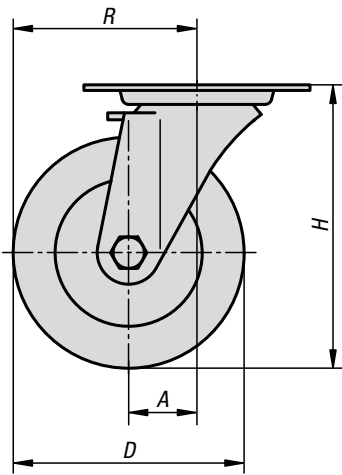
# Swivel and fixed castors

steel plate, heavy-duty version



swivel castor

fixed castor



**Material:**

Housing, steel plate.  
Wheel tread, high quality polyurethane elastomere.  
Wheel rims, die-cast aluminium.

**Version:**

Housing, press-formed.  
Swivel housing, double-row ball bearings in a swivel head.  
Ball bearing wheel axle bearings.

**Sample order:**

K1788.1012504011

**Note:**

Wheel axle bolted.  
Swivel and fixed castors with mounting plate.

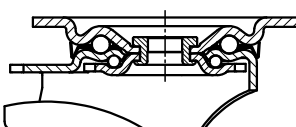
**Application:**

Heavy loads can be easily transported using this load handling equipment. The roll and swivel resistance is reduced with this new wheel series designed for intralogistic heavy load applications.

**Temperature range:**

-25 °C to +70 °C

swivel head bearing:



# Swivel and fixed castors

steel plate, heavy-duty version



## KIPP Swivel and fixed castors steel plate, heavy-duty version

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
K1788.1010004011	K1788.101000401	K1788.1010004021	ball bearing	-/45/45	40	60	55	85	100	9
K1788.1010004013	K1788.101000403	K1788.1010004023	ball bearing	-/45/45	40	80	75	110	100	11
K1788.1012504011	K1788.101250401	K1788.1012504021	ball bearing	-/48/48	40	60	55	85	125	9
K1788.1012504013	K1788.101250403	K1788.1012504023	ball bearing	-/48/48	40	80	75	110	125	11
K1788.101500501	K1788.10150050	K1788.101500502	ball bearing	-/63/63	50	80	75	110	150	11
K1788.101600501	K1788.10160050	K1788.101600502	ball bearing	-/63/63	50	80	75	110	160	11
K1788.102000501	K1788.10200050	K1788.102000502	ball bearing	-/65/65	50	80	75	110	200	11

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	H	L	L1	L2	R	Permissible load kg
K1788.1010004011	K1788.101000401	K1788.1010004021	ball bearing	130	100	80	76	-/95/95	350
K1788.1010004013	K1788.101000403	K1788.1010004023	ball bearing	130	140	105	-	-/95/95	350
K1788.1012504011	K1788.101250401	K1788.1012504021	ball bearing	155	100	80	76	-/110,5/110,5	350
K1788.1012504013	K1788.101250403	K1788.1012504023	ball bearing	155	140	105	-	-/110,5/110,5	350
K1788.101500501	K1788.10150050	K1788.101500502	ball bearing	197	140	105	-	-/138/138	500
K1788.101600501	K1788.10160050	K1788.101600502	ball bearing	202	140	105	-	-/143/143	550
K1788.102000501	K1788.10200050	K1788.102000502	ball bearing	245	140	105	-	-/165/165	600

## Steel plate swivel and fixed castors

with soft rubber tyres



**Material:**  
 Housing, steel plate.  
 Wheel tyre, high-quality elastic solid rubber.  
 Wheel rim, high-quality unbreakable polyamide or die-cast aluminium.

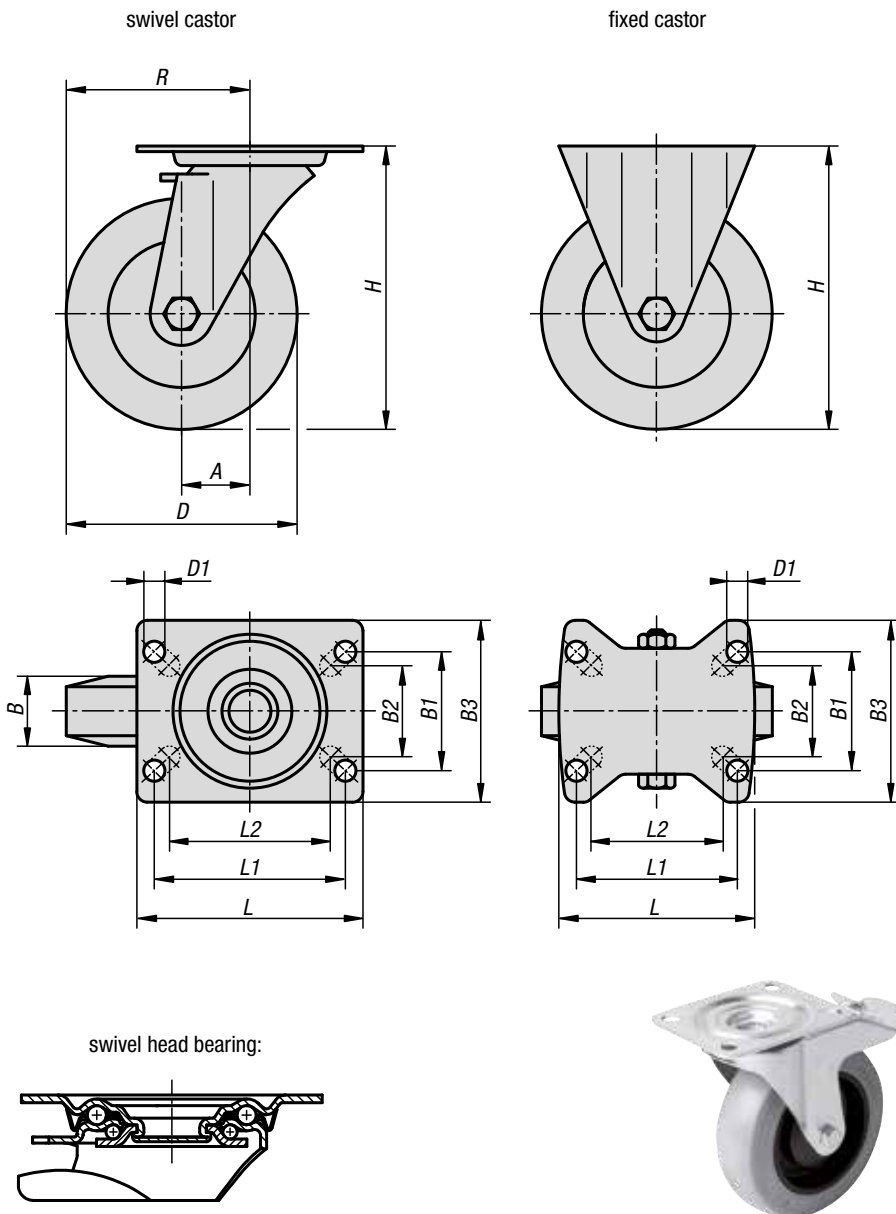
**Version:**  
 Housing, press-formed.  
 Swivel housing, double-row ball bearings in a swivel head.  
 Ball bearing wheel axle bearings.

**Sample order:**  
 K1766.10160050

**Note:**  
 Wheel axle bolted.  
 Swivel and fixed castors with mounting plate.

**Application:**  
 Maximum travel comfort, excellent cushioning of the transported goods. The new soft rubber series brings noticeable noise reduction in all applications.

**Temperature range:**  
 -25 °C to +80 °C.



### KIPP Steel plate swivel and fixed castors with soft rubber tyres

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
K1766.101000401	K1766.10100040	K1766.101000402	ball bearing	-/36/36	40	60	55	85	100	9
K1766.101250401	K1766.10125040	K1766.101250402	ball bearing	-/40/40	40	60	55	85	125	9
K1766.101500401	K1766.10150040	K1766.101500402	ball bearing	-/54/54	40	80	75	110	150	11
K1766.101600501	K1766.10160050	K1766.101600502	ball bearing	-/54/54	50	80	75	110	160	11
K1766.102000501	K1766.10200050	K1766.102000502	ball bearing	-/54/54	50	80	75	110	200	11

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	H	L	L1	L2	R	Permissible load kg
K1766.101000401	K1766.10100040	K1766.101000402	ball bearing	125	100	80	76	-/86/86	150
K1766.101250401	K1766.10125040	K1766.101250402	ball bearing	150	100	80	76	-/102,5/102,5	150
K1766.101500401	K1766.10150040	K1766.101500402	ball bearing	190	140	105	-	-/129/129	280
K1766.101600501	K1766.10160050	K1766.101600502	ball bearing	195	140	105	-	-/134/134	300
K1766.102000501	K1766.10200050	K1766.102000502	ball bearing	235	140	105	-	-/154/154	300



## Steel plate swivel castors

with soft rubber tyres and bolt hole



**Material:**

Housing, steel plate.

Wheel tyre, high quality elastic solid rubber.

Wheel rim, high quality unbreakable polyamide.

**Version:**

Housing, press-formed.

Swivel housing, double-row ball bearings in a swivel head.

Ball bearing wheel axle bearings.

**Sample order:**

K1789.10125040

**Note:**

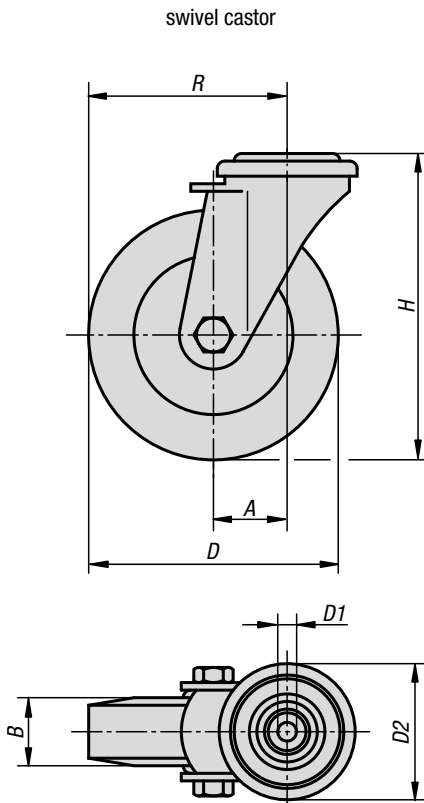
Wheel axle bolted.

**Application:**

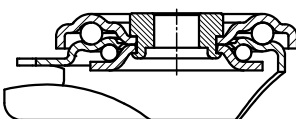
Maximum travel comfort, excellent cushioning of the transported goods. The new soft rubber series brings noticeable noise reduction in all applications.

**Temperature range:**

-25 °C to +80 °C.



swivel head bearing:



### KIPP Steel plate swivel castors with soft rubber tyres and bolt hole

Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	D	D1	D2	H	R	Permissible load kg
K1789.10100040	K1789.101000402	ball bearing	36	40	100	13	70	125	86	150
K1789.10125040	K1789.101250402	ball bearing	40	40	125	13	70	150	102,5	150

## Swivel and fixed castors

medium-duty version



swivel castor

fixed castor



**Material:**

Housing steel plate.  
Wheel body die-cast aluminium with Extrathane® tread.

**Version:**

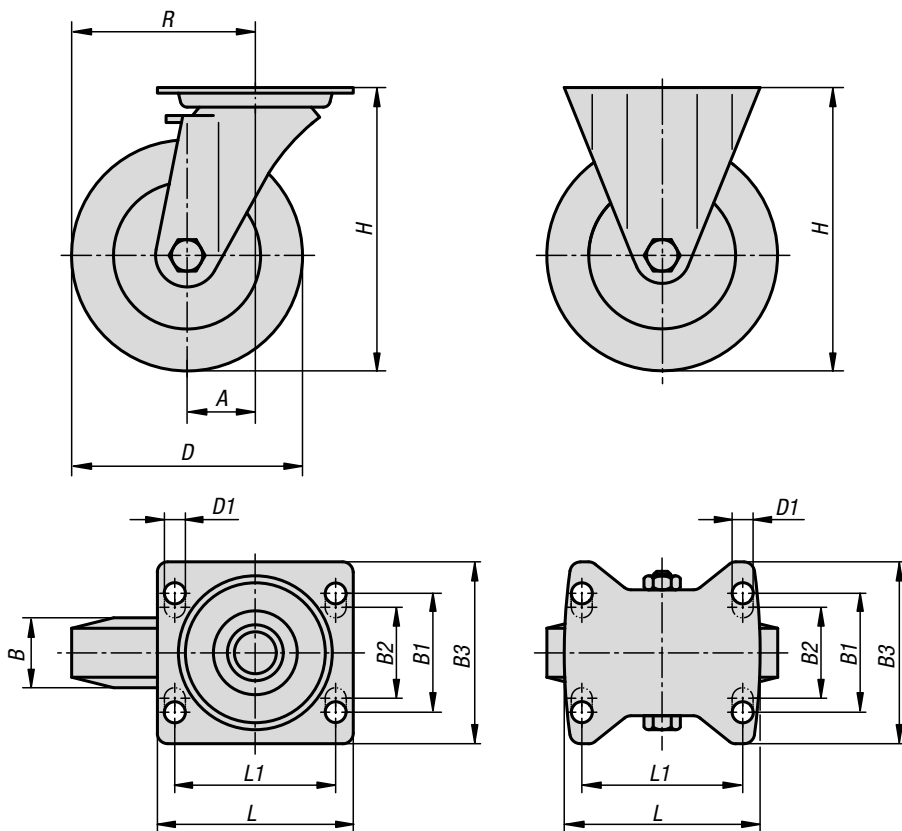
Housing press formed.  
Double ball bearing with ball shield in the castor head.  
Precision ball bearings in the wheels.

**Sample order:**

K1767.12540

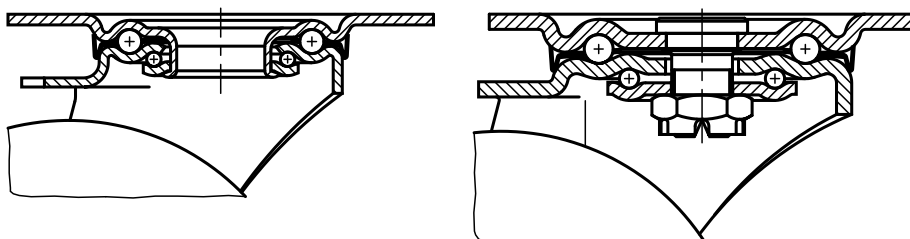
**Note:**

The wheels are non-corroding and have a low rolling resistance. Wheel axle bolted.



swivel head bearing  $R1 \leq 125$

swivel head bearing  $R1 \geq 160$



### KIPP Swivel and fixed castors medium-duty version

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-top locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
K1767.100401	K1767.10040	K1767.100402	ball bearing	-/45/45	40	60	-	85	100	9
K1767.125401	K1767.12540	K1767.125402	ball bearing	-/48/48	40	60	-	85	125	9
K1767.160501	K1767.16050	K1767.160502	ball bearing	-/63/63	50	80	75	110	160	11
K1767.200501	K1767.20050	K1767.200502	ball bearing	-/70/70	50	80	75	110	200	11

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-top locking system	Wheel bearing	H	L	L1	R	Permissible load kg
K1767.100401	K1767.10040	K1767.100402	ball bearing	130	100	80	-/95/95	250
K1767.125401	K1767.12540	K1767.125402	ball bearing	155	100	80	-/110,5/110,5	250
K1767.160501	K1767.16050	K1767.160502	ball bearing	202	140	105	-/143/143	550
K1767.200501	K1767.20050	K1767.200502	ball bearing	245	140	105	-/170/170	800

## Swivel and fixed castors

heavy-duty version



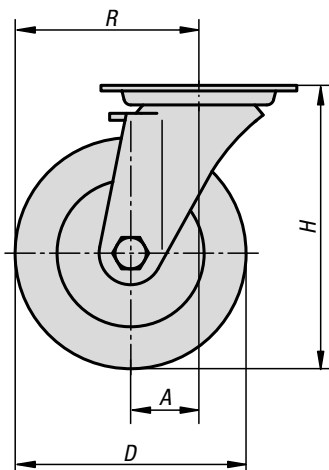
**Material:**  
Housing thick steel plate.  
Wheels welded steel body and Extrathane® tread.

**Version:**  
Housing press formed.  
Swivel castor housing with strong fork and base plate, very robust centre pin bolted and secured. The swivel head is additionally reinforced with specially formed and hardened bearing shells.

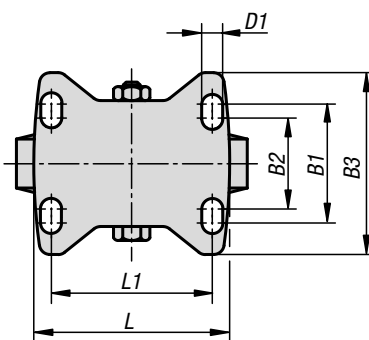
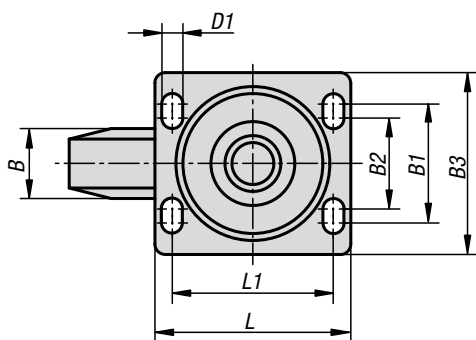
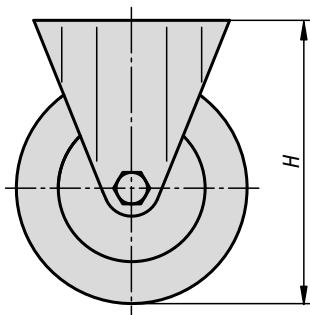
**Sample order:**  
K1768.16050

**Note:**  
These castors are particularly shock and impact proof. The treads resist abrasion and are elastic and low-noise. Wheel axle bolted.

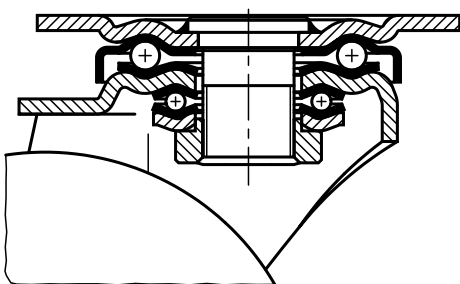
swivel castor



fixed castor



swivel head bearing



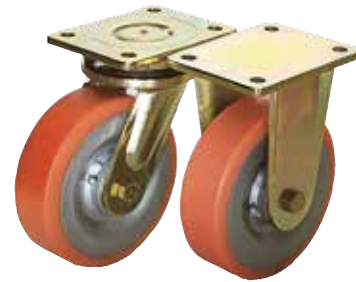
### KIPP Swivel and fixed castors heavy-duty version

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-top locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
K1768.125501	K1768.12550	K1768.125502	ball bearing	-/55/55	50	80	75	110	125	11
K1768.160501	K1768.16050	K1768.160502	ball bearing	-/65/65	50	80	75	110	160	11
K1768.200501	K1768.20050	K1768.200502	ball bearing	-/70/70	50	80	75	110	200	11

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-top locking system	Wheel bearing	H	L	L1	R	Permissible load kg
K1768.125501	K1768.12550	K1768.125502	ball bearing	170	140	105	-/117,5/117,5	500
K1768.160501	K1768.16050	K1768.160502	ball bearing	202	140	105	-/145/145	700
K1768.200501	K1768.20050	K1768.200502	ball bearing	245	140	105	-/170/170	900

## Swivel and fixed castors

welded steel heavy-duty version



**Material:**

Housing solid welded steel construction. Wheels with welded steel body and Extrathane® tread.

**Version:**

The housing is a rugged welded steel construction. Swivel castor housing with DIN 711 axial groove ball bearing and DIN 720 tapered roller bearing in the swivel head. Dust and splash-proof, with grease nipple. Precision ball bearings in the wheels.

**Sample order:**

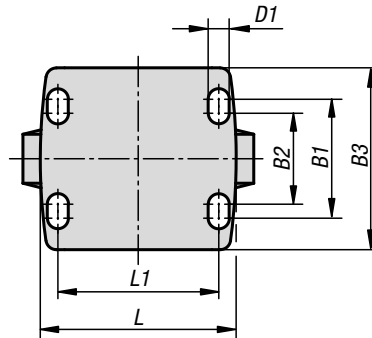
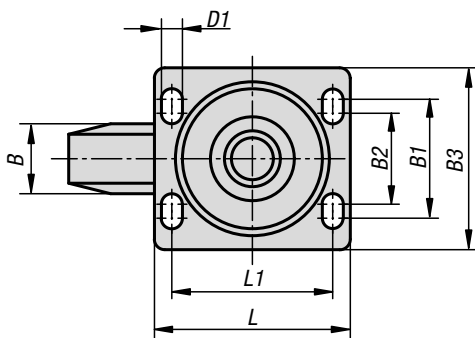
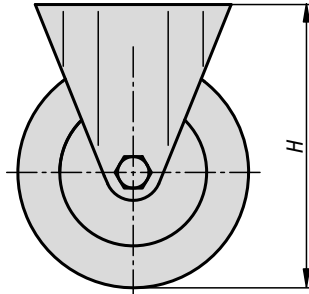
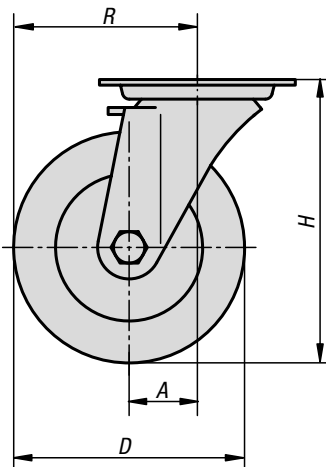
K1769.20050

**Note:**

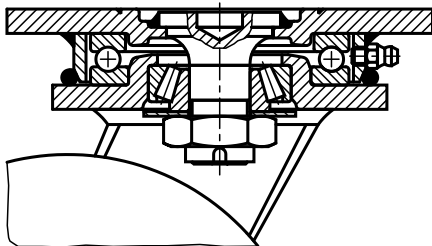
Centre pin welded in, bolted and secured. Wheel axle bolted.

swivel castor

fixed castor



swivel head bearing



### KIPP Swivel and fixed castors welded steel heavy-duty version

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-top locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
K1769.160501	K1769.16050	K1769.160502	ball bearing	-/55/55	50	80	75	110	160	11
K1769.200501	K1769.20050	K1769.200502	ball bearing	-/60/60	50	80	75	110	200	11
K1769.250601	K1769.25060	K1769.250602	ball bearing	-/75/75	60	105	-	140	250	14

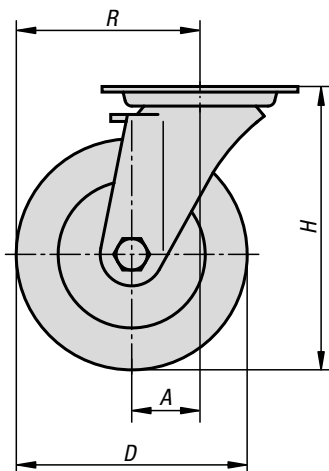
Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-top locking system	Wheel bearing	H	L	L1	R	Permissible load kg
K1769.160501	K1769.16050	K1769.160502	ball bearing	205	140	105	-/135/135	700
K1769.200501	K1769.20050	K1769.200502	ball bearing	245	140	105	-/160/160	1000
K1769.250601	K1769.25060	K1769.250602	ball bearing	305	175	140	-/200/200	1350

## Swivel and fixed castors

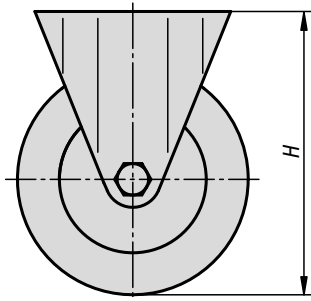
standard version



swivel castor



fixed castor



**Material:**

Housing steel plate.  
Wheels PA 6.

**Version:**

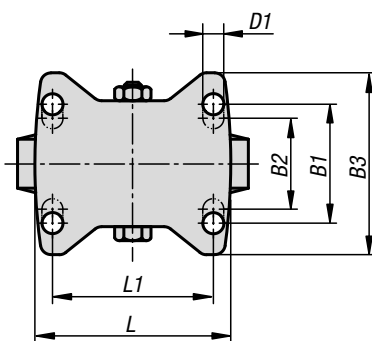
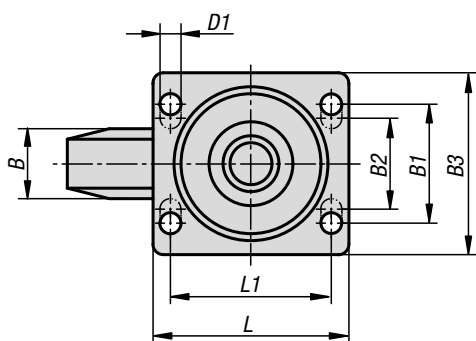
Housing press formed.  
Double ball bearing with ball shield in the castor head.  
Plain bearings in the wheels.

**Sample order:**

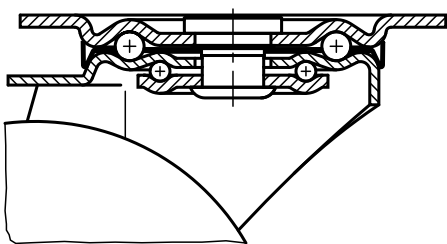
K1770.10037

**Note:**

The PA 6 wheels have a low rolling resistance, are non-corroding, resist abrasion and are particularly shock and impact proof.



swivel head bearing



### KIPP Swivel and fixed castors standard version

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
K1770.075321	K1770.07532	K1770.075322	plain bearing	-/35/35	32	60	-	85	75	9
K1770.100371	K1770.10037	K1770.100372	plain bearing	-/35/35	37	60	-	85	100	9
K1770.125401	K1770.12540	K1770.125402	plain bearing	-/40/40	40	60	-	85	125	9
K1770.150501	K1770.15050	K1770.150502	plain bearing	-/60/60	50	80	75	110	150	11

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	H	L	L1	R	Permissible load kg
K1770.075321	K1770.07532	K1770.075322	plain bearing	98	100	80/105	-/72,5/72,5	200
K1770.100371	K1770.10037	K1770.100372	plain bearing	125	100	80/105	-/85/85	200
K1770.125401	K1770.12540	K1770.125402	plain bearing	150	100	80/105	-/102,5/102,5	200
K1770.150501	K1770.15050	K1770.150502	plain bearing	190	140	80/105	-/135/135	400

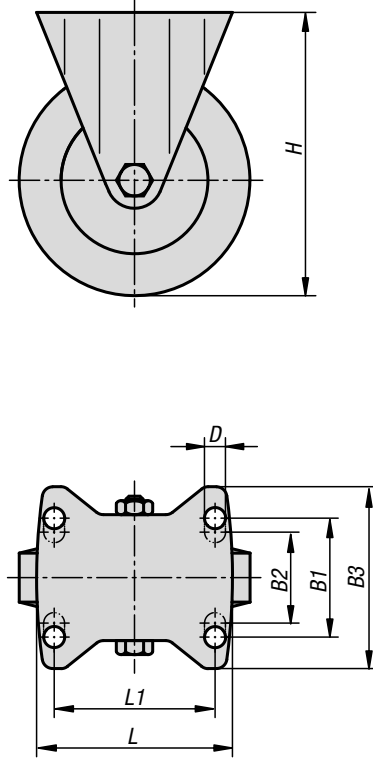
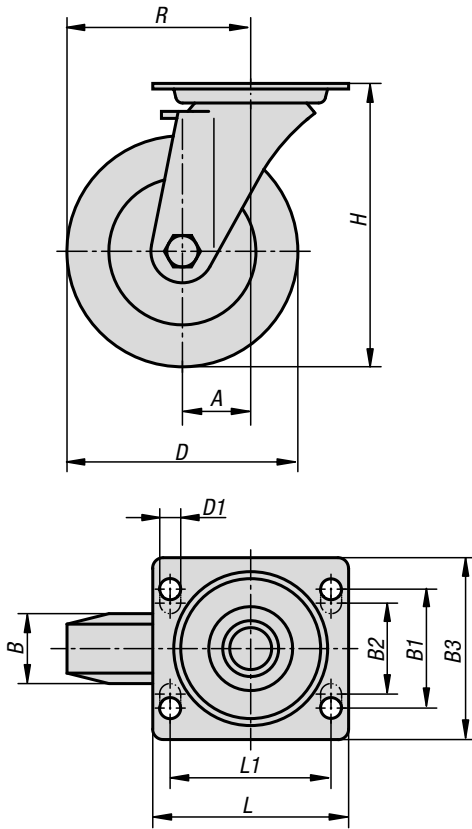
## Swivel and fixed castors

heavy-duty version



swivel castor

fixed castor



**Material:**

Housing thick steel plate.  
Wheels PA 6.

**Version:**

Housing press formed.  
Swivel castor housing with strong fork and base plate, very robust centre pin bolted and secured. The swivel head is additionally reinforced with specially formed and hardened bearing shells. Plain bearings in the wheels.

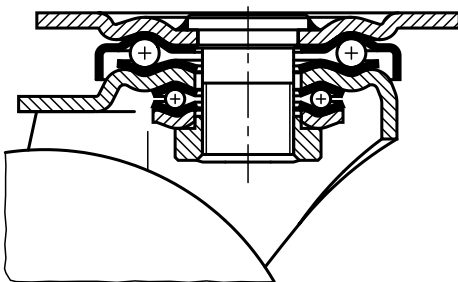
**Sample order:**

K1771.12540

**Note:**

Wheel axle bolted. The wheels are particularly shock and impact proof and have high abrasion resistance.

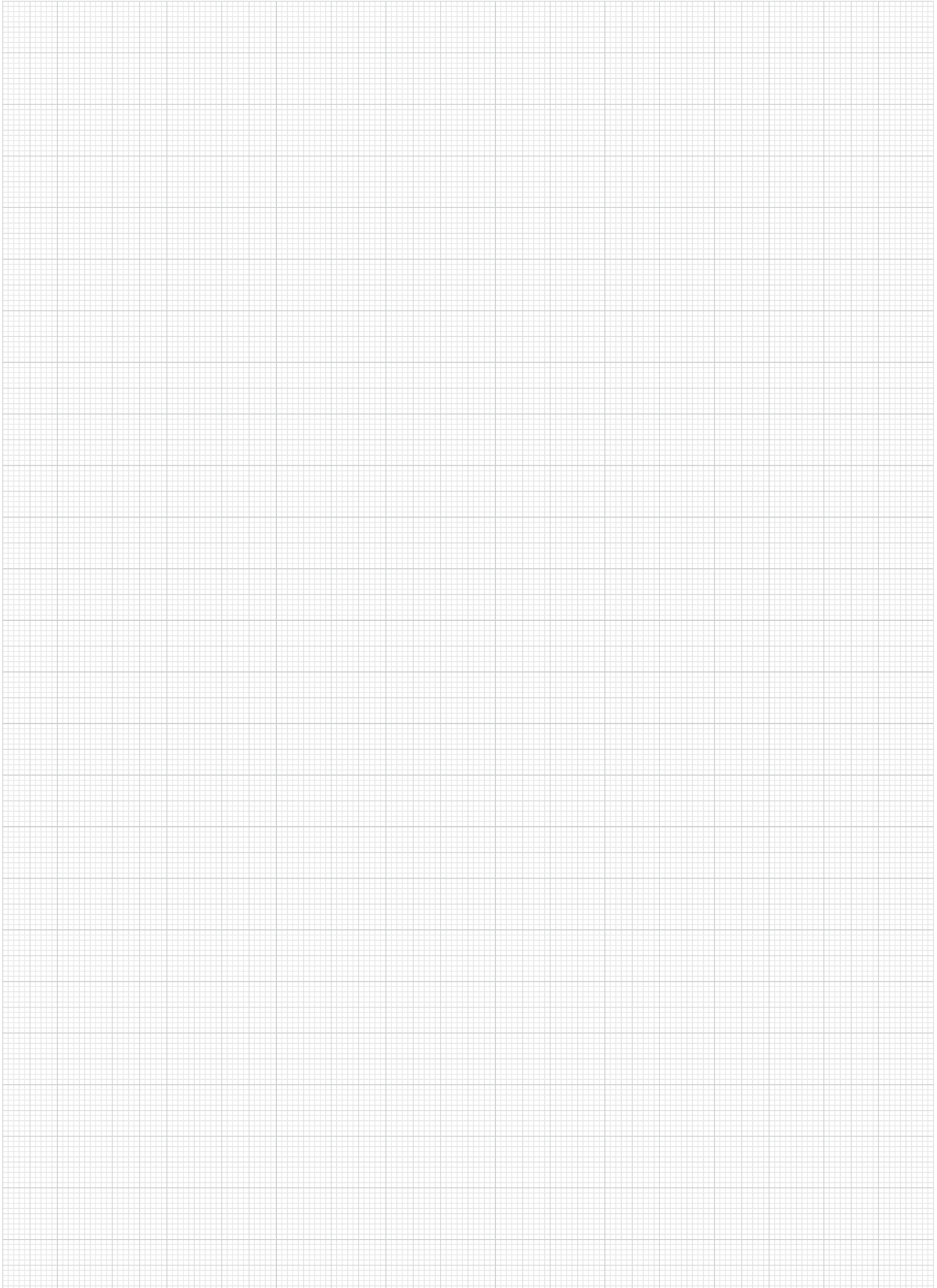
swivel head bearing



### KIPP Swivel and fixed castors heavy-duty version

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-top locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
K1771.100371	K1771.10037	K1771.100372	plain bearing	-/45/45	37	60	-	85	100	9
K1771.125401	K1771.12540	K1771.125402	plain bearing	-/45/45	40	60	-	85	125	9
K1771.150501	K1771.15050	K1771.150502	plain bearing	-/65/65	50	80	75	110	150	11
K1771.200501	K1771.20050	K1771.200502	plain bearing	-/70/70	50	80	75	110	200	11

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-top locking system	Wheel bearing	H	L	L1	R	Permissible load kg
K1771.100371	K1771.10037	K1771.100372	plain bearing	140	100	80	-/95/95	280
K1771.125401	K1771.12540	K1771.125402	plain bearing	165	100	80	-/107,5/107,5	300
K1771.150501	K1771.15050	K1771.150502	plain bearing	197	140	105	-/140/140	400
K1771.200501	K1771.20050	K1771.200502	plain bearing	245	140	105	-/170/170	600

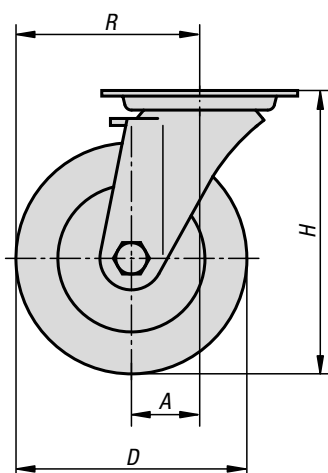


## Swivel and fixed castors

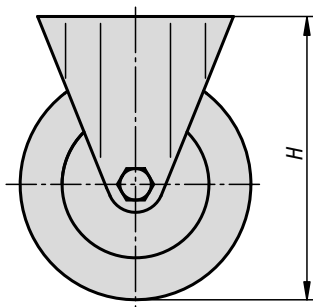
heavy-duty version



swivel castor



fixed castor



**Material:**

Housing thick steel plate.  
Wheels high-quality PA 6.

**Version:**

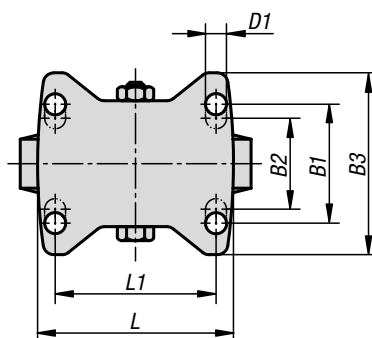
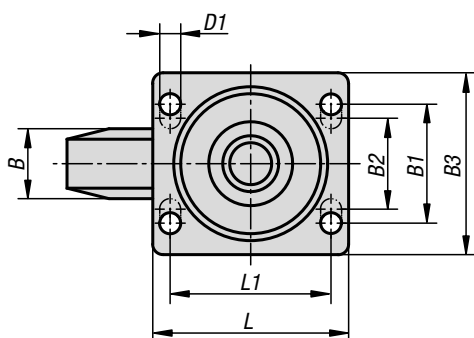
Housing press formed.  
Swivel castor housing with strong fork and base plate, very robust centre pin bolted and secured. The swivel head is additionally reinforced with specially formed and hardened bearing shells.

**Sample order:**

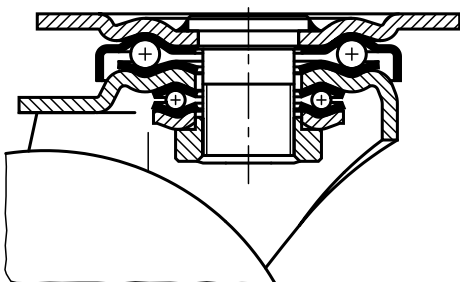
K1772.10037

**Note:**

The hardened bearing shells make these castors particularly shock and impact proof. The wheels have high abrasion resistance. Wheel axle bolted.



swivel head bearing





# Swivel and fixed castors

heavy-duty version



## KIPP Swivel and fixed castors heavy-duty version

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-top locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
K1772.075321	K1772.07532	K1772.075322	plain bearing	-/45/45	32	60	-	85	75	9
K1772.075324	K1772.075323	K1772.075325	ball bearing	-/45/45	32	60	-	85	75	9
K1772.100371	K1772.10037	K1772.100372	plain bearing	-/45/45	37	60	-	85	100	9
K1772.100374	K1772.100373	K1772.100375	ball bearing	-/45/45	37	60	-	85	100	9
K1772.125401	K1772.12540	K1772.125402	plain bearing	-/45/45	40	60	-	85	125	9
K1772.125404	K1772.125403	K1772.125405	ball bearing	-/45/45	40	60	-	85	125	9
K1772.150501	K1772.15050	K1772.150502	plain bearing	-/65/65	50	80	75	110	150	11
K1772.150504	K1772.150503	K1772.150505	ball bearing	-/65/65	50	80	75	110	150	11

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-top locking system	Wheel bearing	H	L	L1	R	Permissible load kg
K1772.075321	K1772.07532	K1772.075322	plain bearing	118	100	80	-/82,5/82,5	300
K1772.075324	K1772.075323	K1772.075325	ball bearing	118	100	80	-/82,5/82,5	300
K1772.100371	K1772.10037	K1772.100372	plain bearing	140	100	80	-/95/95	500
K1772.100374	K1772.100373	K1772.100375	ball bearing	140	100	80	-/95/95	500
K1772.125401	K1772.12540	K1772.125402	plain bearing	165	100	80	-/107,5/107,5	700
K1772.125404	K1772.125403	K1772.125405	ball bearing	165	100	80	-/107,5/107,5	700
K1772.150501	K1772.15050	K1772.150502	plain bearing	197	140	105	-/140/140	800
K1772.150504	K1772.150503	K1772.150505	ball bearing	197	140	105	-/140/140	800

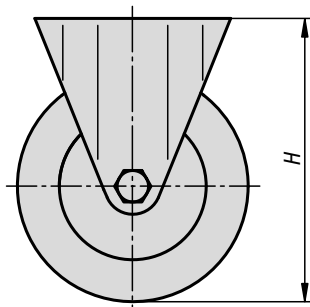
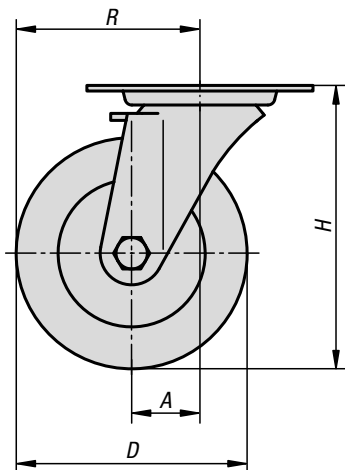
## Swivel and fixed castors

stainless steel, standard version



swivel castor

fixed castor



**Material:**

Housing stainless steel 1.4301.  
Wheels high-quality unbreakable polyamide.

**Version:**

Housing press formed.  
Double ball bearing in the castor head.  
Plain bearing in wheels.

**Sample order:**

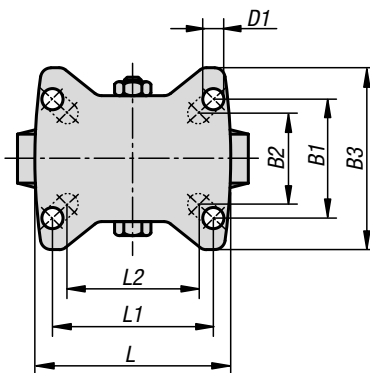
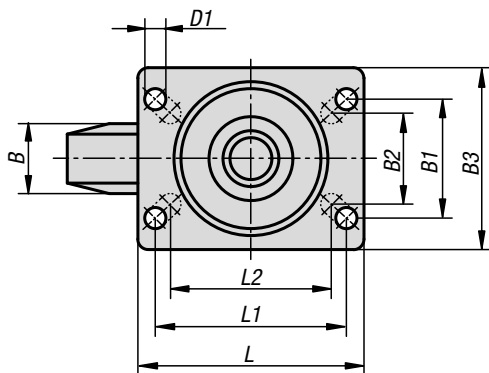
K1773.211000371

**Note:**

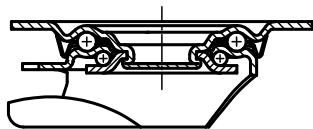
Wheel axle bolted.  
Swivel and fixed castors with mounting plate.  
Vibratory ground surface.  
Stainless.

**Temperature range:**

-25 °C to +80 °C.



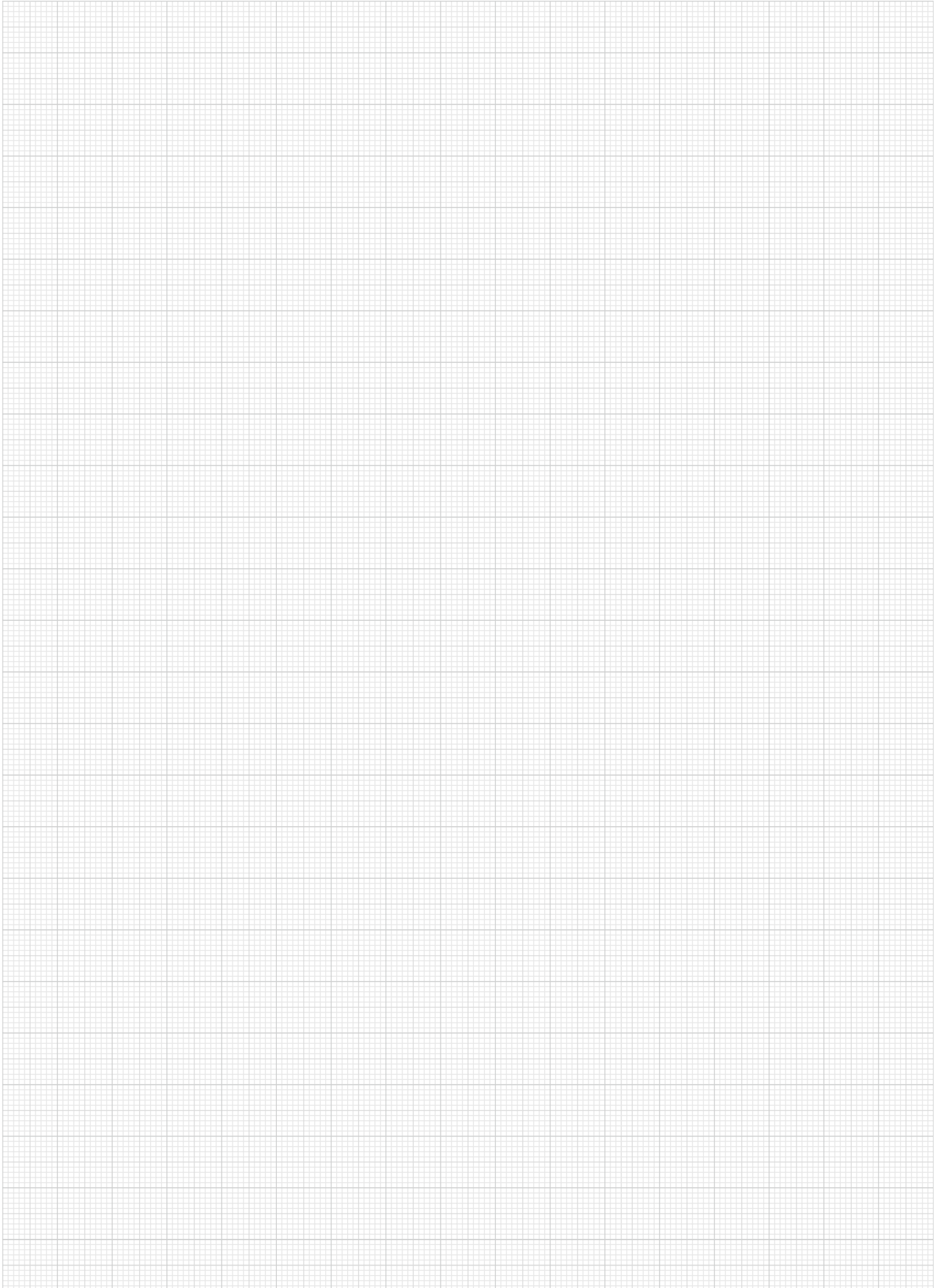
swivel head bearing:



### KIPP Swivel and fixed castors stainless steel, standard version

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
K1773.210750321	K1773.21075032	K1773.210750322	plain bearing	-/38/38	32	60	55	85	75	9
K1773.211000371	K1773.21100037	K1773.211000372	plain bearing	-/36/36	37	60	55	85	100	9
K1773.211250401	K1773.21125040	K1773.211250402	plain bearing	-/40/40	40	60	55	85	125	9
K1773.211500501	K1773.21150050	K1773.211500502	plain bearing	-/54/54	50	80	75	110	150	11

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	H	L	L1	L2	R	Permissible load kg
K1773.210750321	K1773.21075032	K1773.210750322	plain bearing	100	100	80	76	-/75,5/75,5	150
K1773.211000371	K1773.21100037	K1773.211000372	plain bearing	125	100	80	76	-/86/86	150
K1773.211250401	K1773.21125040	K1773.211250402	plain bearing	150	100	80	76	-/102,5/102,5	150
K1773.211500501	K1773.21150050	K1773.211500502	plain bearing	190	140	105	-	-/129/129	300



# Swivel castors

compact version



**Material:**  
 Housing steel plate, trivalent blue passivated.  
 Roller light brown polyurethane, Shore 92 A  
 or white polyamide, Shore 80 D.

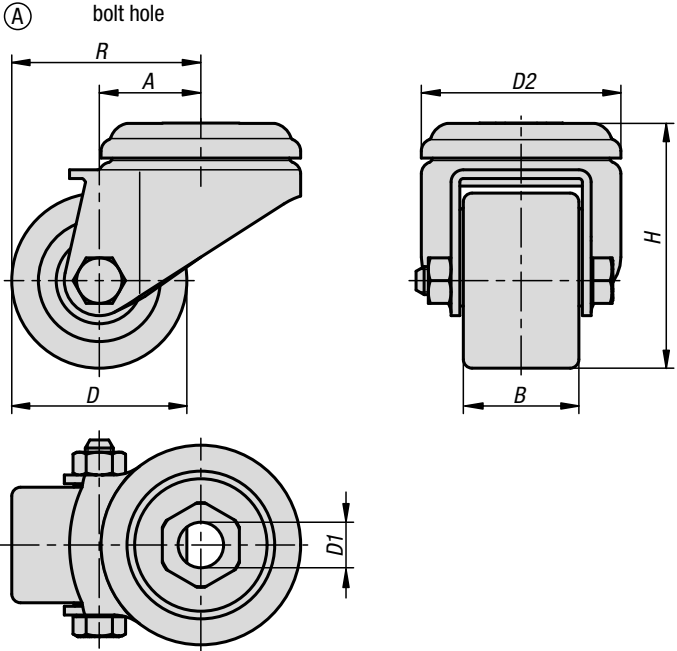
**Version:**  
 Housing press formed.  
 Swivel castor housing with 2x ball bearing in the swivel  
 head and ball shield.  
 Roller with two pressed-in ball bearings.

**Sample order:**  
 K1774.0352701

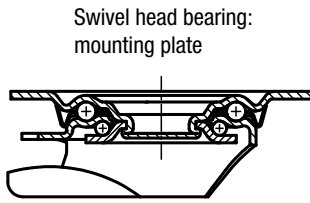
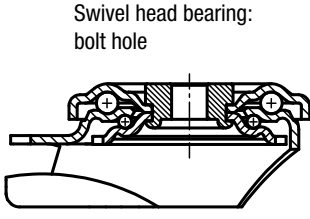
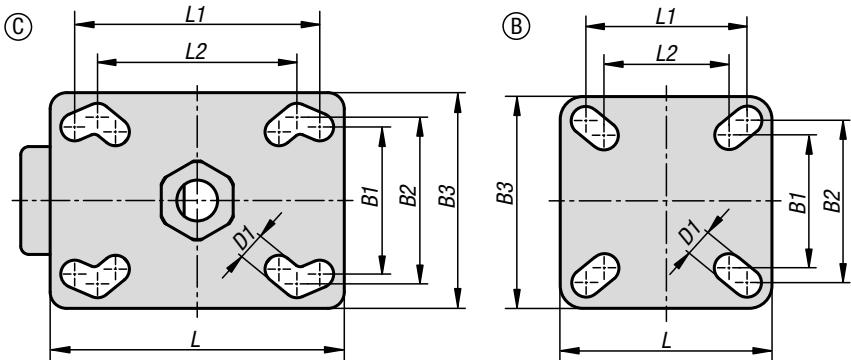
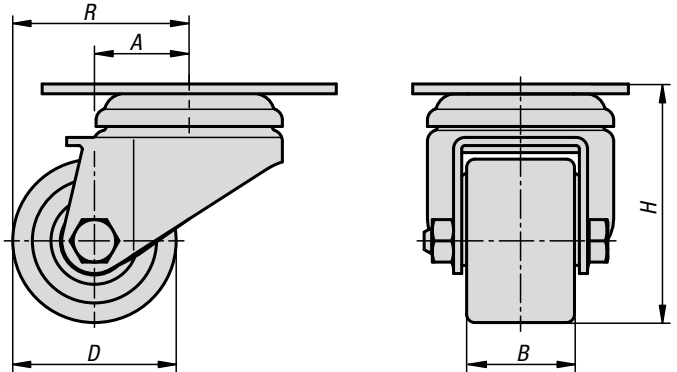
**Note:**  
 Wheel axle bolted.

Polyurethane roller: low-noise, low rolling resistance,  
 elastic, floor-protecting, very wear resistant, non-  
 staining.

Polyamide roller: very low roll and pivot resistance,  
 smooth running on smooth floors, very wear resistant.



mounting plate



## Swivel castors

compact version



## KIPP Swivel castors compact version

Order No.	Form	Item	Version 1	Wheel bearing	Material roller	A	B	B1	B2	B3	D	D1
K1774.0352701	A	Swivel Castor	without locking system	ball bearing	polyurethane	15	27	-	-	-	35	11
K1774.0352802	A	Swivel Castor	without locking system	ball bearing	polyamide	15	28	-	-	-	35	11
K1774.0503301	A	Swivel Castor	without locking system	ball bearing	polyurethane	29	33	-	-	-	50	13
K1774.0503202	A	Swivel Castor	without locking system	ball bearing	polyamide	29	32	-	-	-	50	13
K1774.0352711	B	Swivel Castor	without locking system	ball bearing	polyurethane	15	27	38	48	60	35	6,2
K1774.0352812	B	Swivel Castor	without locking system	ball bearing	polyamide	15	28	38	48	60	35	6,2
K1774.0503311	C	Swivel Castor	without locking system	ball bearing	polyurethane	29	33	45	51	66	50	8,5
K1774.0503212	C	Swivel Castor	without locking system	ball bearing	polyamide	29	32	45	51	66	50	8,5

Order No.	Form	Item	Version 1	Wheel bearing	Material roller	D2	H	L	L1	L2	R	Permissible load kg
K1774.0352701	A	Swivel Castor	without locking system	ball bearing	polyurethane	43	50	-	-	-	32,5	100
K1774.0352802	A	Swivel Castor	without locking system	ball bearing	polyamide	43	50	-	-	-	32,5	100
K1774.0503301	A	Swivel Castor	without locking system	ball bearing	polyurethane	57	70	-	-	-	54	150
K1774.0503202	A	Swivel Castor	without locking system	ball bearing	polyamide	57	70	-	-	-	54	150
K1774.0352711	B	Swivel Castor	without locking system	ball bearing	polyurethane	-	52	60	48	38	32,5	100
K1774.0352812	B	Swivel Castor	without locking system	ball bearing	polyamide	-	52	60	48	38	32,5	100
K1774.0503311	C	Swivel Castor	without locking system	ball bearing	polyurethane	-	73	90	75	61	54	150
K1774.0503212	C	Swivel Castor	without locking system	ball bearing	polyamide	-	73	90	75	61	54	150

## Swivel and fixed castors

steel plate, for sterile areas



**Material:**  
 Housing, steel plate.  
 Wheel rim, high-quality thermoplastic polyurethane.  
 Wheel tread, high-quality polyamide.

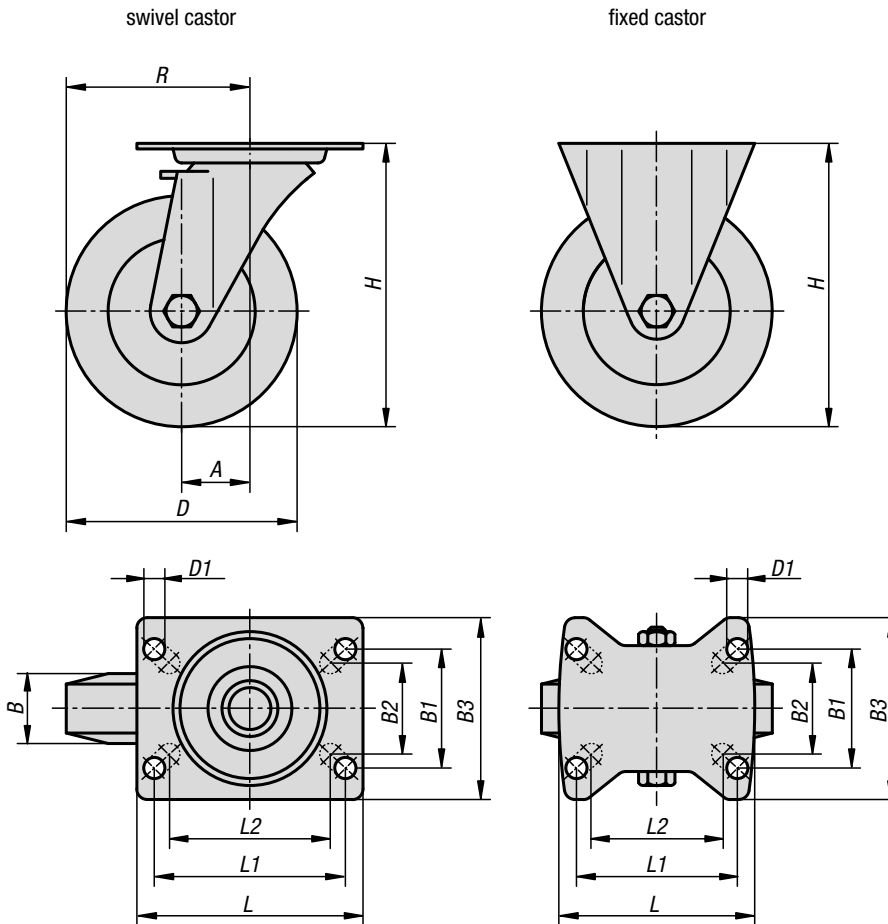
**Version:**  
 Housing press formed.  
 Double ball bearing in the castor head.  
 Plain bearing in wheels.

**Sample order:**  
 K1775.111250401

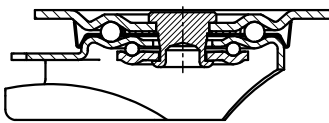
**Note:**  
 Wheel axle bolted.  
 Swivel and fixed castors with mounting plate.

**Application:**  
 Loads can be transported with low noise and maximum ease in area's with high hygiene requirements.

**Temperature range:**  
 -20°C to +70°C.



swivel head bearing:



### KIPP Swivel and fixed castors steel plate, for sterile areas

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
K1775.111000351	K1775.11100035	K1775.111000352	plain bearing	-/36/36	35	60	55	85	100	9
K1775.111250401	K1775.11125040	K1775.111250402	plain bearing	-/40/40	40	60	55	85	125	9
K1775.111600451	K1775.11160045	K1775.111600452	plain bearing	-/60/60	45	80	75	110	160	11
K1775.112000501	K1775.11200050	K1775.112000502	plain bearing	-/65/65	50	80	75	110	200	11

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	H	L	L1	L2	R	Permissible load kg
K1775.111000351	K1775.11100035	K1775.111000352	plain bearing	125	100	80	76	-/86/86	200
K1775.111250401	K1775.11125040	K1775.111250402	plain bearing	150	100	80	76	-/102,5/102,5	250
K1775.111600451	K1775.11160045	K1775.111600452	plain bearing	195	140	105	-	-/140/140	400
K1775.112000501	K1775.11200050	K1775.112000502	plain bearing	235	140	105	-	-/165/165	400

## Swivel and fixed castors

stainless steel, for sterile areas



**Material:**

Housing stainless steel 1.4301.  
Wheel rim, high-quality thermoplastic polyurethane.  
Wheel tread, high-quality polyamide.

**Version:**

Housing press formed.  
Double ball bearing in the castor head.  
Plain bearing in wheels.

**Sample order:**

K1790.111250401

**Note:**

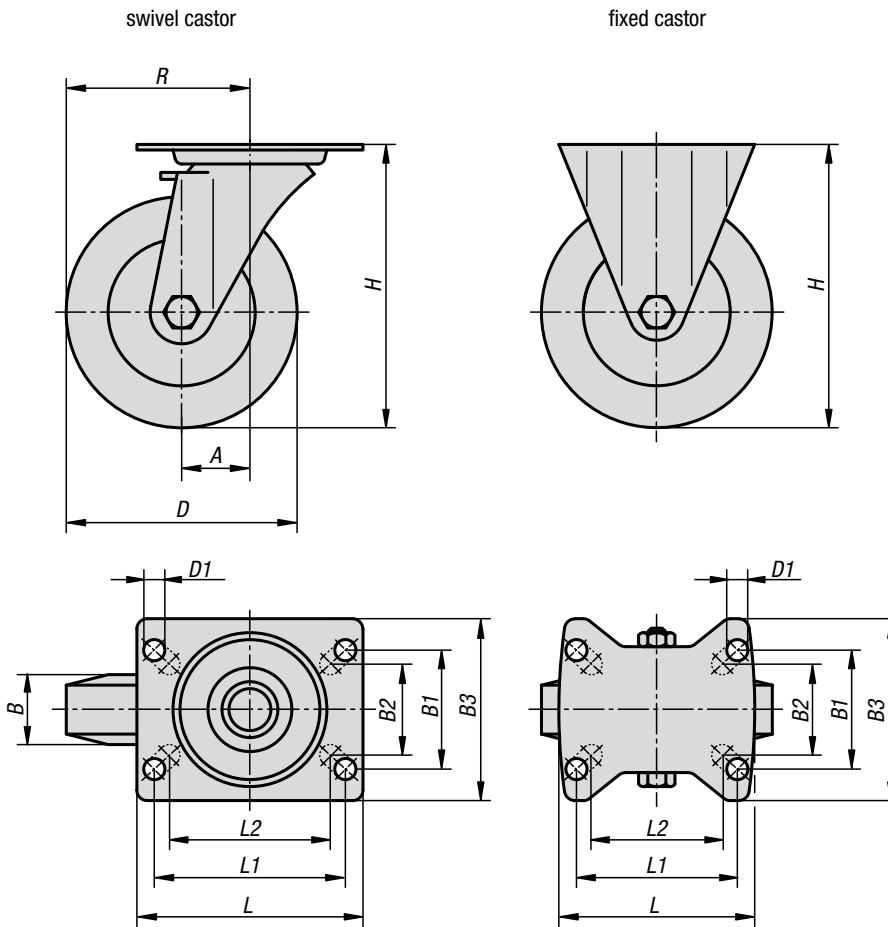
Wheel axle bolted.  
Swivel and fixed castors with mounting plate.

**Application:**

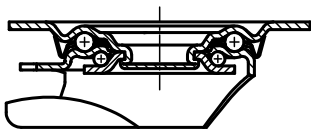
Loads can be transported with low noise and maximum ease in area's with high hygiene requirements.

**Temperature range:**

-20°C to +70°C.



swivel head bearing:



### KIPP Swivel and fixed castors stainless steel, for sterile areas

Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	B1	B2	B3	D	D1
K1790.211000351	K1790.21100035	K1790.211000352	plain bearing	-/30/30	35	60	55	85	100	9
K1790.211250401	K1790.21125040	K1790.211250402	plain bearing	-/40/40	40	60	55	85	125	9
K1790.211600451	K1790.21160045	K1790.211600452	plain bearing	-/60/60	45	80	75	110	160	11
K1790.212000501	K1790.21200050	K1790.212000502	plain bearing	-/65/65	50	80	75	110	200	11

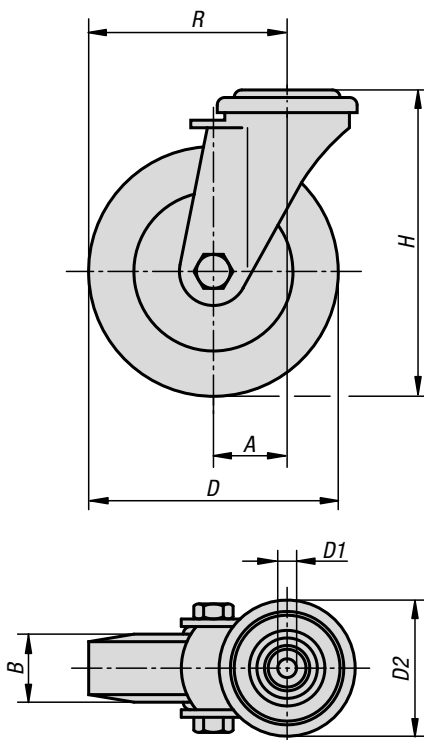
Order No. Fixed Castor without locking system	Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	H	L	L1	L2	R	Permissible load kg
K1790.211000351	K1790.21100035	K1790.211000352	plain bearing	125	100	80	76	-/80/80	200
K1790.211250401	K1790.21125040	K1790.211250402	plain bearing	150	100	80	76	-/102,5/102,5	250
K1790.211600451	K1790.21160045	K1790.211600452	plain bearing	195	140	105	-	-/140/140	400
K1790.212000501	K1790.21200050	K1790.212000502	plain bearing	235	140	105	-	-/165/165	400

## Swivel castors with bolt hole

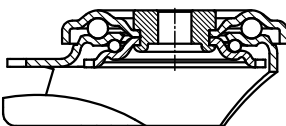
stainless steel, for sterile areas



swivel castor



swivel head bearing:



**Material:**

Housing stainless steel 1.4301.  
Wheel rim, high-quality thermoplastic polyurethane.  
Wheel tread, high-quality polyamide.

**Version:**

Housing press formed.  
Double ball bearing in the castor head.  
Plain bearing in wheels.

**Sample order:**

K1791.21125040

**Note:**

Wheel axle bolted.

**Application:**

Loads can be transported with low noise and maximum ease in area's with high hygiene requirements.

**Temperature range:**

-20°C to +70°C.



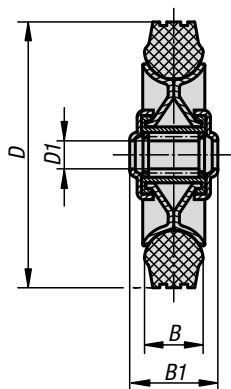
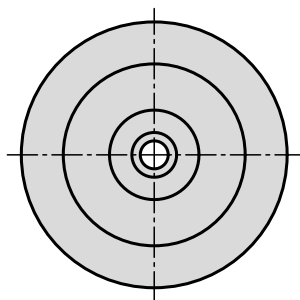
### KIPP Swivel castors with bolt hole stainless steel, for sterile areas

Order No. Swivel Castor without locking system	Order No. Swivel Castor with stop-fix locking system	Wheel bearing	A	B	D	D1	D2	H	R	Permissible load kg
K1791.21100035	K1791.211000352	plain bearing	36/36	35	100	13	70	125	86/86	150
K1791.21125040	K1791.211250402	plain bearing	40/40	40	125	13	70	150	102,5/102,5	150
K1791.21160045	K1791.211600452	plain bearing	54/54	45	160	13	88	195	134/134	300
K1791.21200050	K1791.212000502	plain bearing	54/54	50	200	13	88	235	154/154	300



## Wheels

rubber tyres on steel plate rims



**Material:**

Rim steel plate.  
Tyre solid rubber.

**Version:**

Rims trivalent passivated.  
Tyres black.

**Sample order:**

K1776.14038

**Note:**

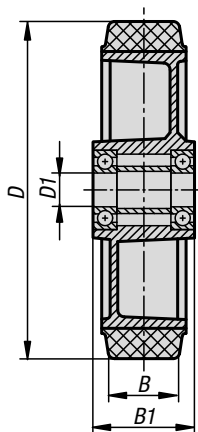
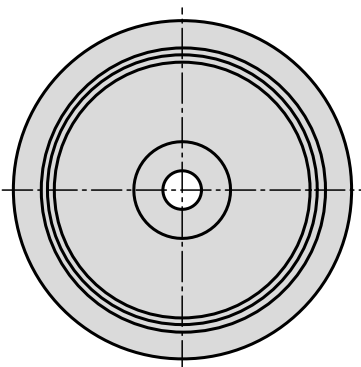
This special rim design is exceptionally ridged even with extreme shocks and impacts. Low rolling resistance.  
Temperature resistant from -30 °C to +80 °C.  
Suitable for K1761.

### KIPP Wheels rubber tyres on steel plate rims

Order No.	D	D1	B	B1	Permissible load kg
K1776.08025	80	12	25	35	50
K1776.10030	100	15	30	45	70
K1776.12538	125	15	37,5	45	100
K1776.14038	140	15	37,5	45	115
K1776.16040	160	20	40	60	135
K1776.18050	180	20	50	60	170
K1776.20050	200	20	50	60	205

# Wheels

rubber tyres on die-cast aluminium rims



**Material:**

Wheel rims die-cast aluminium.  
Tyre elastic solid rubber.

**Sample order:**

K1777.200501

**Note:**

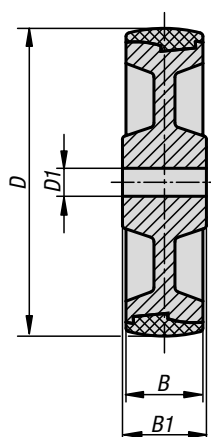
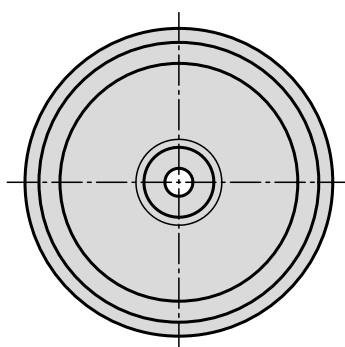
The tyre is vulcanised onto the rim. Wheels with elastic solid rubber tyres have a high wear resistance, low rolling resistance and excellent drive comfort. Application temperature from -30 °C to +80 °C. These wheels are used as the front wheels on fork-lift trucks. Other sizes on request.

**KIPP Wheels rubber tyres on die-cast aluminium rims**

Order No.	D	D1	B	B1	Permissible load kg
K1777.200501	200	20	35	60	450

## Wheels

polyamide with injection-moulded tread



**Material:**

Wheel body PA.

Tread thermoplastic polyurethane elastomer.

**Sample order:**

K1778.12535

**Note:**

Wheels with polyurethane tread have a high load capacity, resist abrasion, are gentle to floors, absorb shocks and vibration and are resistant to many chemicals and acids.

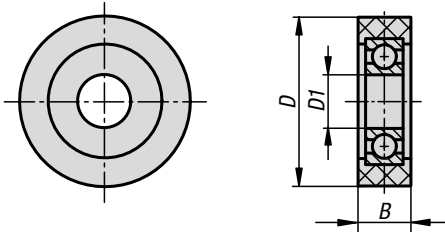
Temperature resistant from -30 °C to +80 °C.

Suitable as replacement rollers for the castors K1764.

**KIPP Wheels polyamide with injection-moulded tread**

Order No.	D	D1	B	B1	Permissible load kg
K1778.10035	100	15	35	45	200
K1778.12535	125	15	35	45	250
K1778.15040	150	20	40	60	400
K1778.20050	200	20	50	60	700

## Guide rollers



**Material:**

Tread light brown Extrathane® Shore 92A or white polyamide 6 Shore 80D.

**Sample order:**

K1779.05015

**Note:**

The tread is firmly bonded onto a ball bearing.

Extrathane tread: quiet running, low roll resistance, elastic, gentle on floors, very wear resistant, high cut and tear resistance, non-marking, non-staining.

Polyamide 6 tread: unbreakable, very low roll resistance, light running on smooth floors, very wear resistant.

Uses: conveyor belts, doors, etc.

Other sizes on request.

### KIPP Guide rollers

Order No.	Version 1	Material tread	Wheel bearing	D	D1	B	Ball bearing	Permissible load kg
K1779.03008	without locking system	extrathane	ball bearing	30	6	8	626 2RS	20
K1779.03514	without locking system	extrathane	ball bearing	35	12	14	6001 2RS	40
K1779.04020	without locking system	extrathane	ball bearing	40	10	20	6000 2RS	40
K1779.05015	without locking system	extrathane	ball bearing	50	10	15	6200 2RS	60
K1779.06020	without locking system	extrathane	ball bearing	60	17	20	6203 2RS	90
K1779.07020	without locking system	extrathane	ball bearing	70	25	20	6205 2RS	125
K1779.030081	without locking system	polyamide 6	ball bearing	30	6	8	626 2RS	35
K1779.035111	without locking system	polyamide 6	ball bearing	35	8	11	608 2RS	55
K1779.040201	without locking system	polyamide 6	ball bearing	40	10	20	6200 2RS	100
K1779.050151	without locking system	polyamide 6	ball bearing	50	10	15	6200 2RS	100
K1779.060201	without locking system	polyamide 6	ball bearing	60	17	20	6203 2RS	165
K1779.070201	without locking system	polyamide 6	ball bearing	70	25	20	6205 2RS	185

## Wheels

aluminium rims with injection-moulded tread



**Material:**

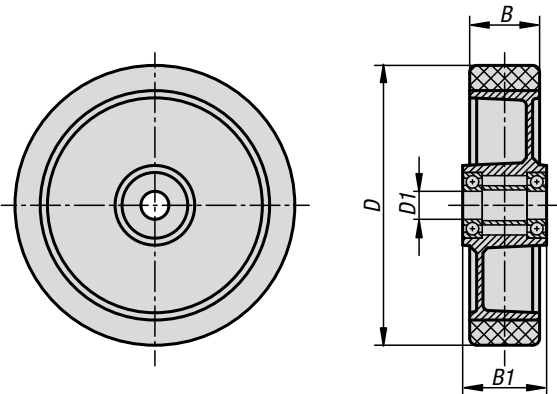
Wheel rim die-cast aluminium.  
Tread Extrathane®.

**Sample order:**

K1780.12540

**Note:**

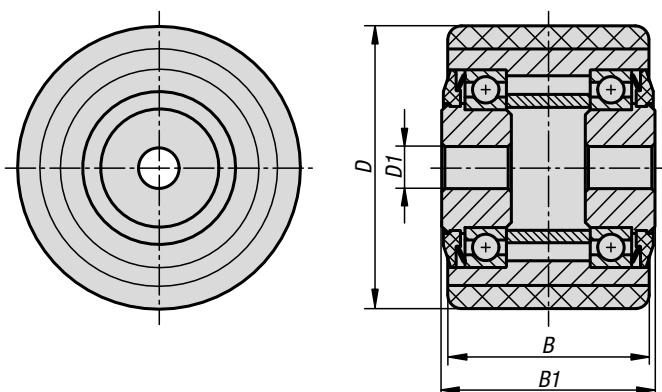
These wheels are elastic, abrasion-resistant, gentle to floors, low-noise and have low roll resistance. Suitable as replacement rollers for castors K1767.



### KIPP Wheels aluminium rims with injection-moulded tread

Order No.	D	D1	B	B1	Permissible load kg
K1780.10040	100	15	40	45	250
K1780.12540	125	15	40	45	350
K1780.16050	160	20	50	60	550
K1780.18050	180	20	50	60	600
K1780.20050	200	20	50	60	800

## Rollers heavy-load



**Material:**

Wheel body steel tube with ball bearing.  
Tread Extrathane® 92 Shore A.

**Sample order:**

K1781.0857520

**Note:**

The ball bearing is splashproof. The tread is firmly bonded. These rollers resist abrasion, are non-staining, gentle to floors, low-noise, elastic, have low roll resistance and have a particularly high elastic restoration after long standing high cut and tear resistance.

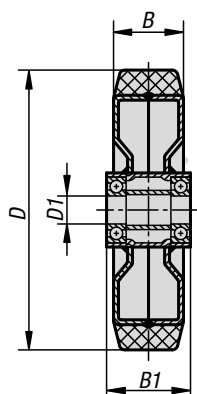
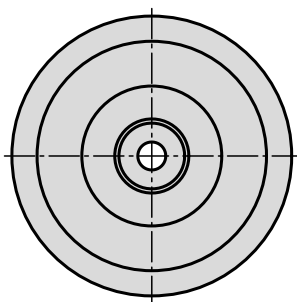
Uses: pallet trucks, forklift, etc.  
Other sizes on request.

### KIPP Rollers heavy-load

Order No.	D	D1	B	B1	Permissible load kg
K1781.0856020	85	20	60	65	450
K1781.0856025	85	25	60	65	450
K1781.0857520	85	20	75	80	570
K1781.0857525	85	25	75	80	570
K1781.0859525	85	25	95	100	720

## Wheels heavy-load

wheel body welded



**Material:**

Wheel body welded steel construction.  
Tread Extrathane®.

**Sample order:**

K1782.16050

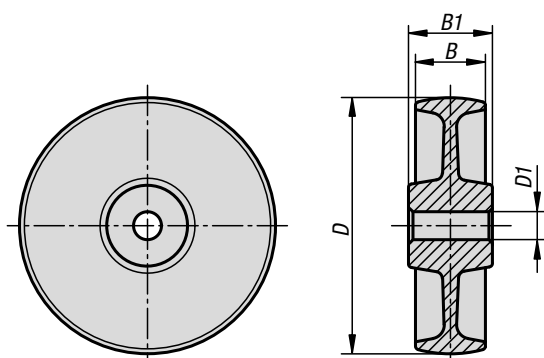
**Note:**

Extrathane treads are elastic, resist abrasion, gentle to floors, low-noise and have particularly high elastic restoration after long standing.  
Application temperature from -40 °C to +80 °C.  
Suitable as replacement rollers for the castors K1768 and K1769.

### KIPP Wheels heavy-load wheel body welded

Order No.	D	D1	B	B1	Permissible load kg
K1782.12550	125	20	50	60	500
K1782.16050	160	20	50	60	700
K1782.20050	200	20	50	60	1000
K1782.25060	250	25	60	70	1350

## Wheels polyamide



**Material:**  
Polyamide

**Sample order:**  
K1783.12540

**Note:**  
Polyamide wheels are unbreakable, non-corroding, shock and impact proof and chemical resistant. They also have high abrasion resistance and low roll resistance.  
Other sizes or with ball bearing on request.

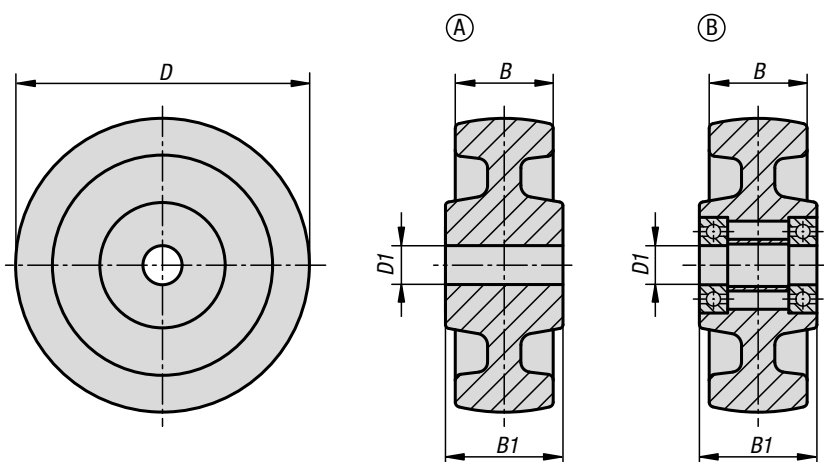
### KIPP Wheels polyamide

Order No.	D	D1	B	B1	Permissible load kg
K1783.07532	75	12	32	35	200
K1783.10037	100	15	37	45	280
K1783.12540	125	15	40	45	300
K1783.15050	150	20	50	60	400
K1783.20050	200	20	50	60	600



## Wheels polyamide

heavy-duty version



**Material:**  
Polyamide.

**Sample order:**  
K1784.10037

**Note:**  
Polyamide wheels are unbreakable, non-corroding, shock and impact proof and chemical resistant. They also have high abrasion resistance and low roll resistance. Suitable as replacement rollers for the castors K1772.

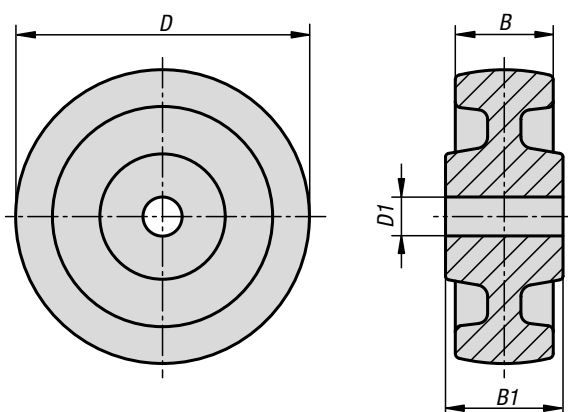
**Drawing reference:**  
Form A: plain bearing  
Form B: ball bearing

### KIPP Wheels polyamide heavy-duty version

Order No.	Form	Form-Type	D	D1	B	B1	Permissible load kg
K1784.07532	A	plain bearing	75	12	32	35	300
K1784.10037	A	plain bearing	100	15	37	45	500
K1784.12540	A	plain bearing	125	15	40	45	700
K1784.15050	A	plain bearing	150	20	50	60	800
K1784.20050	A	plain bearing	200	20	50	60	1500
K1784.25065	A	plain bearing	250	25	65	70	2000
K1784.075321	B	ball bearing	75	15	32	35	300
K1784.100371	B	ball bearing	100	15	37	45	500
K1784.125401	B	ball bearing	125	20	40	45	700
K1784.150501	B	ball bearing	150	20	50	60	800
K1784.200501	B	ball bearing	200	25	50	60	1500
K1784.250651	B	ball bearing	250	25	65	65	2000

## Thermoset wheels

heat-resistant



**Material:**

Thermoset PF.

**Version:**

Hardness Shore 90D, black.

Notch impact strength ca. 2.5 kJ/m<sup>2</sup>.

**Sample order:**

K1785.07528

**Note:**

Thermoset wheels for high-heat sectors, with exceptional running characteristics on smooth floors.

Excellent chemical resistance to many aggressive types of media. Typical uses are in hot plants, paint shops, bakers and smoking ovens.

Higher abrasion is unavoidable on rough floors. Running against curbs or bumps should be avoided due to the limited mechanical durability of phenolic resin.

**Temperature range:**

-35°C to +260°C, short-term up to +300°C.

### KIPP Thermoset wheels heat-resistant

Order No.	D	D1	B	B1	Permissible load kg
K1785.07528	75	8,4	28	31	100
K1785.10030	100	15,2	30	40	150
K1785.10038	100	15,2	38	42	200
K1785.12546	125	20,2	46	58	275
K1785.15050	150	20,2	50	58	300
K1785.20050	200	20,2	50	60	350
K1785.25050	250	20,2	50	58	350

## Elevating castors with foot

with bolt hole or mounting plate



**Material:**

Housing die-cast aluminium.  
Roller break resistant polyamide 6, Shore 70D.  
Foot hard rubber.

**Version:**

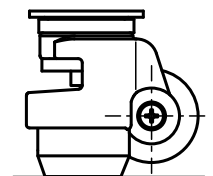
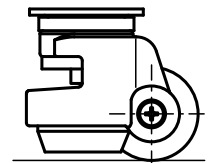
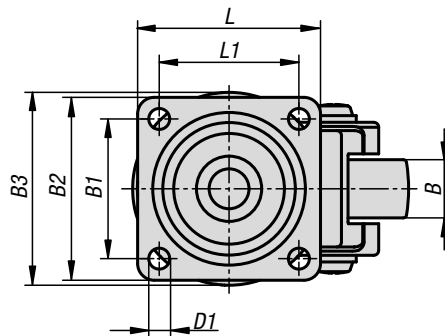
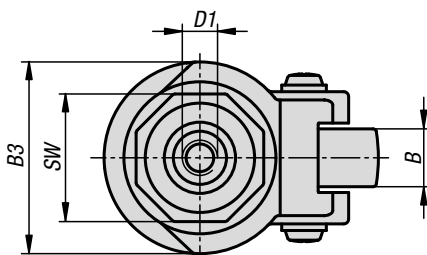
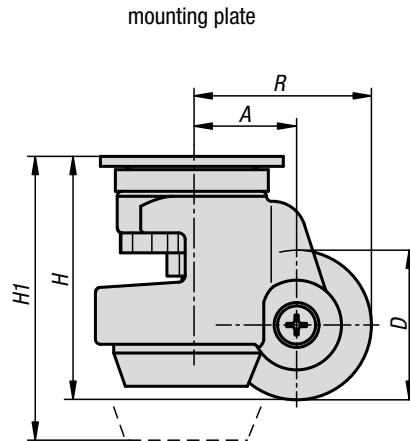
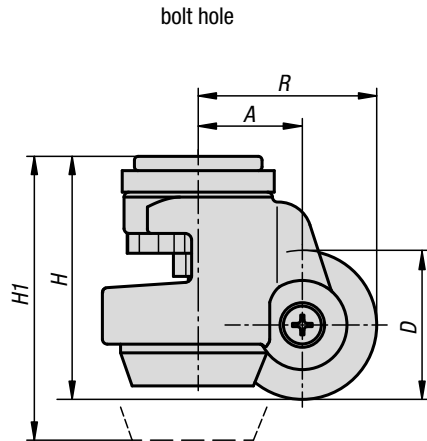
Housing, powder-coated, ivory.  
Steel parts trivalent blue passivated.  
Roller and foot black.

**Sample order:**

K1786.045180

**Note:**

Elevating castor with foot. With sealed ball bearing in the swivel head. Height adjustment with a 13 mm spanner or by the integrated adjustment screw. Wheel axle bolted.

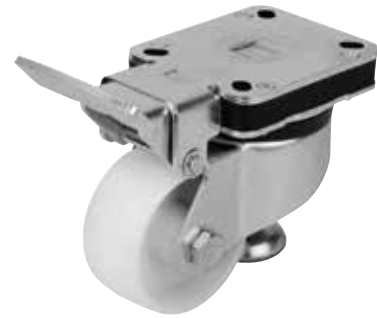


### KIPP Elevating castors with foot with bolt hole or mounting plate

Order No.	Version 1	Wheel bearing	D	D1	A	B	B1	B3	H	H1	L	L1	R	SW	Permissible load kg
K1786.045180	with locking system	plain bearing	45	M8x12	32	18	-	58	72	82	-	-	54,5	40	180
K1786.050220	with locking system	plain bearing	50	M12x15	38	22	-	72	84	94	-	-	63	46	250
K1786.063290	with locking system	plain bearing	63	M12x15	46	29	-	85	104	119	-	-	77,5	65	500
K1786.045181	with locking system	plain bearing	45	7	32	18	42	58	72	82	55	42	54,5	-	180
K1786.050221	with locking system	plain bearing	50	7	38	22	58	72	84	94	73	58	63	-	250
K1786.063291	with locking system	plain bearing	63	9	46	29	70	85	104	119	90	70	77,5	-	500

## Elevating castors

with integrated machine foot



**Material:**

Housing steel plate.  
 Roller break resistant polyamide 6, Shore 70D.  
 Machine foot steel.

**Version:**

Housing trivalent blue passivated.  
 Roller white.  
 Machine foot electro zinc-plated with grey rubber pads.

**Sample order:**

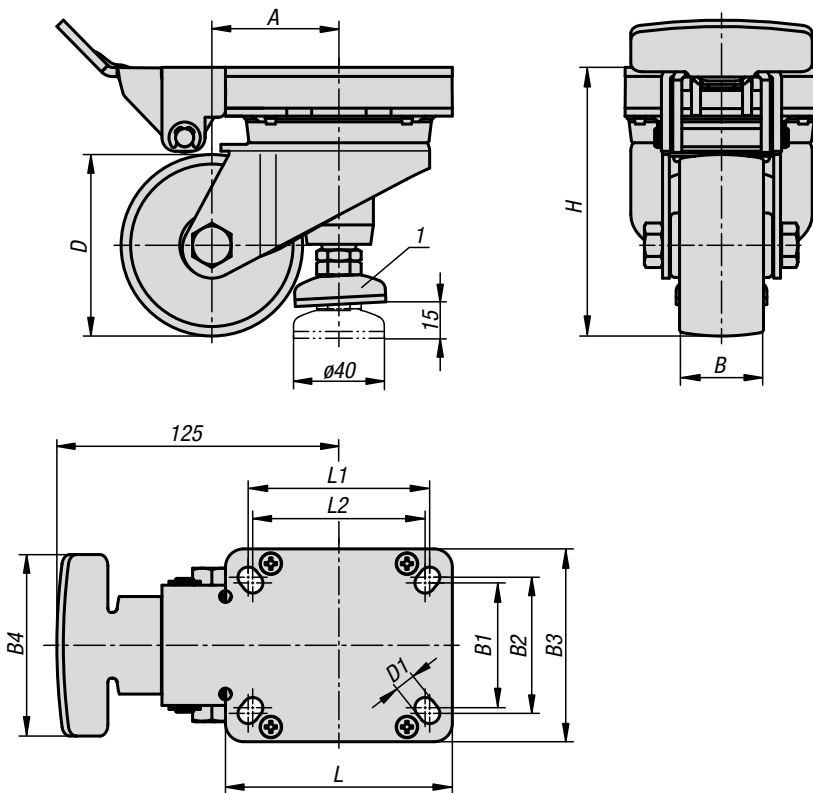
K1787.08037

**Note:**

Elevating castor swivel version with integrated levelling machine foot. With sealed ball bearing in the swivel head. Wheel axle bolted. The ergonomic form of the non-swivelling actuating lever enables ease of operation. The short actuation travel with simultaneous long plunger stroke and very high lifting force enables heavy weights to be easily raised and safely fixated.

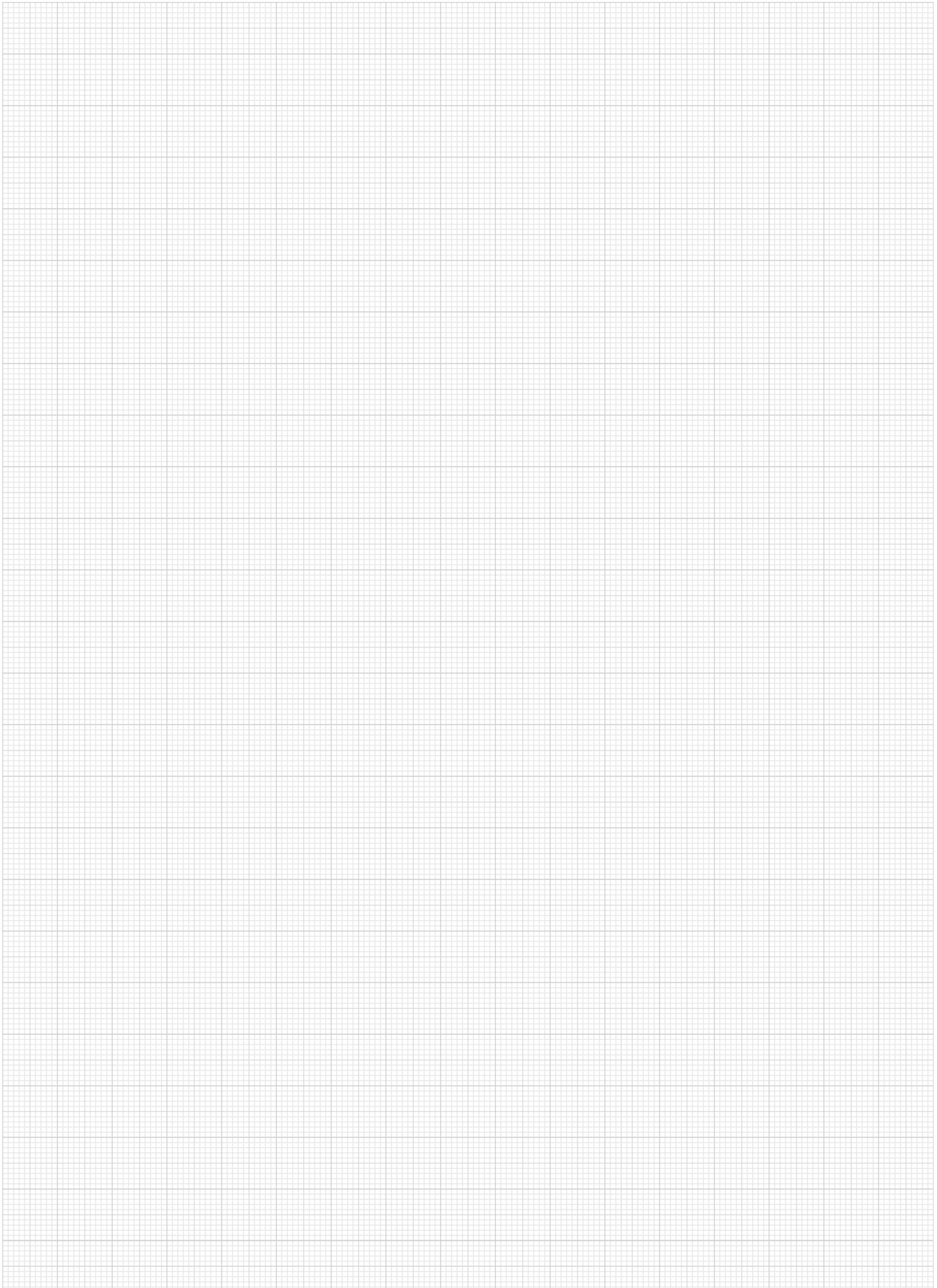
**Drawing reference:**

1) swivelling



**KIPP Elevating castors with integrated machine foot**

Order No.	Version 1	Wheel bearing	D	A	B	B1	B2	B3	B4	D1	H	L	L1	L2	Permissible load kg
K1787.08037	with locking system	plain bearing	80	56	37	55	60	80	85	9	120	100	80	76	230
K1787.10037	with locking system	plain bearing	100	65	37	55	60	80	85	9	142	100	80	76	230







**HEINRICH KIPP WERK GmbH & Co. KG**

Heubergstraße 2

72172 Sulz am Neckar

GERMANY

Tel. +49 7454 793-0

Fax +49 7454 793-33

[info@kipp.com](mailto:info@kipp.com)

[www.kipp.com](http://www.kipp.com)

