Clamping Technology | Standard Elements | Operating Parts

HEINRICH KIPP WERK

100 % VISION SINCE 1919

NEW PRODUCTS

100 % INNOVATION

I / 2021

TRUST IN KIPP
Manufacturing expertise with family tradition

For 100 years HEINRICH KIPP WERK has been a quality partner to industry. We offer a comprehensive product spectrum with more than 42,000 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 developement experience.

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

Nicolas Kipp Heinrich Kipp

PRODUCT SPECTRUM

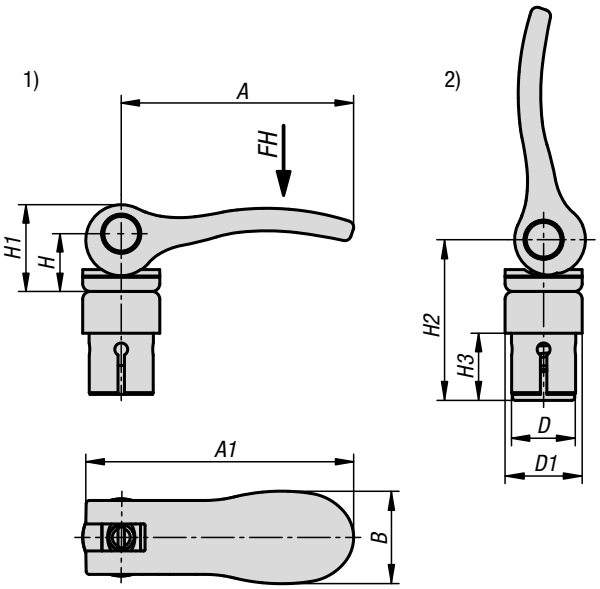
OPERATING PARTS I STANDARD ELEMENTS

CLAMPING TECHNOLOGY

SPECIAL SOLUTIONS

Mandrel collets, steel

with cam lever



With this patented clamping system, two components can be positioned without tools via form fit and then clamped together by frictional connection. The clamping range and the holding force is adjustable.

Material:
Handles, cast aluminium, EN AC-46200.
Thrust washer, fibreglass reinforced PA 66 GF 35 X plastic.
Hinge pin stainless steel.
Tie rod, washer, collet, disc spring, steel.

Version:
Grips fine structure powder-coated, black or red RAL 3003.
Thrust washer, black.
Washer blue passivated.
Tie rod and collet black oxidised.

Sample order:
K1500.1001

Note:
It is recommended that the cam lever is in a vertical position when the collet is positioned in the bore.
The function of the clamping system was tested in bores with tolerance H7. All values for retaining force are guide values and are given without safety factor.
The suitability for the respective application must be checked by the user.

Advantages:
Two components can be joined together without tools. The components are perfectly centred in the clamped state. The compact design means that the mandrel collet with cam lever can even be used in blind holes. There are no specific dimensional requirements for the holes. Additionally, the surfaces and design do not need to have any specific properties.

Functional principle:
The clamping system is inserted in the hole in the open state. At the beginning of the locking process, the mandrel collet expands and clamps itself in the lower component. The integrated disc spring assembly creates a positive down force that also clamps the two components to one another at the end of the locking process.

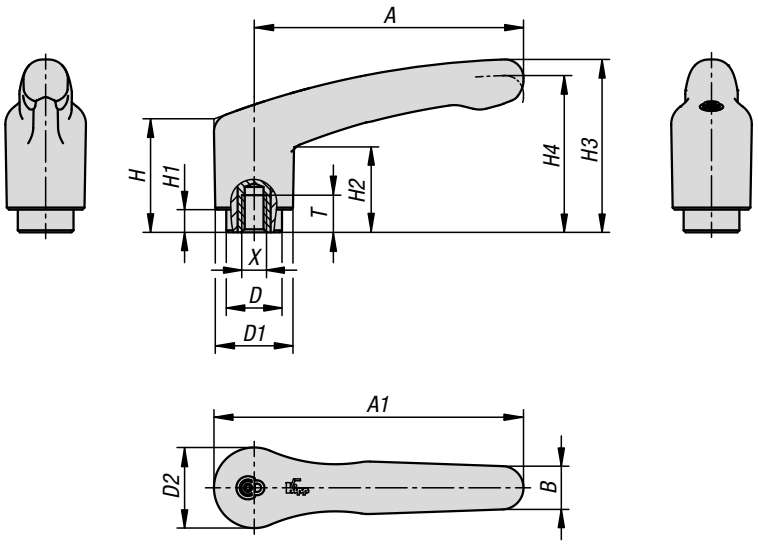
Drawing reference:
1) actuated
2) not actuated

KIPP Mandrel collets, steel with cam lever

Order No. black	Order No. red	A	A1	B	D	D1	H	H1	H2	H3	Hand force FH N	Holding force F kN
K1500.1001	**K1500.1004**	36,2	41,7	14,4	10	12	9	13	25	10,4	90	1,35
K1500.1202	**K1500.1205**	52,3	59,1	18	12	15,4	11,2	17	30	12,6	100	3
K1500.1403	**K1500.1406**	70,4	79,2	21,5	14	18,1	14,5	22	35	14,7	120	3,3

Clamping levers, plastic with safety function

with female thread



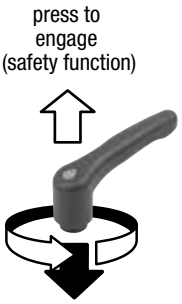
Clamping levers with safety function prevent changes in the locking point through accidental opening or closing.
In the default position, the lever can be freely rotated and has no connection to the clamping point. The grip lever only engages when pushed down and the clamp can the loosened or tightened.
A spring sets the lever automatically into the default position when released.

Material:
Handle and insert made from reinforced plastic.
Bush brass.

Sample order:
K1553.2051

Advantages:
Protection against accidental opening or closing.
Closed grip contour without protruding edges.

On request:
Special versions.

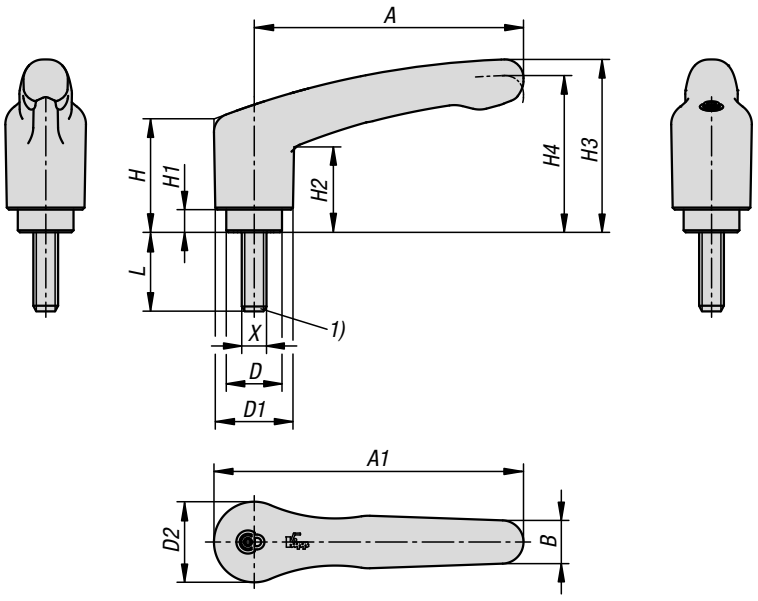


KIPP Clamping levers, plastic with safety function with female thread

Order No.	Main colour	X	T	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	No. of teeth
K1553.2051	black grey RAL 7021	M5	7,5	13,5	18,8	19,5	27,4	5,5	20,7	41,9	38	65,2	75	10,5	12
K1553.2061	black grey RAL 7021	M6	9	13,5	18,8	19,5	27,4	5,5	20,7	41,9	38	65,2	75	10,5	12
K1553.2081	black grey RAL 7021	M8	9	13,5	18,8	19,5	27,4	5,5	20,7	41,9	38	65,2	75	10,5	12
K1553.20584	red RAL 3020	M5	7,5	13,5	18,8	19,5	27,4	5,5	20,7	41,9	38	65,2	75	10,5	12
K1553.20684	red RAL 3020	M6	9	13,5	18,8	19,5	27,4	5,5	20,7	41,9	38	65,2	75	10,5	12
K1553.20884	red RAL 3020	M8	9	13,5	18,8	19,5	27,4	5,5	20,7	41,9	38	65,2	75	10,5	12

Clamping levers, plastic with safety function

with male thread



Clamping levers with safety function prevent changes in the locking point through accidental opening or closing.
In the default position, the lever can be freely rotated and has no connection to the clamping point. The grip lever only engages when pushed down and the clamp can the loosened or tightened.
A spring sets the lever automatically into the default position when released.

Material:
Handle and insert reinforced plastic.
Screw steel 5.8.

Version:
Steel trivalent blue passivated.

Sample order:
K1553.2051X20 (include length L)

Advantages:
Protection against accidental opening or closing.
Closed grip contour without protruding edges.

On request:
Special versions.

Drawing reference:
1) flat point DIN 78

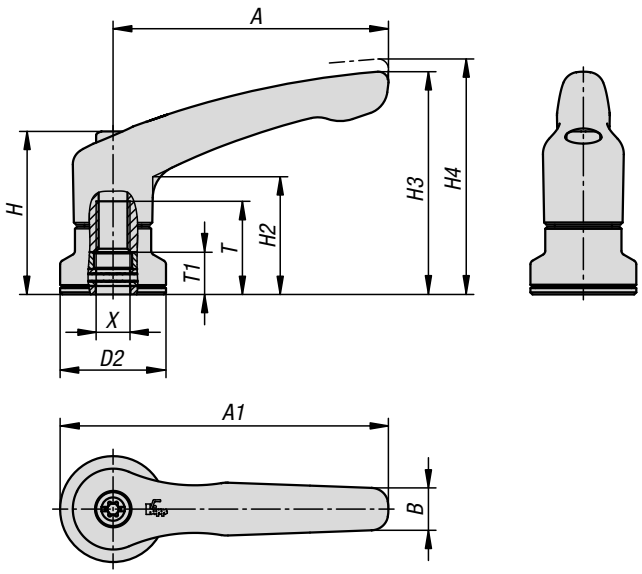
press to
engage
(safety function)

KIPP Clamping levers, plastic with safety function with male thread

Order No.	Main colour	X	D	D1	D2	H	H1	H2	H3	H4	A	A1	B	L	No. of teeth
K1553.2051X	black grey RAL 7021	M5	13,5	18,8	19,5	27,4	5,5	20,7	41,9	38	65,2	75	10,5	10/20/30/40	12
K1553.2061X	black grey RAL 7021	M6	13,5	18,8	19,5	27,4	5,5	20,7	41,9	38	65,2	75	10,5	10/20/30/40	12
K1553.2081X	black grey RAL 7021	M8	13,5	18,8	19,5	27,4	5,5	20,7	41,9	38	65,2	75	10,5	10/20/30/40	12
K1553.20584X	red RAL 3020	M5	13,5	18,8	19,5	27,4	5,5	20,7	41,9	38	65,2	75	10,5	10/20/30/40	12
K1553.20684X	red RAL 3020	M6	13,5	18,8	19,5	27,4	5,5	20,7	41,9	38	65,2	75	10,5	10/20/30/40	12
K1553.20884X	red RAL 3020	M8	13,5	18,8	19,5	27,4	5,5	20,7	41,9	38	65,2	75	10,5	10/20/30/40	12

Zinc clamping lever

with female thread and clamping force intensifier



By using clamping levers with integrated clamping force intensifier, the clamping force can be increased by up to 75% compared to standard clamping levers.

Furthermore, this product can also be used by persons with limited hand strength (e.g. in rehabilitation) to achieve comparable clamping forces with less effort. Less effort is also needed to loosen the clamping lever.

The increase in clamping force is achieved by the integral needle roller thrust bearing, which generates very low surface friction on a rigid contact surface during clamping. The hardened thrust washers are designed for high clamping forces and the bearing with its high load rating guarantees a long service life.

The clamped component is permanently protected by the large, stationary contact surface. A washer is no longer required.

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

Advantages:
Significant increase of the clamping force with the same tightening torque.
High quality axial needle bearing with high load rating and long service life.
The component surface is protected by the stationary lower ring

On request:
Other colours.

Version:
Handle plastic-coated or high-gloss trivalent passivated
Steel parts, black oxidised.
Axial needle bearing with hardened and ground thrust washer.

Sample order:
K1599.5121 (clamping lever, black satin finish)

Note:
Δ Add the desired lever colour here.
Standard colours are:
black satin finish, orange RAL 2004, ruby red RAL 3003, silver metallic, high gloss chromed.

Method of operation:
In the default position, the handle is engaged with the threaded insert through a toothed ring. By lifting the handle, it can be repositioned and re-engaged in the toothed ring by spring force.

Application:
Machine, equipment and plant construction, rehabilitation sector.

Zinc clamping lever

with female thread and clamping force intensifier

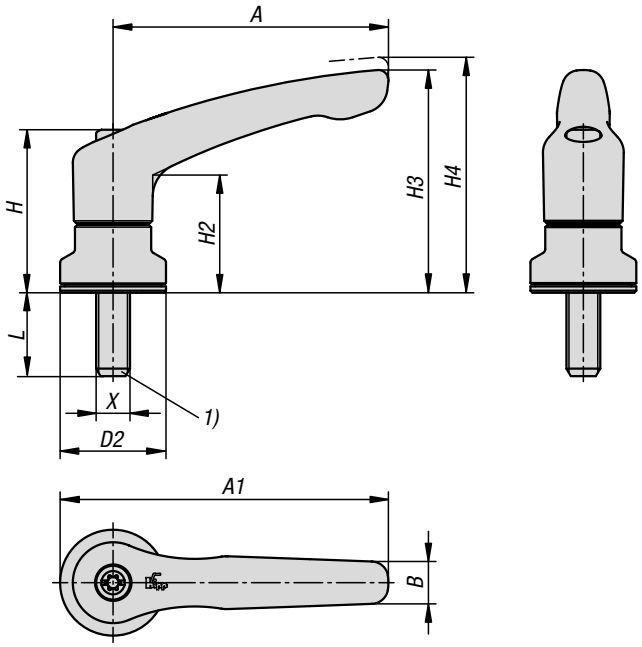
black satin finish Δ = 1	orange Δ = 2	ruby red Δ = 27	silver metallic Δ = 3	high-gloss chromed Δ = 6
	 RAL 2004	 RAL 3003		

KIPP Zinc clamping lever with female thread and clamping force intensifier

Order No.	X	D2	H	H2	H3	H4	A	A1	B	T	T1
K1599.208Δ	M8	25	38,5	27,7	52,6	55,6	65	77,5	10	22	10
K1599.310Δ	M10	30	47	33,9	64,6	68,6	80	95	11,2	24	10
K1599.410Δ	M10	30	53,1	37,2	72,8	77,3	95	110	13,2	27	10
K1599.512Δ	M12	35	59,1	41,9	83	87,5	110	127,5	15,4	33	10
K1599.310Δ	M10	30	47	33,9	64,4	68,6	80	95	11,2	24	10
K1599.310Δ	M10	30	47	33,9	4,4	68,6	80	95	11,2	24	10

Zinc clamping lever

with male thread and clamping force intensifier



By using clamping levers with integrated clamping force intensifier, the clamping force can be increased by up to 75% compared to standard clamping levers.

Furthermore, this product can also be used by persons with limited hand strength (e.g. in rehabilitation) to achieve comparable clamping forces with less effort. Less effort is also needed to loosen the clamping lever.

The increase in clamping force is achieved by the integral needle roller thrust bearing, which generates very low surface friction on a rigid contact surface during clamping. The hardened thrust washers are designed for high clamping forces and the bearing with its high load rating guarantees a long service life.

The clamped component is permanently protected by the large, stationary contact surface. A washer is no longer required.

Due to the modular construction many special designs are available.

Application:
Machine, equipment and plant construction, rehabilitation sector.

Advantages:
Significant increase of the clamping force with the same tightening torque.
High quality axial needle bearing with high load rating and long service life.
The component surface is protected by the stationary lower ring

On request:
Other colours and thread lengths.

Drawing reference:
1) flat point DIN 78

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

Version:
Handle plastic-coated or high-gloss trivalent passivated
Steel parts, black oxidised.
Axial needle bearing with hardened and ground thrust washer.

Sample order:
K1599.5121X20 (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, ruby red RAL 3003, silver metallic, high gloss chromed.

Method of operation:
In the default position, the handle is engaged with the threaded insert through a toothed ring. By lifting the handle, it can be repositioned and re-engaged in the toothed ring by spring force.

Zinc clamping lever

with male thread and clamping force intensifier

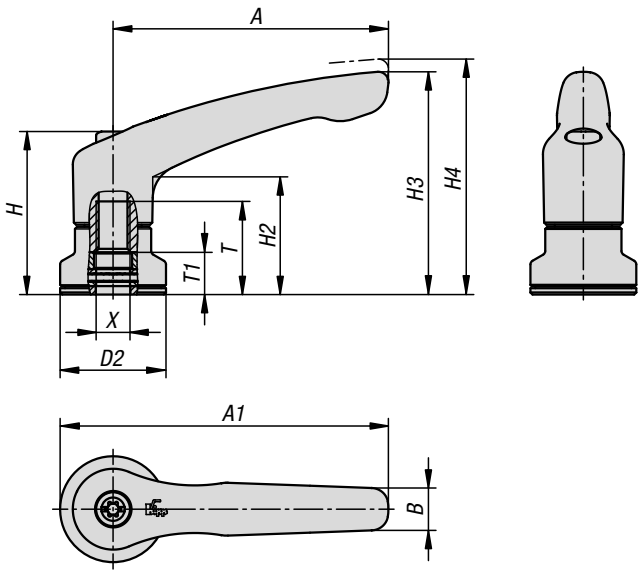
black satin finish Δ = 1	orange Δ = 2	ruby red Δ = 27	silver metallic Δ = 3	high-gloss chromed Δ = 6
	 RAL 2004	 RAL 3003		

KIPP Zinc clamping lever with male thread and clamping force intensifier

Order No.	X	D2	H	H2	H3	H4	A	A1	B	L
K1599.208ΔX	M8	25	38,5	27,7	52,6	55,6	65	77,5	10	10/20/30/40
K1599.310ΔX	M10	30	47	33,9	64,6	68,6	80	95	11,2	15/30/40/50
K1599.410ΔX	M10	30	53,1	37,2	72,8	77,3	95	110	13,2	20/30/40/50
K1599.512ΔX	M12	35	59,1	41,9	83	87,5	110	127,5	15,4	20/30/40/50

Zinc clamping lever

with female thread and clamping force intensifier



By using clamping levers with integrated clamping force intensifier, the clamping force can be increased by up to 75% compared to standard clamping levers.

Furthermore, this product can also be used by persons with limited hand strength (e.g. in rehabilitation) to achieve comparable clamping forces with less effort. Less effort is also needed to loosen the clamping lever.

The increase in clamping force is achieved by the integral needle roller thrust bearing, which generates very low surface friction on a rigid contact surface during clamping. The hardened thrust washers are designed for high clamping forces and the bearing with its high load rating guarantees a long service life.

The clamped component is permanently protected by the large, stationary contact surface. A washer is no longer required.

Material:
Handle die-cast zinc DIN EN 12844.
Steel parts stainless steel 1.4305.

Application:
Machine, equipment and plant construction, rehabilitation sector.

Advantages:
Significant increase of the clamping force with the same tightening torque.
High quality axial needle bearing with high load rating and long service life.
The component surface is protected by the stationary lower ring

On request:
Other colours.

Version:
Handle plastic-coated or high-gloss trivalent passivated
Steel parts bright.
Axial needle bearing with hardened and ground thrust washer.

Sample order:
K1626.5121 (clamping lever, black satin finish)

Note:
Δ Add the desired lever colour here.
Standard colours are:
black satin finish, orange RAL 2004, ruby red RAL 3003, silver metallic, high gloss chromed.

Method of operation:
In the default position, the handle is engaged with the threaded insert through a toothed ring. By lifting the handle, it can be repositioned and re-engaged in the toothed ring by spring force.

Zinc clamping lever

with female thread and clamping force intensifier

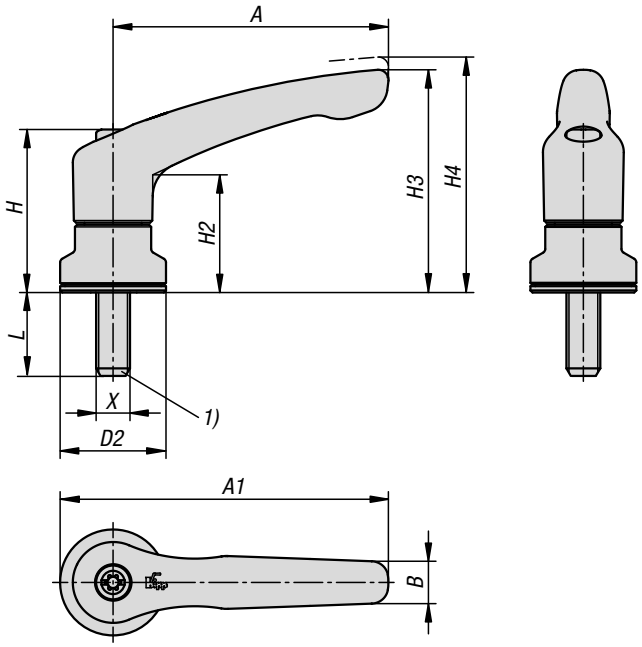
black satin finish Δ = 1	orange Δ = 2	ruby red Δ = 27	silver metallic Δ = 3	high-gloss chromed Δ = 6
	 RAL 2004	 RAL 3003		

KIPP Zinc clamping lever with female thread and clamping force intensifier

Order No.	X	D2	H	H2	H3	H4	A	A1	B	T	T1
K1626.208Δ	M8	25	38,5	27,7	52,6	55,6	65	77,5	10	22	10
K1626.310Δ	M10	30	47	33,9	64,6	68,6	80	95	11,2	24	10
K1626.410Δ	M10	30	53,1	37,2	72,8	77,3	95	110	13,2	27	10
K1626.512Δ	M12	35	59,1	41,9	83	87,5	110	127,5	15,4	33	10
K1626.310Δ	M10	30	47	33,9	64,4	68,6	80	95	11,2	24	10
K1626.310Δ	M10	30	47	33,9	4,4	68,6	80	95	11,2	24	10

Zinc clamping lever

with male thread and clamping force intensifier



By using clamping levers with integrated clamping force intensifier, the clamping force can be increased by up to 75% compared to standard clamping levers.

Furthermore, this product can also be used by persons with limited hand strength (e.g. in rehabilitation) to achieve comparable clamping forces with less effort. Less effort is also needed to loosen the clamping lever.

The increase in clamping force is achieved by the integral needle roller thrust bearing, which generates very low surface friction on a rigid contact surface during clamping. The hardened thrust washers are designed for high clamping forces and the bearing with its high load rating guarantees a long service life.

The clamped component is permanently protected by the large, stationary contact surface. A washer is no longer required.

Due to the modular construction many special designs are available.

Material:
Handle die-cast zinc DIN EN 12844.
Steel parts stainless steel 1.4305.

Application:
Machine, equipment and plant construction, rehabilitation sector.

Advantages:
Significant increase of the clamping force with the same tightening torque.
High quality axial needle bearing with high load rating and long service life.
The component surface is protected by the stationary lower ring

On request:
Other colours and thread lengths.

Drawing reference:
1) flat point DIN 78

Version:
Handle plastic-coated or high-gloss trivalent passivated
Steel parts bright.
Axial needle bearing with hardened and ground thrust washer.

Sample order:
K1626.5121X20 (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, ruby red RAL 3003, silver metallic, high gloss chromed.

Method of operation:
In the default position, the handle is engaged with the threaded insert through a toothed ring. By lifting the handle, it can be repositioned and re-engaged in the toothed ring by spring force.

Zinc clamping lever

with male thread and clamping force intensifier

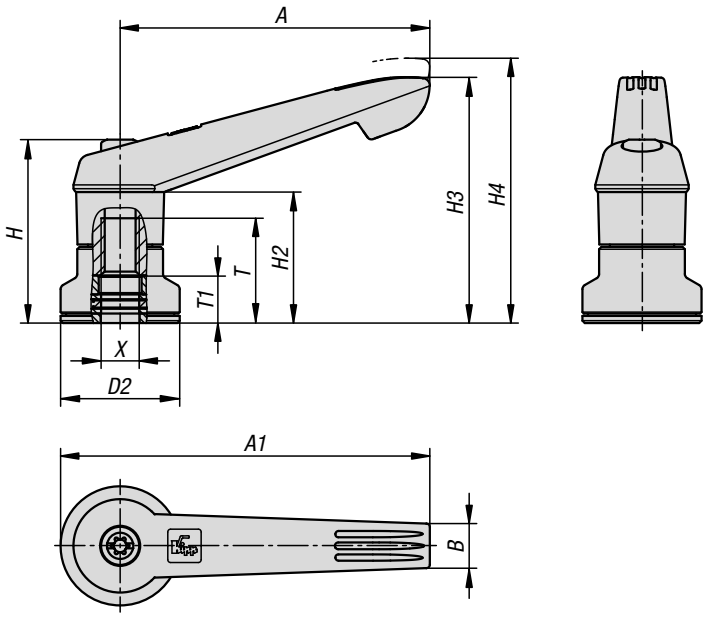
black satin finish Δ = 1	orange Δ = 2	ruby red Δ = 27	silver metallic Δ = 3	high-gloss chromed Δ = 6
	 RAL 2004	 RAL 3003		

KIPP Zinc clamping lever with male thread and clamping force intensifier

Order No.	X	D2	H	H2	H3	H4	A	A1	B	L
K1626.208ΔX	M8	25	38,5	27,7	52,6	55,6	65	77,5	10	10/20/30/40
K1626.310ΔX	M10	30	47	33,9	64,6	68,6	80	95	11,2	15/30/40/50
K1626.410ΔX	M10	30	53,1	37,2	72,8	77,3	95	110	13,2	20/30/40/50
K1626.512ΔX	M12	35	59,1	41,9	83	87,5	110	127,5	15,4	20/30/40/50

Plastic clamping lever

with female thread and clamping force intensifier



By using clamping levers with integrated clamping force intensifier, the clamping force can be increased by up to 75% compared to standard clamping levers.

Furthermore, this product can also be used by persons with limited hand strength (e.g. in rehabilitation) to achieve comparable clamping forces with less effort. Less effort is also needed to loosen the clamping lever.

The increase in clamping force is achieved by the integral needle roller thrust bearing, which generates very low surface friction on a rigid contact surface during clamping. The hardened thrust washers are designed for high clamping forces and the bearing with its high load rating guarantees a long service life.

The clamped component is permanently protected by the large, stationary contact surface. A washer is no longer required.

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

Advantages:
Significant increase of the clamping force with the same tightening torque.
High quality axial needle bearing with high load rating and long service life.
The component surface is protected by the stationary lower ring

On request:
Other colours.

Version:
Steel parts black oxidised.
Axial needle bearing with hardened and ground thrust washer.

Sample order:
K1597.20886 (lever colour signal green)

Note:
Δ Add the desired grip colour here.

Method of operation:
The handle lever is engaged in the toothed insert by means of a toothed ring when not actuated, enabling the thread to be tightened or loosened. By lifting the handle, it can be repositioned and re-engaged in the toothed ring by spring force.

Application:
Machine, equipment and plant construction, rehabilitation sector.

Plastic clamping lever

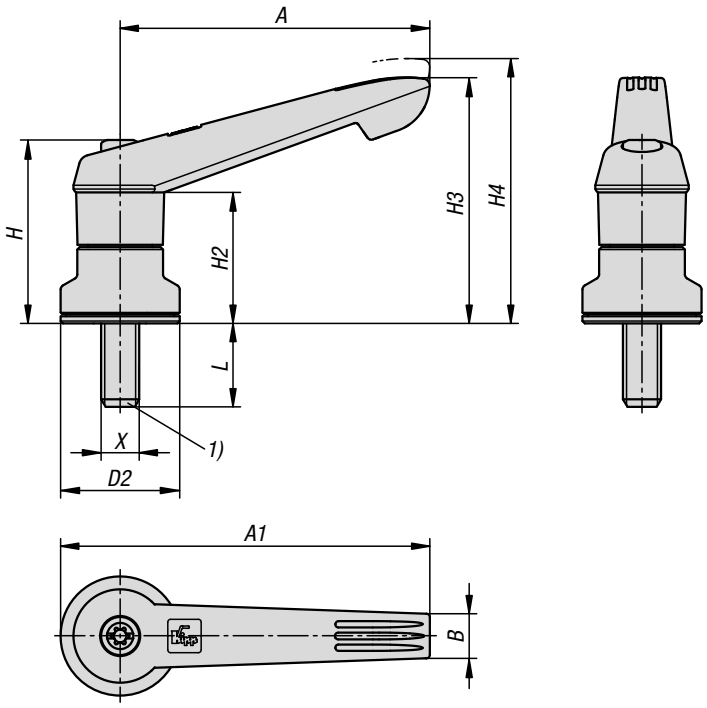
with female thread and clamping force intensifier

KIPP Plastic clamping lever with female thread and clamping force intensifier

Order No.	X	D2	H	H2	H3	H4	A	A1	B	T	T1
K1597.208Δ	M8	25	38,5	27,5	51,6	55,6	65	77,5	9,4	22	10
K1597.310Δ	M10	30	47	34	63,4	67,9	80	95	11,1	24	10
K1597.410Δ	M10	30	53,1	36	71,1	76,1	95,4	110,4	13,2	27	10
K1597.512Δ	M12	35	59,1	43	82,8	87,8	109,9	127,4	15,6	33	10

Plastic clamping lever

with male thread and clamping force intensifier



By using clamping levers with integrated clamping force intensifier, the clamping force can be increased by up to 75% compared to standard clamping levers.

Furthermore, this product can also be used by persons with limited hand strength (e.g. in rehabilitation) to achieve comparable clamping forces with less effort. Less effort is also needed to loosen the clamping lever.

The increase in clamping force is achieved by the integral needle roller thrust bearing, which generates very low surface friction on a rigid contact surface during clamping. The hardened thrust washers are designed for high clamping forces and the bearing with its high load rating guarantees a long service life.

The clamped component is permanently protected by the large, stationary contact surface. A washer is no longer required.

Due to the modular construction many special designs are available.

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

Version:
Steel parts black oxidised.
Axial needle bearing with hardened and ground thrust washer.

Sample order:
K1597.2081X40 (lever black grey; include length L)

Note:
Δ Add the desired grip colour here.

Method of operation:
The handle lever is engaged in the toothed insert by means of a toothed ring when not actuated, enabling the thread to be tightened or loosened. By lifting the handle, it can be repositioned and re-engaged in the toothed ring by spring force.

Application:
Machine, equipment and plant construction, rehabilitation sector.

Advantages:
Significant increase of the clamping force with the same tightening torque.
High quality axial needle bearing with high load rating and long service life.
The component surface is protected by the stationary lower ring

On request:
Special versions.
Other colours and thread lengths.

Drawing reference:
1) flat point DIN 78

Plastic clamping lever

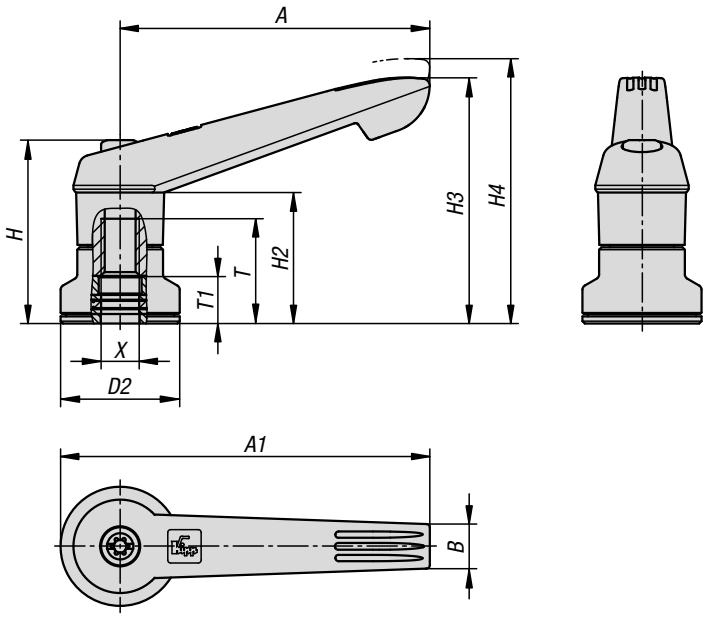
with male thread and clamping force intensifier

KIPP Plastic clamping lever with male thread and clamping force intensifier

Order No.	X	D2	H	H2	H3	H4	A	A1	B	L
K1597.208ΔX	M8	25	38,5	27,5	51,6	55,6	65	77,5	9,4	10/20/30/40
K1597.310ΔX	M10	30	47	34	63,4	67,9	80	95	11,1	15/30/40/50
K1597.410ΔX	M10	30	53,1	36	71,1	76,1	95,4	110,4	13,2	20/30/40/50
K1597.512ΔX	M12	35	59,1	43	82,8	87,8	109,9	127,4	15,6	20/30/40/50

Plastic clamping lever

with female thread and clamping force intensifier



By using clamping levers with integrated clamping force intensifier, the clamping force can be increased by up to 75% compared to standard clamping levers.

Furthermore, this product can also be used by persons with limited hand strength (e.g. in rehabilitation) to achieve comparable clamping forces with less effort. Less effort is also needed to loosen the clamping lever.

The increase in clamping force is achieved by the integral needle roller thrust bearing, which generates very low surface friction on a rigid contact surface during clamping. The hardened thrust washers are designed for high clamping forces and the bearing with its high load rating guarantees a long service life.

The clamped component is permanently protected by the large, stationary contact surface. A washer is no longer required.

Material:
Handle fibreglass reinforced plastic with die-cast zinc toothed ring.
Steel parts stainless steel 1.4305.

Version:
Steel parts bright.
Axial needle bearing with hardened and ground thrust washer.

Sample order:
K1598.20886 (lever colour signal green)

Note:
Δ Add the desired grip colour here.

Method of operation:
The handle lever is engaged in the toothed insert by means of a toothed ring when not actuated, enabling the thread to be tightened or loosened. By lifting the handle, it can be repositioned and re-engaged in the toothed ring by spring force.

Application:
Machine, equipment and plant construction, rehabilitation sector.

Advantages:
Significant increase of the clamping force with the same tightening torque.
High quality axial needle bearing with high load rating and long service life.
The component surface is protected by the stationary lower ring

On request:
Other colours.

Plastic clamping lever

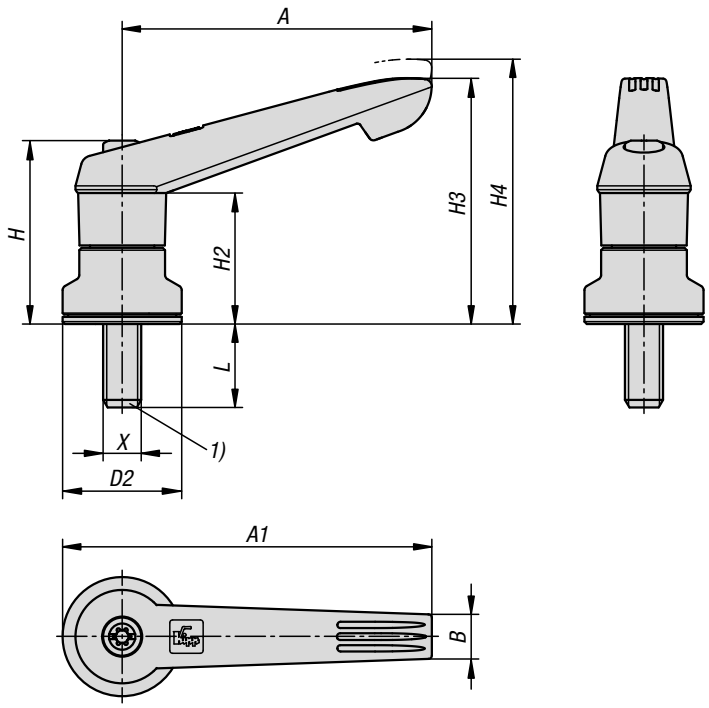
with female thread and clamping force intensifier

KIPP Plastic clamping lever with female thread and clamping force intensifier

Order No.	X	D2	H	H2	H3	H4	A	A1	B	T	T1
K1598.208Δ	M8	25	38,5	27,5	51,6	55,6	65	77,5	9,4	22	10
K1598.310Δ	M10	30	47	34	63,4	67,9	80	95	11,1	24	10
K1598.410Δ	M10	30	53,1	36	71,1	76,1	95,4	110,4	13,2	27	10
K1598.512Δ	M12	35	59,1	43	82,8	87,8	109,9	127,4	15,6	33	10

Plastic clamping lever

with male thread and clamping force intensifier



By using clamping levers with integrated clamping force intensifier, the clamping force can be increased by up to 75% compared to standard clamping levers.

Furthermore, this product can also be used by persons with limited hand strength (e.g. in rehabilitation) to achieve comparable clamping forces with less effort. Less effort is also needed to loosen the clamping lever.

The increase in clamping force is achieved by the integral needle roller thrust bearing, which generates very low surface friction on a rigid contact surface during clamping. The hardened thrust washers are designed for high clamping forces and the bearing with its high load rating guarantees a long service life.

The clamped component is permanently protected by the large, stationary contact surface. A washer is no longer required.

Due to the modular construction many special designs are available.

Material:
Handle fibreglass reinforced plastic with die-cast zinc toothed ring.
Steel parts stainless steel 1.4305.

Version:
Steel parts bright.
Axial needle bearing with hardened and ground thrust washer.

Sample order:
K1598.2081X40 (lever black grey; include length L)

Note:
Δ Add the desired grip colour here.

Method of operation:
The handle lever is engaged in the toothed insert by means of a toothed ring when not actuated, enabling the thread to be tightened or loosened. By lifting the handle, it can be repositioned and re-engaged in the toothed ring by spring force.

Application:
Machine, equipment and plant construction, rehabilitation sector.

Advantages:
Significant increase of the clamping force with the same tightening torque.
High quality axial needle bearing with high load rating and long service life.
The component surface is protected by the stationary lower ring

On request:
Special versions.
Other colours and thread lengths.

Drawing reference:
1) flat point DIN 78

Plastic clamping lever

with male thread and clamping force intensifier

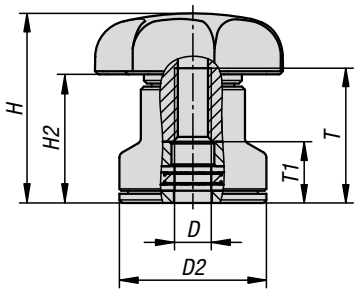
KIPP Plastic clamping lever with male thread and clamping force intensifier

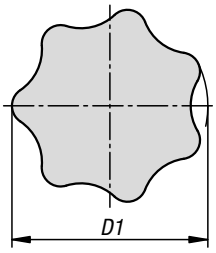
Order No.	X	D2	H	H2	H3	H4	A	A1	B	L
K1598.410ΔX	M10	30	53,1	36	71,1	76,1	95,4	110,4	13,2	30/20/40/50
K1598.512ΔX	M12	35	59,1	43	82,8	87,8	109,9	127,4	15,6	20/40/30/50
K1598.208ΔX	M8	25	38,5	27,5	51,6	55,6	65	77,5	9,4	10/20/30/40
K1598.310ΔX	M10	30	47	34	63,4	67,9	80	95	11,1	15/30/40/50

Plastic star grip

with clamping force intensifier

Ⓚ





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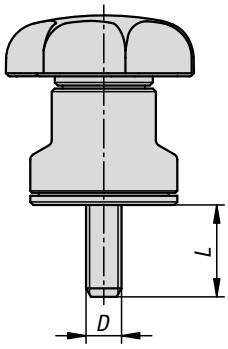


Application:
Machine, equipment and plant construction, rehabilitation sector.

Advantages:
Significant increase of the clamping force with the same tightening torque.
High quality axial needle bearing with high load rating and long service life.
The component surface is protected by the stationary lower ring

On request:
Other thread lengths.

Drawing reference:
Form K: tapped bush
Form L: external thread

Star grips with integrated clamping force intensifier can achieve double the clamping force compared to standard star grips.

Furthermore, this product can also be used by persons with limited hand strength (e.g. in rehabilitation) to achieve comparable clamping forces with less effort. Less effort is also needed to loosen the star grip.

The increase in clamping force is achieved by the integral needle roller thrust bearing, which generates very low surface friction on a rigid contact surface during clamping. The hardened thrust washers are designed for high clamping forces and the bearing with its high load rating guarantees a long service life.

The clamped component is permanently protected by the large, stationary contact surface. A washer is no longer required.

Due to the modular construction many special designs are available.

Material:
Star grip polyamidethermoplastic, black.
Steel parts 5.8 steel or stainless steel 1.4305.

Version:
Metal parts trivalent blue passivated steel or bright stainless steel.
Axial needle bearing with hardened and ground thrust washer.

Sample order:
K1596.406X20 (include length L.)

KIPP Plastic star grip with clamping force intensifier, Form K

Order No. steel	Order No. stainless steel	Form	D	D1	D2	H	H2	T	T1
K1596.206	**K1596.306**	K	M6	32	24	31	21	22	10
K1596.208	**K1596.308**	K	M8	40	25	35	23	22	10
K1596.210	**K1596.310**	K	M10	50	30	42	27	27	10
K1596.212	**K1596.312**	K	M12	63	35	47	28	27	10

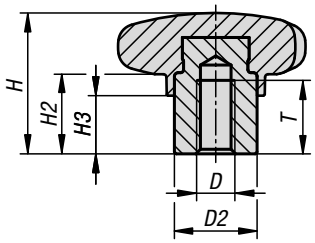
KIPP Plastic star grip with clamping force intensifier, Form L

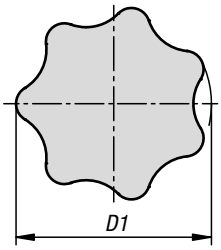
Order No. steel	Order No. stainless steel	Form	D	D1	D2	H	H2	L
K1596.406X	**K1596.506X**	L	M6	32	24	31	21	10/20
K1596.408X	**K1596.508X**	L	M8	40	25	35	23	15/30
K1596.410X	**K1596.510X**	L	M10	50	30	42	27	20/30
K1596.412X	**K1596.512X**	L	M12	63	35	47	28	20/30

Star grips, plastic

with protruding steel bush

Ⓚ





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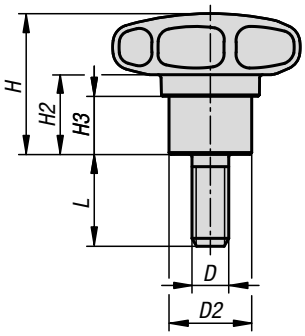


The thermoset star grip is distinguished by its closed grip contour. The contact surface of the protruding steel bush is vertical to the thread axis and ensures a firm screw connection.

Material:
Thermoset PF 31.
Steel grade 5.8 or stainless steel 1.4305.

Version:
Thermoset black, high-gloss polished.
Metal parts trivalent blue passivated steel or bright stainless steel.

Sample order:
K1514.43206X10 (include length L)

Advantages:
Wear resistant contact surface
Closed grip contour

On request:
Form H: bush with blind hole

Drawing reference:
Form K: tapped bush
Form L: external thread

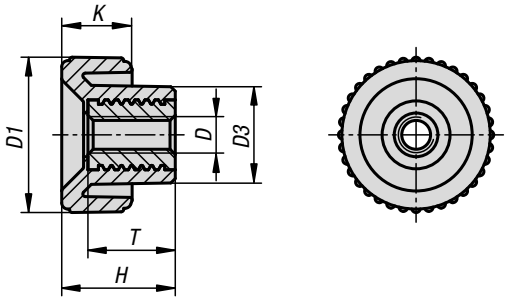
KIPP Star grips plastic with protruding steel bush, internal thread, Form K

Order No. steel	Order No. stainless steel	Form	D	D1	D2	H	H2	H3	T
K1514.23206	**K1514.33206**	K	M6	32	13,5	23	13	9,5	12
K1514.24006	**K1514.34006**	K	M6	40	13,5	25	13	10	12
K1514.24008	**K1514.34008**	K	M8	40	13,5	25	13	10	12
K1514.25008	**K1514.35008**	K	M8	50	19	32	17	12	17
K1514.25010	**K1514.35010**	K	M10	50	19	32	17	12	17
K1514.26310	**K1514.36310**	K	M10	63	19	40	20	15	17
K1514.26312	**K1514.36312**	K	M12	63	19	40	20	15	17

KIPP Star grips plastic with protruding steel bush, external thread, Form L

Order No. steel	Order No. stainless steel	Form	D	D1	D2	H	H2	H3	L
K1514.43206X	**K1514.53206X**	L	M6	32	13,5	23	13	9,5	10/15/20/25/30
K1514.44008X	**K1514.54008X**	L	M8	40	13,5	25	13	10	15/20/25/30/40/50
K1514.45010X	**K1514.55010X**	L	M10	50	19	32	17	12	20/25/30/40/50/60
K1514.46312X	**K1514.56312X**	L	M12	63	19	40	20	15	20/25/30/40/50/60

Plastic knurled nuts



Material:
Reinforce polyamide thermoplastic, black grey.
Tapped bush 5.8 steel or stainless steel 1.4305.

Version:
Tapped bush blue passivated steel or
bright stainless steel.

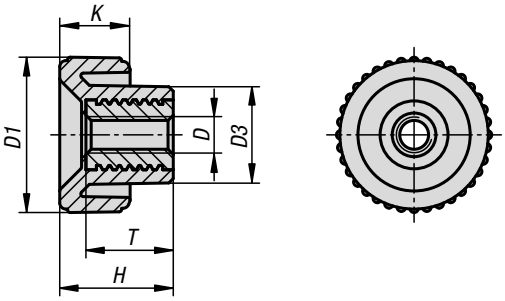
Sample order:
K1472.1804

Advantages:
The knurled nuts can be tightened or loosened without tools.
Suitable for manual fixing and clamping.
Various thread sizes.

KIPP Plastic knurled nuts

Order No. steel	Order No. stainless steel	D	D1	D3	H	K	T
K1472.1804	**K1472.18042**	M4	18	11	13	8	10
K1472.2005	**K1472.20052**	M5	20	13,6	15	9	10
K1472.2006	**K1472.20062**	M6	20	13,6	15	9	10
K1472.2505	**K1472.25052**	M5	25	14	17	10	10
K1472.2506	**K1472.25062**	M6	25	14	17	10	10
K1472.3208	**K1472.32082**	M8	32	18	22	13	14
K1472.3210	**K1472.32102**	M10	32	18	22	13	14
K1472.4008	**K1472.40082**	M8	40	19	25	14	14
K1472.4010	**K1472.40102**	M10	40	19	25	14	14

Antistatic plastic knurled nuts



Material:
Reinforced polyamide thermoplastic, graphite grey.
Screw steel 5.8.

Version:
Tapped bush trivalent blue passivated.

Sample order:
K1472.11180424

Application:
Sensitive electrical or electronic equipment, components and devices (ESD sensitive elements) may be damaged or destroyed by electrostatic discharges (ESD) in the immediate vicinity.
Electrostatic discharges can come from people or through handling ESD sensitive components (e.g. during production, assembly, transport, storage etc).
Electrically conductive products which conform to DIN EN 61340-5-1 are essential within electronic environments to prevent an electrostatic discharge.
These products can be used for ESD applications or in ESD protection areas (EPA) in accordance with DIN EN 61340-5-1.

Safety:
These ESD products can also be used for devices, components and protection systems in areas with high risk of explosion.
Use of these ESD products prevents the occurrence of electrostatic spark discharges, eliminating the potential ignition of gases and dusts which could lead to explosions in enclosed spaces.
Manufacturers and operators must use and conform to ATEX directives for the protection of persons working in areas with high risk of explosion.
These ESD products are certified by TÜV-Süd in relation to their electrical discharge capability.

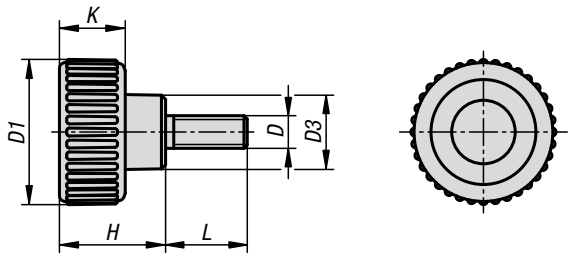
Target groups:
Device manufacturers required to conform to ATEX product directive 2014/34/EU.
Operators required to conform to ATEX worker protection directive 1999/92/EC.

Advantages:
To protect sensitive electrical or electronic parts, components and devices.
Areas of application: electrical assembly, equipment construction according to ATEX directives.
Made from a special electrically conductive plastic.
ESD operating parts have been specially designed for use in ESD protected areas.
The knurled nuts can be tightened or loosened without tools.

KIPP Antistatic plastic knurled nuts

Order No.	D	D1	D3	H	K	T
K1472.11180424	M4	18	11	13	8	10
K1472.11200524	M5	20	13,6	15	9	10
K1472.11250624	M6	25	14	17	10	10
K1472.11320824	M8	32	18	22	13	14
K1472.11401024	M10	40	19	25	14	14

Plastic thumb screws



Material:
Reinforced polyamide thermoplastic, black grey.
Threaded pin 5.8 steel or stainless steel 1.4305.

Version:
Threaded pin trivalent blue passivated steel, bright stainless steel.

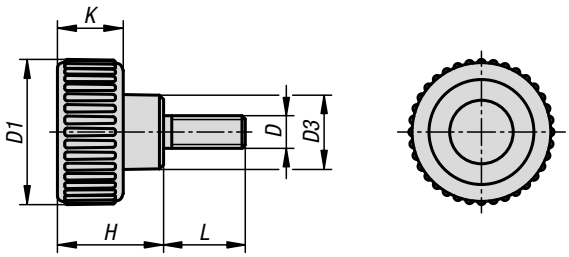
Sample order:
K1473.2005X20 (include length L)

Advantages:
The knurled screws can be tightened or loosened without tools.
Suitable for manual fixing and clamping.
Various thread sizes and lengths.

KIPP Plastic thumb screws

Order No. steel	Order No. stainless steel	D	D1	D3	H	K	L
K1473.1804X	**K1473.18042X**	M4	18	9	13	8	10/15
K1473.2005X	**K1473.20052X**	M5	20	10,6	15	9	10/15/20
K1473.2506X	**K1473.25062X**	M6	25	12	17	10	10/15/20/30/40
K1473.3208X	**K1473.32082X**	M8	32	14	22	13	15/20/30/40
K1473.4010X	**K1473.40102X**	M10	40	18	25	14	20/30/40

Antistatic plastic thumb screws



Material:
Reinforced polyamide thermoplastic, graphite grey.
Screw steel 5.8.

Version:
Screw blue passivated.

Sample order:
K1473.11200524X20 (include length L)

Application:
Sensitive electrical or electronic equipment, components and devices (ESD sensitive elements) may be damaged or destroyed by electrostatic discharges (ESD) in the immediate vicinity.
Electrostatic discharges can come from people or through handling ESD sensitive components (e.g. during production, assembly, transport, storage etc).
Electrically conductive products which conform to DIN EN 61340-5-1 are essential within electronic environments to prevent an electrostatic discharge.
These products can be used for ESD applications or in ESD protection areas (EPA) in accordance with DIN EN 61340-5-1.

Advantages:
To protect sensitive electrical or electronic parts, components and devices.
Areas of application: electrical assembly, equipment construction according to ATEX directives.
Made from a special electrically conductive plastic.
ESD operating parts have been specially designed for use in ESD protected areas.
The knurled screws can be tightened or loosened without tools.

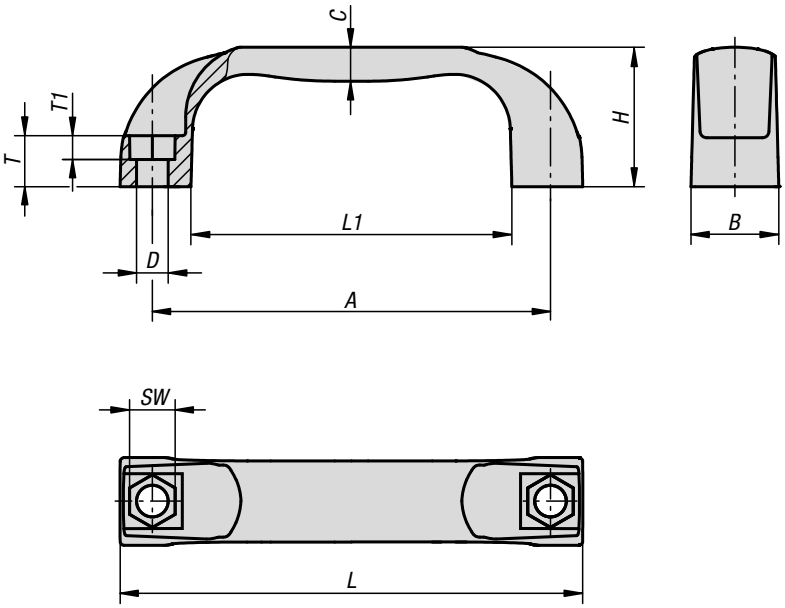
Safety:
These ESD products can also be used for devices, components and protection systems in areas with high risk of explosion.
Use of these ESD products prevents the occurrence of electrostatic spark discharges, eliminating the potential ignition of gases and dusts which could lead to explosions in enclosed spaces.
Manufacturers and operators must use and conform to ATEX directives for the protection of persons working in areas with high risk of explosion.
These ESD products are certified by TÜV-Süd in relation to their electrical discharge capability.

Target groups:
Device manufacturers required to conform to ATEX product directive 2014/34/EU.
Operators required to conform to ATEX worker protection directive 1999/92/EC.

KIPP Antistatic plastic thumb screws

Order No.	D	D1	D3	H	K	L
K1473.11180424X	M4	18	9	13	8	10/15
K1473.11200524X	M5	20	10,6	15	9	10/15/20
K1473.11250624X	M6	25	12	17	10	10/15/20
K1473.11320824X	M8	32	14	22	13	15/20/30
K1473.11401024X	M10	40	18	25	14	20/30

Pull handles



Material:
Glass-bead reinforced thermoplastic PA (polyamide) or fiberglass reinforced PP (polypropylene).

Version:
Black grey

Sample order:
K0190.113208

Note:
The fastening hole is designed to accept the head of a cap or hexagon head screw or a hexagon nut.

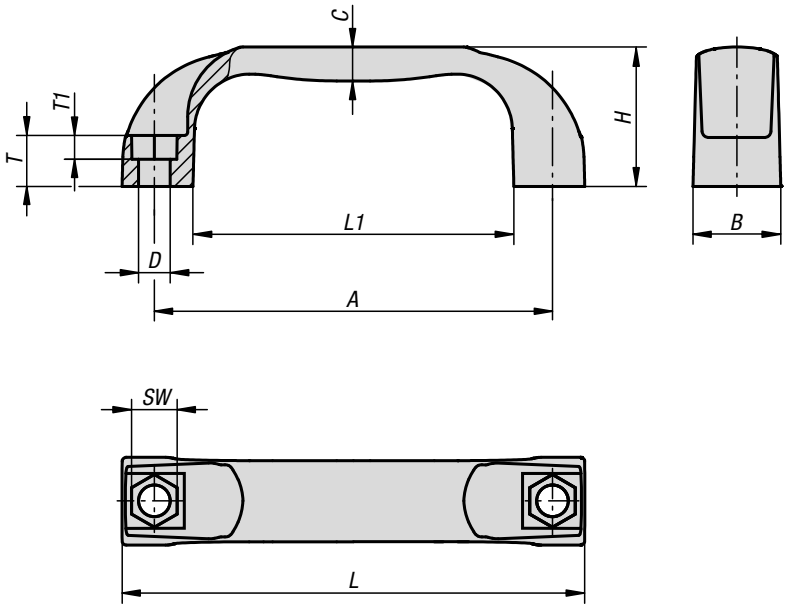
Assembly:
From the front or rear.

On request:
Other colours.

KIPP Pull handles

Order No.	Main material	A	B	C	D	H	L	L1	SW	T	T1	Load capacity N
K0190.109406	polyamide	94	21	8	6,6	36	109	76	10	13	6	1000
K0190.111708	polyamide	117	26	10	9	41	136	94	13	15	8	1500
K0190.113208	polyamide	132	27	11	9	44	154	112	13	16	8	1500
K0190.115008	polyamide	150	27	11	9	44	172	132	13	16	8	1500
K0190.117908	polyamide	179	28	11	9	50	197	156	13	17	8	1500
K0190.209406	polypropylene	94	21	8	6,6	36	109	76	10	13	6	500
K0190.211708	polypropylene	117	26	10	9	41	136	94	13	15	8	800
K0190.213208	polypropylene	132	27	11	9	44	154	112	13	16	8	800
K0190.215008	polypropylene	150	27	11	9	44	172	132	13	16	8	800
K0190.217908	polypropylene	179	28	11	9	50	197	156	13	17	8	800

Pull handles antistatic



Material:
Thermoplastic PA (polyamide) reinforced.

Version:
graphite black.

Sample order:
K0190.111170824

Note:
The fastening hole is designed to accept the head of a cap or hexagon head screw or a hexagon nut.

Application:
Sensitive electrical or electronic equipment, components and devices (ESD sensitive elements) may be damaged or destroyed by electrostatic discharges (ESD) in the immediate vicinity.
Electrostatic discharges can come from people or through handling ESD sensitive components (e.g. during production, assembly, transport, storage etc).
Electrically conductive products which conform to DIN EN 61340-5-1 are essential within electronic environments to prevent an electrostatic discharge.
These products can be used for ESD applications or in ESD protection areas (EPA) in accordance with DIN EN 61340-5-1.

Assembly:
From the front or rear.

Safety:
These ESD products can also be used for devices, components and protection systems in areas with high risk of explosion.
Use of these ESD products prevents the occurrence of electrostatic spark discharges, eliminating the potential ignition of gases and dusts which could lead to explosions in enclosed spaces.
Manufacturers and operators must use and conform to ATEX directives for the protection of persons working in areas with high risk of explosion.
These ESD products are certified by TÜV-Süd in relation to their electrical discharge capability.

Target groups:
Device manufacturers required to conform to ATEX product directive 2014/34/EU.
Operators required to conform to ATEX worker protection directive 1999/92/EC.

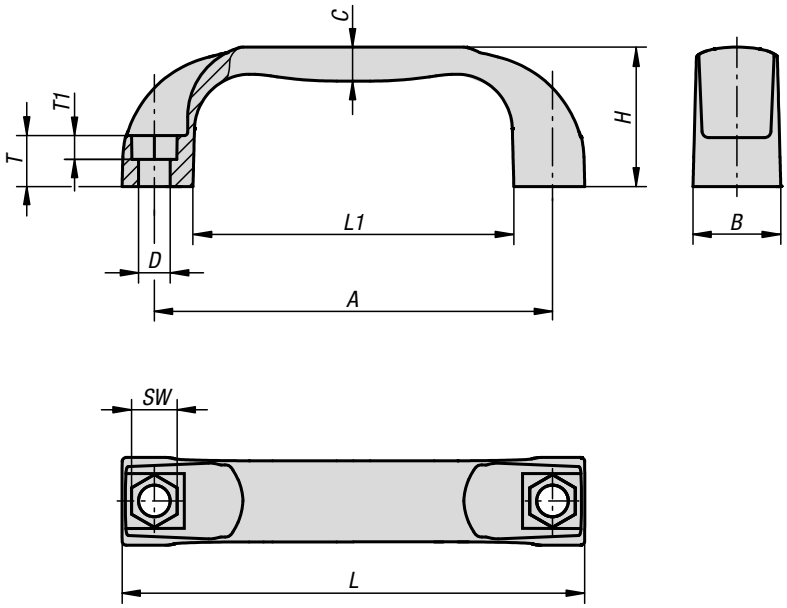
KIPP Pull handles antistatic

Order No.	Main colour	A	B	C	D	H	L	L1	SW	T	T1	Load capacity N
K0190.111170824	graphite black RAL 9011	117	26	10	9	41	136	94	13	15	8	1500
K0190.111500824	graphite black RAL 9011	150	27	11	9	44	172	132	13	16	8	1500

Expanded

Pull handles

high temperature resistant



Material:
Thermoplastic PPA (resistant to high temperatures), fibreglass reinforced.

Version:
black.

Sample order:
K0190.311708

Note:
The fastening hole is designed to accept the head of a cap or hexagon head screw or a hexagon nut.

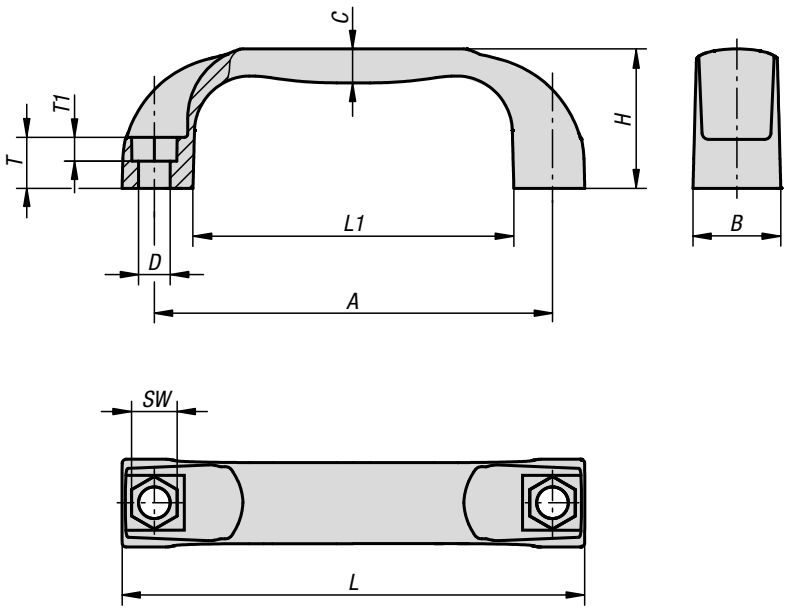
Temperature range:
Continuous operating temperature acc. to IEC 216 max. 150°C - 160°C.
Temporary operating temperature max. 250°C.

Assembly:
From the front or rear.

KIPP Pull handles, high temperature resistant

Order No.	A	B	C	D	H	L	L1	SW	T	T1	Load capacity N
K0190.311708	117	26	10	9	41	136	94	13	15	8	1500
K0190.313208	132	27	11	9	44	154	112	13	16	8	1500
K0190.315008	150	27	11	9	44	172	132	13	16	8	1500

Pull handles antibacterial



Material:
Thermoplastic PA (polyamide) reinforced.

Version:
slate grey.

Sample order:
K0190.1211708144

Note:
The fastening hole is designed to accept the head of a cap or hexagon head screw or a hexagon nut.

Application:
The antibacterial KIPP MEDI grip products are highly effective against a variety of hazardous microorganisms, such as bacteria, fungi and even multi-resistant bacteria (e.g. MRSA).
The plastic used incorporates micro-silver particles with an antimicrobial effect to ensure effective results throughout the entire product life cycle.

Function:
The growth of harmful micro-organisms on the product surface is effectively disrupted by means of silver ions, and the existing germs on MEDI grip products are consistently reduced (as tested and confirmed by an accredited testing laboratory).
During cleaning cycles the risk of infection through touching these products is significantly lower.

Assembly:
From the front or rear.

Advantages:
Resistant to humidity and cleaning products (during disinfection) with no toxic side effects.

Applications:
For installation on machines, equipment, plants and furnishings in areas with increased hygienic requirements (including hospitals, doctors' surgeries, rehabilitation centres and food production facilities), as well as for use in public areas or regularly frequented institutions (i.e. nursing homes or daycare centres).

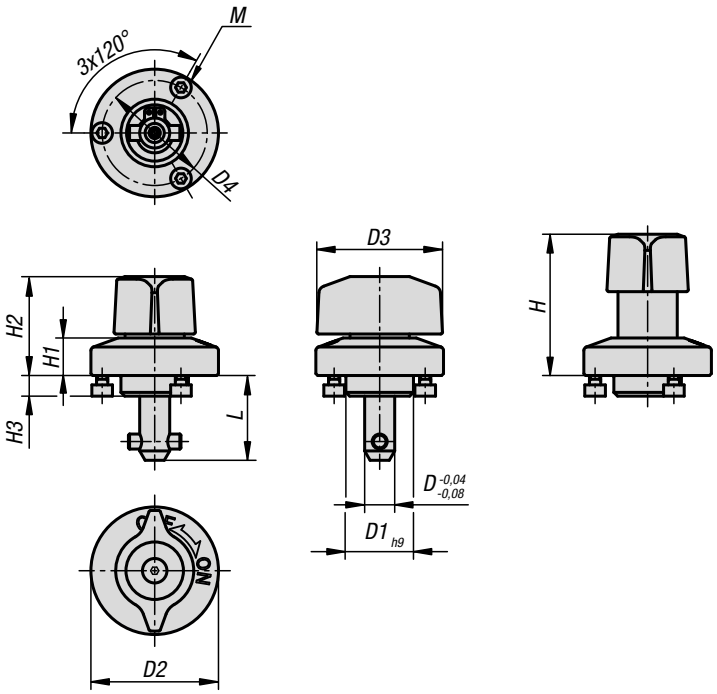
KIPP Pull handles antibacterial

Order No.	A	B	C	D	H	L	L1	SW	T	T1	Load capacity N
K0190.1211708144	117	26	10	9	41	136	94	13	15	8	1500
K0190.1215008144	150	27	11	9	44	172	132	13	16	8	1500

■ Expanded

Quarter-turn clamp lock, steel

rotary knob plastic or stainless steel



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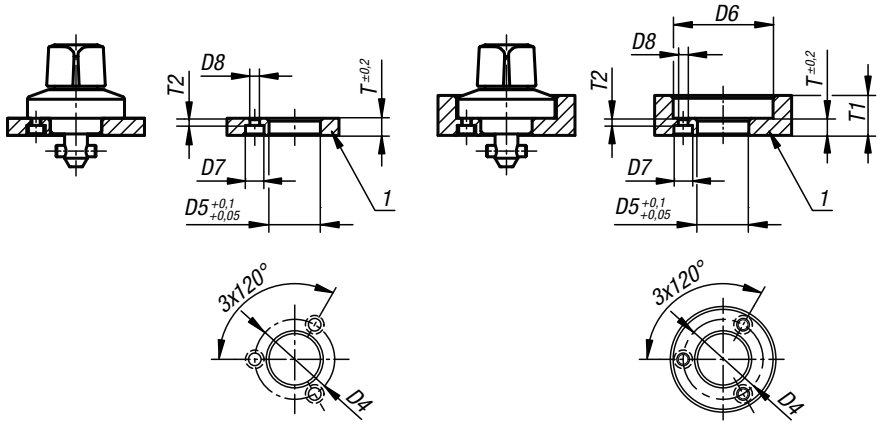


Quarter-turn clamp locks are used for replacing and locking fixtures or hatches quickly and easily. Toolless clamping shortens setup times.

Material:
Housing steel or stainless steel.
Pin stainless steel.
Knob stainless steel or thermoplastic PA (polyamide).

Version:
Housing nickel-plated or bright.
Pin bright.
Knob reinforced PA fibreglass, black.
Knob stainless steel, bright.

Sample order:
K1558.516

Note:
Stainless steel fastening screws M2 or M3 are included.
Form A mounting option for plate thickness 6 mm.
Form B mounting option for plate thickness > 6 to 14 mm.

Method of operation:
Check that the rotary knob is in the „OFF“ position and that the pin is retracted.
Push or place the quarter-turn clamp lock over the premounted clamping plate.
Press the rotary knob down and turn to the „ON“ position.
When fully clamped, a click sound is heard.

Accessories:
Clamping plates K1062

Drawing reference:
1) plate

KIPP Quarter-turn clamp lock steel, rotary knob plastic or stainless steel

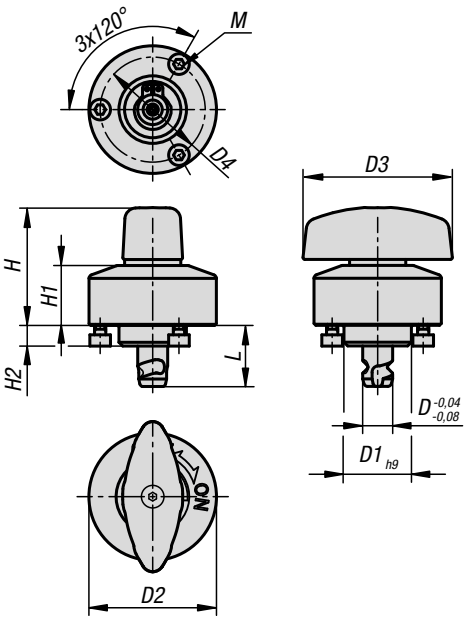
Order No. polyamide	Order No. stainless steel	D	L	D1	D2	D3	D4	H	H1	H2	H3	M	D5	D6	D7	D8	T	T1	T2
K1558.516	**K1558.1516**	5	15,5	14	25	25	21	30	6,5	20	5,5	M2x3	14	26	4,4	2,4	6	6-10	2,5
K1558.817	**K1558.1817**	8	17	18	34	34	28	38	10	26,5	5,5	M3x4	18	35	6,5	3,4	6	6-14	2,5

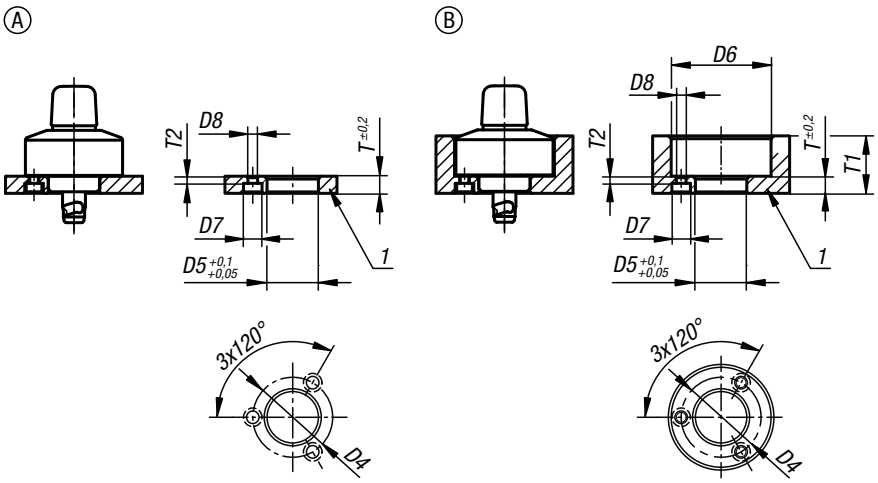
KIPP Quarter-turn clamp lock, technical information

Order No. polyamide	Order No. stainless steel	D	L	Clamping force N	Shearing force kN	Pullout force kN	Temperature resistance
K1558.516	**K1558.1516**	5	15,5	60	1,8	1,2	≤130 °C / ≤200 °C
K1558.817	**K1558.1817**	8	17	90	3,2	0,4	≤130 °C / ≤200 °C

Quarter-turn clamp locks, stainless steel

twist knob plastic or stainless steel





Quarter-turn clamp locks are used for replacing and locking fixtures or hatches quickly and easily. Toolless clamping shortens setup times.

Material:
Stainless steel housing.
Rotary knob stainless steel or thermoplastic PA (polyamide)

Version:
Housing bright.
Rotary knob PA fibreglass reinforced, black.
Rotary knob stainless steel, bright.

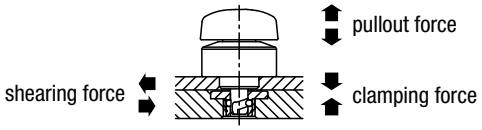
Sample order:
K1559.816

Note:
Stainless steel M3 fastening screws are included.
Form A mounting option for plate thickness 6 mm.
Form B mounting option for plate thickness > 6 to 14 mm.

Method of operation:
Check that the rotary knob is in the „OFF“ position.
Set the quarter-turn clamp lock in the premounted clamping plate.
Turn the rotary knob to the „ON“ position.
When fully clamped, a click sound is heard.

Accessories:
Clamping plates K1560

Drawing reference:
1) plate



KIPP Quarter-turn clamp locks stainless steel, knob plastic or stainless steel

Order No.	Component material	D	L	D1	D2	D3	D4	H	H1	H2	M	D5	D6	D7	D8	T	T1	T2
K1559.816	plastic	8	16,3	18	34	40	28	31,5	16	5,5	M03X0,5	18	35	6,5	3,4	6	6-20	2,5
K1559.8161	stainless steel	8	16,3	18	34	40	28	31,5	16	5,5	M03X0,5	18	35	6,5	3,4	6	6-20	2,5

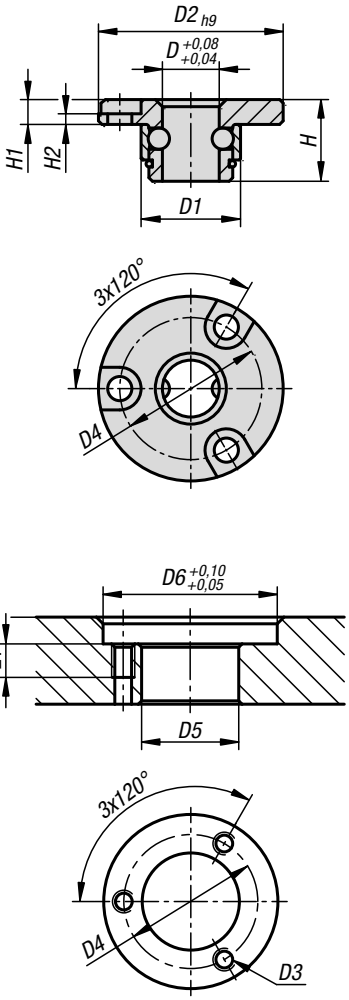
KIPP Quarter-turn clamp lock, technical information

Order No.	Component material	D	L	Clamping force N	Shearing force kN	Pullout force kN	Temperature resistance
K1559.816	plastic	8	16,3	400	4,8	1,6	≤130 °C / ≤200 °C
K1559.8161	stainless steel	8	16,3	400	4,8	1,6	≤130 °C / ≤200 °C

Clamping plates steel

for quarter-turn clamp locks

Clamping plate recessed
for plate thickness > 9 mm



Material:
Housing steel.

Version:
Housing nickel-plated.

Sample order:
K1560.801

Note:
Stainless steel M3 fastening screws are included.
Mounting option for plate thickness starting from 9 mm.

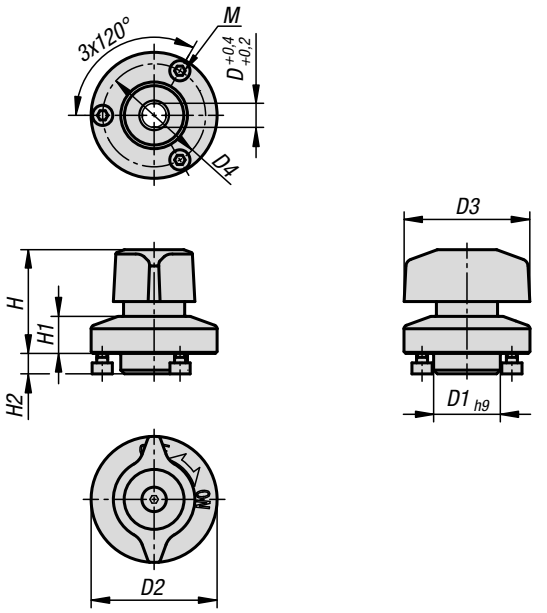
Accessories:
quarter-turn clamp lock K1559.

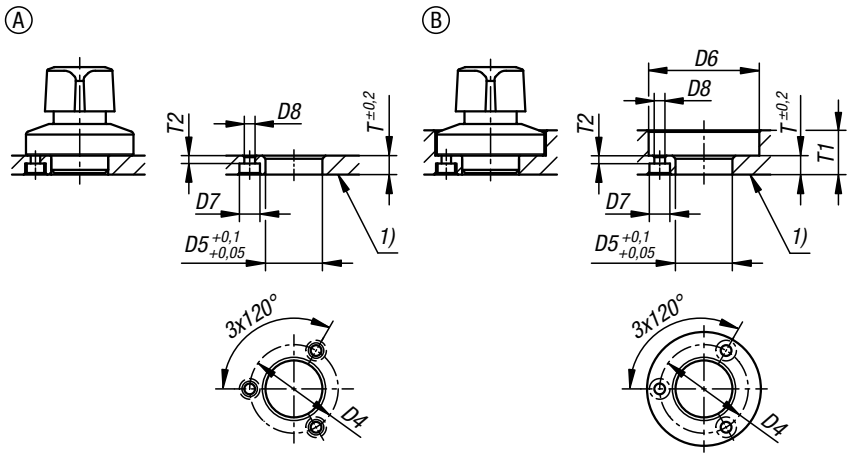
KIPP Steel clamping plates for quarter-turn clamp locks

Order No.	D	D1	D2	D3	D4	D5	D6	H	H1	H2	L	L1
K1560.801	8	14	26	M3x0,5	20	14,5	26	11,5	3,5	1,5	4	5

Quarter-turn latches, steel or stainless steel

rotary knob plastic or stainless steel





Quarter-turn latches are used for replacing and locking fixtures or hatches quickly and easily. Toolless clamping shortens setup times.

Material:
Housing steel or stainless steel.
Rotary knob thermoplastic PA (polyamide) or stainless steel.

Version:
Housing nickel-plated or bright.
Rotary knob PA fibreglass reinforced, black.
Knob stainless steel, bright.

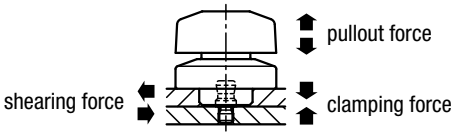
Sample order:
K1561.14

Note:
Stainless steel fastening screws M2 or M3 are included.
Form A mounting option for plate thickness 6 mm.
Form B mounting option for plate thickness > 6 to 14 mm.

Method of operation:
Check that the rotary knob is in the „OFF“ position.
Set the lift and turn latch over the clamping pin and turn the rotary knob to the „ON“ position.
When fully clamped, a click sound is heard.

Accessories:
Clamping pins K1564.

Drawing reference:
1) plate



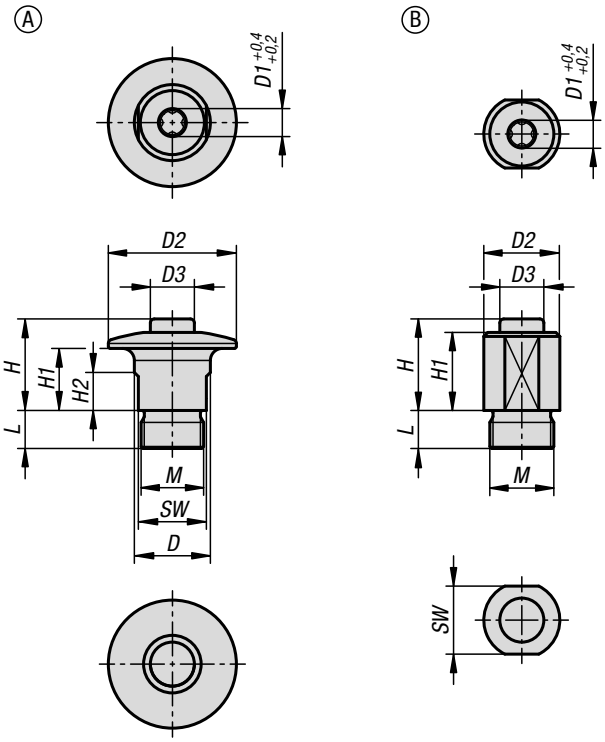
KIPP Quarter-turn latches steel or stainless steel, rotary knob plastic or stainless steel

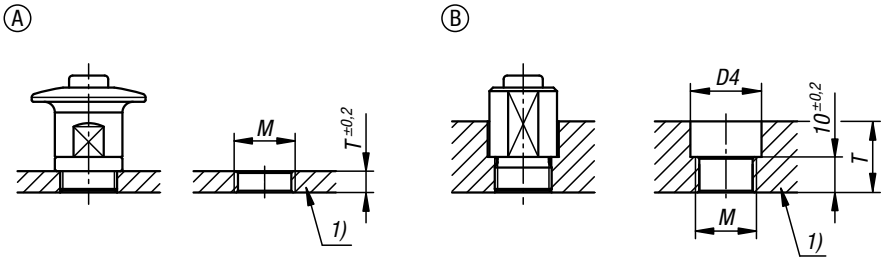
Order No. polyamide	Order No. stainless steel	D	D1	D2	D3	D4	H	H1	H2	M	D5	D6	D7	D8	T	T1	T2
K1561.14	**K1561.114**	6	14	25	25	21	23	6,5	5,5	M2x3	14	26	4,4	2,4	6	6-10	2,5
K1561.18	**K1561.118**	8	18	34	34	28	28	10	5,5	M3x4	18	35	6,5	3,4	6	6-14	2,5

KIPP Lift and turn latches, technical information

Order No. polyamide	Order No. stainless steel	D	Clamping force N	Shearing force kN	Pullout force kN	Temperature resistance
K1561.14	**K1561.114**	6	7	1,1	0,25	≤130 °C / ≤200 °C
K1561.18	**K1561.118**	8	9	1,8	0,4	≤130 °C / ≤200 °C

Push button latches stainless steel





Push button latches are used for replacing and locking fixtures or hatches quickly and easily. Toolless clamping shortens setup times.

Material:
Housing and push button stainless steel.

Version:
Housing and push button bright.

Sample order:
K1562.11

Note:
Form A for plate thickness 3 to 10 mm.
Form B for plate thickness 3 to 27 mm.

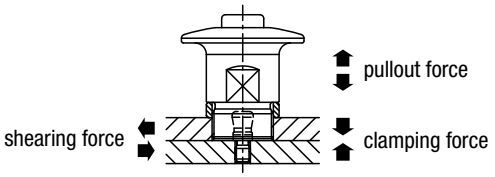
Method of operation:
Press the latch over the clamping pin without pressing the knob. The latch is now locked.
To release, press the button and pull the latch off.

Application:
Mounting option A in combination with spacer rings, for plate thickness 3 to 10 mm.
Mounting option B for plate thickness 10 to 27 mm.

Attention:
The specified pull-out forces apply only in combination with clamping pin K1564.

Accessories:
Spacer rings K1563.
Clamping pins K1564.

Drawing reference:
1) plate

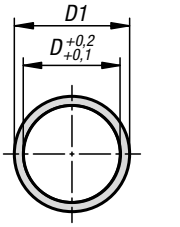


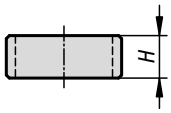
KIPP Push button latches stainless steel

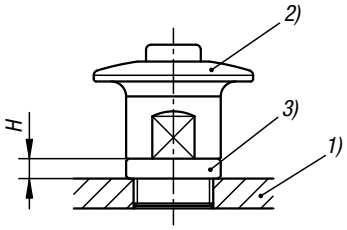
Order No.	Form	Version 1	D	D1	D2	D3	D4	H	H1	H2	L	M	SW	T	Clamping force N	Shearing force kN	Pullout force F kN	Temperature resistance
K1562.11	A	with head	19	6	32	11	-	23	15,5	8,5	9,5	M16X1	17	3	6	1,1	0,25	≤180 °C
K1562.12	B	without head	-	6	19	11	20	23	19,5	-	9,5	M16X1	17	10-27	6	1,1	0,25	≤180 °C

Spacer rings stainless steel

for push button latches







In combination with push button latches, the plate thickness can be varied from 3 to 10 mm. See assembly drawing.

Material:
Stainless steel

Version:
Bright.

Sample order:
K1563.14

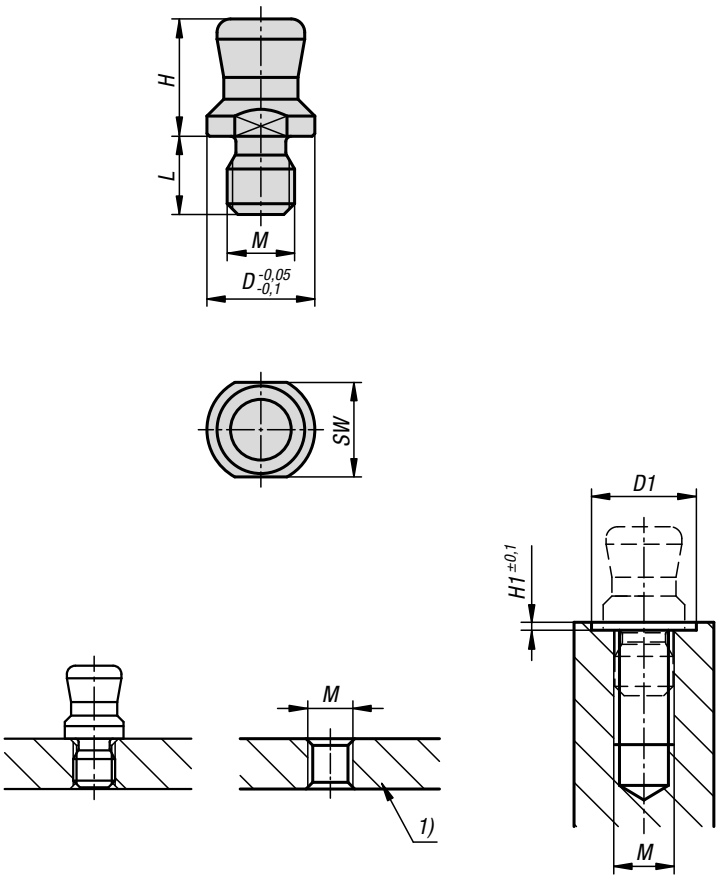
Accessories:
Push button latches K1562.

Drawing reference:
1) Plate
2) Push button latch
3) Spacer ring

KIPP Spacer rings stainless steel for push button latches

Order No.	D	D1	H
K1563.14	16	19	4
K1563.15	16	19	5
K1563.16	16	19	6
K1563.17	16	19	7

Clamping pin stainless steel



Material:
Stainless steel

Sample order:
K1564.16

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

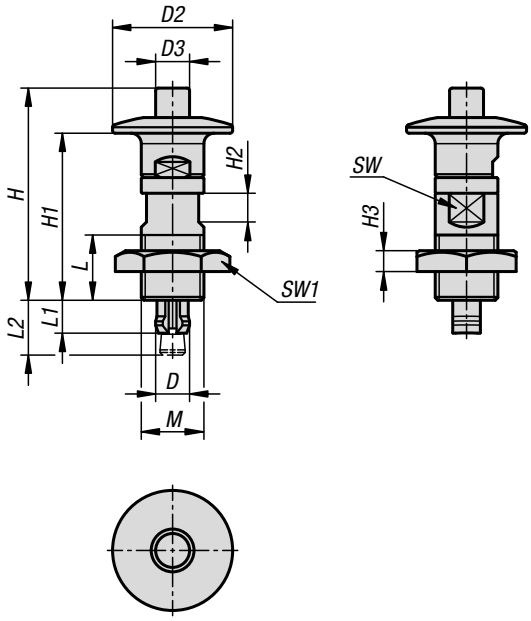
Accessories:
Quarter-turn latches K1561.
Push button latches K1562.

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

Locking pin stainless steel



With the locking pin, two separate plates can be joined quickly and easily with no counterpiece.

Material:
Housing and push button stainless steel.

Version:
Housing and push button bright.

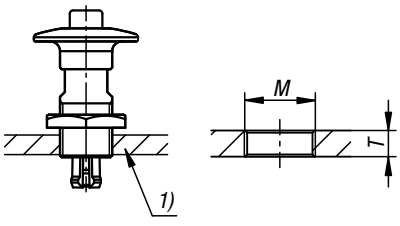
Sample order:
K1565.173

Note:
Mounting option for plate thickness 3 - 12 mm.
Use a hard material such as stainless steel for the baseplate.

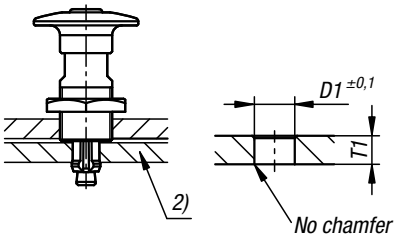
Method of operation:
Screw the locking pin into the mounting plate until the thread can be seen on the other side.
Press the knob and pass the clamping pin through the hole in the premachined baseplate.
Screw the locking pin in the reverse direction till both plates come together, then secure with the locknut.

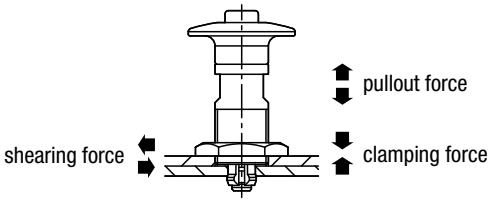
Drawing reference:
1) Mounting plate
2) Base plate

Mounting hole in the mounting plate



Mounting hole in the base plate

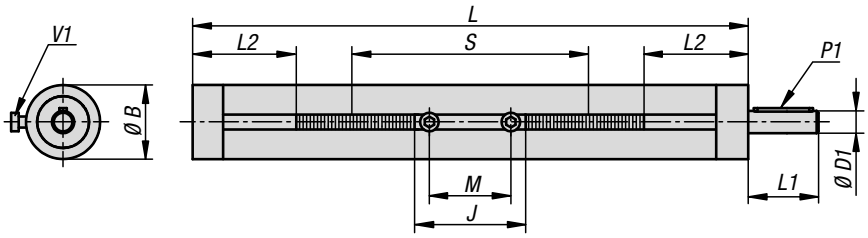




KIPP Locking pin stainless steel

Order No.	D	D1	D2	D3	H	H1	H2	H3	L	L1	L2	M	SW	SW1	T	T1	Temperature resistance	Shearing force kN	Pullout force F kN	Clamping force N
K1565.173	6,5	6,5	23	6,5	40	32	5,5	4	12,5	6,5	10,5	M12x1	10	19	3-8	3	≤180 °C	0,2	0,15	3
K1565.176	6,5	6,5	23	6,5	37	29	5,5	4	12,5	9,5	13,5	M12x1	10	19	3-8	6	≤180 °C	0,2	0,15	3
K1565.193	8,5	8,5	32	10	51	41,5	7	4	16,5	6,5	11	M16X1	14	24	3-12	3	≤180 °C	0,4	0,3	6
K1565.196	8,5	8,5	32	10	48	38,5	7	4	16,5	9,5	14	M16X1	14	24	3-12	6	≤180 °C	0,4	0,3	6

Linear actuators, stainless steel



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

Sample order:
K0495.1300101X500

Note:
Medium speed range, self-locking.

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

Accessories:
- Guides, stainless steel, K0496, K0498, K0499
- Clamping elements of the tubular connection system

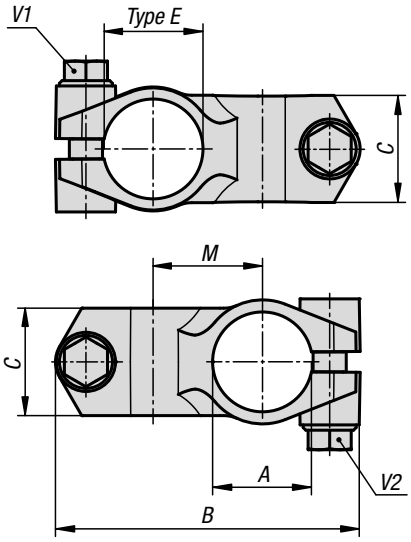
Functional principle:
A rotating movement of the threaded spindle is converted into a linear movement of the guide carriage.

KIPP Linear actuators, stainless steel

Order No.	Version 1	Type E	Spindle	L	Travel S	B	D1	J	L1	L2	M	P1 parallel key DIN 6885	V1
K0495.1300101X300	with ball bearing	30	Tr 14x3	300	140	30	8 h8	31	26	80	22	2 x 2 x 20	M4x8
K0495.1300101X500	with ball bearing	30	Tr 14x3	500	340	30	8 h8	31	26	80	22	2 x 2 x 20	M4x8
K0495.1300101X800	with ball bearing	30	Tr 14x3	800	640	30	8 h8	31	26	80	22	2 x 2 x 20	M4x8
K0495.1400101X300	with ball bearing	40	Tr 20x4	300	146	40	12 h8	39	38	77	28	4 x 4 x 32	M6x10
K0495.1400101X500	with ball bearing	40	Tr 20x4	500	346	40	12 h8	39	38	77	28	4 x 4 x 32	M6x10
K0495.1400101X800	with ball bearing	40	Tr 20x4	800	646	40	12 h8	39	38	77	28	4 x 4 x 32	M6x10
K0495.1400101X1000	with ball bearing	40	Tr 20x4	1000	846	40	12 h8	39	38	77	28	4 x 4 x 32	M6x10

Linear actuator connector clamps, stainless steel

cross

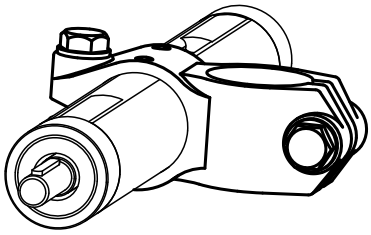


Material:
Stainless steel, investment cast 1.4308.
Screws, stainless steel A2.

Version:
Electropolished.

Sample order:
K0496.13030

On request:
Clamping levers for tightening.



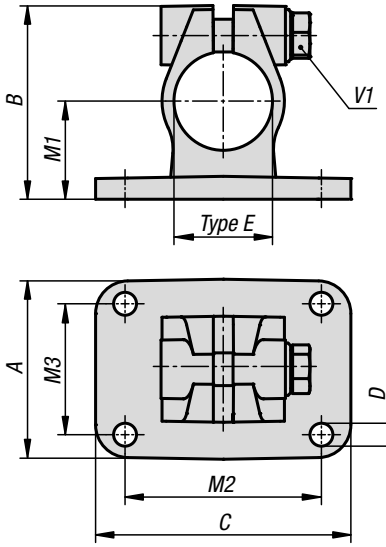
KIPP Linear actuator connector clamps, stainless steel, cross

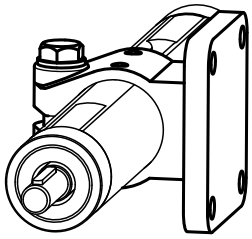
Order No.	Type E	A	B	C	M	V1	V2
K0496.13030	30	30	92	32,4	33	M8x30	M8x30
K0496.14040	40	40	118	40	42	M10x35	M10x35

K0498

Linear actuator connector clamps, stainless steel

flange





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

Version:
Electropolished.

Sample order:
K0498.130

On request:
Clamping levers for tightening.

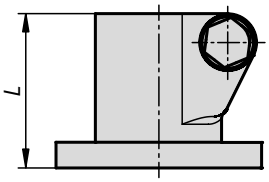
KIPP Linear actuator connector clamps, stainless steel, flange

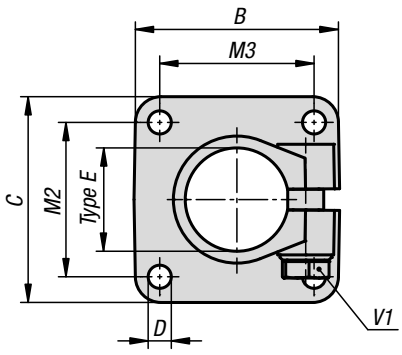
Order No.	Type E	A	B	C	D	M1	M2	M3	V1
K0498.130	30	55	59	78	7	30	60	40	M8x30
K0498.140	40	80	80	80	9	42	60	60	M10x35

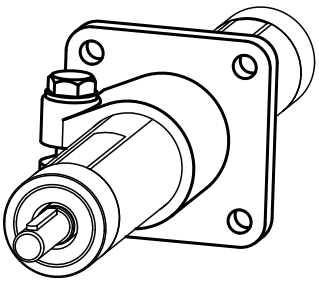
K0499

Linear actuator connector clamps, stainless steel

base







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

Version:
Electropolished.

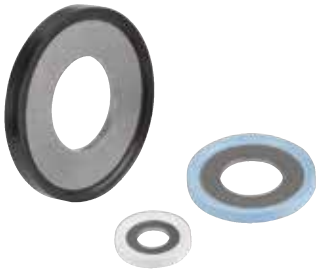
Sample order:
K0499.130

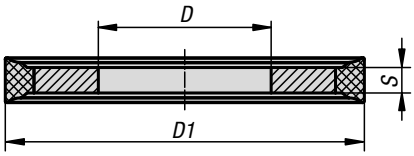
On request:
Clamping levers for tightening.

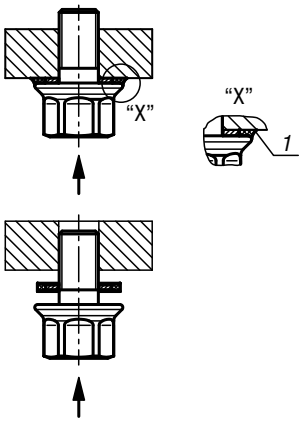
KIPP Linear actuator connector clamps, stainless steel, base

Order No.	Type E	B	C	D	L	M2	M3	V1
K0499.130	30	60	60	7	50	40	40	M8x30
K0499.140	40	80	80	9	60	60	60	M10x35

Hygienic USIT® seal and shim washers







With its highly reliable sealing and design that is compliant with hygiene requirements, the Hygienic USIT® seal and shim washer is setting new standards for cleanliness in the process industry. Many manufacturers of machinery and systems for the food and pharmaceutical industries often use standard shim washers or O-rings for screw connections in or on the product chamber. These are not EHEDG-compliant, however, as contamination and biofilms in the form of bacteria colonies and corrosion can form under the screw head, preventing the design from achieving maximum hygiene standards.
The metallic shim washer with a fixed sealing ring made from 70 EPDM 291 (black) or 70 EPDM 253815 (white) provides a secure, cavity-free seal. The Hygienic USIT® seal and shim washer, made from the fluorinated premium compound Fluoroprene® XP 45, is suitable for applications involving particularly aggressive CIP/SIP cleaning temperatures, high steam sterilisation temperatures and process media containing grease. This material has an even larger operating temperature range and is resistant to polar and non-polar media as well as flavouring substances.
Approvals such as FDA, EU1935/2004 and USP Class VI (121°C), plus EHEDG certification, confirm that the Hygienic USIT® washer represents the ideal choice for hygienically demanding applications in the food, beverage and pharmaceutical industries.

Note:
The EHEDG certificate is only valid when a specifically matched hexagon head bolt K1492 or cap nut K1493 is used.

Attention:
The function of the Hygienic USIT® screw connection system has been tested in combination with stainless steel materials and standard cleaning materials. The user must check that it is suitable for the application in question.

Accessories:
The Hygienic USIT® seal and shim washers can be used with all other products of the Hygienic USIT® range.

Drawing reference:
1) Cavity free sealing

Material:
Washer:
Stainless steel 1.4404.
Sealing ring:
70 EPDM 291 (black)
70 EPDM 253815 (white)
75 Fluoroprene® XP 45 (blue)

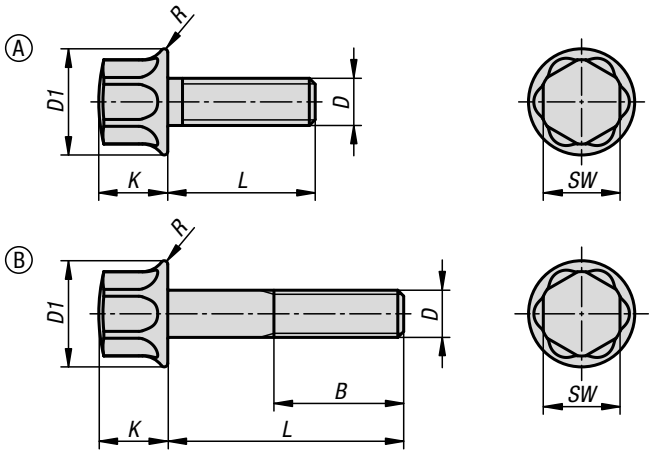
Sample order:
K1491.051

KIPP Hygienic USIT® seal and shim washers

Order No. 70 EPDM 291 black	Order No. 70 EPDM 253815 white	Order No. fluoroprene XP 45 blue	D	D1	S	Suitable for hexagon screws	Suitable cap nuts
K1491.041	**K1491.042**	**K1491.044**	4,1	9,7	1	M4	M4
K1491.051	**K1491.052**	**K1491.054**	5,1	10,7	1	M5	M5
K1491.061	**K1491.062**	**K1491.064**	6,1	13,1	1	M6	M6
K1491.081	**K1491.082**	**K1491.084**	8,1	16,9	1	M8	M8
K1491.101	**K1491.102**	**K1491.104**	10,1	21,2	1,5	M10	M10
K1491.121	**K1491.122**	**K1491.124**	12,1	25,5	1,5	M12	M12
K1491.161	**K1491.162**	**K1491.164**	16,1	33,9	1,5	M16	M16

Stainless steel hexagon head screws with collar

for Hygienic USIT® seal and shim washers



A cavity-free seal can only be assured in combination with the Hygienic USIT® seal and shim washer. The polished screws have a surface finish of Ra < 0.8 µm. Internal transition areas with a minimum radius of 3 mm are also provided, preventing dirt particles from adhering to the components and ensuring easy cleaning.

Hexagon head bolts with collar for Hygienic USIT® seal and shim washers are ideal for fastening in sterile areas and also conform to EHEDG regulations, something that is confirmed with the relevant certificate.

On request:
Special versions.

Accessories:
Hygienic USIT® seal and shim washer K1491.
Hexagon cap nut with collar K1493.
Sockets with plastic inserts K1361.
Ring/open-end spanner with protective caps K1362.

Material:
Stainless steel 1.4404.

Version:
Polished.

Sample order:
K1492.05X12 (include length L)

Note:
The EHEDG certificate is only valid when a specifically matched Hygienic USIT® seal and shim washer K1491 is used.

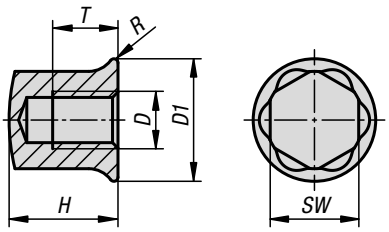
KIPP Stainless steel hexagon head screws with collar for Hygienic USIT® seal and shim washers

Order No.	Form	D	D1	K	L	R	SW
K1492.04X	A	M4	10,8	6,9	8/10/12/16/20	0,45	7
K1492.05X	A	M5	11,8	8,5	10/12/16/20	0,5	8
K1492.06X	A	M6	14	9,2	12/16/20/25	0,55	10
K1492.08X	A	M8	18	11,7	16/20/25/30/35	0,6	13
K1492.10X	A	M10	22	14	20/25/30/35/40	0,75	16
K1492.12X	A	M12	26,6	17	25/30/35/40/45	0,9	18
K1492.16X	A	M16	35	21,8	30/35/40/45/50/60	1,2	24

Order No.	Form	D	D1	B	K	L	R	SW
K1492.04X	B	M4	10,8	14	6,9	25/30/35/40	0,45	7
K1492.05X	B	M5	11,8	16	8,5	25/30/35/40/45/50	0,5	8
K1492.06X	B	M6	14	18	9,2	30/35/40/45/50/60	0,55	10
K1492.08X	B	M8	18	22	11,7	40/45/50/60/70/80	0,6	13
K1492.10X	B	M10	22	26	14	45/50/60/70/80	0,75	16
K1492.12X	B	M12	26,6	30	17	50/60/70/80	0,9	18
K1492.16X	B	M16	35	38	21,8	70/80	1,2	24

Stainless steel cap nuts with collar

for Hygienic USIT® seal and shim washers



A cavity-free seal can only be assured in combination with the Hygienic USIT® seal and shim washer.
The polished cap nuts have a surface finish of Ra < 0.8 µm.
Internal transition areas with a minimum radius of 3 mm are also provided, preventing dirt particles from adhering to the components and ensuring easy cleaning.

The cap nut with collar for Hygienic USIT® seal and shim washers is ideal for fastening in sterile areas and also conform to EHEDG regulations, something that is confirmed with the relevant certificate.

Material:
Stainless steel 1.4404.

Version:
Polished.

Sample order:
K1493.05

Note:
The EHEDG certificate is only valid when a specifically matched Hygienic USIT® seal and shim washer K1491 is used.

On request:
Special versions.

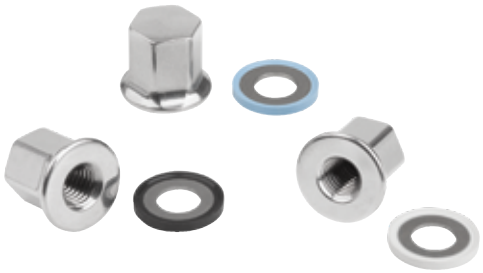
Accessories:
Hygienic USIT® seal and shim washer K1491.
Hexagon head bolts with collar K1492.
Sockets with plastic inserts K1361.
Ring/open-end spanner with protective caps K1362.

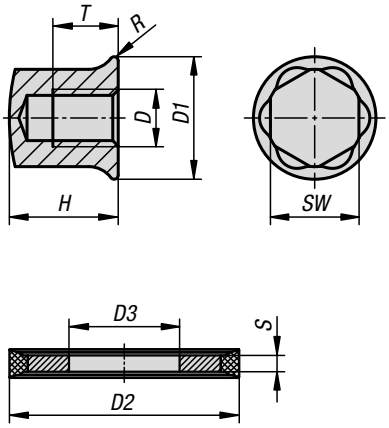
KIPP Stainless steel cap nuts with collar for Hygienic USIT® seal and shim washers

Order No.	D	D1	H	R	SW	T
K1493.04	M4	10,8	9	0,45	7	4,8
K1493.05	M5	11,8	11	0,5	8	6
K1493.06	M6	14	13	0,55	10	7,2
K1493.08	M8	18	16	0,6	13	9,6
K1493.10	M10	22	20	0,75	16	12
K1493.12	M12	26,6	23	0,9	18	14,4
K1493.16	M16	35	30	1,2	24	19,2

Stainless steel cap nuts with collar

and seal and shim washer for Hygienic USIT® set





Set: cap nut with collar K1493 + Hygienic USIT® seal and shim washer K1491.

Only the combination of a cap nut with collar and the Hygienic USIT® seal and shim washer assures a cavity-free seal.

The cap nut with collar for Hygienic USIT® seal and shim washers is ideal for fastening in sterile areas and also conform to EHEDG regulations, which is confirmed with the relevant certificate.

Material:
Cap nut: stainless steel 1.4404.
Washer: stainless steel 1.4404.
Seal ring:
70 EPDM 291 (black).
70 EPDM 253815 (white).
75 Fluoroprene® XP 45 (blue).

Version:
Cap nut: polished.

Sample order:
K1594.041

Note:
The EHEDG certificate is only valid when a combination of cap nut with collar K1493 and specially matched Hygienic USIT® seal and shim washer K1491 is used.

Attention:
The function of the Hygienic USIT® screw connection system has been tested in combination with stainless steel materials and standard cleaning materials. The user must check that it is suitable for the application in question.

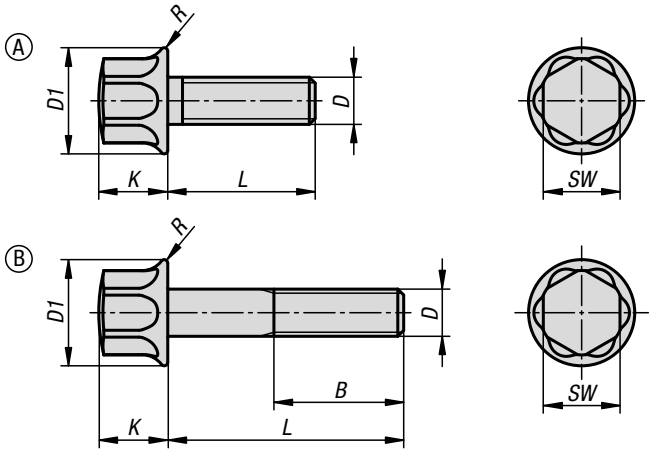
Accessories:
Hexagon head screw with collar K1492.
Sockets with plastic inserts K1361.
Ring/open-end spanner with protective caps K1362.

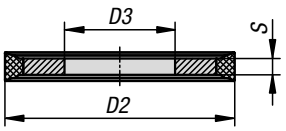
KIPP Stainless steel cap nuts with collar and seal and shim washer for Hygienic USIT® set

Order No. 70 EPDM 291 black	Order No. 70 EPDM 253815 white	Order No. fluoroprene XP 45 blue	D	D1	D2	D3	H	R	S	SW	T	Approval / Certification
K1594.041	**K1594.042**	**K1594.044**	M4	10,8	9,7	4,1	9	0,45	1	7	4,8	EHEDG
K1594.051	**K1594.052**	**K1594.054**	M5	11,8	10,7	5,1	11	0,5	1	8	6	EHEDG
K1594.061	**K1594.062**	**K1594.064**	M6	14	13,1	6,1	13	0,55	1	10	7,2	EHEDG
K1594.081	**K1594.082**	**K1594.084**	M8	18	16,9	8,1	16	0,6	1	13	9,6	EHEDG
K1594.101	**K1594.102**	**K1594.104**	M10	22	21,2	10,1	20	0,75	1,5	16	12	EHEDG
K1594.121	**K1594.122**	**K1594.124**	M12	26,6	25,5	12,1	23	0,9	1,5	18	14,4	EHEDG
K1594.161	**K1594.162**	**K1594.164**	M16	35	33,9	16,1	30	1,2	1,5	24	19,2	EHEDG

Stainless steel hexagon head screws with collar and seal

and shim washer for Hygienic USIT® set





Set: hexagon head screw with collar K1492 + Hygienic USIT® seal and shim washer K1491.

Only the combination of a hexagon head screw with collar and the Hygienic USIT® seal and shim washer assures a cavity-free seal.

The hexagon head screw with collar for Hygienic USIT® seal and shim washers is ideal for fastening in sterile areas and also conforms to EHEDG regulations, which is confirmed with the relevant certificate.

Attention:
The function of the Hygienic USIT® screw connection system has been tested in combination with stainless steel materials and standard cleaning materials. The user must check that it is suitable for the application in question.

Accessories:
Cap nut with collar K1493.
Sockets with plastic inserts K1361.
Ring/open-end spanner with protective caps K1362.

Material:
Hexagon head screw: stainless steel 1.4404.
Washer: stainless steel 1.4404.
Seal ring:
70 EPDM 291 (black).
70 EPDM 253815 (white).
75 Fluoroprene® XP 45 (blue).

Version:
Hexagon head screw: polished

Sample order:
K1595.041X20

Note:
The EHEDG certificate is only valid when a combination of hexagon head screw with collar K1492 and specially matched Hygienic USIT® seal and shim washer K1491 is used.

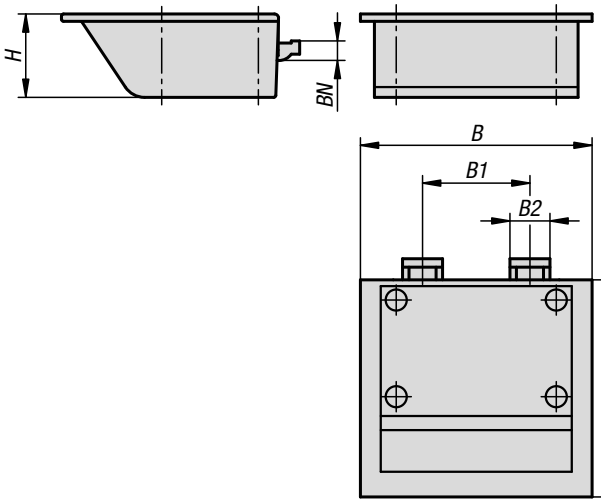
KIPP Stainless steel hexagon head screws with collar and seal and shim washer for Hygienic USIT® set

Order No. 70 EPDM 291 black	Order No. 70 EPDM 253815 white	Order No. fluoroprene XP 45 blue	Form	D	L	D1	B	K	R	SW	D2	D3	S	Approval / Certification
K1595.041X	K1595.042X	K1595.044X	A	M4	8/10/12/16/20	10,8	-	6,9	0,45	7	9,7	4,1	1	EHEDG
K1595.041X	K1595.042X	K1595.044X	B	M4	25/30/35/40	10,8	14	6,9	0,45	7	9,7	4,1	1	EHEDG
K1595.051X	K1595.052X	K1595.054X	A	M5	10/12/16/20	11,8	-	8,5	0,5	8	10,7	5,1	1	EHEDG
K1595.051X	K1595.052X	K1595.054X	B	M5	25/30/35/40/45/50	11,8	16	8,5	0,5	8	10,7	5,1	1	EHEDG
K1595.061X	K1595.062X	K1595.064X	A	M6	12/16/20/25	14	-	9,2	0,55	10	13,1	6,1	1	EHEDG
K1595.061X	K1595.062X	K1595.064X	B	M6	30/35/40/45/50/60	14	18	9,2	0,55	10	13,1	6,1	1	EHEDG
K1595.081X	K1595.082X	K1595.084X	A	M8	16/20/25/30/35	18	-	11,7	0,6	13	16,9	8,1	1	EHEDG
K1595.081X	K1595.082X	K1595.084X	B	M8	40/45/50/60/70/80	18	22	11,7	0,6	13	16,9	8,1	1	EHEDG
K1595.101X	K1595.102X	K1595.104X	A	M10	20/25/30/35/40	22	-	14	0,75	16	21,2	10,1	1,5	EHEDG
K1595.101X	K1595.102X	K1595.104X	B	M10	45/50/60/70/80	22	26	14	0,75	16	21,2	10,1	1,5	EHEDG
K1595.121X	K1595.122X	K1595.124X	A	M12	25/30/35/40/45	26,6	-	17	0,9	18	25,5	12,1	1,5	EHEDG
K1595.121X	K1595.122X	K1595.124X	B	M12	50/60/70/80	26,6	30	17	0,9	18	25,5	12,1	1,5	EHEDG
K1595.161X	K1595.162X	K1595.164X	A	M16	30/35/40/45/50/60	35	-	21,8	1,2	24	33,9	16,1	1,5	EHEDG
K1595.161X	K1595.162X	K1595.164X	B	M16	70/80	35	38	21,8	1,2	24	33,9	16,1	1,5	EHEDG

Clip-in bins, plastic,

for type I and type B profile slots and mounting profiles

Ⓐ



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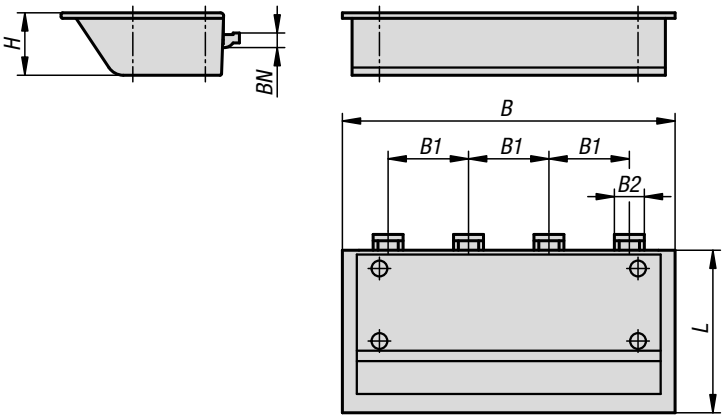


Material:
Bins fibreglass reinforced PA.
Label holders PC.

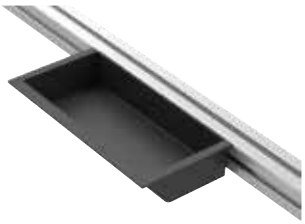
Sample order:
K1629.10110103

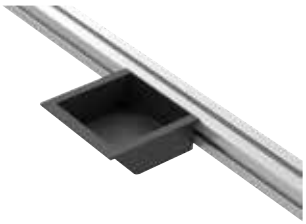
Note:
These bins can be easily clipped into profile slots or mounting profiles.
The bins for mounting profiles can be hooked onto perforated panels.
For holding small parts.

The bins for mounting profiles can be combined with swivel adapters.

Supplied with:
Form A: 1x clip-in bin.
Form B: 1x clip-in bin.
Form C: 1x clip-in bin, 1x label holder, 1x label.
Form D: 1x clip-in bin, 1x label holder, 1x label.

Accessories:
Swivel adapter K1630.





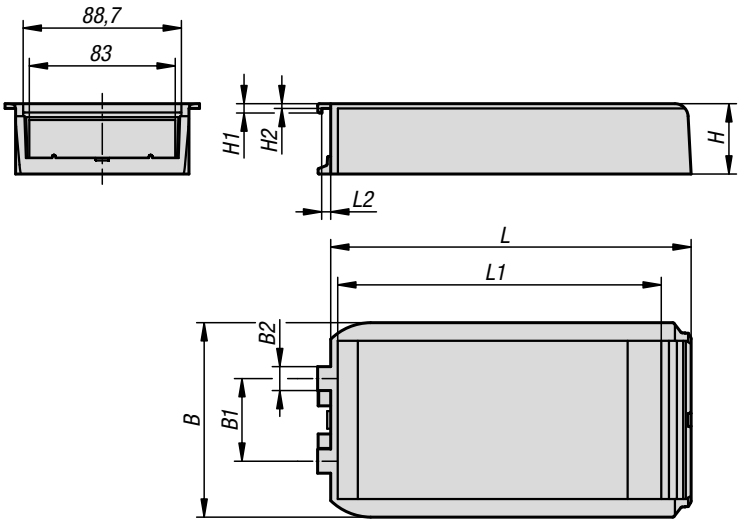
KIPP Clip-in bins, plastic, for type I and type B profile slots and mounting profiles

Order No.	Version 1	Form	B	B1	B2	H	H1	H2	L	L1	L2	BN=slot width
K1629.00110103	type I	A	110	51	19	40	-	-	103,1	-	-	8
K1629.10110103	type B	A	110	51	19	40	-	-	103,1	-	-	10
K1629.00211103	type I	B	211	51	19	40	-	-	103,1	-	-	8
K1629.10211103	type B	B	211	51	19	40	-	-	103,1	-	-	10
K1629.20110205	for mounting profile	C	110,6	47	13,6	40	8	2,7	200	183	5	-
K1629.20110291	for mounting profile	D	110,6	47	13,6	40	5,3	2,7	286	183	5	-

Clip-in bins, plastic,

for type I and type B profile slots and mounting profiles

Ⓒ



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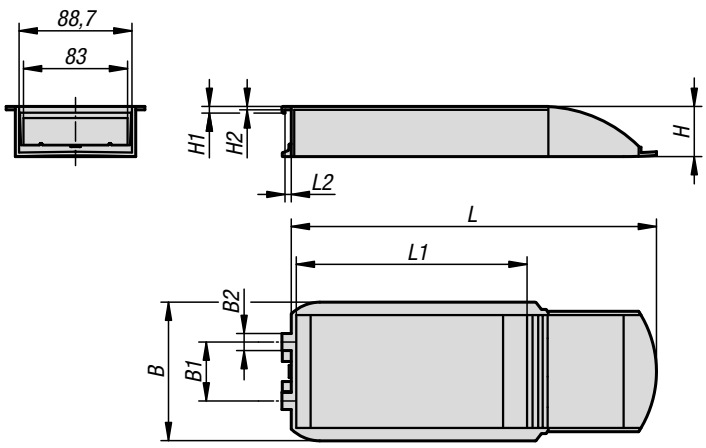
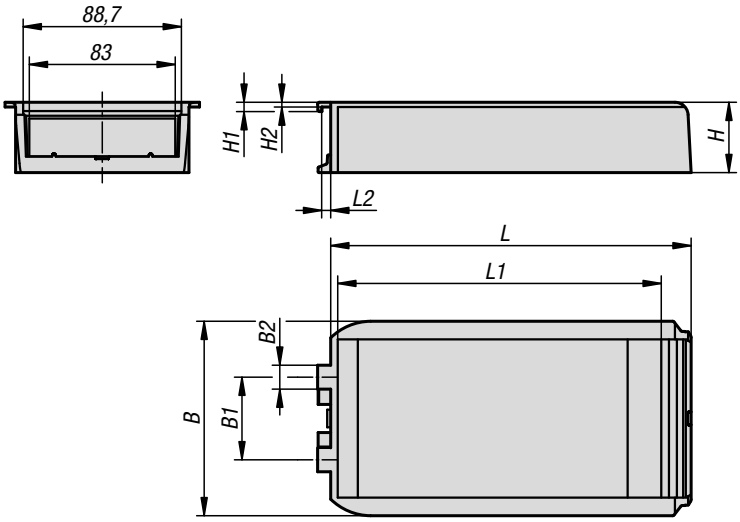


Clip-in bins, antistatic plastic,

for type I and type B profile slots and mounting profiles

Ⓒ



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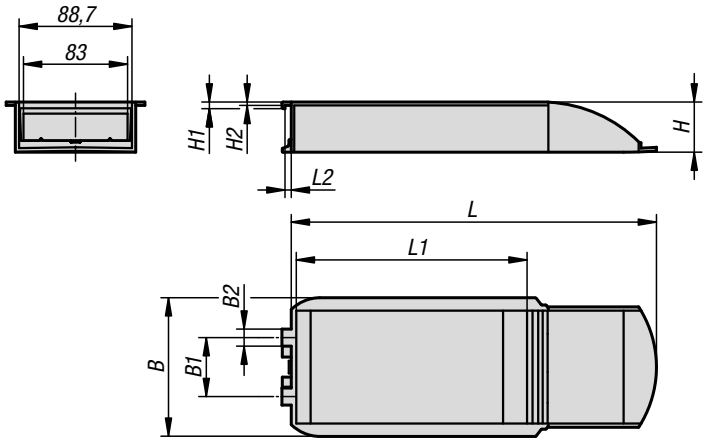


Material:
Bins carbon fibre reinforced antistatic PA.
Label holders PC.

Sample order:
K1629.21110291

Note:
These bins can be easily clipped into profile slots or mounting profiles.
The bins for mounting profiles can be hooked onto perforated panels.
For holding small parts.

The bins for mounting profiles can be combined with swivel adapters.

Application:
Sensitive electrical or electronic equipment, components and devices (ESD sensitive elements) may be damaged or destroyed by electrostatic discharges (ESD) in the immediate vicinity.
Electrostatic discharges can come from people or through handling ESD sensitive components (e.g. during production, assembly, transport, storage etc).
Electrically conductive products which conform to DIN EN 61340-5-1 are essential within electronic environments to prevent an electrostatic discharge.
These products can be used for ESD applications or in ESD protection areas (EPA) in accordance with DIN EN 61340-5-1.

Safety:
These ESD products can also be used for devices, components and protection systems in areas where there is risk of explosion.
These ESD products prevent electrostatic spark discharges, and eliminate the risk of ignition of gases and dust which could lead to explosions in enclosed spaces.
Manufacturers and operators must apply and comply with the ATEX directives for protecting persons working in areas where there is a risk of explosion.

These ESD products have been certified by TÜV-Süd for their electrical discharge capability.

Supplied with:
Form C: 1x clip-in bin, 1x label holder, 1x label.
Form D: 1x clip-in bin, 1x label holder, 1x label.

Accessories:
Swivel adapter K1630.

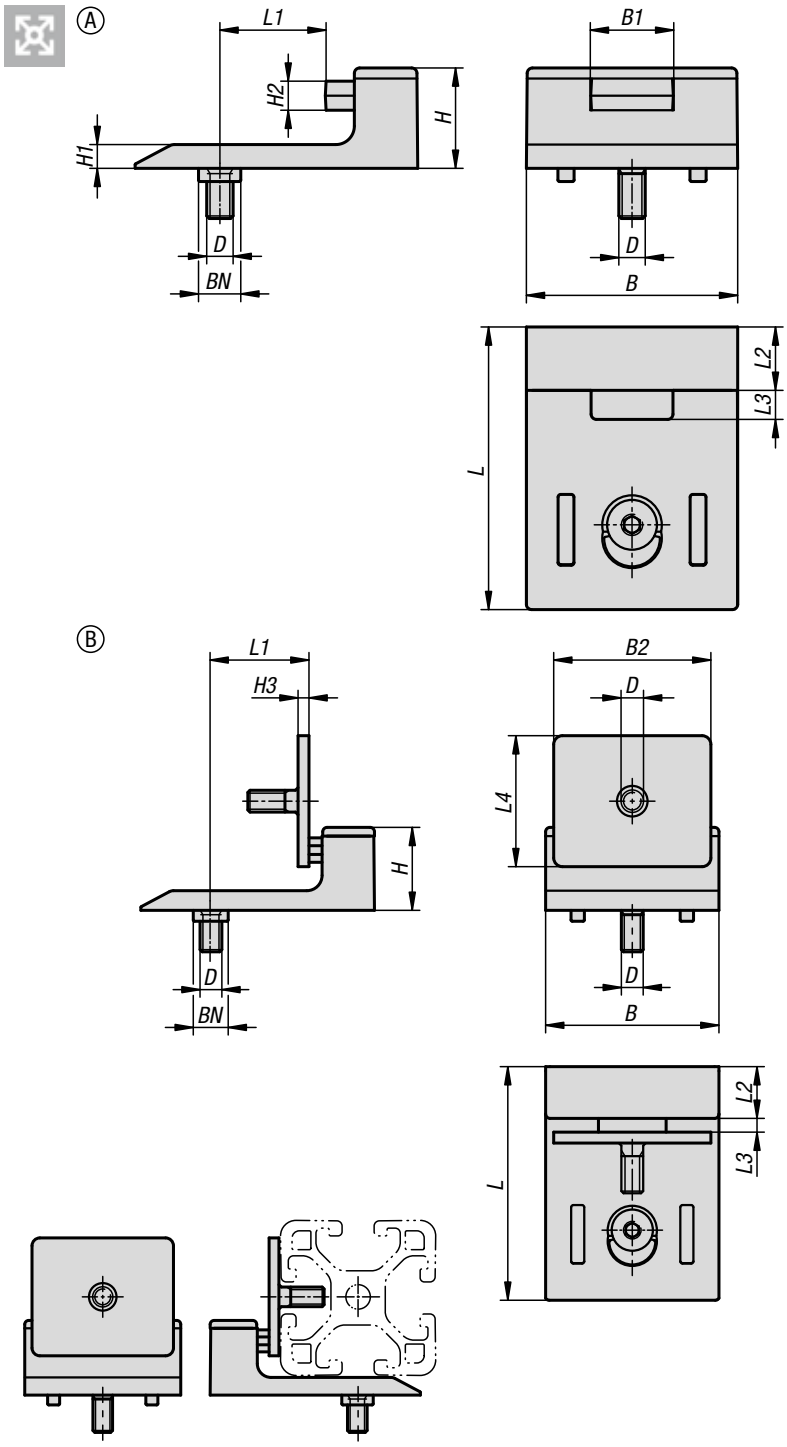
Applications:
Device manufacturers required to conform to ATEX product directive 2014/34/EU.
Operators required to conform to ATEX worker protection directive 1999/92/EC.

KIPP Clip-in bins, antistatic plastic, for type I and type B profile slots and mounting profiles

Order No.	Form	B	B1	B2	H	H1	H2	L	L1	L2
K1629.21110205	C	110,6	47	13,6	40	5,3	2,7	200	183	5
K1629.21110291	D	110,6	47	13,6	40	5,3	2,7	286	183	5

Door stops plastic

for aluminium profile with buffer or with magnetic catch



Material:
Door stop fibreglass reinforced PA.
Buffer EPDM.
Retaining plate steel.
Slot key die-cast zinc.
Screw steel.
Locking piece fibreglass reinforced PA.

Version:
Steel electro zinc-plated.

Sample order:
K1633.0

Supplied with:
Door stop with buffer:
1x door stop,
1x slot key,
1x M5x14 ISO 7991 screw,
1x locking piece.

Door stop with magnetic catch:
1x door stop,
1x retaining plate,
1x slot key,
2x M5x14 ISO 7991 screws,
1x locking piece.

Accessories:
These door stops can be used to close doors or hatches mounted on aluminium profiles softly or magnetically.

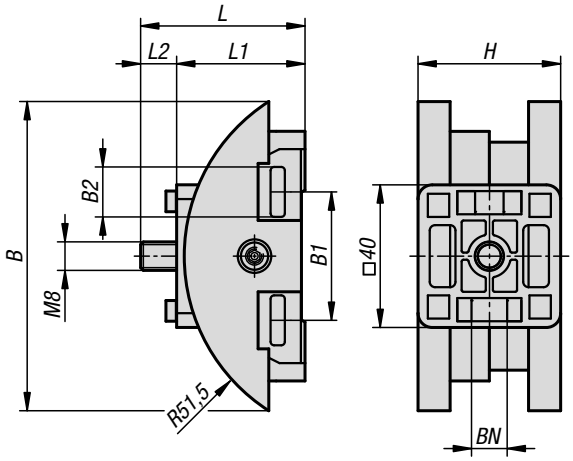
KIPP Door stops plastic for aluminium profile with buffer or with magnetic catch

Order No.	Version 1	Form	Component material	Surface finish component	B	B1	B2	D	H
K1633.0	with buffer	A	EPDM	-	40	15	-	M5	19
K1633.1	with magnetic catch	B	steel	galvanised	40	-	36	M5	19

Order No.	H1	H2	H3	L	L1	L2	L3	L4	BN=slot width	Shore grade
K1633.0	4,5	5	-	53,5	20/22,5	12	5	-	8/10	-
K1633.1	4,5	-	2,5	53,5	20/22,5	12	3	30	8/10	70

Swivel adapter, plastic,

for profile slots



Material:
Adapter fibreglass reinforced PA.
Slot keys die-cast zinc.
Fastening material steel.

Version:
Steel electro zinc-plated.

Sample order:
K1630.510

Note:
These adapters are used to fasten clip-in bins to profile slots (slot size 8 or 10).
The adapter swivels through 45° in both directions.

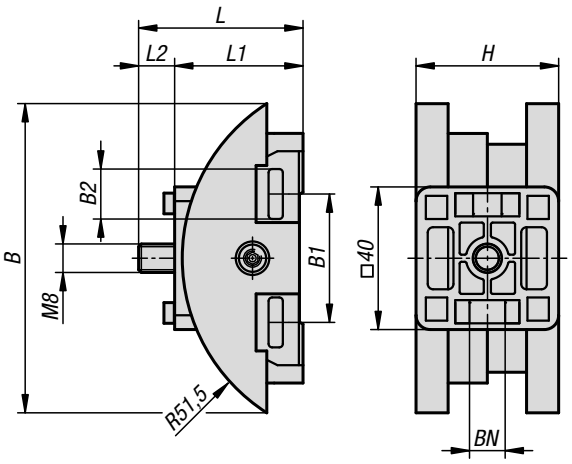
Supplied with:
1x top adapter housing
1x bottom adapter housing
1x adapter flange
1x M4 hex nut
1x M4x35 countersunk screw
4x slot keys, slot size 8/10
1x M8x16 cap screw

KIPP Swivel adapter, plastic, for profile slots

Order No.	B	B1	B2	H	L	L1	L2	BN=slot width
K1630.510	88	51	14,2	40	40,1	36	10,1	8/10

Swivel adapter, antistatic plastic,

for profile slots



Material:
Adapter carbon fibre reinforced antistatic PA.
Slot keys die-cast zinc.
Fastening material steel.

Version:
Steel electro zinc-plated.

Sample order:
K1630.511

Note:
These adapters are used to fasten clip-in bins to profile slots (slot size 8 or 10).
The adapter swivels through 45° in both directions.

Application:
Sensitive electrical or electronic equipment, components and devices (ESD sensitive elements) may be damaged or destroyed by electrostatic discharges (ESD) in the immediate vicinity.
Electrostatic discharges can come from people or through handling ESD sensitive components (e.g. during production, assembly, transport, storage etc).
Electrically conductive products which conform to DIN EN 61340-5-1 are essential within electronic environments to prevent an electrostatic discharge.
These products can be used for ESD applications or in ESD protection areas (EPA) in accordance with DIN EN 61340-5-1.

Safety:
These ESD products can also be used for devices, components and protection systems in areas where there is risk of explosion.
These ESD products prevent electrostatic spark discharges, and eliminate the risk of ignition of gases and dust which could lead to explosions in enclosed spaces.
Manufacturers and operators must apply and comply with the ATEX directives for protecting persons working in areas where there is a risk of explosion.

These ESD products have been certified by TÜV-Süd for their electrical discharge capability.

Supplied with:
1x top adapter housing.
1x bottom adapter housing.
1x adapter flange.
1x M4 hex nut.
1x M4x35 countersunk screw.
4x slot keys, slot size 8/10.
1x M8x16 cap screw.

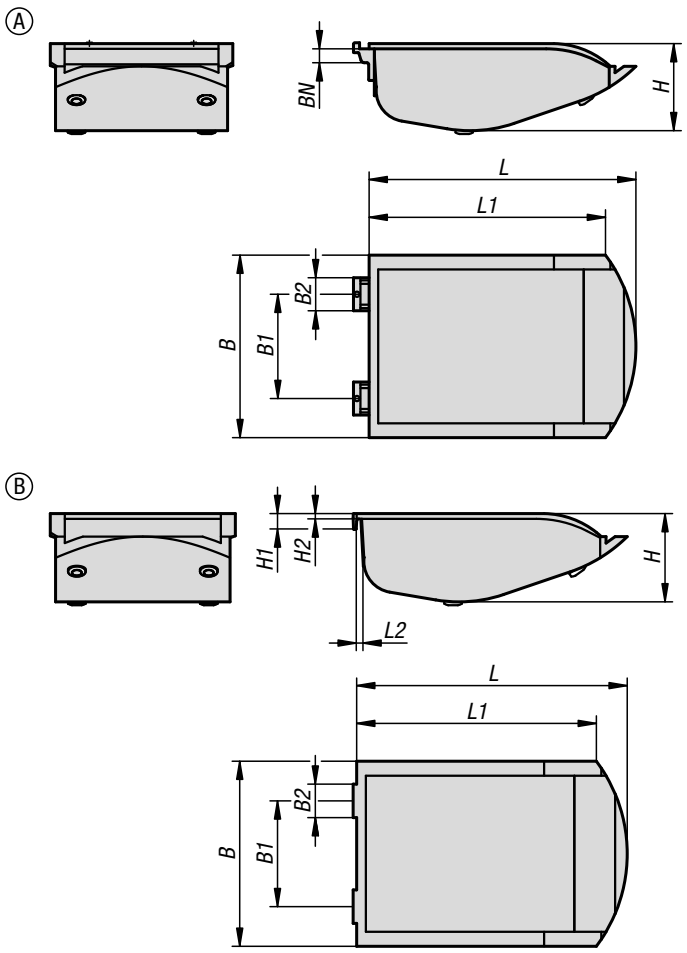
Applications:
Device manufacturers required to conform to ATEX product directive 2014/34/EU.
Operators required to conform to ATEX worker protection directive 1999/92/EC.

KIPP Swivel adapter, antistatic plastic, for profile slots

Order No.	B	B1	B2	H	L	L1	L2	BN=slot width
K1630.511	88	51	14,2	40	40,1	36	10,1	8/10

Clip-in shell bins, plastic,

for profile slots type I and type B and mounting profiles



Material:
Trays fibreglass reinforced PA.
Label holder PC.
Elastic buffers PU.

Sample order:
K1631.10

Note:
These bins can be easily clipped into profile slots or mounting profiles.
The bins for mounting profiles can be hooked onto perforated panels.
For holding small parts and selectively picking out the smallest of components.

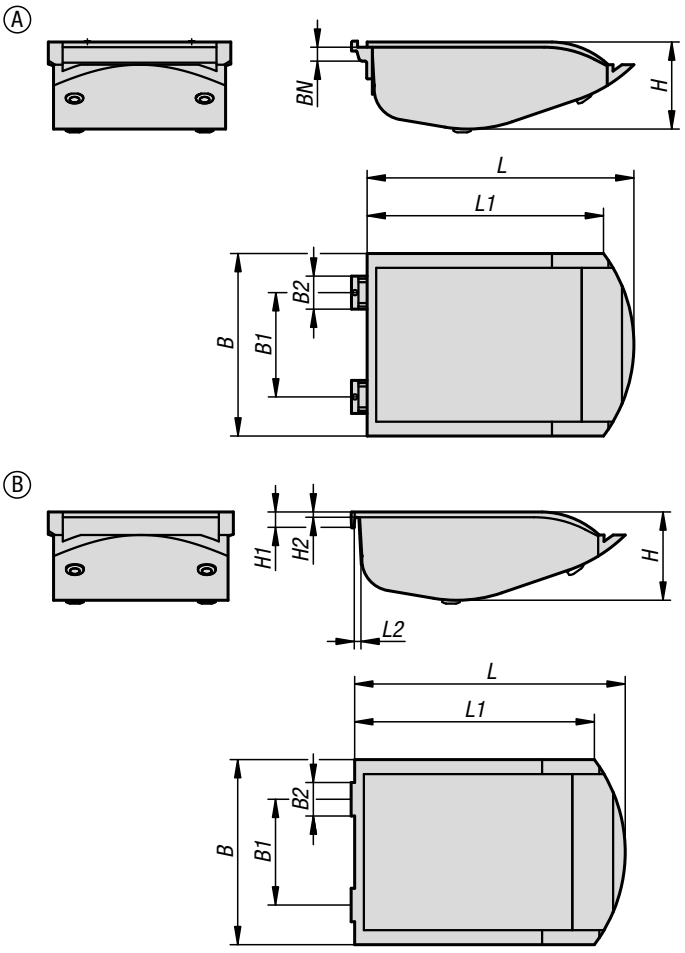
Supplied with:
1x clip-in shell bin
1x label holder
1x label
4x self-adhesive elastic buffers

KIPP Clip-in shell bins, plastic, for profile slots type I and type B and mounting profiles

Order No.	Version 1	Form	B	B1	B2	H	H1	H2	L	L1	L2	BN=slot width
K1631.00	type I	A	105	60	19	50	-	-	153,5	136	-	8
K1631.10	type B	A	105	60	19	50	-	-	153,5	136	-	10
K1631.20	for mounting profile	B	105	60	19	50	9	3	153,5	136	3	-

Clip-in shell bins, antistatic plastic,

for profile slots type I and type B and mounting profiles



there is risk of explosion.
These ESD products prevent electrostatic spark discharges, and eliminate the risk of ignition of gases and dust which could lead to explosions in enclosed spaces. Manufacturers and operators must apply and comply with the ATEX directives for protecting persons working in areas where there is a risk of explosion.

These ESD products have been certified by TÜV-Süd for their electrical discharge capability.

Material:
Bins carbon fibre reinforced antistatic PA.
Label holder PC.
Elastic buffers PU.

Sample order:
K1631.01

Note:
These bins can be easily clipped into profile slots or mounting profiles.
The bins for mounting profiles can be hooked onto perforated panels.
For holding small parts and selectively picking out the smallest of components.

Application:
Sensitive electrical or electronic equipment, components and devices (ESD sensitive elements) may be damaged or destroyed by electrostatic discharges (ESD) in the immediate vicinity.
Electrostatic discharges can come from people or through handling ESD sensitive components (e.g. during production, assembly, transport, storage etc).
Electrically conductive products which conform to DIN EN 61340-5-1 are essential within electronic environments to prevent an electrostatic discharge.
These products can be used for ESD applications or in ESD protection areas (EPA) in accordance with DIN EN 61340-5-1.

Supplied with:
1x clip-in shell bin
1x label holder
1x label
4x self-adhesive elastic buffers

Applications:
Device manufacturers required to conform to ATEX product directive 2014/34/EU.
Operators required to conform to ATEX worker protection directive 1999/92/EC.

Safety:
These ESD products can also be used for devices, components and protection systems in areas where

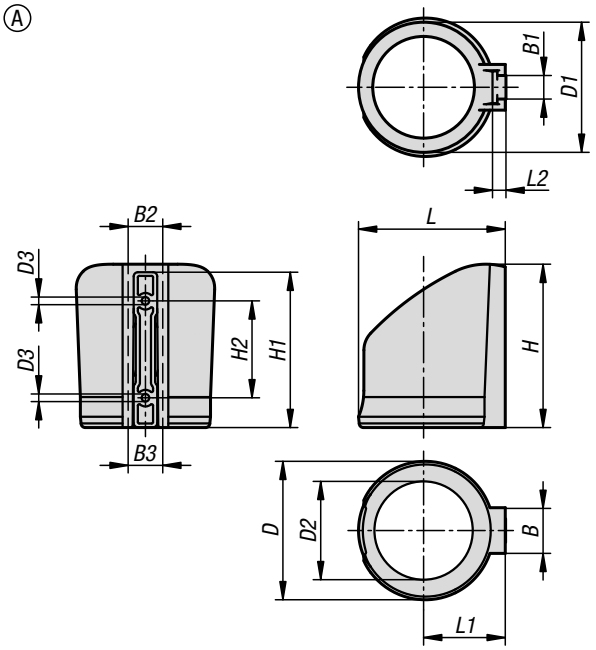
KIPP Clip-in shell bins, antistatic plastic, for profile slots type I and type B and mounting profiles

Order No.	Version 1	Form	B	B1	B2	H	H1	H2	L	L1	L2	BN=slot width
K1631.01	type I	A	105	60	19	50	-	-	153,5	136	-	8
K1631.11	type B	A	105	60	19	50	-	-	153,5	136	-	10
K1631.21	for mounting profile	B	105	60	19	50	9	3	153,5	136	3	-

Cup holder plastic

for aluminium profiles, closed or open

Ⓐ



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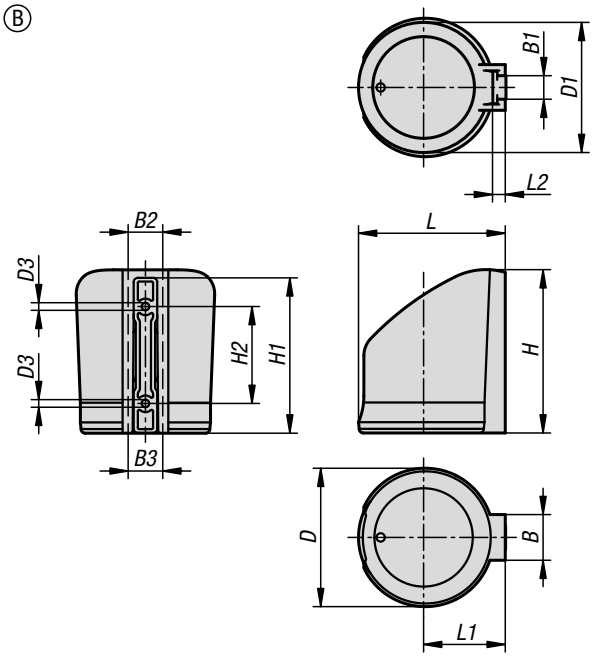


Material:
Cup holders PA, fibreglass reinforced.

Sample order:
K1632.10

Note:
The cup holders are fastened to the aluminium profile (type I and type B) using an M5 countersunk screw and a slot key.

Supplied with:
1x cup holder.
1x mounting.

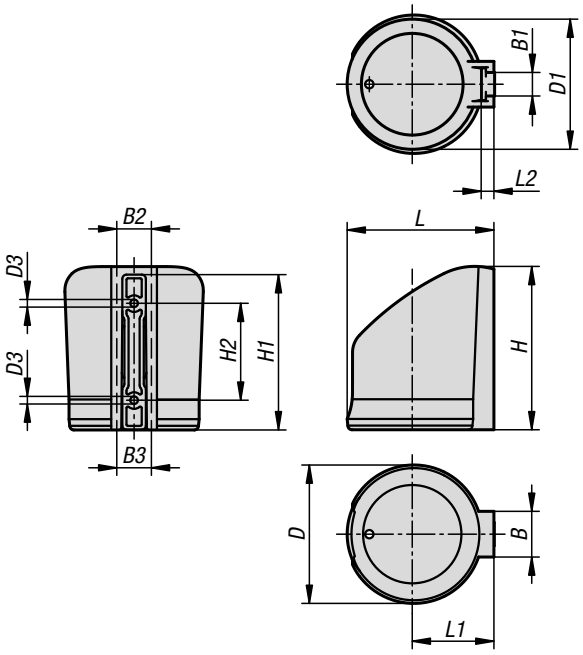
Drawing reference:
Form A: open
Form B: closed

KIPP Cup holder plastic for aluminium profiles, closed or open

Order No.	Version 1	B	B1	B2	B3	D	D1	D2	D3	H	H1	H2	L	L1	L2
K1632.00	open	33	17	25,5	23	100	93	71	5,5	118	112	70	106	59	9,3
K1632.10	closed	33	17	25,5	23	100	93	-	5,5	118	112	70	106	59	9,3

Cup holder plastic, antistatic

for aluminium profiles, closed or open



Material:
Cup holder antistatic PA, carbon fibre reinforced.

Sample order:
K1632.11

Note:
The cup holders are fastened to the aluminium profile (type I and type B) using an M5 countersunk screw and a slot key.

Application:
Sensitive electrical or electronic equipment, components and devices (ESD sensitive elements) may be damaged or destroyed by electrostatic discharges (ESD) in the immediate vicinity.
Electrostatic discharges can come from people or through handling ESD sensitive components (e.g. during production, assembly, transport, storage etc).
Electrically conductive products which conform to DIN EN 61340-5-1 are essential within electronic environments to prevent an electrostatic discharge.
These products can be used for ESD applications or in ESD protection areas (EPA) in accordance with DIN EN 61340-5-1.

Supplied with:
1x cup holder.
1x mounting.

Applications:
Device manufacturers required to conform to ATEX product directive 2014/34/EU.
Operators required to conform to ATEX worker protection directive 1999/92/EC.

Safety:
These ESD products can also be used for devices, components and protection systems in areas where there is risk of explosion.
These ESD products prevent electrostatic spark discharges, and eliminate the risk of ignition of gases and dust which could lead to explosions in enclosed spaces.
Manufacturers and operators must apply and comply with the ATEX directives for protecting persons working in areas where there is a risk of explosion.

These ESD products have been certified by TÜV-Süd for their electrical discharge capability.

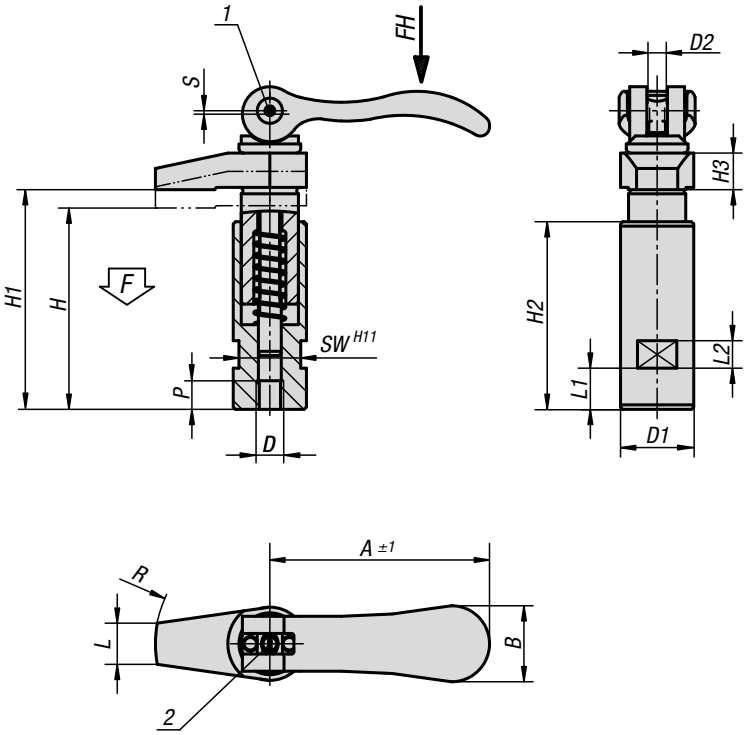
Drawing reference:
Form A: open
Form B: closed

KIPP Cup holder plastic, antistatic for aluminium profiles, closed or open

Order No.	Version 1	B	B1	B2	B3	D	D1	D3	H	H1	H2	L	L1	L2
K1632.11	closed	33	17	25,5	23	100	93	5,5	118	112	70	106	59	9,3

Hook clamps

with collar and cam lever



Material:
Body and hook, high-carbon steel.
Handles, cast aluminium EN AC-46200.
Thrust washer, fibreglass reinforced plastic PA 66 GF 35-X.
Hinge pin, stud and washer stainless steel 1.4305.

Version:
Body and hook tempered and black oxidised.
Handles, black powder-coated.
Thrust washer black.
Hinge pin, stud and washer bright.

Sample order:
K0013.106

Note:
Ideal for clamping where the parts are to be inserted from above as the hook can be swivelled out of the way.

The exact clamping height is set by the fine thread on the stud using a screwdriver. This setting can be secured with the locking screw. The length S corresponds to the cam travel.

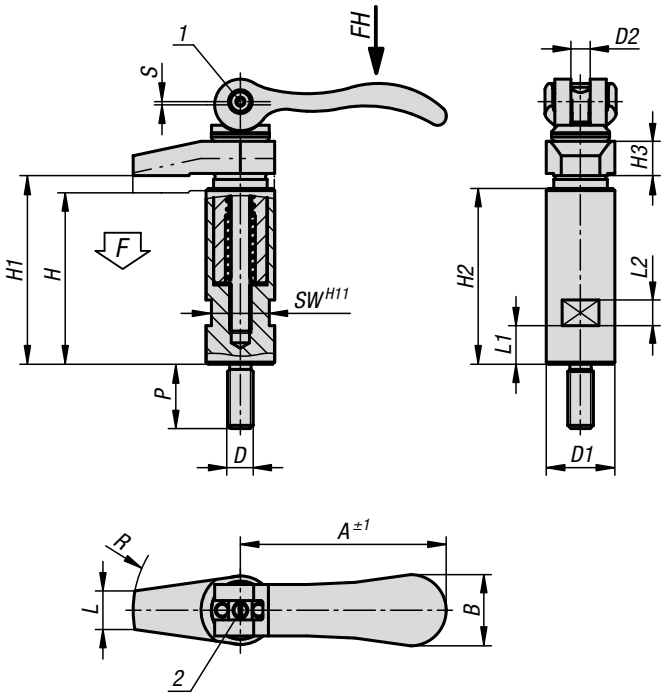
Drawing reference:
1) Locking screw for pin
2) Screw for fine adjustment of lever

KIPP Hook clamps with collar and cam lever

Order No.	D	D1	D2	H	H1	H2	H3	L	L1	L2	A	B	P	R	SW	Travel S	F kN	Hand force FH N
K0013.106	M6	20	M6x0,5	56	60	53	10	9	9	8	70,4	21,5	8	30	17	1,2	4	120
K0013.108	M8	20	M6x0,5	56	60	53	10	9	9	8	70,4	21,5	8	30	17	1,2	4	120
K0013.110	M10	25	M8x0,75	72	79	67	12	12	13	10	96	33,3	10	40	19	1,5	8	350
K0013.112	M12	32	M8x0,75	88	96	82	15	18	18	12	96	33,3	12	50	27	1,5	8	350

Hook clamps

with collar and cam lever



Material:
Body and hook, high-carbon steel.
Handles, cast aluminium EN AC-46200.
Thrust washer, fibreglass reinforced plastic PA 66 GF 35-X.
Hinge pin, stud and washer stainless steel 1.4305.

Version:
Body and hook tempered and black oxidised.
Handles, black powder-coated.
Thrust washer black.
Hinge pin, stud and washer bright.

Sample order:
K0013.208

Note:
Ideal for clamping where the parts are to be inserted from above as the hook can be swivelled out of the way.

The exact clamping height is set by the fine thread on the stud using a screwdriver. This setting can be secured with the locking screw. The length S corresponds to the cam travel.

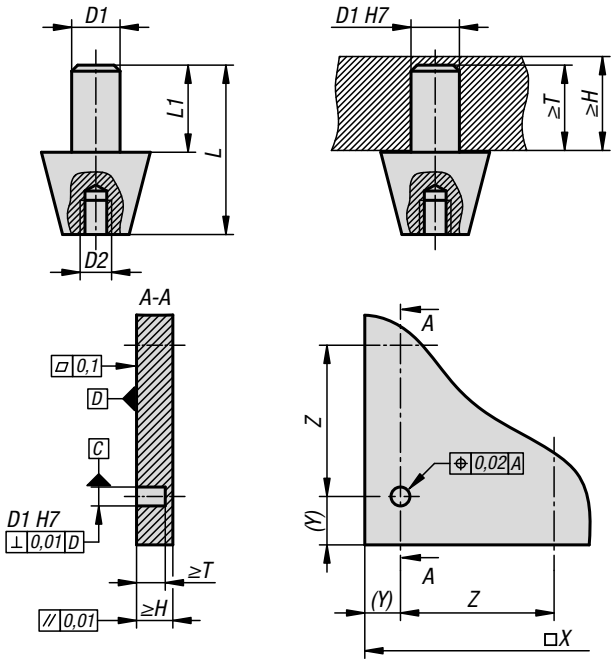
Drawing reference:
1) Locking screw for pin
2) Screw for fine adjustment of lever

KIPP Hook clamps with collar and cam lever

Order No.	D	D1	D2	H	H1	H2	H3	L	L1	L2	A	B	P	R	SW	Travel S	F kN	Hand force FH N
K0013.206	M6	20	M6x0,5	56	60	53	10	9	9	8	70,4	21,5	20	30	17	1,2	4	120
K0013.208	M8	20	M6x0,5	56	60	53	10	9	9	8	70,4	21,5	20	30	17	1,2	4	120
K0013.210	M10	25	M8x0,75	72	79	67	12	12	13	10	96	33,3	25	40	19	1,5	8	350
K0013.212	M12	32	M8x0,75	88	96	82	18	18	18	12	96	33,3	30	50	27	1,5	8	350

Positioning cones, steel,

for centring units



Material:
Cone, steel.
Balls, ball bearing steel.

Version:
Cone hardened and ground.
Balls embedded in rubber which is vucanised on the cones.

Sample order:
K1627.3

Note:
In conjunction with the position bushings, the position cones form a centring unit for the high-precision positioning of two components. The system achieves a repeat accuracy of <0.003 mm. The bonded rubber does not become brittle and is insensitive to contamination or swarf. Small embedded swarf splinters do not effect the system.

Temperature range:
+80°C.

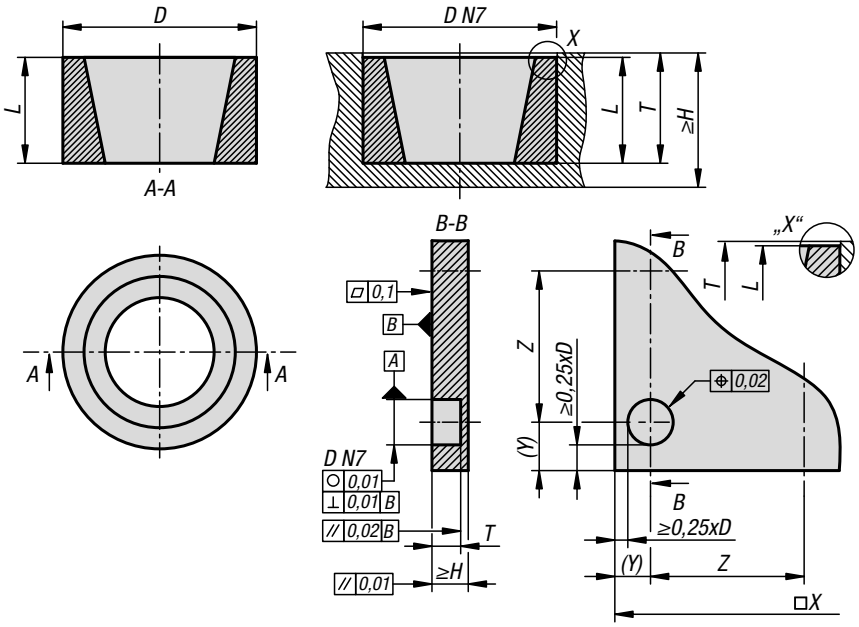
Functional principle:
When the positioning cone and bush are mated, the balls are pressed together within the rubbers elastic range and thus locate the two parts in which they have been fitted, with maximum accuracy. To ensure that the rubber in which the balls are embedded is deformed within the elastic range, one must merely ensure that the depth of the hole into which the positioning bush is later pressed is precisely observed. The positioning cone is supplied ready to fit into the positioning bush and must simply be fitted into the counterpart component. Henceforth, a precise zero point positioning system is in place.

KIPP Cone centring unit

Order No.	Size	D1	D2	H min.	L max.	L1	T min.	for Art. No.
K1627.1	1	6	M4	12	17,5	9	9	K1628.1
K1627.3	3	10	M8	21	35	18	18	K1628.3

Positioning bush steel

for centring units



Material:
Steel.

Version:
Hardened and ground.

Sample order:
K1628.3

Note:
These positioning bushes match positioning cones.

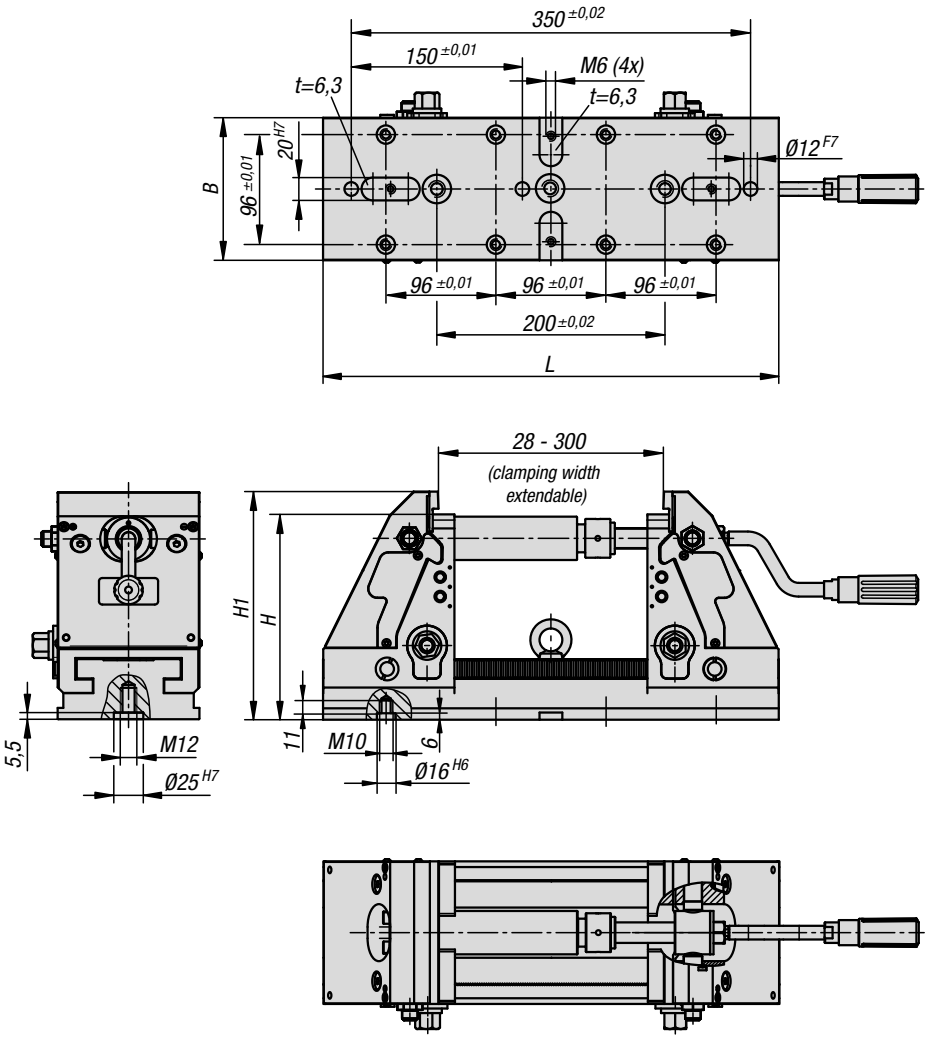
Temperature range:
+80°C.

KIPP Bush centring unit

Order No.	Size	D	H min.	L max.	T	for Art. No.
K1628.1	1	16	12,5	8,5	9-0,1	K1627.1
K1628.3	3	32	25	17,5	18-0,1	K1627.3

KIPPflexX 5-axis vice

jaw plates smooth



The KIPPflexX 5-axis vice features excellent stability and flexibility, and is extremely easy to use. The KIPPflexX 5-axis vice can be used as a positive-down force vice or normal vice. When the positive down force function is used, the workpiece can be held with a repeat accuracy of ±0.01 mm. A workpiece clamping height of 180 mm enables easy access during machining. The clamping width is preset using the crank handle, cutting down on setup times. Additionally, the closed geometries and the resistance to dirt that they provide keep maintenance and repair times to a minimum.

Material:
Steel.

Version:
Baseplate and workpiece support hardened.

Sample order:
K1555.124001251800

Note:
Additional product information can be found in the operating instructions.

Method of operation:
Quick adjustment using crank handle.

Advantages:
For use as centric-clamping device with positive down force function or vice.
Straightforward, infinite clamping width adjustment using crank handle.
Optimum clamping height for 5-axis machining.
Flexible options for connection to machine tables.

On request:
Various spare parts, larger clamping widths.

Supplied with:
KIPPflexX 5-axis vice with smooth jaw plates, threaded spindle, 3 adapter shafts (60, 120, 180), crank handle, ring bolt for hoisting and operating instructions.

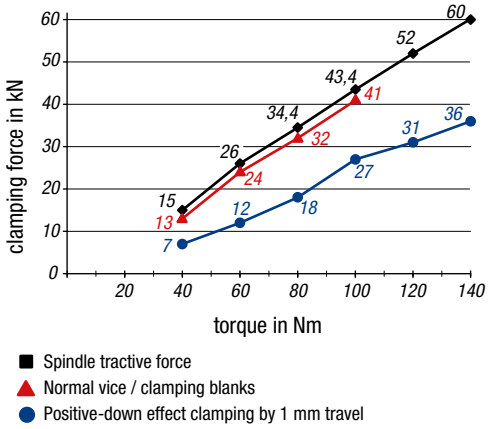
KIPP KIPPflexX 5-axis vice jaw plates smooth

Order No.	B	H	H1	L	Tractive force max. kN
K1555.124001251800	125	180	200	400	see diagram

KIPPflexX 5-axis vice

jaw plates smooth

5-axis vice KIPPflexX clamping force diagram



Accessories:
Jaw plates with pins K1557.1251
Jaw plates, machinable K0975.1252
Seating ledges K0974
Extension shafts K0990
Cylinder clamping set K0989.12535
Stop set K0993.150
Clamping claw sets K1008
Fitted bolts K0815.12065
Socket head screws K0869.12X60
Torque wrench K1489.01
Clamping pin K0967
Slot nuts K0954.14X20

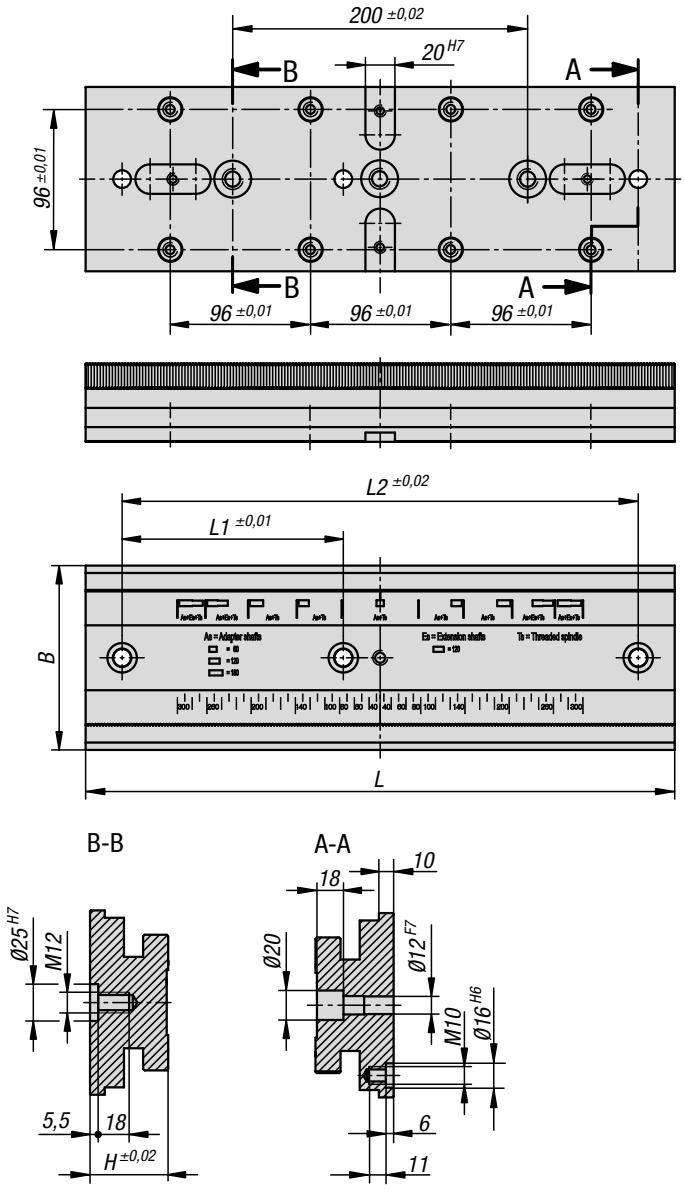
Clamping force:
52 kN

Applications:
Suitable for T-slot and grid hole tables and zero-point clamping systems.

Tolerances:
With a clamping depth of > 5 mm, the repeat accuracy while the positive down force function is being used is ±0.01.

Baseplates

KIPPflexX 5-axis vice



The baseplates offer versatile connection options. The locating slots on the underside can be used to perform alignment directly on the machine table using slot keys. Fastening in 12F7 grid holes with grid spacing of 50 mm is also possible. Claw clamps or separate clamping devices can be located on the side recess. The baseplate is also suitable for all standard zero-point clamping systems with a centre distance of 200 mm.
The integrated central hole can also be used for alignment. In this case, a specific centre pin is used to perform central alignment on the machine table.

Material:
Steel.

Version:
Hardened and black oxidised.
Contact faces ground.

Sample order:
K1556.125400

Note:
Additional product information can be found in the operating instructions.

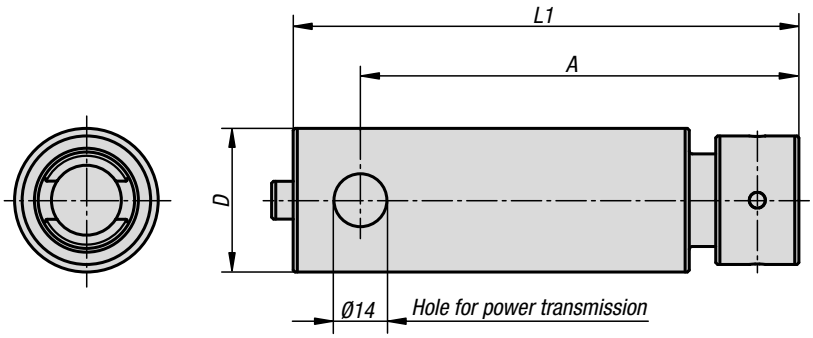
On request:
other dimensions.

Applications:
Suitable for T-slot tables, basic elements with grid holes and zero-point clamping systems.

KIPP Baseplates, KIPPflexX 5-axis vice

Order No.	B	L
K1556.125400	125	400

Adapter shafts



Material:
Carbon steel.

Version:
Black oxidised.

Sample order:
K0991.060

Note:
For setting the clamping width.
Supplied with union nut.
The adapter shafts are linked to the vice jaws by the lateral holes.
An adapter shaft must be mounted in every compact 5-axis clamp/KIPPflexX.

Drawing reference:
1) Clamping width 20-72 mm - Adapter shaft 60 mm + threaded spindle
2) Clamping width 72-135 mm - Adapter shaft 60 mm + expansion rod 60 mm + threaded spindle
3) Clamping width 80-140 mm - Adapter shaft 120 mm + threaded spindle
4) Clamping width 140-200 mm - Adapter shaft 180 mm + threaded spindle
5) Clamping width 140-200 mm - Adapter shaft 120 mm + extension shaft 60 mm + threaded spindle
6) Clamping width 200-260 mm - Adapter shaft 180 mm + extension shaft 60 mm + threaded spindle
7) Clamping width 200-260 mm - Adapter shaft 120 mm + extension shaft 120 mm + threaded spindle
8) Clamping width 260-320 mm - Adapter shaft 180 mm + extension shaft 120 mm + threaded spindle
9) Clamping width 260-320 mm - Adapter shaft 120 mm + extension shaft 120 mm + extension shaft 60 mm + threaded spindle
10) Clamping width 320-380 mm - Adapter shaft 180 mm + extension shaft 120 mm + extension shaft 60 mm + threaded spindle

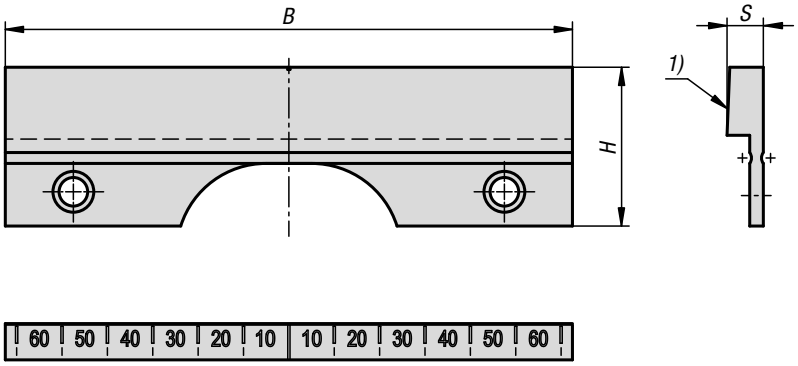
KIPP Adapter shafts

Order No.	A	D	L1	Clamp range
K0991.060	56	38	74	20-80
K0991.120	116	38	134	80-140
K0991.180	176	38	194	140-200

Expanded

Smooth jaw plates

KIPPflexX 5-axis vice



The smooth jaw plates are used for pull-down clamping of pre-machined and ground workpiece surfaces.

Material:
Steel.

Version:
Hardened, bright.
Laser marked scale.
Clamping surface carbide coated.

Sample order:
K1557.1250

Note:
Additional product information can be found in the operating instructions.

Accessories:
Torx screws M6x10

Applications:
For pre-machined and ground workpiece surfaces

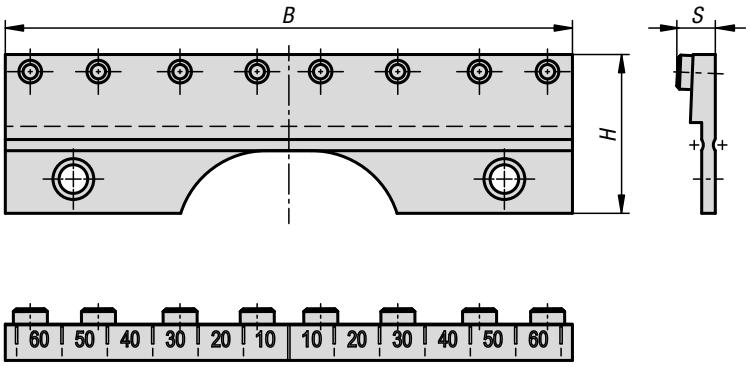
Drawing reference:
1) Clamping surface carbide coated

KIPP Smooth jaw plates, KIPPflexX 5-axis vice

Order No.	B	H	S
K1557.1250	125	35	8,5

Jaw plates with pins

KIPPflexX 5-axis vice



The jaw plates with pins are used for positive clamping without pre-forming; e.g. on blanks, castings and for roughing out.

Material:
Steel.

Version:
Hardened, bright jaw plates.
Hardened, black-oxidised jaw pins.
Laser marked scale.

Sample order:
K1557.1251

Note:
Additional product information can be found in the operating instructions.

Accessories:
Torx screws M6x10

Applications:
Positive clamping without pre-forming.

KIPP Jaw plates with pins, KIPPflexX 5-axis vice

Order No.	No. of pins	B	H	S
K1557.1251	8	125	35	8,5

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