

HP C

Mechanical components by mail order

NEW PRODUCTS 2017



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NEW PRODUCTS

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PRATICAL INFORMATION

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Limited liability company, Issued Capital 76,224 Euros
Company Registration No: 38291190700030
Company Classification APE 4669B
Intra-Community VAT N°: FR 41 382 911 907

* Certain conditions apply - Deliveries to mainland France only

Thermal camera for use with smartphone

CAMTH

- Thermal camera for use with both iOS and Android smartphones
- Detects invisible thermal energy and allows the user to "see" and measure small changes in temperature.
- Connects to the smartphone via a micro-USB port (Android) or Lightning connector (iOS) and displays the thermal images on the smartphone screen.

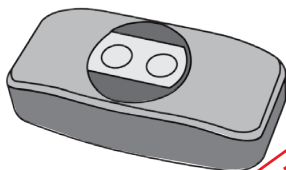
Application

- Searching for sources of heat
- Improving energy efficiency of buildings or machines
- Identifying an invisible failure or leak

Info.

- As this type of technology is evolving rapidly, the technical characteristics may vary depending on the model and the year.

2016 model



ATTENTION: MODEL IS ABOUT TO CHANGE



DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-5%	On request

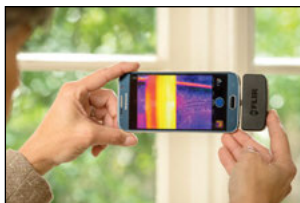
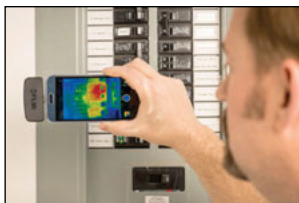
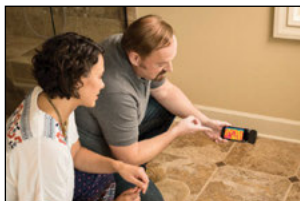
Part number	Operating system	Dimensions (mm)	Weight (g)	Price each
CAMTH-IOS-VERS2016	IOS	65x29x18	32	340,00 €
CAMTH-AND-VERS2016	Android	65x29x18	32	340,00 €

Price 2017 - Dimensions in mm

Thermal camera for use with smartphone

CAMTH

Easy to set-up and operate



Mechanical motor drive

CHV

With 4 pole motor

- Reduction ratio 1:5
- With 4 pole motor, 1,400 RPM 230/400V
- B5 mounting flange
- Materials:
 - Aluminium for sizes 02, 05 and 10
 - Cast iron for size 20
- Paint : grey RAL 9022

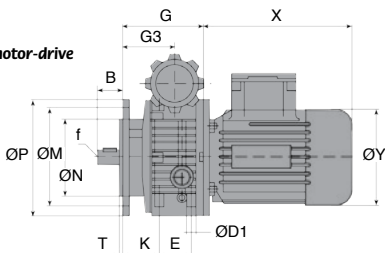


Advantages

- Simple speed adjustment by a mechanical handle
- Good efficiency

Use

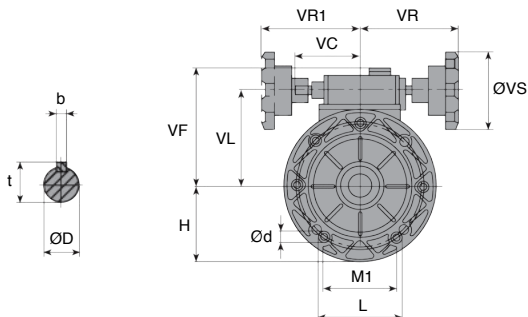
- The drives are supplied with lubrication for horizontal use
- Attention: supplied with motor only
- **Do not adjust the handle when the motor-drive is not connected to the final device: risk of irreversible damage.**



Part number	Motor power kW	Output speed (rpm)	Torque (Nm)	B	ØD1	E	G	G3
CHV02-0.18	0,18	170-880	3-1,5	23	M6	50	112,5	64,5
CHV02-0.22	0,22	170-880	3,8-1,9	23	M6	50	112,5	64,5
CHV05-0.37	0,37	200-1000	6-3	30	M8	40	110,0	74,0
CHV10-0.75	0,75	200-1000	12-6	40	M8	58	139,0	85,5
CHV20-1.10	1,1	200-1000	18-9	50	-	-	188,0	115,0
CHV20-1.50	1,5	200-1000	24-12	50	-	-	188,0	115,0

Part number	X	ØY	ØM	ØN	ØP	T	K	f
CHV02-0.18	192	130	115	95	140	3,5	46,0	M5
CHV02-0.22	192	130	115	95	140	3,5	46,0	M5
CHV05-0.37	225	145	130	110	160	3,5	52,5	M6
CHV10-0.75	250	165	165	130	200	3,5	60,0	M6
CHV20-1.10	205	185	165	130	200	3,5	-	M8
CHV20-1.50	205	185	165	130	200	3,5	-	M8

Dimensions in mm



DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-7%	On request

Part number	VC	VF	VL	VR	VR1	$\varnothing VS$	Oil (kg)
CHV02-0.18	71	111	78	110	110	85	0,13
CHV02-0.22	71	111	78	110	110	85	0,13
CHV05-0.37	71	123	90	110	110	85	0,15
CHV10-0.75	79	140	107	120	120	110	0,33
CHV20-1.10	-	144	122	150	-	110	0,80
CHV20-1.50	-	144	122	150	-	110	0,80

Part number	M1	L	H	$\varnothing d$	$\varnothing D$ (j6)	t	b	Weight (kg)	Price each 1 to 5
CHV02-0.18	60	72	70	9	11	12,5	4	3,4	383,55 €
CHV02-0.22	60	72	70	9	11	12,5	4	3,4	391,45 €
CHV05-0.37	76	90	80	9	14	16,0	5	4,7	468,24 €
CHV10-0.75	84	98	100	11	19	21,5	6	7,8	623,29 €
CHV20-1.10	-	241	126	11	24	27,0	8	31,0	924,91 €
CHV20-1.50	-	241	126	11	24	27,0	8	31,0	967,02 €

Dimensions in mm

Symbols

P = Power (kW)
i = Reduction ratio
T = Torque (Nm)
n = Speed (rpm)
Fr = Radial load (N)

Fa = Axial load (N)
f.s. = Service factor
D = Diameter (mm)
1 kW = 1.36 HP
9,81N = 1 kg

General information

$$P_1 \cdot \eta = P_2$$

P_1 = Input power

P_2 = Output power

η = Efficiency

Rotation speeds

n_1 = Input speed

n_2 = Output speed

Reduction ratio

$$i = \frac{n_1}{n_2}$$

Torque

$$T_2 = \frac{9550 \cdot P_1 \cdot \eta}{n_2} \text{ [Nm]}$$

$$T_{2n} \geq T_2 \cdot f_s \text{ [Nm]}$$

T_2 = Output torque

T_{2n} = Maximum output torque

P_1 = Input power

η = Efficiency

f_s = Service factor

Radial load

The radial load is proportional to the torque required and inversely proportional to the transmitting diameter:

$$F_R = \frac{2000 \cdot T \cdot T.e.f.}{D} \quad [\text{N}]$$

F_R = Radial load

T = Torque (Nm)

T.e.f. = Transmission factor

T.e.f. = 1.15 for gear

= 1.4 for chain sprockets

= 1.75 for V pulleys

= 2.5 for flat pulleys

D = Transmitting diameter

Lubrication

- All motor-drives and drives are delivered pre-lubricated.

Paint finish

- All motor-drives, drives and motors have a grey RAL9022 epoxy powder finish.

- Larger motor-drives and motors are made of cast iron, the others of aluminium.

Operation and maintenance

- The screws under the crank are preset, they should not be touched.

- Do not adjust the handle when the motor-drive is not attached as there is a risk of irreversible damage.

- The drives are delivered lubricated, check the level before use.

- Check the level periodically after use

- The temperature after use can reach 50 to 55°C more than ambient temperature.

Types of load

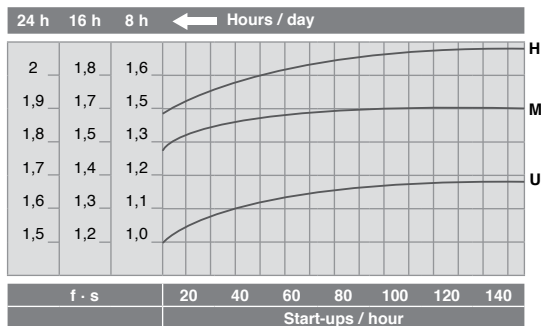
- **U** = Conveyor for light loads, centrifugal pumps, lifts, bottling machines
- **M** = Heavy load conveyor, packaging machines, woodworking machines, gear pumps
- **H** = Mixers, Machines, Vibrators...

Service factor

The service factor depends mainly on 3 parameters:

- Type of load
- Operating time (h / day)
- How often the motor is started

U = uniform
M = moderate
H = heavy
na/h = start-ups/hour



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Split shaft collar with clamp lever

BAG-MI

Steel

- Ensures a uniform distribution of the clamping force
- Clamps securely to any type of shaft
- Material:
Burnished steel (S250Pb)

Repeated operations

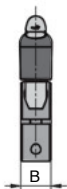
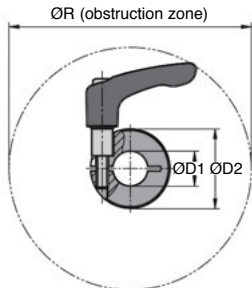


Advantages

- Fits perfectly on to the shaft with a high clamping force but without risk of damage

Info.

- Recommended shaft tolerance: h11



DISCOUNTS

Qty	1+	6+	20+	40+
Disc.	List	-15%	-20%	On request

Part number	ØD1	ØD2	B	ØR	Price each 1 to 5
BAG1-010-MI	10	24	9	44,1	14,10 €
BAG1-012-MI	12	28	11	90,4	14,41 €
BAG1-015-MI	15	34	13	105,0	15,57 €
BAG1-016-MI	16	34	13	105,0	15,90 €
BAG1-018-MI	18	36	13	105,7	16,60 €
BAG1-020-MI	20	40	15	103,8	17,35 €
BAG1-022-MI	22	42	15	104,2	17,35 €
BAG1-025-MI	25	45	15	104,8	18,38 €
BAG1-028-MI	28	48	15	106,8	18,38 €
BAG1-030-MI	30	54	15	112,6	21,10 €
BAG1-040-MI	40	60	15	113,2	23,93 €
BAG1-050-MI	50	78	19	150,2	44,46 €

Dimensions in mm

Split shaft collar with clamp lever

Stainless steel

BAG-MI/SS

- Ensures a uniform distribution of the clamping force
- Clamps securely to any type of shaft
- Material:
Polished stainless steel (303)

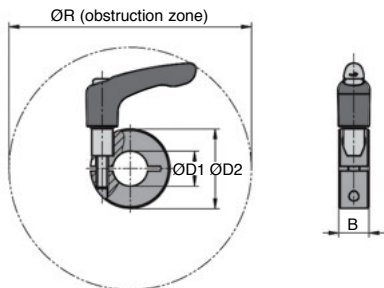
Repeated operations

Advantages

- Fits perfectly on to the shaft with a high clamping force but without risk of damage

Info.

- Recommended shaft tolerance: h11



DISCOUNTS

Qty	1+	6+	40+
Disc.	List	-15%	On request

Part number	ØD1	ØD2	B	ØR	Price each 1 to 5
BAG1-010-MI/SS	10	24	9	44,1	20,53 €
BAG1-012-MI/SS	12	28	11	90,4	20,84 €
BAG1-015-MI/SS	15	34	13	105,0	24,35 €
BAG1-016-MI/SS	16	34	13	105,0	24,63 €
BAG1-018-MI/SS	18	36	13	105,7	27,19 €
BAG1-020-MI/SS	20	40	15	103,8	31,51 €
BAG1-022-MI/SS	22	42	15	104,2	32,35 €
BAG1-025-MI/SS	25	45	15	104,8	33,21 €
BAG1-028-MI/SS	28	48	15	106,8	34,91 €
BAG1-030-MI/SS	30	54	15	112,6	36,62 €
BAG1-040-MI/SS	40	60	15	113,2	50,82 €
BAG1-050-MI/SS	50	78	19	150,2	100,80 €

Dimensions in mm

Flanged sheet stainless steel housing for light loads

BPFLSS

Flange with 2 mounting holes

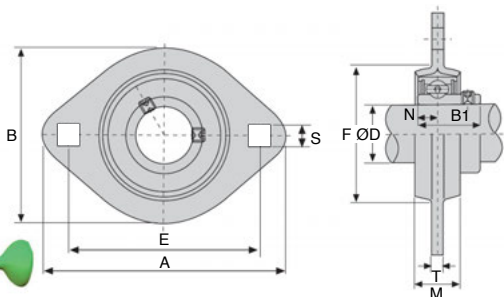
- Palier tôle emboutie
- Matière :
inox

Application

- Mounting a simple bearing, suitable for light loads only

NEW:
stainless steel
range

stainless
steel



DISCOUNTS

Qty	1+	6+	20+	40+	60+
Disc.	List	-10%	-15%	-20%	On request

Part number	ØD	A	E	B	M	S	T	F	Bolt size	B1	N	Weight (kg)	Price each
													1 to 5
BPFL204/SS	20	90	71	67	16	8,7	2	55,5	M8	25	7	0,22	17,57 €
BPFL205/SS	25	95	76	71	18	8,7	2	60,5	M8	27	7,5	0,27	20,60 €
BPFL206/SS	30	113	90,5	84	18	10,3	2,6	71,5	M10	30	8	0,41	30,51 €
BPFL207/SS	35	122	100	94	20	10,5	2,6	81,0	M10	32	8,5	0,55	52,32 €

Dimensions in mm

Pressed stainless steel bearing for light loads

Flange with 3 mounting holes

BPFss

- Pressed sheet steel housing
- Material: stainless steel

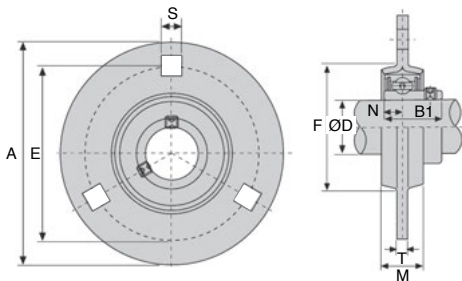
Application

- Mounting a simple bearing, suitable for light loads only

NEW:
stainless steel
range



stainless
steel



DISCOUNTS

Qty	1+	6+	20+	40+	60+
Disc.	List	-10%	-15%	-20%	On request

Part number	ØD	A	E	T	M	S	F	Bolt size	B1	N	Weight (kg)	Price each 1 to 5
BPF204/SS	20	90	71	2	16	9	56	M8	25	7	0,29	18,54 €
BPF205/SS	25	95	76	2	18	9	60	M8	27	7,5	0,34	23,11 €
BPF206/SS	30	113	90	2,6	18	11	71	M8	30	8	0,55	13,11 €
BPF207/SS	35	122	100	2,6	20	11	81	M10	32	8,5	0,69	17,27 €

Dimensions in mm

Pressed stainless steel bearing for light loads

BPPss

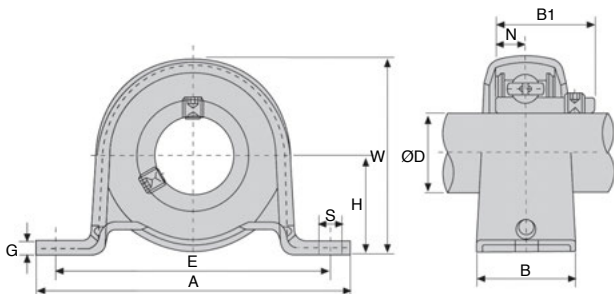
2 mounting holes

NEW:
stainless steel
range

- Pressed sheet steel housing
- Material:
stainless steel

Application

- Mounting a simple bearing, suitable for light loads only



DISCOUNTS

Qty	1+	6+	20+	40+	60+
Disc.	List	-10%	-15%	-20%	On request

Part number	ØD	H	A	E	B	S	G	W	Bolt size	B1	N	Weight (kg)	Price each
													1 to 5
BPP204/SS	20	25,4	98	76	32	9	3,2	50	M8	25	7	0,22	17,21 €
BPP205/SS	25	28,6	108	86	32	11	4	56	M10	27	7,5	0,29	22,99 €
BPP206/SS	30	33,3	117	95	38	11	4	66	M10	30	8	0,43	26,36 €
BPP207/SS	35	39,7	129	106	42	11	5	78	M10	32	8,5	0,63	49,78 €

Dimensions in mm

304 stainless steel high helix leadscrew

Travel of up to 40mm
per rotation

TPR

- Leadscrew only
- Right handed threaded
- For rapid adjustment applications as an alternative to using pneumatic systems or toothed drive belts
- No locking mechanism
- Material:
stainless steel 304

New sizes

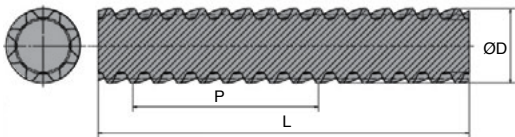


Accessories

- Compatible with EPRC and EPRF
(No compatible with ECPR)

Info.

- Max length 3000mm
(Except TPR6.35: max.1000mm)



DISCOUNTS

Qty	1+	5+	10+
Disc.	List	-5%	On request

Part number	ØD	Pitch P (mm)	Pitch angle	Nombre of starts	Length L (mm)	Price each 1 to 4
TPR6.35-2.54-1000/SS	6,35	2,54	7,26°	2	1000	38,99 €
TPR6.35-25.4-1000/SS	6,35	25,4	51,85°	8	1000	41,38 €
TPR10-12-1000/SS	10	12	21,54°	4	1000	68,99 €
TPR10-25-1000/SS	10	25	38,51°	8	1000	70,79 €
TPR10-50-1000/SS	10	50	57,86°	10	1000	92,38 €
TPR14-25-1000/SS	14	25	29,61°	5	1000	101,98 €
TPR14-30-1000/SS	14	30	34,30°	6	1000	106,18 €
TPR18-40-1000/SS	18	40	35,65°	8	1000	131,84 €

Dimensions in mm

Flanged nut for high helix lead-screw

EPRF

Up to 40mm
of travel per rotation

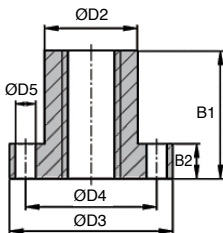
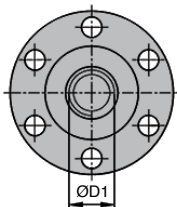
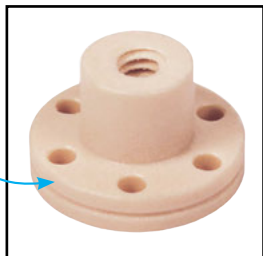
- Nut only
- Right handed thread
- Lubricant free, low wear
- Material:
Iglidur J

Accessories

- Used efficiency irrespective of speed

Advantages

- High efficiency irrespective of speed
- Low wear
- Excellent coefficient of friction
- High speed



DISCOUNTS

Qty	1+	5+	10+
Disc.	List	-5%	On request

Part number	ØD1	Pitch P (mm)	ØD2	ØD3	ØD4	ØD5	B1	B2	Max axial static force (N)	Price each 1 to 4
EPRF6.35-2.54	6,35	2,54	13	25	15	3,2	15	5	125	47,59 €
EPRF6.35-25.4	6,35	25,4	13	25	15	3,2	15	5	125	49,96 €
EPRF10-12	10	12	25	42	34	5	25	10	845	49,74 €
EPRF10-25	10	25	25	42	34	5	25	10	780	52,23 €
EPRF10-50	10	50	25	42	34	5	25	10	453	54,83 €
EPRF14-25	14	25	28	48	38	6	35	12	1428	60,12 €
EPRF14-30	14	30	28	48	38	6	35	12	1428	63,12 €
EPRF18-40	18	40	28	48	38	6	35	12	1910	75,77 €

Dimensions in mm

Cylindrical nut for high helix lead-screw

Up to 40mm
of travel per rotation

EPRC

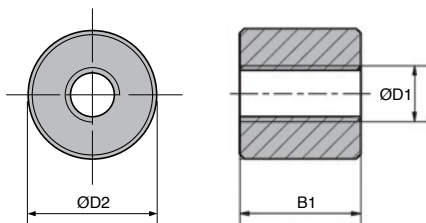
- Nut only
- Right handed thread
- Lubricant free, low wear
- Material:
Iglidur J

Accessories

- Used with TPR high helix lead-screws
(not compatible with LPR lead-screws)

Advantages

- High efficiency irrespective of speed
- Low wear
- Excellent coefficient of friction
- High speed



DISCOUNTS

Qty	1+	5+	10+
Disc.	List	-5%	On request

Part number	ØD1	Pitch P (mm)	ØD2	B1	Max axial static force (N)	Price each 1 to 4
EPRC6.35-2.54	6,35	2,54	14	13	152	42,46 €
EPRC6.35-25.4	6,35	25,4	14	13	152	44,57 €
EPRC10-12	10	12	22	20	755	43,18 €
EPRC10-25	10	25	22	20	623	45,46 €
EPRC10-50	10	50	22	20	365	47,72 €
EPRC14-25	14	25	30	27	1120	56,70 €
EPRC14-30	14	30	30	27	932	61,88 €
EPRC18-40	18	40	40	36	2005	74,25 €

Dimensions in mm

Spacer for index bolt

SLBE

Used with SLB and SLBS

- Allows the length of the thread of index bolts to be adapted to the length required for an application (wall thickness)

- Material:

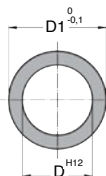
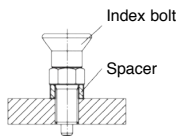
stainless steel, natural finish

Accessories

- Used with SLB and SLBS index bolts
SLB and SLBS

Info

- Not sold individually,
contact us for details



DISCOUNTS

Qty	1+	40+	100+	200+
Disc. List	-5%	-10%	On request	On request

Part number	ØD	ØD1	Length L (mm)	Weight (kg)	Price each 1 to 39
SLBE8-11-2/SS	8	11	2	0,6	0,57 €
SLBE8-11-3/SS	8	11	3	0,9	0,60 €
SLBE8-11-4/SS	8	11	4	1,3	0,66 €
SLBE8-11-6/SS	8	11	6	2,0	0,69 €
SLBE8-11-8/SS	8	11	8	2,6	0,75 €
SLBE10-14-2/SS	10	14	2	1,1	0,60 €
SLBE10-14-3/SS	10	14	3	1,7	0,69 €
SLBE10-14-4/SS	10	14	4	2,2	0,69 €
SLBE10-14-6/SS	10	14	6	3,4	0,75 €
SLBE10-14-8/SS	10	14	8	4,5	0,84 €
SLBE12-15-2/SS	12	15	2	0,9	0,66 €
SLBE12-15-4/SS	12	15	4	1,9	0,75 €
SLBE12-15-5/SS	12	15	5	2,4	0,81 €
SLBE12-15-6/SS	12	15	6	2,8	0,84 €
SLBE12-15-8/SS	12	15	8	3,8	0,93 €
SLBE12-17-2/SS	12	17	2	1,6	0,75 €
SLBE12-17-4/SS	12	17	4	3,4	0,84 €
SLBE12-17-5/SS	12	17	5	4,3	0,93 €
SLBE12-17-6/SS	12	17	6	5,2	0,96 €
SLBE12-17-8/SS	12	17	8	6,9	1,03 €
SLBE16-21-4/SS	16	21	4	4,4	0,96 €
SLBE16-21-5/SS	16	21	5	5,5	1,03 €
SLBE16-21-6/SS	16	21	6	6,6	1,12 €
SLBE16-21-8/SS	16	21	8	8,8	1,21 €
SLBE16-21-10/SS	16	21	10	11,0	1,27 €

Dimensions in mm

Miniature indexing button

For reduced spaces

BIM

Miniature

- Particularly suitable for screwing into thin-walled parts.
- Works well in reduced spaces
- Non-removable spaces
- Materials:
Head - matt thermoplastic
Body - galvanised steel or 303 stainless steel
Pin - 303 stainless steel

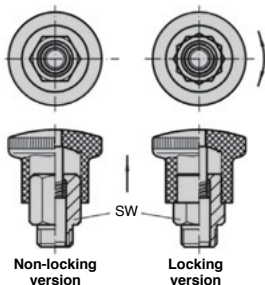
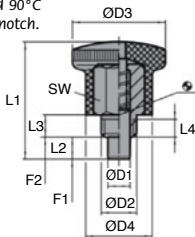


Assembly

- Screw in as far as possible, then pull on the button to reveal the hexagonal nut for final assembly.

Operation

- For the locking version, the button is pulled and then turned 90° where it is retained in a notch.
- Working temperature range -30°C to 80°C



DISCOUNTS

Qty	1+	6+	20+
Disc	List	-10%	On request

Part number	ØD1	ØD2	L1	ØD3	ØD4	L2	L3	L4	SW	F1 (N)	F2 (N)	Weight (g)	Price each 1 to 5
Non-locking version													
BIM4-8-26.5	4	M8x0,75	26,5	21,0	15,0	5	5	3,5	10	4,5	12	14	7,60 €
BIM5-8-26.5	5	M8x0,75	26,5	21,0	15,0	5	5	3,5	10	4,5	12	14	7,81 €
BIM6-10-34	6	M10x1	34	25,0	18,0	7	7	4,5	12	5	18	25	9,18 €
BIM7-10-34	7	M10x1	34	25,0	18,0	7	7	4,5	12	5	18	26	9,64 €
Locking version													
BIM4-8-26.5/LOK	4	M8x0,75	26,5	21,0	15,0	5	5	3,5	10	4,5	12	13	7,60 €
BIM5-8-26.5/LOK	5	M8x0,75	26,5	21,0	15,0	5	5	3,5	10	4,5	12	14	7,81 €
BIM6-10-34/LOK	6	M10x1	34	25,0	18,0	7	7	4,5	12	5	18	24	9,18 €
BIM7-10-34/LOK	7	M10x1	34	25,0	18,0	7	7	4,5	12	5	18	25	9,64 €

Dimensions in mm

Stainless steel miniature indexing button

BIM/ss

For reduced spaces

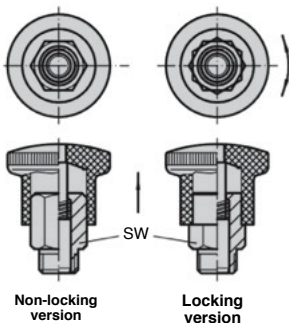
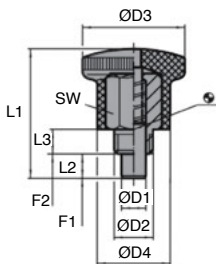
- Particularly suitable for screwing into thin-walled parts.
- Works well in reduced spaces
- Non-removable button
- Materials:
 - Head - 304 stainless steel
 - Body - 304 stainless steel
 - Pin - 303 stainless steel

Assembly

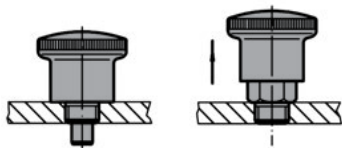
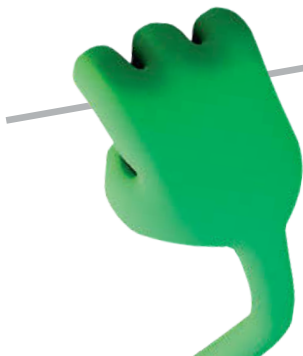
- Screw in as far as possible, then pull on the button to reveal the hexagonal nut for final assembly.

Operation

- For the locking version, the button is pulled and then turned 90°C where it is retained in a notch.
- Max working temperature 250°C.



BIMSS



DISCOUNTS

Qty	1+	6+	20+
Disc	List	-10%	On request

Part number	ØD1	ØD2	L1	ØD3	Ød4	L2	L3	SW	F1 (N)	F2 (N)	Weight (g)	Price each 1 to 5
Non-locking version												
BIM4-8-27.5/SS	4	M8	27,5	21,0	15	5	6	10	4	12	28	18,94 €
BIM4-8F-27.5/SS	4	M8x1	27,5	21,0	15	5	6	10	4	12	28	18,94 €
BIM5-10-34/SS	5	M10	34	25,0	18	6	8	12	6	16	49	21,17 €
BIM5-10F-34/SS	5	M10x1	34	25,0	18	6	8	12	6	16	50	21,17 €
BIM6-10-34/SS	6	M10	34	25,0	18	6	8	12	6	16	50	21,17 €
BIM6-10F-34/SS	6	M10x1	34	25,0	18	6	8	12	6	16	50	21,17 €
BIM6-12-40.5/SS	6	M12	40,5	28,0	20	7	10	14	10	23	74	25,84 €
BIM6-12F-40.5/SS	6	M12x1,5	40,5	28,0	20	7	10	14	10	23	75	25,84 €
BIM7-12-40.5/SS	7	M12	40,5	28,0	20	7	10	14	10	23	75	25,41 €
BIM7-12F-40.5/SS	7	M12x1,5	40,5	28,0	20	7	10	14	10	23	75	25,41 €
BIM8-16-47.5/SS	8	M16	47,5	33,0	23	10	12	17	11	34	110	31,90 €
BIM8-16F-47.5/SS	8	M16x1,5	47,5	33,0	23	10	12	17	11	35	113	31,90 €
BIM10-16-47.5/SS	10	M16	47,5	33,0	23	10	12	17	11	35	113	31,90 €
BIM10-16F-47.5/SS	10	M16x1,5	47,5	33,0	23	10	12	17	11	35	113	31,90 €
Locking version												
BIM4-8-27.5/LOK/SS	4	M8	27,5	21,0	15	5	6	10	4	12	27	18,94 €
BIM4-8F-27.5/LOK/SS	4	M8x1	27,5	21,0	15	5	6	10	4	12	28	18,94 €
BIM5-10-34/LOK/SS	5	M10	34	25,0	18	6	8	12	6	16	48	21,17 €
BIM5-10F-34/LOK/SS	5	M10x1	34	25,0	18	6	8	12	6	16	49	21,17 €
BIM6-10-34/LOK/SS	6	M10	34	25,0	18	6	8	12	6	16	49	21,29 €
BIM6-10F-34/LOK/SS	6	M10x1	34	25,0	18	6	8	12	6	16	49	21,29 €
BIM6-12-40.5/LOK/SS	6	M12	40,5	28,0	20	7	10	14	10	23	72	25,84 €
BIM6-12F-40.5/LOK/SS	6	M12x1,5	40,5	28,0	20	7	10	14	10	23	73	25,84 €
BIM7-12-40.5/LOK/SS	7	M12	40,5	28,0	20	7	10	14	10	23	73	25,41 €
BIM7-12F-40.5/LOK/SS	7	M12x1,5	40,5	28,0	20	7	10	14	10	23	74	25,41 €
BIM8-16-47.5/LOK/SS	8	M16	47,5	33,0	23	10	12	17	11	35	110	31,90 €
BIM8-16F-47.5/LOK/SS	8	M16x1,5	47,5	33,0	23	10	12	17	11	35	110	31,90 €
BIM10-16-47.5/LOK/SS	10	M16	47,5	33,0	23	10	12	17	11	35	112	31,90 €
BIM10-16F-47.5/LOK/SS	10	M16x1,5	47,5	33,0	23	10	12	17	11	35	114	31,90 €

Dimensions in mm

INDEX bolt with T handle

PITA
PITB

Steel - thermoplastic

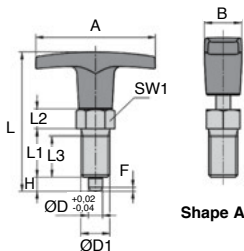
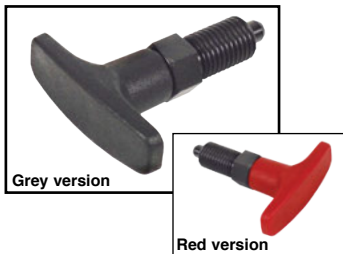
- Indexing bolt with T-handle

- The T-handle allows a good grip for easy clamping with low effort.

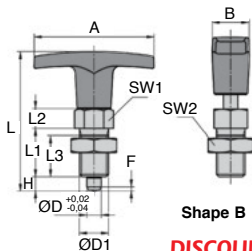
- Materials:

Burnished steel, class 5.8

T-handle : thermoplastic dark grey
RAL7021 or signal red RAL3020



Shape A



Shape B

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	Colour	A	B	ØD	ØD1	L	L1	L2	L3	H	SW1	Spring force (N)		Price each 1 to 5
												F1	F2	
Shape A - No nut														
PITA12-50/G	Grey	50	15,5	6	M12x1,5	58	20	8	17	6	14	6	14	8,77 €
PITA16-60/G	Grey	60	18,0	8	M16x1,5	77	26	10	23	8	19	15	35	11,30 €
PITA19-20/G	Grey	72	19,0	10	M20x1,5	84	28	12	25	10	22	15	34	16,38 €
PITA12-50/R	Red	50	15,5	6	M12x1,5	58	20	8	17	6	14	6	14	8,77 €
PITA16-60/R	Red	60	18,0	8	M16x1,5	77	26	10	23	8	19	15	35	11,30 €
PITA19-20/R	Red	72	19,0	10	M20x1,5	84	28	12	25	10	22	15	34	16,38 €
Shape B - With nut														
PITB12-50/G	Grey	50	15,5	6	M12x1,5	58	20	8	17	6	14	6	14	9,04 €
PITB16-60/G	Grey	60	18,0	8	M16x1,5	77	26	10	23	8	19	15	35	12,05 €
PITB19-20/G	Grey	72	19,0	10	M20x1,5	84	28	12	25	10	22	15	34	36,90 €
PITB12-50/R	Red	50	15,5	6	M12x1,5	58	20	8	17	6	14	6	14	9,04 €
PITB16-60/R	Red	60	18,0	8	M16x1,5	77	26	10	23	8	19	15	35	12,05 €
PITB19-20/R	Red	72	19,0	10	M20x1,5	84	28	12	25	10	22	15	34	17,19 €

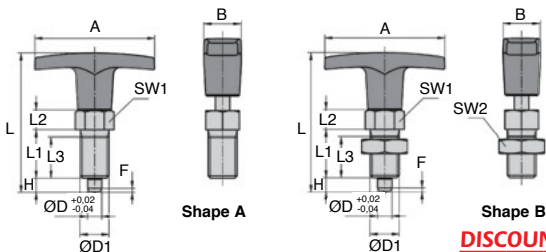
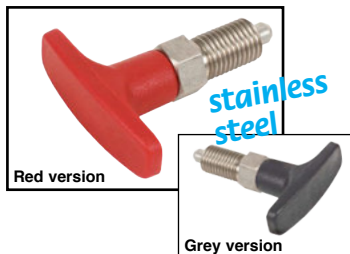
Dimensions in mm

INDEX bolt with T handle

Stainless steel - thermoplastic

PITAss
PITBss

- Indexing bolt with T-handle
- The T-handle allows a good grip for easy clamping with low effort.
- Materials:
303 stainless steel
T-handle : thermoplastic dark grey RAL7021
or signal red RAL3020



DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	Colour	A	B	ØD	ØD1	L	L1	L2	L3	H	SW1	F1	F2	Spring force (N)		Price each 1 to 5
														Initial	Final	
Shape A - No nut																
PITA12-50/G/SS	Grey	50	15,5	6	M12x1,5	58	20	8	17	6	14	6	14	15,20	€	
PITA16-60/G/SS	Grey	60	18,0	8	M16x1,5	77	26	10	23	8	19	15	35	20,16	€	
PITA19-20/G/SS	Grey	72	19,0	10	M20x1,5	84	28	12	25	10	22	15	34	34,46	€	
PITA12-50/R/SS	Red	50	15,5	6	M12x1,5	58	20	8	17	6	14	6	14	15,20	€	
PITA16-60/R/SS	Red	60	18,0	8	M16x1,5	77	26	10	23	8	19	15	35	20,16	€	
PITA19-20/R/SS	Red	72	19,0	10	M20x1,5	84	28	12	25	10	22	15	34	34,46	€	
Shape B - With nut																
PITB12-50/G/SS	Grey	50	15,5	6	M12x1,5	58	20	8	17	6	14	6	14	16,73	€	
PITB16-60/G/SS	Grey	60	18,0	8	M16x1,5	77	26	10	23	8	19	15	35	22,35	€	
PITB19-20/G/SS	Grey	72	19,0	10	M20x1,5	84	28	12	25	10	22	15	34	36,90	€	
PITB12-50/R/SS	Red	50	15,5	6	M12x1,5	58	20	8	17	6	14	6	14	16,73	€	
PITB16-60/R/SS	Red	60	18,0	8	M16x1,5	77	26	10	23	8	19	15	35	22,35	€	
PITB19-20/R/SS	Red	72	19,0	10	M20x1,5	84	28	12	25	10	22	15	34	36,90	€	

Dimensions in mm

Knurled threaded torque Knob

BSC

Adjustable torque

- Knurled knob with coloured insert

- Materials:

Dark grey thermoplastic

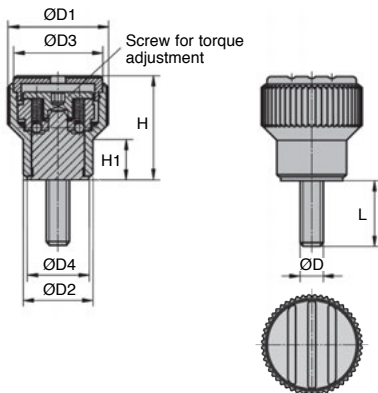
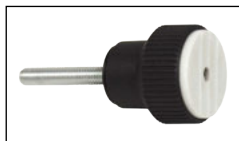
Thread: steel blue chromed

Info.

- The required torque is adjusted by means of a screw.
- As soon as this torque is reached, the knurled knob will start to slip.

Options

- Versions with different coloured inserts are available, signal red, dark grey, yellow



DISCOUNTS

Qty	1+	6+	10+	25+
Disc.	List	-5%	-10%	On request

Part number	ØD	L	ØD1	ØD2	ØD3	ØD4	H	H1	T	Torque range (Nm)	Price each 1 to 5
Grey insert											
BSC26-M5-30	M5	30	26	18	23	16	27	10,5	5	0,1 - 0,3	42,91 €
BSC26-M5-50	M5	50	26	18	23	16	27	10,5	5	0,1 - 0,3	43,16 €
BSC26-M6-30	M6	30	26	18	23	16	27	10,5	6	0,1 - 0,3	42,91 €
BSC34-M6-40	M6	40	34	22	31	20	37,5	14,5	10	0,1 - 0,3	67,59 €
BSC34-M6-50	M6	50	34	22	31	20	37,5	14,5	10	0,1 - 0,3	43,16 €
BSC34-M6-60	M6	60	34	22	31	20	37,5	14,5	10	0,1 - 0,3	47,66 €
BSC34-M8-40	M8	40	34	22	31	20	37,5	14,5	14	0,1 - 0,3	47,30 €
BSC34-M8-60	M8	60	34	22	31	20	37,5	14,5	14	0,1 - 0,3	47,66 €

Dimensions in mm

Knurled tapped Torque Knob

Adjustable torque

BSC

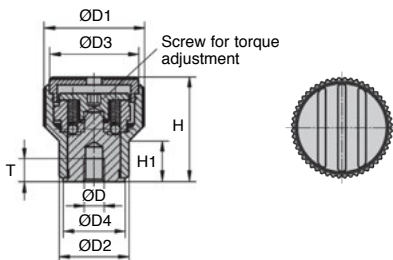
- **Knurled knob with coloured insert**
- **Materials:**
 - Dark grey thermoplastic
 - Tapped insert: black oxidised steel 5.8

Info.

- The required torque is adjusted by means of a screw.
- As soon as this torque is reached, the knurled knob will start to slip.

Options

- Versions with different coloured inserts are available, signal red, dark grey, yellow



Same tightening torque

DISCOUNTS

Qty	1+	6+	10+	25+
Disc. List	-5%	-10%	On request	

Part number	ØD	ØD1	ØD2	ØD3	ØD4	H	H1	T	Torque range (Nm)	Price each 1 to 5
Grey insert										
BSC26-M5	M5	26	18	23	16	27	10,5	5	0,1 - 0,3	42,17 €
BSC26-M6	M6	26	18	23	16	27	10,5	6	0,1 - 0,3	42,17 €
BSC34-M6	M6	34	22	31	20	37,5	14,5	10	0,1 - 0,3	46,52 €
BSC34-M8	M8	34	22	31	20	37,5	14,5	14	0,1 - 0,3	46,52 €

Dimensions in mm

Star shaped **anti-bacterial** handle

BEA

Similar to DIN 6336

- Reduces risk of presence of germs

- Materials:

Slate grey thermo-plastic

Insert/thread - 303 stainless steel

Uses

- The use of a plastic containing silver ions is highly effective against a large number of harmful micro-organisms such as bacteria, fungi and viruses.

Thus the risk of any infection due to contact with the handle between two cleaning operations is considerably reduced.

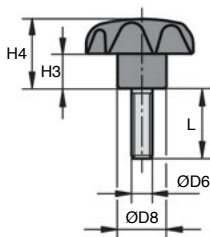
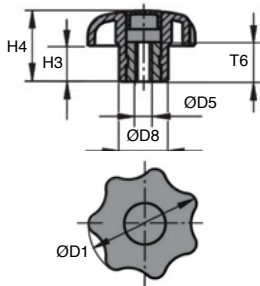
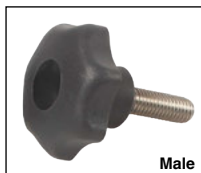
Advantages

- Resistant to moisture and cleaning products

- No undesirable toxic effects.

- Fields of application:

Hygienic areas, hospitals, medical practices, rehabilitation zones, food manufacturing, nursing homes, day care centres.



DISCOUNTS

Qty	1+	10+	20+	50+	100+	200+
Disc	List	-5%	-10%	-15%	-20%	On request

Part number	ØD1	ØD5	ØD8	H3	H4	T6	L	Price each 1 to 9
Female handle								
BEA-8F	40	M8	18	13	25	14	-	4,06 €
Male handle								
BEA-8M	40	M8	18	13	25	-	25	5,33 €

Dimensions in mm

Star shaped anti-static handle

Similar to DIN 6336

BEAS

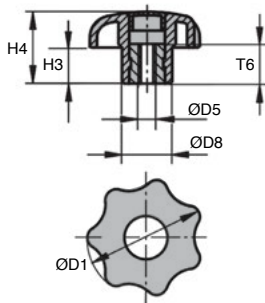
- Eliminates electric charges
- Materials:
 - Thermoplastic, black graphic finish
 - Thread - 5.8 steel

Advantages

- These products can be used for discharging electrostatic charges in areas classified as ESD Protected Areas (EPA) in accordance with DIN EN 61340-5-1.
- For clear, unambiguous identification, the yellow ESD logo is printed of the side of the handle.



Antistatic



DISCOUNTS

Qty	1+	10+	20+	50+	100+	200+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	ØD1	ØD5	ØD8	H3	H4	T6	Price each 1 to 9
BEAS-8	40	M8	18	13	25	14	2,68 €

Dimensions in mm

3 lobed handle



VTLM Black polyamide with steel insert

Improved tightening

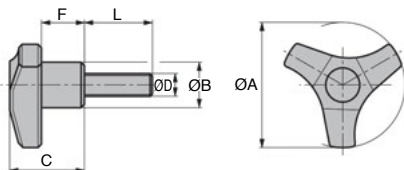
- Operating element

- Materials:

Black polyamide, matt surface finish
Chromed steel thread

Advantages

- Highly resistant, increased tightening force
- Suitable for all hand sizes



DISCOUNTS

Qty	1+	10+	20+	50+	100+	200+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	ØD	ØA	ØB	C	F	L	Weight (g)	Price each 1 to 9
VTLM6-15-45	M6	45	18	27	16	15	15,4	1,86 €
VTLM6-20-45	M6	45	18	27	16	20	16,4	1,86 €
VTLM6-25-45	M6	45	18	27	16	25	17,0	1,93 €
VTLM6-30-45	M6	45	18	27	16	30	17,4	1,93 €
VTLM6-40-45	M6	45	18	27	16	40	20,0	1,93 €
VTLM8-15-45	M8	45	18	27	16	15	19,0	1,93 €
VTLM8-20-45	M8	45	18	27	16	20	20,2	2,08 €
VTLM8-30-45	M8	45	18	27	16	30	23,6	2,08 €
VTLM8-40-45	M8	45	18	27	16	40	27,0	2,12 €
VTLM10-20-45	M10	45	18	27	16	20	30,0	2,15 €
VTLM10-30-45	M10	45	18	27	16	30	35,0	2,26 €
VTLM6-20-55	M6	55	20	33	19	20	22,8	2,12 €
VTLM6-25-55	M6	55	20	33	19	25	23,6	2,19 €
VTLM6-40-55	M6	55	20	33	19	40	26,8	2,19 €
VTLM8-20-55	M8	55	20	33	19	20	27,2	2,19 €
VTLM8-30-55	M8	55	20	33	19	30	30,0	2,19 €
VTLM8-40-55	M8	55	20	33	19	40	33,4	2,26 €
VTLM10-15-55	M10	55	20	33	19	15	32,0	2,40 €
VTLM10-20-55	M10	55	20	33	19	20	36,4	2,40 €
VTLM10-30-55	M10	55	20	33	19	30	42,0	2,47 €

Dimensions in mm



3 lobed handle

Black polyamide with brass insert

VTLF

- Operating element
- Materials:

Black polyamide
Brass insert

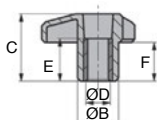
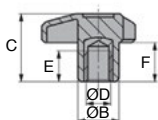
Advantages

- Highly resistant, increased tightening force
- Suitable for all hand sizes
- Can be used outside

Improved tightening



Brass insert



Blind tapped brass insert



Through tapped brass insert

DISCOUNTS

Qty	1+	10+	20+	50+	100+	200+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	ØD	ØA	ØB	C	F	E	Weight (g)	Price each 1 to 9
Blind tapped brass insert								
VTLFB6-45	M6	45	18	27	16	14	13,8	2,54 €
VTLFB8-45	M8	45	18	27	16	14	15,6	2,64 €
VTLFB10-45	M10	45	18	27	16	14	17,2	2,92 €
VTLFB8-55	M8	55	20	33	19	14	22,8	2,96 €
VTLFB10-55	M10	55	20	33	19	14	23,4	3,25 €
VTLFB12-55	M12	55	20	33	19	14	25,6	3,49 €
Through tapped brass insert								
VTLF6-45	M6	45	18	27	16	14	12,4	2,96 €
VTLF8-45	M8	45	18	27	16	14	13,2	2,92 €
VTLF10-45	M10	45	18	27	16	14	13,2	3,21 €
VTLF8-55	M8	55	20	33	19	14	18,2	3,21 €
VTLF10-55	M10	55	20	33	19	14	19,2	3,32 €
VTLF12-55	M12	55	20	33	19	14	19,8	3,63 €

Dimensions in mm

Fixed cylindrical handle

PCM

Black Duroplast

- Fixed non-turning handle

- Material:

Black Duroplast

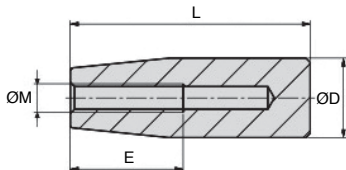
Advantages

- Good grip

- Easier to clean than technopolymer alternatives

- No retention of swarf in a machining environment.

Good resistance



DISCOUNTS

Qty	1+	6+	20+	50+	100+	250+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	ØM	ØD	L	E	Weight (g)	Price each 1 to 5
PCM5-13-27	M5	13	27	14	4	2,29 €
PCM6-13-27	M6	13	27	14	4	2,29 €
PCM6-17-40	M6	17	40	20	9	2,29 €
PCM8-17-40	M8	17	40	25	8	2,29 €
PCM6-21-50	M6	21	50	25	20	2,85 €
PCM8-21-50	M8	21	50	25	19	2,85 €
PCM10-21-50	M10	21	50	25	18	2,85 €
PCM6-23-55	M6	23	55	25	25	3,11 €
PCM8-23-55	M8	23	55	25	24	3,11 €
PCM10-23-55	M10	23	55	25	24	3,11 €
PCM8-25-65	M8	25	65	30	36	3,32 €
PCM10-25-65	M10	25	65	30	35	3,32 €
PCM12-25-65	M12	25	65	30	34	3,32 €
PCM8-28-85	M8	28	85	40	61	4,31 €
PCM10-28-85	M10	28	85	40	59	4,31 €
PCM12-28-85	M12	28	85	40	56	4,31 €
PCM14-28-85	M14	28	85	40	52	4,31 €
PCM8-29-115	M8	29	115	40	92	7,38 €
PCM10-29-115	M10	29	115	40	88	7,38 €
PCM12-29-115	M12	29	115	40	84	7,38 €

Dimensions in mm

Lever with cylindrical handle

Black Duroplast, steel lever

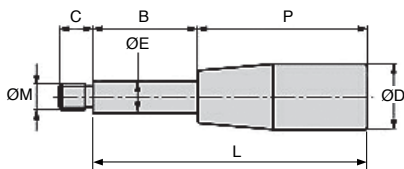
LPCM

Good resistance

- **Operating element**
- **Materials:**
Handle - Black Duroplast
Lever - galvanised steel

Advantages

- Good grip
- Easier to clean than technopolymer alternatives
- No retention of swarf in a machining environment.



DISCOUNTS

Qty	1+	6+	20+	50+	100+	250+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	ØM	ØD	L	P	B	C	ØE	Weight (g)	Price each 1 to 5
LPCM8-17-75	M8	17	75	40	35	12	10	38	7,17 €
LPCM8-21-85	M8	21	85	50	35	12	10	49	7,52 €
LPCM8-21-95	M8	21	95	50	45	12	10	56	7,70 €
LPCM8-21-125	M8	21	125	50	75	12	10	74	9,19 €
LPCM8-23-130	M8	23	130	55	75	12	10	80	10,32 €
LPCM10-23-90	M10	23	90	55	35	14	12	68	8,90 €
LPCM10-25-100	M10	25	100	65	35	14	12	76	9,12 €
LPCM10-25-110	M10	25	110	65	45	14	12	86	9,71 €
LPCM10-25-140	M10	25	140	65	75	14	12	112	11,45 €
LPCM12-25-78	M12	25	78	65	13	15	15	72	9,22 €
LPCM12-25-105	M12	25	105	65	40	15	15	108	10,06 €
LPCM12-25-140	M12	25	140	65	75	15	15	157	11,41 €
LPCM12-28-98	M12	28	98	85	13	15	15	96	11,73 €
LPCM12-28-125	M12	28	125	85	40	15	15	132	12,37 €
LPCM12-28-160	M12	28	160	85	75	15	15	181	13,85 €
LPCM12-28-190	M12	28	190	85	105	15	15	219	15,12 €
LPCM14-25-78	M14	25	78	65	13	15	15	73	9,71 €
LPCM14-25-105	M14	25	105	65	40	15	15	118	10,35 €
LPCM14-25-140	M14	25	140	65	75	15	15	161	12,79 €
LPCM14-28-98	M14	28	98	85	13	15	15	98	11,97 €
LPCM14-28-125	M14	28	125	85	40	15	15	143	13,46 €

Dimensions in mm

Multi-sector enclosure/door handle

PO

Back to back mounting

- Ideal for back mounting, i.e. a PO handle used on one side with a PO-M handle on the other (see typical application)

- Colour: matt black

- Materials:

Handle: Fibreglass reinforced Technopolymer

Insert: Brass (PO-M version)

- PO version has a smooth bored hole for socket head screw

- PO-M has a blind threaded insert



PO version



PO-M version



Black



Red: safety

Add: /R
to end of part N°



Orange:

furniture, kitchens

Add: /O
to end of part N°



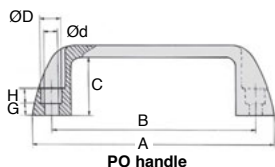
Grey: food industry

Add: /G
to end of part N°

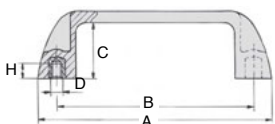


White: medical

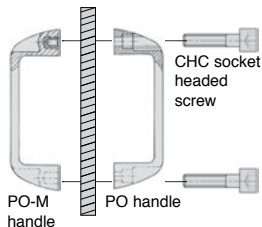
Add: /B
to end of part N°



PO handle



PO-M handle



Back to back mounting

DISCOUNTS

Qty	1+	6+	20+	50+	100+	250+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	B	A	E	F	C	G	H	ØD	Ød	Stock*	Price each 1 to 5
With smooth hole											
PO93-6	93,5	112	21	36	30	6	7	10,5	6,5	-	3,51 €
PO117-6	117	139	26	41	34	6	9	10,5	6,5	✓	3,81 €
PO117-8	117	139	26	41	34	6	9	13,0	8,5	✓	3,81 €
PO132-6	132	156	27	45	37	9	7	10,5	6,5	✓	5,20 €
PO132-8	132	156	27	45	37	7	9	13,0	8,5	✓	7,63 €
PO179-8	179	204	28	50	42	8	9	13,0	8,5	✓	7,63 €
With threaded hole											
PO93-M5	93,5	112	21	36	30	-	9	M5	-	-	5,35 €
PO93-M6	93,5	112	21	36	30	-	9	M6	-	-	5,35 €
PO117-M6	117	139	26	41	34	-	9	M6	-	✓	5,64 €
PO117-M8	117	139	26	41	34	-	9	M8	-	✓	5,64 €
PO132-M6	132	156	27	45	37	-	9	M6	-	✓	6,29 €
PO132-M8	132	156	27	45	37	-	9	M8	-	✓	6,29 €
PO179-M8	179	204	28	50	42	-	9	M8	-	✓	9,09 €

*Depending on availability - Dimensions in mm

Front fixing handle



PGMT

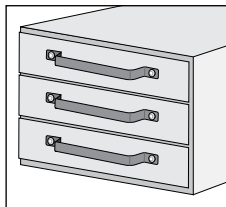
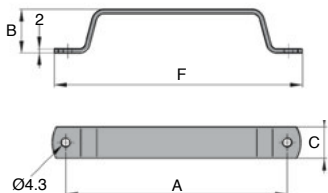
Steel or stainless steel

- Push/pull handle
- Front fixing
- Materials:
Galvanised steel
Stainless steel, 304

Info.

- The handle is made from pre-galvanized steel.
- Cut edges and holes may therefore not be galvanised

Economical



Typical application

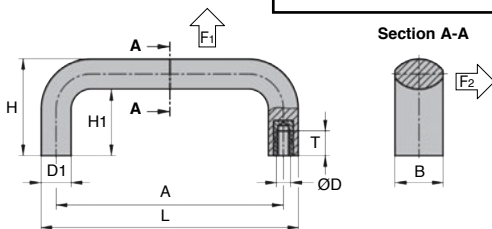
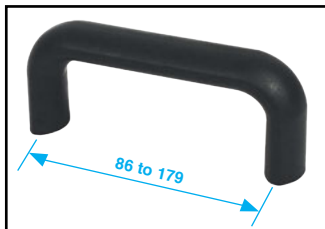
DISCOUNTS

Qty	1+	6+	20+	50+	100+	250+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	Material	Finish	A	B	C	F	Weight (g)	Price each 1 to 5
PGMT107-4/AG	Galvanised steel	Natural	107	21	15	120	32	3,51 €
PGMT107-4/SS	Stainless steel 304	Deburred	107	21	15	120	32	6,12 €

Dimensions in mm

- Gripping handle for both pushing and pulling
- Rear mounting
- Material:
Black glass-fibre reinforced thermoplastic,
brass threaded insert



DISCOUNTS

Qty	1+	6+	20+	50+	100+	250+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	A	B	ØD	D1	H	H1	L	T	F1 (N)	F2 (N)	Price each 1 to 5
PGM86-M5	86	20	M5	12,5	40	28	98,5	10	4000	1500	6,48 €
PGM86-M6	86	20	M6	12,5	40	28	98,5	9	4000	1500	6,81 €
PGM94-M5	94	20	M5	12,5	40	28	106,5	10	3300	1600	6,78 €
PGM94-M6	94	20	M6	12,5	40	28	106,5	9	3300	1600	6,99 €
PGM117-M5	117	25	M5	16,0	50	34	134,0	10	4400	1800	7,21 €
PGM117-M6	117	25	M6	16,0	50	34	134,0	9	4400	1800	7,63 €
PGM117-M8	117	25	M8	16,0	50	34	134,0	14	4400	1800	7,84 €
PGM120-M5	120	25	M5	16,0	50	34	134,0	10	5200	2400	7,42 €
PGM120-M6	120	25	M6	16,0	50	34	134,0	9	5200	2400	7,84 €
PGM120-M8	120	25	M8	16,0	50	34	134,0	14	5200	2400	8,05 €
PGM132-M5	132	25	M5	16,0	50	34	148,0	10	3700	2600	7,63 €
PGM132-M6	132	25	M6	16,0	50	34	148,0	9	3700	2600	8,27 €
PGM132-M8	132	25	M8	16,0	50	34	148,0	14	3700	2600	8,48 €
PGM150-M6	150	29	M6	18,0	58	40	168,0	15	5900	1900	9,02 €
PGM150-M8	150	29	M8	18,0	58	40	168,0	14	5900	1900	9,12 €
PGM150-M10	150	29	M10	18,0	58	40	168,0	14	5900	1900	9,75 €
PGM179-M8	179	29	M8	18,0	58	40	197,0	14	3800	3200	10,51 €
PGM179-M10	179	29	M10	18,0	58	40	197,0	14	3800	3200	10,81 €

Dimensions in mm

Carrying handle

PGM

Aluminium or brass

- Gripping handle for both pushing and pulling

- Rear mounting

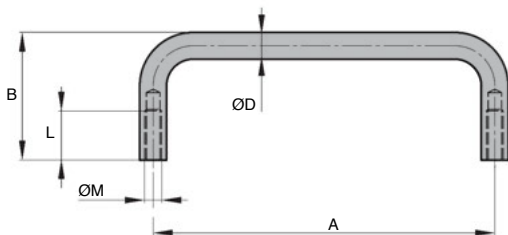
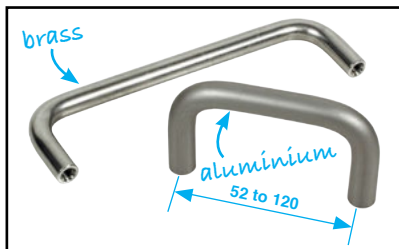
- Materials:

Aluminium, natural finish

Aluminium, polished

Chromed brass

Nickel plated brass



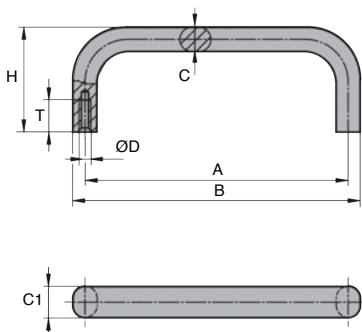
DISCOUNTS

Qtty	1+	6+	20+	50+	100+	250+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	Material	Finition	A	B	ØD	L	ØM	Weight (g)	Price each 1 to 5
PGM52-M4/ALA	aluminium	anodized, natural	52	34	8	10	M4	14	6,84 €
PGM80-M4/ALA	aluminium	anodized, natural	80	34	8	12	M4	17	7,63 €
PGM100-M4/ALP	aluminium	polished	100	30	7	8	M4	14	4,12 €
PGM100-M4/ALA	aluminium	anodized, natural	100	34	8	12	M4	20	8,05 €
PGM100-M4/BRC	brass	chromed	100	30	7	8	M4	44	6,33 €
PGM100-M4/BRN	brass	nickel plated	100	30	7	8	M4	44	6,24 €
PGM120-M4/ALA	aluminium	anodized, natural	120	34	8	10	M4	23	8,57 €

Dimensions in mm

- Gripping handle for both pushing and pulling
- Rear mounting
- Material:
Stainless steel 304, satin polished



DISCOUNTS

Qty	1+	6+	20+	50+	100+	250+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	A	B	C	C1	ØD	H	T	Load (N)	Price each 1 to 5
PGM100-M5/SS	100	108	8	12	M5	39	10	1000	15,48 €
PGM120-M5/SS	120	128	8	12	M5	39	10	1000	15,99 €
PGM150-M5/SS	150	160	10	15	M5	39	10	1000	17,27 €
PGM180-M5/SS	180	190	10	15	M5	39	10	1000	18,66 €

Dimensions en mm

Recessed handle, clip-in

PENC

Thermoplastic

- Handle for carrying or push/pull operations, mounting by clipping into a panel

Material:

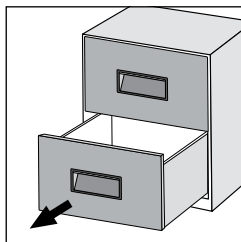
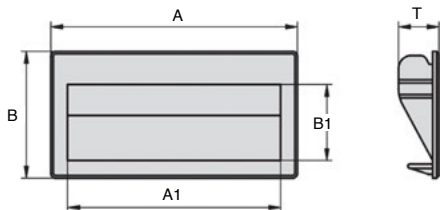
Black thermoplastic (ABS)

Info.

- Gripping force is 750N per pair in steel and sheet metal housings

Applications

- Ideal for use on metal enclosures or drawers



Typical application

DISCOUNTS

Qty	1+	6+	20+	50+	100+	250+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	A	A1	B	B1	T	Mounting hole	For wall thickness (mm)	Load (N)	Price each 1 to 5
PENC40-90	90	79	40,0	30,0	16	83X34	0,75 à 1,5	375	4,78 €
PENC56-110	110	95	56,3	33,8	18	103X49	0,75 à 1,5	375	5,39 €
PENC79-187	187	164	79,0	54,0	22	171X73	1,5 à 2	375	7,02 €

Dimensions in mm

Recessed handle, screw fixing

Thermoplastic

PENV

Improved grip

- Handle for carrying or push/pull operations, mounts by clipping into a panel.

- Material:

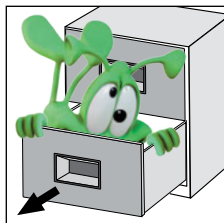
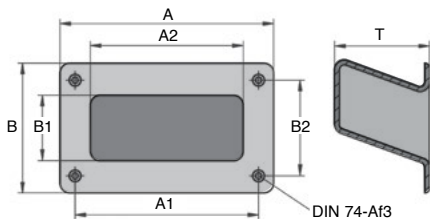
Black thermoplastic (ABS)

Info.

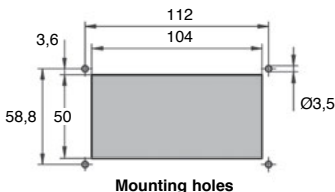
- Maximum load: 500N per pair

Applications

- Ideal for use on metal enclosures or drawers



Typical application



DISCOUNTS

Qty	1+	6+	20+	50+	100+	250+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	A	A1	A2	B	B1	B2	T	Load (N)	Price each 1 to 5
PENV79-131	131	112	94	79,0	40,0	58,8	58	250	6,24 €

Dimensions in mm

Quarter turn latch for the food industry



SER69K

Stainless steel

- Stainless steel 1/4 turn latch, seal rating IP69K
- Hygienic latch
- Materials:
 - 304 stainless steel
 - O-ring seal, blue silicon

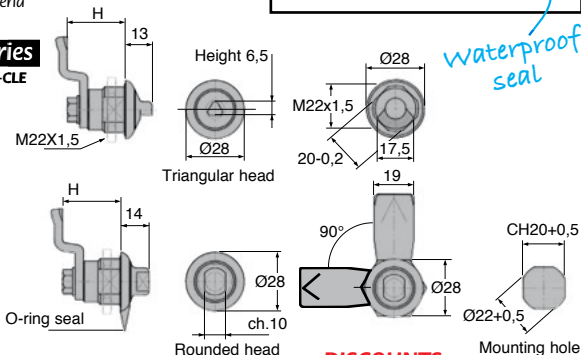


Advantages

- Ideal for use in the food industry
- No water retaining zones
- Avoids bacteria developing

Accessories

- See **SER69K-CLE** key



DISCOUNTS

Qty	1+	6+	10+	15+
Disc.	List	-5%	-10%	On request

Part number	H	Price each 1 to 5
Triangular head		
SER69K-18/T	18	53,33 €
SER69K-20/T	20	53,33 €
SER69K-22/T	22	53,33 €
SER69K-24/T	24	53,33 €
SER69K-26/T	26	53,33 €
SER69K-28/T	28	53,33 €
Rounded head		
SER69K-18/R	18	53,33 €
SER69K-20/R	20	53,33 €
SER69K-22/R	22	53,33 €
SER69K-24/R	24	53,33 €
SER69K-26/R	26	53,33 €
SER69K-28/R	28	53,33 €

Dimensions in mm

Quarter turn latch for **the food industry**

Key

SER69K

- Key for SER69K stainless steel 1/4 turn latch

- 2 versions:

Clé-T in plastic with triangular head

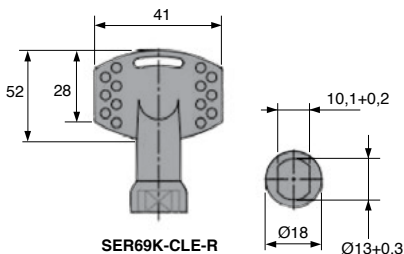
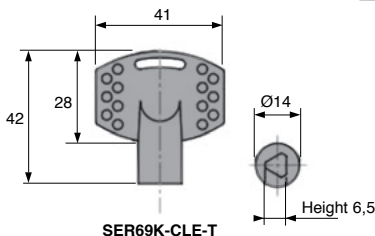
Clé-R in plastic with stainless steel insert,
rounded head

Advantages

- Ideal for use in the food industry



SER69K-CLE-R



DISCOUNTS

Qty	1+	6+	10+	15+
Disc. List	-5%	-10%	On request	On request

Part number	Drive	Material	Price each 1 to 5
SER69K-CLE/T	Triangular	Plastic	2,36 €
SER69K-CLE/R	Rounded	Plastic, stainless steel insert	5,95 €

Dimensions in mm

- **Slam latches for direct closing in hostile environments**

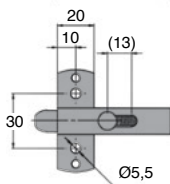
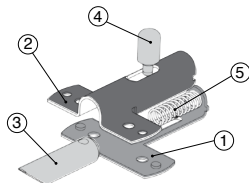
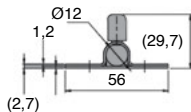
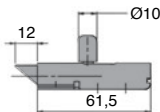
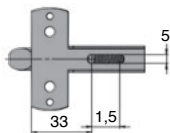
- Latch tongue at top
- Resistant to water and cleaning products
- Materials:
Body and support: 304L stainless steel
Latch and handle: 303 stainless steel
Spring: 301 stainless steel

Advantages

- Openings on the top and mounting face allow easy cleaning (no retention of water or dirt)
- No sharp angles (avoids risk of injury)
- Top mounted handle allows easy opening

Applications

- Equipment for the food industry
- Animal breeding (hutches, hen-houses)
- Lids for metal enclosures used in humid environments
- Stainless steel strike plate not supplied



A version



B version

DISCOUNTS

Qty	1+	10+	20+	50+	100+
Disc.	List	-3%	-5%	-10%	On request

Part number	Latch stroke (mm)	Type	Price each 1 to 49
LRR-56-A/SS	12	A version	27,64 €
LRR-56-B/SS	13	B version	27,64 €

Dimensions in mm

Stylish stainless steel screw hinge

316 stainless steel

CHAEss

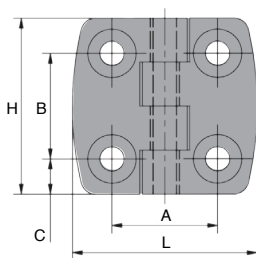
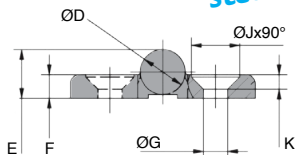
- Screw hinge
- For right and left mounting
- 180° opening angle
- Fixed using countersunk screws (M5, M6 or M8 according to DIN 7991)
- The visible surface of the hinge has polished satin finish
- Material:
100% 316 stainless steel

Advantages

- Stylish visual appearance as the pin is not visible
- Vibration proof
- Vandal proof thanks to welds over the pin at both ends.

Pin non-accessible

Impenetrable



DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-5%	-10%	On request

Part number	H	L	A	B	C	ØD	E	F	K	ØG	ØJ	Price each 1 to 5
CHAE4042/SS	40	42	25	25	7,5	10,2	10,6	5	3,0	5,2	10,2	29,33 €
CHAE5050/SS	50	50	30	30	10,0	12,0	12,5	6	3,7	6,2	12,4	33,13 €
CHAE6063/SS	60	63	36	36	12,0	15,3	16,6	8	4,9	8,3	16,5	39,67 €

Dimensions in mm

Long hinge in steel or aluminium **AluSte**

CHAL

Piano type hinge

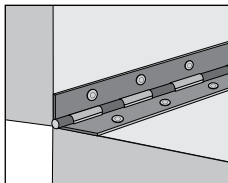
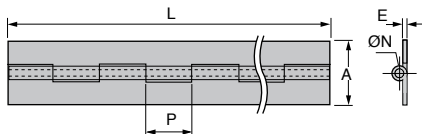
- Long hing with a small pin diameter
- Rolled joint
- Hinge is not drilled
- Materials:
 - Untreated steel
 - Aluminium

Economical



Applications

- Woodworking, industrial joinery, workstations...



Typical application

DISCOUNTS

Qty	1+	6+	20+
Disc. List	-5%	On request	

Part number	A	L	P	E	ØN	Weight per metre (kg/m)	Price each 1 to 5
Steel							
CHAL3-40-1000	40	1000	20	1,2	3	0,530	11,40 €
CHAL3-50-1000	50	1000	20	1,2	3	0,610	11,99 €
Aluminium							
CHAL3-35-1000/A	35	1000	30	1,0	3	0,175	13,28 €
CHAL3-40-1000/A	40	1000	30	1,0	3	0,208	13,45 €
CHAL4-50-1000/A	50	1000	30	1,5	4	0,300	17,51 €

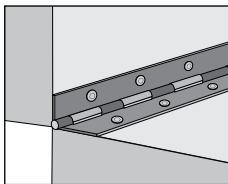
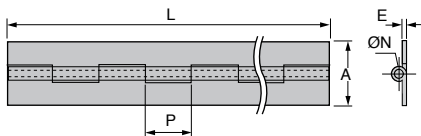
Dimensions in mm

- Long hinge with a small pin diameter
- Rolled joint
- Hinge is not drilled
- Material:
304 stainless steel

Applications

- Woodworking, industrial joinery, workstations...

Economical



Typical application

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-5%	On request

Part number	A	L	P	E	ØN	Weight per metre (kg/m)	Price each 1 to 5
CHAL2-20-1000/SS	20	1000	15	0,6	2,5	0,140	15,79 €
CHAL2-25-1000/SS	25	1000	15	0,6	2,5	0,165	15,81 €
CHAL2-30-1000/SS	30	1000	15	0,6	2,5	0,190	16,72 €
CHAL3-25-1000/SS	25	1000	20	1,0	3,0	0,325	16,87 €
CHAL3-40-1000/SS	40	1000	20	1,2	3,0	0,520	22,98 €
CHAL3-50-1000/SS	50	1000	20	1,2	3,0	0,620	24,81 €
CHAL6-60-1000/SS	60	1000	30	2,0	6,0	1,470	61,25 €
CHAL6-80-1000/SS	80	1000	30	2,0	6,0	1,700	70,10 €

Dimensions in mm

Captive C washer **DIN 6371**

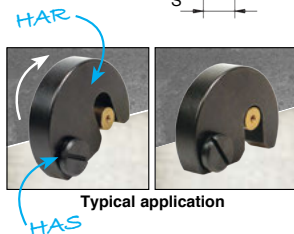
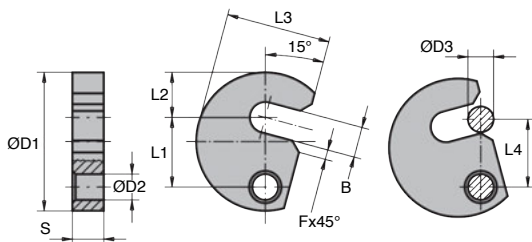
HAR

Steel

- Allows a shaft to be held with simple pivoting action
- Conforms to DIN 6371
- Material:
Burnished steel

Accessory

- Used with **HAS** shoulder screw (acc DIN 923)



DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	B	ØD1	ØD2	ØD3	F	L1	L2	L3	L4	S	Weight (g)	Price each 1 to 5
HAR9-38	7,5	38	9	6	3	19,6	11	29	19	9,8	0,061	22,36 €
HAR9-43	9,5	43	9	8	3	21,6	14	32,5	21	9,8	0,076	23,48 €
HAR9-48	11,5	48	9	10	3	23,6	17	36,5	23	9,8	0,09	26,34 €
HAR11-61	13,5	61	11	12	3	29,6	22	45	29	11,8	0,18	32,92 €
HAR11-65	15,5	65	11	14	3	31,6	23	49	31	11,8	0,2	35,33 €
HAR11-68	17,5	68	11	16	3	33,6	25	50	33	11,8	0,21	37,31 €
HAR11-74	21,5	74	11	20	4	36,6	28	55	36	11,8	0,23	47,63 €

Dimensions in mm

Slotted flat headed shoulder screw

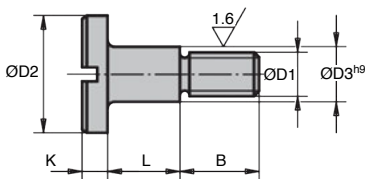
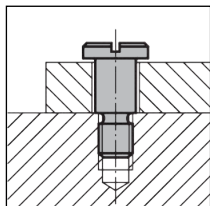
Steel

HAS

- Fixes to a frame and allows rotation around the shoulder
- Conforms to DIN 923
- Material:
Burnished steel, resistance class 5.8

Accessory

- Used with HAR captive C washer



DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	ØD1	ØD2	ØD3	L	B	K	Weight (g)	Price each 1 to 5
HAS6-8-10	M6	13	8	10 ^{+0,07/+0,15}	9	3,1	9	2,24 €
HAS8-10-12	M8	16	10	12 ^{+0,1/+0,2}	11	3,8	17	2,55 €
HAS10-13-16	M10	20	13	16 ^{+0,1/+0,2}	13,5	4,6	33	3,39 €

Dimensions in mm

Rubber latch clamp with strike plate

GEC

Lockable

Suitable for outdoor use

- Snap to close
- Strike plate supplied
- Materials:
Black elastomer latch clamp
Stainless steel strike plate

Advantages

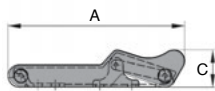
- Internal mechanism: once closed, the hook does not show
- Outdoor use



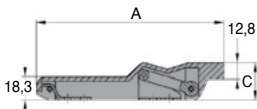
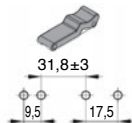
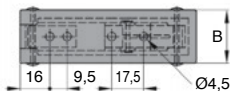
Open



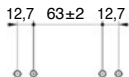
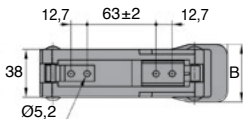
Closed



Small model



Large model



DISCOUNTS

Qty	1+	10+	20+	50+	100+
Disc.	List	-3%	-5%	-10%	On request

Part number	Material	Finish	A	B	C	Weight (g)	Price each 1 to 9
Small model							
GEC-96	elastomer	black	96,5	29,0	20,0	36	15,82 €
Large model							
GEC-151	elastomer	black	151	45,7	29,5	130	23,37 €

Dimensions in mm

Latch clamp with lock

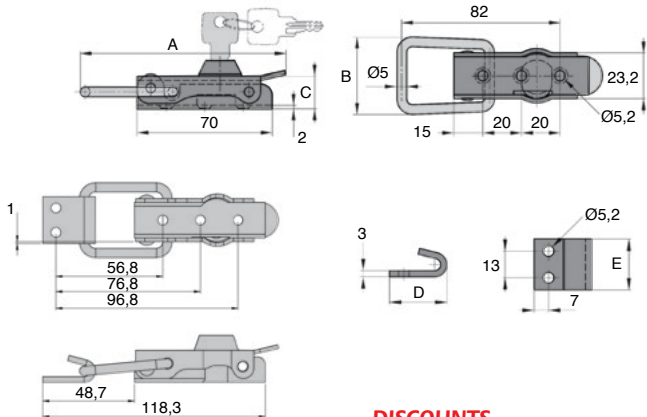
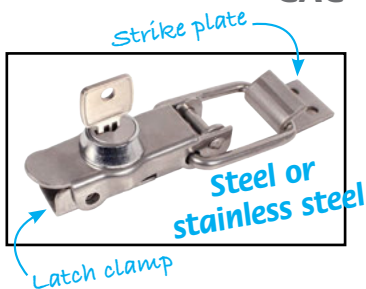
Lockable

GAC

- Snap closing
- Supplied with 2 identical keys
- Latch clamp and strike plates supplied separately
- Material:
 - Galvanised steel
 - Stainless steel 304

Advantage

- Can be locked using a key



Hole layout

DISCOUNTS

Qty	1+	10+	20+	50+	100+
Disc	List	-3%	-5%	-10%	On request

Part number	Material	Finish	A	B	C	D	E	Weight (g)	Price each
									1 to 9
Latch clamp									
GAC-106	steel	Galvanized	106,5	40,0	17,0	-	-	132	16,72 €
GAC-106/SS	S/steel 304	Natural	106,5	40,0	17,0	-	-	132	26,85 €
Strike plate									
GAC-106G	steel	Galvanized	-	-	-	28	25	24	3,56 €
GAC-106G/SS	S/steel 304	Natural	-	-	-	28	25	24	6,76 €

Dimensions in mm

Fastening pin with ring

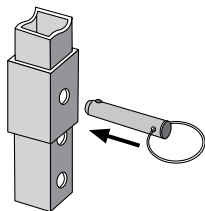
AFA

Steel

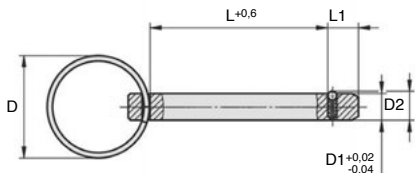
- **Ball pin**
- Quick and easy assembly of workpieces and other elements
- Double shear force (F) = S x τ_{AB} max
- Materials:
 - Body - Chromed steel
 - Ring - Stainless steel

Advantages

- These fastening pins with rings are an economic alternative to interlocking safety fasteners.
- They are easier to use and cheaper than a BAB ball pin but offer a lower level of safety



Typical application



DISCOUNTS

Qty	1+	6+	10+	25+
Disc.	List	-5%	-10%	On request

Part number	ØD	ØD1	ØD2	L	L1	Double shear strength	
						(kN)	Price each
AFA6-15	23	6	6,5	15	7	22	6,09 €
AFA6-20	23	6	6,5	20	7	22	6,21 €
AFA6-30	23	6	6,5	30	7	22	6,36 €
AFA6-40	23	6	6,5	40	7	22	6,54 €
AFA8-30	28	8	8,8	30	8	28	6,36 €
AFA8-40	28	8	8,8	40	8	28	6,54 €
AFA8-50	28	8	8,8	50	8	28	6,75 €

Dimensions in mm

Locking pin with interlocking safety latch

Steel

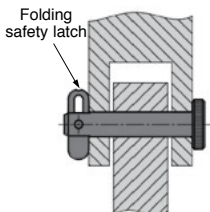
AFSE

- Allows easy and quick location of parts or workpieces requiring assembly

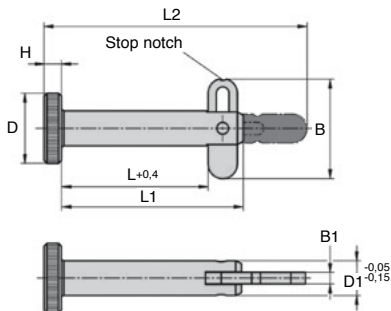
- Material:
Galvanized steel

Advantages

- The interlocking safety latch allows components with a large cross sectional area to be secured together
- In addition they absorb any axial movement
- Indexing slots in the safety latch are used to locate the "Closed" and "Open" position



Typical application



DISCOUNTS

Qty	1+	6+	10+	25+
Disc.	List	-5%	-10%	On request

Part number	ØD	ØD1	L	L1	L2	H	B	B1	Mounting hole H11	Shearing force		Price each 1 to 5
										double section max (kN)	Extraction force (N)	
AFSE6-25	12	6	25	31	45	3	16,9	2	6	12	190	15,57 €
AFSE6-40	12	6	40	46	60	3	16,9	2	6	12	190	15,90 €
AFSE6-50	12	6	50	56	70	3	16,9	2	6	12	190	16,39 €
AFSE8-25	16	8	25	31	46	4	16,9	2	8	21	270	16,39 €
AFSE8-40	16	8	40	46	61	4	16,9	2	8	21	270	16,87 €
AFSE8-50	16	8	50	56	71	4	16,9	2	8	21	270	17,18 €

Dimensions in mm

Mounting collar for ball pin

BABFC
BABFO

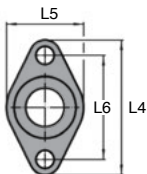
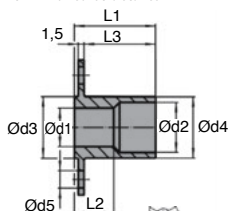
With a round or oval flange

- For use on thin sheet metal
- These collars offer a quick and securing method of mounting ball pins
- For the construction of boxes or other containers
- Material: 303, stainless steel

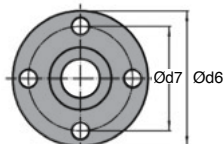


Fonctionnement

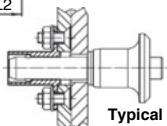
- The large contact surface area ensures that all the force is spread evenly over thin walled structures



BABFO :
Oval flange



BABFC :
Cylindrical flange



Typical application

DISCOUNTS

Qty	1+	6+	10+	25+
Disc.	List	-5%	-10%	On request

With cylindrical flange

Part number	Ød1	Ød2	Ød3		Ød4	Ød5	Ød6	Ød7	L1	L2	L3	Weight (g)	Price each 1 to 5
			-0,05	-0,1									
BAB5-8/FC/SS	5	8	10	9,9	3,4	25	19	12	5,4	9,5	9	18,07 €	
BAB6-8/FC/SS	6	8	10	9,9	3,4	25	19	13	5,3	10,5	9	18,07 €	
BAB8-10/FC/SS	8	10	12	11,9	4,5	30	22	19	10,3	16,5	14	20,10 €	
BAB10-13/FC/SS	10	13	16	15,9	4,5	35	27	21	10,2	18,5	24	22,22 €	
BAB12-15/FC/SS	12	15	19	18,9	4,5	40	30	27	15,2	24,5	41	25,28 €	
BAB16-20/FC/SS	16	20	24	23,9	5,5	50	40	30	15,3	27,5	63	29,69 €	

With oval flange

Part number	Ød1	Ød2	Ød3		Ød4	Ød5	L1	L2	L3	L4	L5	L6	Weight (g)	Price each 1 to 5
			-0,05	-0,1										
BAB5-8/FO/SS	5	8	10	9,9	3,4	12	5,4	9,5	25	15	19	6	20,86 €	
BAB6-8/FO/SS	6	8	10	9,9	3,4	13	5,3	10,5	25	15	19	6	20,86 €	
BAB8-10/FO/SS	8	10	12	11,9	4,5	19	10,3	16,5	30	18	22	10	23,36 €	
BAB10-13/FO/SS	10	13	16	15,9	4,5	21	10,2	18,5	35	20	27	19	25,84 €	
BAB12-15/FO/SS	12	15	19	18,9	4,5	27	15,2	24,5	40	24	30	34	28,90 €	
BAB16-20/FO/SS	16	20	24	23,9	5,5	30	15,3	27,5	50	30	40	52	31,98 €	

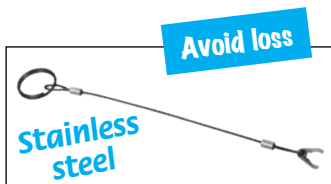
Dimensions in mm

Retaining cable for ball pin

Avoids loss of ball pin

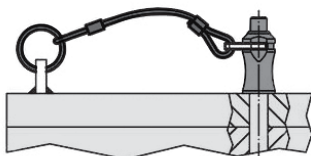
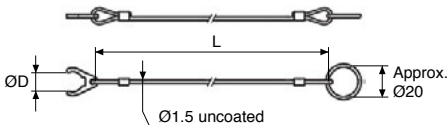
CDRs

- Cable for use with BAB/S and BAB/S303 ball pins
- With loop on one end and circlip on the other
- Materials:
 - Cable - uncoated stainless steel
 - Circlip/Ring - stainless steel
- T° use max.: 250°C



Assembly

- Use a mallet to secure the circlip to the ball pin, it can be removed using a screwdriver as a lever.



Used with
BAB/S or BAB/S303 ball pin

DISCOUNTS

Qty	1+	6+	10+	25+
Disc. List	-5%	-10%	On request	

Part number	L	ØD	Use with	Weight (g)	Price each 1 to 5
CDR8-150/S	150	8,0	BAB5, BAB6	6	9,75 €
CDR11-150/S	150	11,6	BAB8, BAB10	7	10,42 €
CDR17-150/S	150	17,0	BAB12, BAB16	8	11,27 €
CDR24-150/S	150	24,0	BAB20	12	13,74 €
CDR8-200/S	200	8,0	BAB5, BAB6	7	10,03 €
CDR11-200/S	200	11,6	BAB8, BAB10	8	10,70 €
CDR17-200/S	200	17,0	BAB12, BAB16	9	11,52 €

Dimensions in mm



- These cleaning brushes are used for cleaning, scouring, dusting, stripping, de-scaling, honing or de-burring of cylindrical surfaces: inside tubes, bottles, pin holes, rivet holes, tapped holes, intersecting holes
- These brushes can be used in different industries: mechanical (machine tool, maintenance), food, pharmaceutical or medical.

Advantages

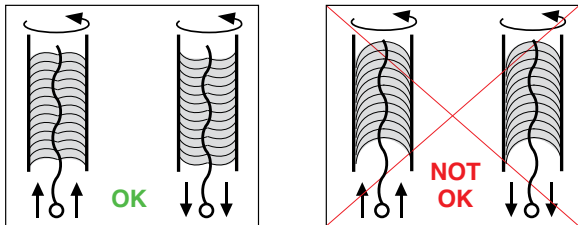
- Improves the surface state and reduces the coefficient of friction.
- Allows the removal of rust, paint, residues of plastics, rubber, scale, dust etc ..., in a non polluting way and without deterioration of the parts.

Uses

- Perform rapid bi-directional rotations, associated with alternative longitudinal movements

Dimensions

- Choosing the correct diameter
- Brush diameter = nominal diameter of the hole to be cleaned + 10/15%



It is actually the end of the brush that does the work, not the edges, it must have the enough free space to regain its form.

Deburring and stripping stainless steel

GPLSS

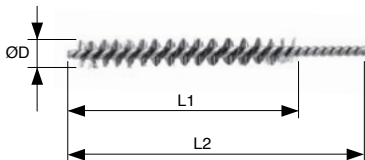
- Stainless steel deburring brushes

- Materials:

- Twisted galvanised steel
- Stainless steel covering

Applications

- Deburring of pin holes, rivet holes, tapped holes, intersecting holes
- Cleaning of hollow containers (tubes, bottles, holes)
- Cleaning of hard-to-reach areas
- Removing rust
- Cleaning
- Stripping



Deburring a gear bore

DISCOUNTS

Qty	1+	10+	25+	50+
Disc. List	-5%	-10%	On request	

Part number	Brush diameter ØD	Brush length L1	Overall length L2	Price each 1 to 9
GPL5-100/SS	5	100	300	9,54 €
GPL8-100/SS	8	100	300	8,16 €
GPL10-100/SS	10	100	300	7,46 €
GPL12-100/SS	12	100	300	7,46 €
GPL15-100/SS	15	100	300	7,55 €
GPL20-100/SS	20	100	300	7,82 €
GPL25-100/SS	25	100	300	7,89 €

Dimensions in mm

Steel brush

GPLAC

For deburring and stripping

- Deburring and cleaning brush for all materials

- Materials:

Twisted galvanised steel

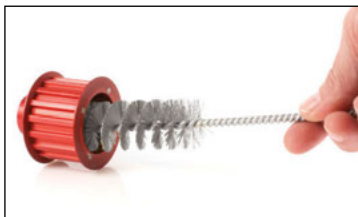
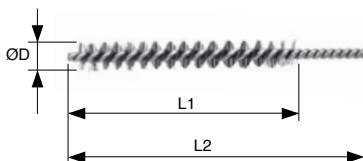
Galvanized steel twist

Steel covering



Applications

- Deburring of pin holes, rivet holes, tapped holes, intersecting holes
- Cleaning of hollow containers (tubes, bottles, holes)
- Cleaning of hard-to-reach areas
- Removing rust
- Cleaning
- Stripping



Stripping of a pulley bore

DISCOUNTS

Qty	1+	10+	25+	50+
Disc. List	-5%	-10%	On request	

Part number	Brush diameter ØD	Brush length L1	Total length L2	Price each 1 to 9
GPL5-100/AC	5	100	300	9,69 €
GPL8-100/AC	8	100	300	6,30 €
GPL10-100/AC	10	100	300	6,30 €
GPL12-100/AC	12	100	300	6,42 €
GPL15-100/AC	15	100	300	6,66 €
GPL20-100/AC	20	100	300	7,87 €
GPL25-100/AC	25	100	300	7,87 €

Dimensions in mm

For deburring and stripping
softer materials

GLP_{BR}

- Deburring and stripping brushes
for aluminium, bronze and brass

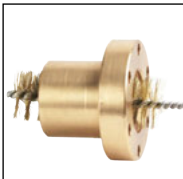
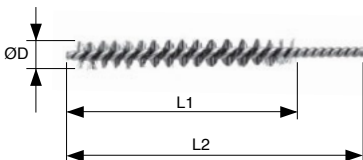
- Materials:

Twisted galvanised steel

Brass covering

Applications

- Deburring of pin holes, rivet holes, tapped holes, intersecting holes
- Cleaning of hollow containers (tubes, bottles, holes)
- Cleaning of hard-to-reach areas
- Removing rust
- Cleaning
- Stripping



Deburring a trapezoidal nut

DISCOUNTS

Qty	1+	10+	25+	50+
Disc. List	-5%	-10%	On request	

Part number	Brush diameter ØD	Brush length L1	Total length L2	Price each 1 to 9
GPL5-100/BR	5	100	300	9,54 €
GPL8-100/BR	8	100	300	7,99 €
GPL10-100/BR	10	100	300	7,19 €
GPL12-100/BR	12	100	300	7,24 €
GPL15-100/BR	15	100	300	7,24 €
GPL20-100/BR	20	100	300	7,67 €
GPL25-100/BR	25	100	300	7,67 €

Dimensions in mm

Nylon brush

GPLNY

For mechanical
and soft cleaning

- **Deburring brushes for soft materials**

- **Materials:**

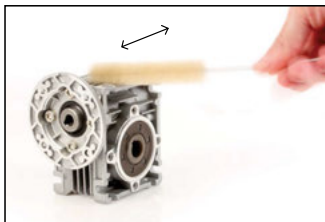
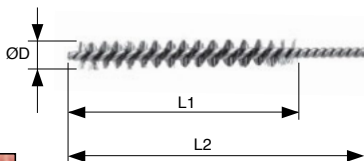
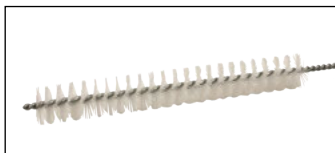
Twisted galvanised steel

Nylon covered

Applications

- Gentle cleaning of hollow containers
(tubes, bottles, holes)

- Gentle cleaning of hard-to-reach areas



Cleaning the cooling fins of a gearbox

DISCOUNTS

Qty	1+	10+	25+	50+
Disc.	List	-5%	-10%	On request

Part number	Brush diameter ØD	Brush length L1	Total length L2	Price each 1 to 9
GPL4-100/NY	4	100	300	6,06 €
GPL6-100/NY	6	100	300	3,99 €
GPL8-100/NY	8	100	300	4,01 €
GPL10-100/NY	10	100	300	4,04 €
GPL12-100/NY	12	100	300	4,07 €
GPL15-100/NY	15	100	300	4,12 €
GPL16-100/NY	16	100	300	4,16 €
GPL20-100/NY	20	100	300	4,16 €
GPL25-100/NY	25	100	300	4,24 €
GPL30-100/NY	30	100	300	4,36 €
GPL40-100/NY	40	100	300	4,52 €

Dimensions in mm

- Brushes for the cleaning and removal of dust

- Materials:

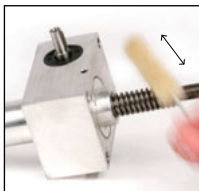
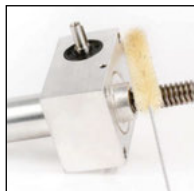
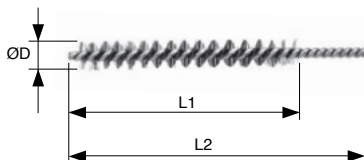
- Twisted galvanised steel
- Natural silk covering

Application

- Cleaning of hollow containers (tubes, bottles, holes)
- Cleaning of hard-to-reach areas

Advantage

- Anti-static



Cleaning of hard-to-reach areas

DISCOUNTS

Qty	1+	10+	25+	50+
Disc. List		-5%	-10%	On request

Part number	Brush diameter ØD	Brush length L1	Total length L2	Price each 1 to 9
GPL15-100/SO	15	80	300	6,66 €
GPL20-100/SO	20	80	300	7,87 €
GPL25-100/SO	25	80	300	7,02 €

Dimensions in mm

Cylindrical drill bushing

CDP

Treated steel

- For guiding drill bits during repetitive drilling or countersinking operations
- Good resistance in operation
- Material:
Case hardened steel

Info.

- Bore tolerance: DH7

Advantages

- Facilitates the drilling operation and avoids wear of the drill bit
- Ensures high repeatability

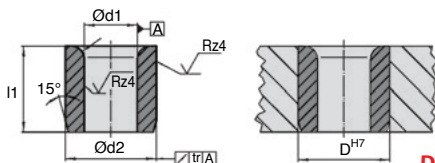


DISCOUNTS

Qty	1+	5+	10+	20+
Disc.	List	-5%	-10%	On request

Part number	Ød1	l1	Ød2 (n6)	r	Weight (g)	Price each 1 to 4	Part number	Ød1	l1	Ød2 (n6)	r	Weight (g)	Price each 1 to 4
CDP2-5-6	2	6	5	1	0,7	3,83 €	CDP5.1-10-20	5,1	20	10	1,5	8,9	8,17 €
CDP2-5-9	2	9	5	1	1,1	4,18 €	CDP5.5-10-10	5,5	10	10	1,5	4,1	3,97 €
CDP2.1-5-6	2,1	6	5	1	0,7	3,83 €	CDP5.5-10-16	5,5	16	10	1,5	6,7	4,57 €
CDP2.1-5-9	2,1	9	5	1	1,1	4,18 €	CDP5.5-10-20	5,5	20	10	1,5	8,4	8,17 €
CDP2.5-5-6	2,5	6	5	1	0,7	3,83 €	CDP6-10-10	6	10	10	1,5	3,8	3,97 €
CDP2.5-5-9	2,5	9	5	1	1	4,18 €	CDP6-10-16	6	16	10	1,5	6,1	4,57 €
CDP3-6-8	3	8	6	1	1,3	3,83 €	CDP6-10-20	6	20	10	1,5	7,7	8,17 €
CDP3-6-12	3	12	6	1	1,9	4,18 €	CDP6.1-12-10	6,1	10	12	1,5	6,3	4,18 €
CDP3-6-16	3	16	6	1	2,6	8,53 €	CDP6.1-12-16	6,1	16	12	1,5	10	4,71 €
CDP3.1-6-8	3,1	8	6	1	1,2	3,83 €	CDP6.1-12-20	6,1	20	12	1,5	13	8,53 €
CDP3.1-6-12	3,1	12	6	1	1,9	4,18 €	CDP6.5-12-10	6,5	10	12	1,5	6	4,18 €
CDP3.1-6-16	3,1	16	6	1	2,5	8,53 €	CDP6.5-12-16	6,5	16	12	1,5	9,7	4,71 €
CDP3.5-7-8	3,5	8	7	1	1,7	6,01 €	CDP6.5-12-20	6,5	20	12	1,5	12	8,53 €
CDP3.5-7-12	3,5	12	7	1	2,6	3,97 €	CDP7-12-10	7	10	12	1,5	5,6	4,18 €
CDP3.5-7-16	3,5	16	7	1	3,6	8,53 €	CDP7-12-16	7	16	12	1,5	9,1	4,71 €
CDP4-7-8	4	8	7	1	1,5	3,47 €	CDP7-12-20	7	20	12	1,5	11	8,53 €
CDP4-7-12	4	12	7	1	2,4	3,97 €	CDP7.1-12-10	7,1	10	12	1,5	5,5	4,18 €
CDP4-7-16	4	16	7	1	3,2	8,53 €	CDP7.1-12-16	7,1	16	12	1,5	9	4,71 €
CDP4.1-8-8	4,1	8	8	1	2,2	3,61 €	CDP7.1-12-20	7,1	20	12	1,5	11	8,53 €
CDP4.1-8-12	4,1	12	8	1	3,4	4,18 €	CDP7.5-12-10	7,5	10	12	1,5	5,1	4,18 €
CDP4.1-8-16	4,1	16	8	1	4,6	7,49 €	CDP7.5-12-16	7,5	16	12	1,5	8,4	4,71 €
CDP4.5-8-8	4,5	8	8	1	2,1	3,61 €	CDP7.5-12-20	7,5	20	12	1,5	11	8,53 €
CDP4.5-8-12	4,5	12	8	1	3,1	4,18 €	CDP8-12-10	8	10	12	1,5	4,7	4,18 €
CDP4.5-8-16	4,5	16	8	1	4,2	7,49 €	CDP8-12-16	8	16	12	1,5	7,6	4,71 €
CDP5-8-8	5	8	8	1	1,8	3,61 €	CDP8-12-20	8	20	12	1,5	9,6	8,53 €
CDP5-8-12	5	12	8	1	2,8	4,18 €	CDP8.1-15-12	8,1	12	15	2	11	4,35 €
CDP5-8-16	5	16	8	1	3,7	7,49 €	CDP8.1-15-20	8,1	20	15	2	19	5,31 €
CDP5.1-10-10	5,1	10	10	1,5	4,4	3,97 €	CDP8.1-15-25	8,1	25	15	2	24	9,21 €
CDP5.1-10-16	5,1	16	10	1,5	7,1	4,57 €	CDP8.5-15-12	8,5	12	15	2	11	4,35 €

Dimensions in mm



DISCOUNTS

Qty	1+	5+	10+	20+
Disc.	List	-5%	-10%	On request

Part number	Ød1	l1	Ød2 (n6)	r	Weight (g)	Price each	Part number	Ød1	l1	Ød2 (n6)	r	Weight (g)	Price each
CDP8.5-15-20	8,5	20	15	2	18	5,31 €	CDP13-22-36	13	36	22	2	69	11,92 €
CDP8.5-15-25	8,5	25	15	2	23	9,21 €	CDP14-22-16	14	16	22	2	27	5,65 €
CDP9-15-12	9	12	15	2	10	4,35 €	CDP14-22-28	14	28	22	2	49	7,63 €
CDP9-15-20	9	20	15	2	17	5,31 €	CDP14-22-36	14	36	22	2	63	11,92 €
CDP9-15-25	9	25	15	2	22	9,21 €	CDP15-22-16	15	16	22	2	25	5,65 €
CDP9.1-15-12	9,1	12	15	2	10	4,35 €	CDP15-22-28	15	28	22	2	44	7,63 €
CDP9.1-15-20	9,1	20	15	2	17	5,31 €	CDP15-22-36	15	36	22	2	56	11,92 €
CDP9.1-15-25	9,1	25	15	2	21	9,21 €	CDP16-26-16	16	16	26	2	45	7,63 €
CDP9.5-15-12	9,5	12	15	2	9,5	4,35 €	CDP16-26-28	16	28	26	2	71	9,63 €
CDP9.5-15-20	9,5	20	15	2	16	5,31 €	CDP16-26-36	16	36	26	2	92	14,98 €
CDP9.5-15-25	9,5	25	15	2	20	9,21 €	CDP16.1-26-16	16,1	16	26	2	40	11,59 €
CDP10-15-12	10	12	15	2	8,8	4,35 €	CDP16.1-26-28	16,1	28	26	2	71	14,16 €
CDP10-15-20	10	20	15	2	15	5,31 €	CDP16.1-26-36	16,1	36	26	2	91	20,09 €
CDP10-15-25	10	25	15	2	19	9,21 €	CDP16.5-26-16	16,5	16	26	2	39	7,63 €
CDP10.1-18-12	10,1	12	18	2	16	5,06 €	CDP16.5-26-28	16,5	28	26	2	68	9,63 €
CDP10.1-18-20	10,1	20	18	2	27	6,16 €	CDP16.5-26-36	16,5	36	26	2	88	14,98 €
CDP10.1-18-25	10,1	25	18	2	33	9,52 €	CDP17-26-16	17	16	26	2	37	7,63 €
CDP10.5-18-12	10,5	12	18	2	15	5,06 €	CDP17-26-28	17	28	26	2	65	9,63 €
CDP10.5-18-20	10,5	20	18	2	26	6,16 €	CDP17-26-36	17	36	26	2	84	14,98 €
CDP10.5-18-25	10,5	25	18	2	32	9,52 €	CDP18-26-16	18	16	26	2	33	7,63 €
CDP11-18-12	11	12	18	2	14	5,06 €	CDP18-26-28	18	28	26	2	59	9,63 €
CDP11-18-20	11	20	18	2	24	6,16 €	CDP18-26-36	18	36	26	2	77	14,98 €
CDP11-18-25	11	25	18	2	31	9,52 €	CDP19-30-20	19	20	30	3	64	9,41 €
CDP11.1-18-12	11,1	12	18	2	14	5,06 €	CDP19-30-36	19	36	30	3	117	11,81 €
CDP11.1-18-20	11,1	20	18	2	24	6,16 €	CDP19-30-45	19	45	30	3	147	19,05 €
CDP11.1-18-25	11,1	25	18	2	30	9,52 €	CDP20-30-20	20	20	30	3	59	9,41 €
CDP11.5-18-12	11,5	12	18	2	14	5,06 €	CDP20-30-36	20	36	30	3	108	11,81 €
CDP11.5-18-20	11,5	20	18	2	23	6,16 €	CDP20-30-45	20	45	30	3	136	19,05 €
CDP11.5-18-25	11,5	25	18	2	29	9,52 €	CDP20.1-30-20	20,1	20	30	3	59	13,76 €
CDP12-18-12	12	12	18	2	13	5,06 €	CDP20.1-30-36	20,1	36	30	3	108	16,65 €
CDP12-18-20	12	20	18	2	22	6,16 €	CDP20.1-30-45	20,1	45	30	3	135	25,89 €
CDP12-18-25	12	25	18	2	27	9,52 €	CDP22-30-20	22	20	30	3	49	9,41 €
CDP12.1-22-16	12,1	16	22	2	32	5,65 €	CDP22-30-36	22	36	30	3	90	11,81 €
CDP12.1-22-28	12,1	28	22	2	57	7,63 €	CDP22-30-45	22	45	30	3	113	19,05 €
CDP12.1-22-36	12,1	36	22	2	74	11,92 €	CDP25-35-20	25	20	35	3	71	11,11 €
CDP12.5-22-16	12,5	16	22	2	31	5,65 €	CDP25-35-36	25	36	35	3	130	13,76 €
CDP12.5-22-28	12,5	28	22	2	66	7,63 €	CDP25-35-45	25	45	35	3	163	22,13 €
CDP12.5-22-36	12,5	36	22	2	69	11,92 €	CDP30-42-25	30	25	42	3	129	19,95 €
CDP13-22-16	13	16	22	2	30	5,65 €	CDP30-42-45	30	45	42	3	235	24,65 €
CDP13-22-28	13	28	22	2	53	7,63 €	CDP30-42-56	30	56	42	3	293	33,47 €

Dimensions in mm

Flanged drill bushing

CDPC

Treated steel

- For guiding drill bits during repetitive drilling or countersinking operations
- Good resistance in operation
- Material:
Case hardened steel

Info.

- Bore tolerance: DH7

Advantages

- Facilitates the drilling operation and avoids wear of the drill bit
- Ensures high repeatability

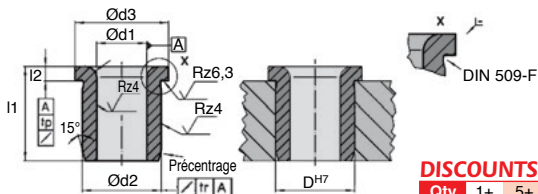


DISCOUNTS

Qty	1+	5+	10+	20+
Disc.	List	-5%	-10%	On request

Part number	Ød1					Ød2 (n6)		Weight (g)	Price each 1 to 4	Part number	Ød1					Ød2 (n6)		Weight (g)	Price each 1 to 4
	Ød1	I1	I2	Ød3	I2	Ød3	I2				Ød1	I1	I2	Ød3	I2	Ød3	I2		
CDPC2-5-6	2	6	5	8	2	1,2	5,06	€	CDPC5-1-10-20	5,1	20	10	13	3	10	8,84	€		
CDPC2-5-9	2	9	5	8	2	1,6	5,45	€	CDPC5-5-10-10	5,5	10	10	13	3	5,3	4,71	€		
CDPC2-1-5-6	2,1	6	5	8	2	1,2	5,06	€	CDPC5-5-10-16	5,5	16	10	13	3	7,9	5,31	€		
CDPC2-1-5-9	2,1	9	5	8	2	1,5	5,45	€	CDPC5-5-10-20	5,5	20	10	13	3	9,6	8,84	€		
CDPC2-5-5-6	2,5	6	5	8	2	1,1	5,06	€	CDPC6-10-10	6	10	10	13	3	4,9	4,71	€		
CDPC2-5-5-9	2,5	9	5	8	2	1,4	5,45	€	CDPC6-10-16	6	16	10	13	3	7,3	5,31	€		
CDPC3-6-8	3	8	6	9	2,5	1,9	4,99	€	CDPC6-10-20	6	20	10	13	3	8,8	8,84	€		
CDPC3-6-12	3	12	6	9	2,5	2,6	5,45	€	CDPC6-1-12-10	6,1	10	12	15	3	7,7	5,31	€		
CDPC3-6-16	3	16	6	9	2,5	3,2	9,52	€	CDPC6-1-12-16	6,1	16	12	15	3	12	5,79	€		
CDPC3-1-6-8	3,1	8	6	9	2,5	1,9	4,99	€	CDPC6-1-12-20	6,1	20	12	15	3	14	9,41	€		
CDPC3-1-6-12	3,1	12	6	9	2,5	2,5	5,45	€	CDPC6-5-12-10	6,5	10	12	15	3	7,4	5,31	€		
CDPC3-1-6-16	3,1	16	6	9	2,5	3,2	9,52	€	CDPC6-5-12-16	6,5	16	12	15	3	11	5,79	€		
CDPC3-5-7-8	3,5	8	7	10	2,5	2,4	4,71	€	CDPC6-5-12-20	6,5	20	12	15	3	14	9,41	€		
CDPC3-5-7-12	3,5	12	7	10	2,5	3,4	5,31	€	CDPC7-12-10	7	10	12	15	3	7	5,31	€		
CDPC3-5-7-16	3,5	16	7	10	2,5	4,3	9,52	€	CDPC7-12-16	7	16	12	15	3	10	5,79	€		
CDPC4-7-8	4	8	7	10	2,5	2,3	4,71	€	CDPC7-12-20	7	20	12	15	3	13	9,41	€		
CDPC4-7-12	4	12	7	10	2,5	3,1	5,31	€	CDPC7-1-12-10	7,1	10	12	15	3	6,9	5,31	€		
CDPC4-7-16	4	16	7	10	2,5	3,9	9,52	€	CDPC7-1-12-16	7,1	16	12	15	3	10	5,79	€		
CDPC4-1-8-8	4,1	8	8	11	2,5	3	4,57	€	CDPC7-1-12-20	7,1	20	12	15	3	13	9,41	€		
CDPC4-1-8-12	4,1	12	8	11	2,5	4,2	4,85	€	CDPC7-5-12-10	7,5	10	12	15	3	6,5	5,31	€		
CDPC4-1-8-16	4,1	16	8	11	2,5	5,3	8,17	€	CDPC7-5-12-16	7,5	16	12	15	3	9,7	5,79	€		
CDPC4-5-8-8	4,5	8	8	11	2,5	2,9	4,57	€	CDPC7-5-12-20	7,5	20	12	15	3	12	9,41	€		
CDPC4-5-8-12	4,5	12	8	11	2,5	3,9	4,85	€	CDPC8-12-10	8	10	12	15	3	6	5,31	€		
CDPC4-5-8-16	4,5	16	8	11	2,5	5	8,17	€	CDPC8-12-16	8	16	12	15	3	9	5,79	€		
CDPC5-8-8	5	8	8	11	2,5	2,6	4,57	€	CDPC8-12-20	8	20	12	15	3	11	9,41	€		
CDPC5-8-12	5	12	8	11	2,5	3,6	4,85	€	CDPC8-1-15-12	8,1	12	15	18	3	13	6,01	€		
CDPC5-8-16	5	16	8	11	2,5	4,5	8,17	€	CDPC8-1-15-20	8,1	20	15	18	3	25	6,52	€		
CDPC5-1-10-10	5,1	10	10	13	3	5,5	4,71	€	CDPC8-1-15-25	8,1	25	15	18	3	26	10,20	€		
CDPC5-1-10-16	5,1	16	10	13	3	8,2	5,31	€	CDPC8-5-15-12	8,5	12	15	18	3	13	6,01	€		

Dimensions in mm



DISCOUNTS

Qty	1+	5+	10+	20+
Disc.	List	-5%	-10%	On request

Part number	Ød1	l1	Ød2 (n6)	Ød3	l2	Weight (g)	Price each		Part number	Ød1	l1	Ød2 (n6)	Ød3	l2	Weight (g)	Price each	
							1 to 4	1 to 4								1 to 4	1 to 4
CDPC8.5-15-20	8,5	20	15	18	3	20	6,52	€	CDPC13-22-36	13	36	22	26	4	73	15,35	€
CDPC8.5-15-25	8,5	25	15	18	3	25	10,20	€	CDPC14-22-16	14	16	22	26	4	32	7,46	€
CDPC9-15-12	9	12	15	18	3	12	6,01	€	CDPC14-22-28	14	28	22	26	4	53	10,51	€
CDPC9-15-20	9	20	15	18	3	19	6,52	€	CDPC14-22-36	14	36	22	26	4	67	15,35	€
CDPC9-15-25	9	25	15	18	3	23	10,20	€	CDPC15-22-16	15	16	22	26	4	29	7,46	€
CDPC9.1-15-12	9,1	12	15	18	3	12	6,01	€	CDPC15-22-28	15	28	22	26	4	48	10,51	€
CDPC9.1-15-20	9,1	20	15	18	3	19	6,52	€	CDPC15-22-36	15	36	22	26	4	61	15,35	€
CDPC9.1-15-25	9,1	25	15	18	3	23	10,20	€	CDPC16-26-16	16	16	26	30	4	45	9,41	€
CDPC9.5-15-12	9,5	12	15	18	3	11	6,01	€	CDPC16-26-28	16	28	26	30	4	76	12,32	€
CDPC9.5-15-20	9,5	20	15	18	3	18	6,52	€	CDPC16-26-36	16	36	26	30	4	97	16,84	€
CDPC9.5-15-25	9,5	25	15	18	3	22	10,20	€	CDPC16.1-26-16	16,1	16	26	30	4	45	13,43	€
CDPC10-15-12	10	12	15	18	3	11	6,01	€	CDPC16.1-26-28	16,1	28	26	30	4	76	16,65	€
CDPC10-15-20	10	20	15	18	3	17	6,52	€	CDPC16.1-26-36	16,1	36	26	30	4	96	21,79	€
CDPC10-15-25	10	25	15	18	3	20	10,20	€	CDPC16.5-26-16	16,5	16	26	30	4	44	9,41	€
CDPC10.1-18-12	10,1	12	18	22	4	20	6,52	€	CDPC16.5-26-28	16,5	28	26	30	4	73	12,32	€
CDPC10.1-18-20	10,1	20	18	22	4	30	7,09	€	CDPC16.5-26-36	16,5	36	26	30	4	93	16,70	€
CDPC10.1-18-25	10,1	25	18	22	4	37	10,90	€	CDPC17-26-16	17	16	26	30	4	42	9,41	€
CDPC10.5-18-12	10,5	12	18	22	4	19	6,52	€	CDPC17-26-28	17	28	26	30	4	70	12,32	€
CDPC10.5-18-20	10,5	20	18	22	4	29	7,09	€	CDPC17-26-36	17	36	26	30	4	90	16,70	€
CDPC10.5-18-25	10,5	25	18	22	4	36	10,90	€	CDPC18-26-16	18	16	26	30	4	39	9,41	€
CDPC11-18-12	11	12	18	22	4	18	6,52	€	CDPC18-26-28	18	28	26	30	4	64	12,32	€
CDPC11-18-20	11	20	18	22	4	28	7,09	€	CDPC18-26-36	18	36	26	30	4	82	16,70	€
CDPC11-18-25	11	25	18	22	4	34	10,90	€	CDPC19-30-20	19	20	30	34	5	71	12,32	€
CDPC11.1-18-12	11,1	12	18	22	4	18	6,52	€	CDPC19-30-36	19	36	30	34	5	125	16,34	€
CDPC11.1-18-20	11,1	20	18	22	4	28	7,09	€	CDPC19-30-45	19	45	30	34	5	154	24,51	€
CDPC11.1-18-25	11,1	25	18	22	4	34	10,90	€	CDPC20-30-20	20	20	30	34	5	67	12,32	€
CDPC11.5-18-12	11,5	12	18	22	4	17	6,52	€	CDPC20-30-36	20	36	30	34	5	0	16,34	€
CDPC11.5-18-20	11,5	20	18	22	4	26	7,09	€	CDPC20-30-45	20	45	30	34	5	143	24,51	€
CDPC11.5-18-25	11,5	25	18	22	4	33	10,90	€	CDPC20.1-30-20	20,1	20	30	34	5	66	16,34	€
CDPC12-18-12	12	12	18	22	4	16	6,52	€	CDPC20.1-30-36	20,1	36	30	34	5	115	21,40	€
CDPC12-18-20	12	20	18	22	4	25	7,09	€	CDPC20.1-30-45	20,1	45	30	34	5	142	31,33	€
CDPC12-18-25	12	25	18	22	4	31	10,90	€	CDPC22-30-20	22	20	30	34	5	56	12,32	€
CDPC12.1-22-16	12,1	16	22	26	4	37	7,46	€	CDPC22-30-36	22	36	30	34	5	97	16,34	€
CDPC12.1-22-28	12,1	28	22	26	4	62	10,51	€	CDPC22-30-45	22	45	30	34	5	120	24,51	€
CDPC12.1-22-36	12,1	36	22	26	4	78	15,35	€	CDPC25-35-20	25	20	35	39	5	80	15,80	€
CDPC12.5-22-16	12,5	16	22	26	4	36	7,46	€	CDPC25-35-36	25	36	35	39	5	138	19,42	€
CDPC12.5-22-28	12,5	28	22	26	4	60	10,51	€	CDPC25-35-45	25	45	35	39	5	171	28,95	€
CDPC12.5-22-36	12,5	36	22	26	4	76	15,35	€	CDPC30-42-25	30	25	42	46	5	139	23,58	€
CDPC13-22-16	13	16	22	26	4	34	7,46	€	CDPC30-42-45	30	45	42	46	5	245	27,93	€
CDPC13-22-28	13	28	22	26	4	58	10,51	€	CDPC30-42-56	30	56	42	46	5	304	42,58	€

Dimensions in mm

Adjustable screw stop

BVR

Steel

- Allows to easily create a stop that is adjustable over a 50mm range

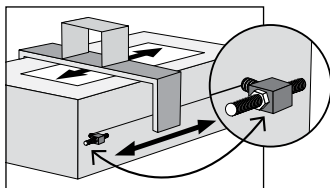
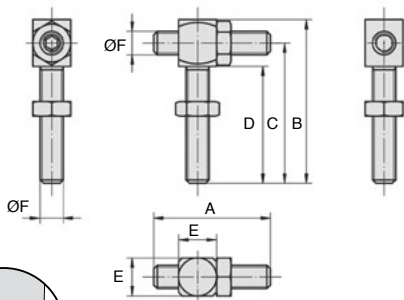
- Material:

Burnished treated steel

Application

- Can be adjusted over the full range

- Final position is locked using a counter-nut.



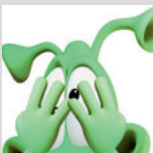
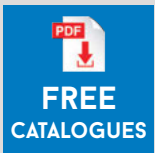
Travel stop

DISCOUNTS

Qty	1+	6+	15+	20+
Disc.	List	-5%	-10%	On request

Part number	A	B	C	D	E	ØF	Price each 1 to 5
BVR6-30-30	30	44	37	30	10	M6	18,90 €
BVR8-40-40	40	56	48	40	13	M8	24,53 €
BVR10-50-50	50	70	60	50	17	M10	28,77 €
BVR12-60-60	60	84	72	60	19	M12	37,29 €
BVR16-80-80	80	112	96	80	24	M16	57,02 €

Dimensions in mm



**FAST
QUOTES
& ORDERS**

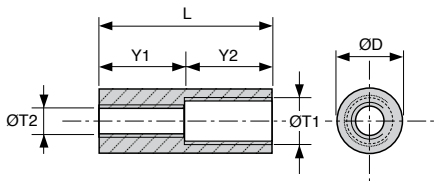
Cylindrical reducing sleeve

SteSta

MCL

Steel or **stainless steel**

- **Male/female sleeve**
- Allows 2 rods of different diameters to be joined
- **Materials:**
 - Galvanised steel
 - Stainless steel
- **Supplied by the pack**



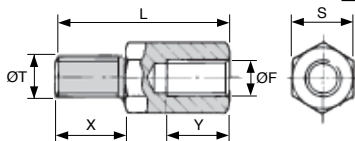
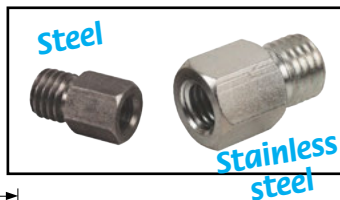
DISCOUNTS

Qty	1+	5+	20+	50+
Disc.	List	-5%	-10%	On request

Part number	ØT1	ØT2	ØD	L	Y1	Y2	Qty per pack	Price each 1 to 4
Steel								
MCL6-8-40/B	M6	M8	13	40	20	20	20	18,84 €
MCL6-10-40/B	M6	M10	16	40	20	20	20	26,95 €
MCL8-10-40/B	M8	M10	16	40	20	20	20	26,95 €
MCL8-12-40/B	M8	M12	16	40	20	20	20	26,95 €
MCL10-12-40/B	M10	M12	16	40	20	20	20	26,95 €
MCL10-16-40/B	M10	M16	22	40	20	20	20	38,51 €
MCL12-16-40/B	M12	M16	22	40	20	20	20	38,51 €
Stainless steel								
MCL6-8-40/SS/B	M6	M8	13	40	20	20	20	50,93 €
MCL6-10-40/SS/B	M6	M10	16	40	20	20	20	67,22 €
MCL8-10-40/SS/B	M8	M10	16	40	20	20	20	67,22 €
MCL8-12-40/SS/B	M8	M12	16	40	20	20	20	67,22 €
MCL10-12-40/SS/B	M10	M12	16	40	20	20	20	67,22 €
MCL10-16-40/SS/B	M10	M16	22	40	20	20	20	124,32 €
MCL12-16-40/SS/B	M12	M16	22	40	20	20	20	124,32 €

Dimensions in mm

- Male/female sleeve
- Materials:
 - Galvanised steel
 - Stainless steel
- Supplied by the pack



DISCOUNTS

Qty	1+	5+	20+	50+
Disc.	List	-5%	-10%	On request

Part number	OF	OT	S	L	X	Y	Qty per pack	Price each 1 to 4
Steel								
MHX6-8-19/B	M6	M8	13	19	7	7	20	15,12 €
MHX8-6-20/B	M8	M6	13	20	8	7	20	15,12 €
MHX8-10-23/B	M8	M10	13	23	8	9	20	15,12 €
MHX8-12-23/B	M8	M12	17	23	8	8	20	21,26 €
MHX10-6-21/B	M10	M6	13	21	8	7	20	15,12 €
MHX10-8-21/B	M10	M8	13	21	8	7	20	15,12 €
MHX10-12-25/B	M10	M12	17	25	10	8	20	21,26 €
MHX10-16-32/B	M10	M16	24	32	10	13	20	54,97 €
MHX12-8-23/B	M12	M8	13	23	10	7	20	15,12 €
MHX12-10-23/B	M12	M10	13	23	10	8	20	15,12 €
MHX12-16-32/B	M12	M16	24	32	10	13	20	54,97 €
MHX16-10-32/B	M16	M10	19	32	14	9	20	32,99 €
MHX16-12-32/B	M16	M12	19	32	14	10	20	32,99 €
Stainless steel								
MHX6-8-19/SS/B	M6	M8	13	19	7	7	20	64,55 €
MHX8-6-20/SS/B	M8	M6	13	20	8	7	20	64,55 €
MHX8-10-23/SS/B	M8	M10	13	23	8	9	20	64,55 €
MHX8-12-23/SS/B	M8	M12	17	23	8	8	20	83,53 €
MHX10-6-21/SS/B	M10	M6	13	21	8	7	20	64,55 €
MHX10-8-21/SS/B	M10	M8	13	21	8	7	20	64,55 €
MHX10-12-25/SS/B	M10	M12	17	25	10	8	20	83,53 €
MHX10-16-32/SS/B	M10	M16	24	32	10	13	20	135,18 €
MHX12-8-23/SS/B	M12	M8	13	23	10	7	20	64,55 €
MHX12-10-23/SS/B	M12	M10	13	23	10	8	20	64,55 €
MHX12-16-32/SS/B	M12	M16	24	32	10	13	20	135,18 €
MHX16-10-32/SS/B	M16	M10	19	32	14	9	20	95,78 €
MHX16-12-32/SS/B	M16	M12	19	32	14	10	20	95,78 €

Dimensions in mm

Master-Plate® glueable insert

MSP

Presentation



Master Plate inserts are simple elements that can be glued to any type of material without any special preparation, subsequently allowing a screwed connection to be made.

A Master Plate insert consists of a rectangular, square or cylindrical base with a nut, a tapped insert or a 316L stainless steel threaded rod.

The wide variety of shapes available offers technicians and designers multiple solutions to their fixing problems.

The adhesive, not supplied, should be chosen according to the support material (see implementation).

Applications:

Automotive, railway, nautical industry, transportation, furnishing, construction...



Typical application

Rectangular Master-Plate® glueable insert

316L stainless steel

MSP

- Glueable stainless steel plate with tapped insert or threaded stud
- Material:
316L stainless steel

Applications

- Industrial, transport, building, furnishings

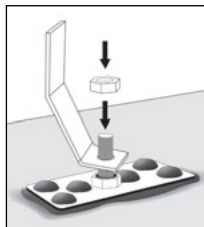
Info.

- Glue not supplied
- Not supplied individually, contact us for details

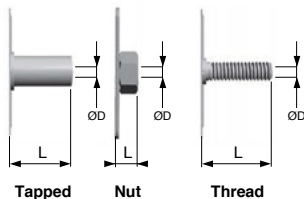
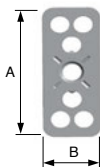
316L
stainless steel



316L
stainless steel



Typical application



DISCOUNTS

Qty	1+	50+	100+	500+
Disc.	List	-10%	-20%	On request

Part number	A	B	ØD	L	Form	Price each 1 to 49
MSP3815T-6-5/SS	38	15	M6	5	Tapped	5,54 €
MSP3815E-5-4/SS	38	15	M5	4	Nut	1,96 €
MSP3815E-6-5/SS	38	15	M6	5	Nut	2,21 €
MSP3815E-8-6/SS	38	15	M8	6,5	Nut	2,38 €
MSP3815F-5-12/SS	38	15	M5	12	Thread	2,06 €
MSP3815F-5-16/SS	38	15	M5	16	Thread	2,11 €
MSP3815F-6-16/SS	38	15	M6	16	Thread	2,14 €
MSP3815F-6-20/SS	38	15	M6	20	Thread	2,19 €

Dimensions in mm

Cylindrical Master-Plate® glueable insert

MSP19
MSP20

316L stainless steel

- Glueable stainless steel plate with tapped insert or threaded stud
- Material:
316L stainless steel

Applications

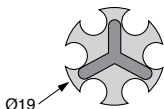
- Industrial, transport, building, furnishings

Info.

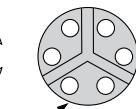
- Glue not supplied
- Not supplied individually, contact us for details



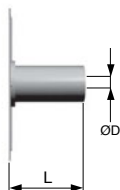
316L stainless steel



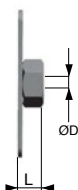
MSP19



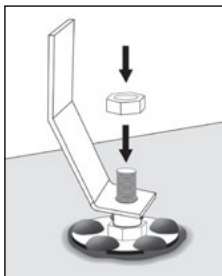
MSP20



Tapped



Nut



Typical application



DISCOUNTS

Qty	1+	50+	100+	500+
Disc.	List	-10%	-20%	On request

Part number	ØA	ØD	L	Form	Prix Uni. 1 à 49
MSP19TB-5-20/SS	19	M5	20	Blind tapped	7,43 €
MSP19E-4-3/SS	19	M4	3,2	Nut	1,81 €
MSP19E-5-4/SS	19	M5	4	Nut	1,84 €
MSP20E-5-4/SS	20	M5	4	Nut	1,86 €

Dimensions in mm

Cylindrical Master-Plate® glueable insert Ø23

Inox 316L

MSP23

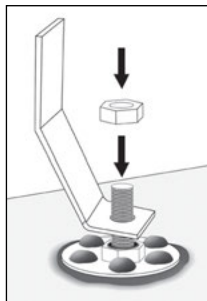
- Glueable stainless steel plate with tapped insert or threaded stud
- Material:
316L stainless steel

Applications

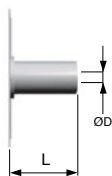
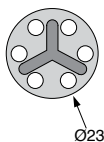
- Industrial, transport, building, furnishings

Info.

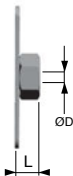
- Glue not supplied
- Not supplied individually, contact us for details



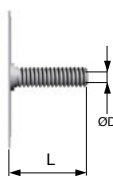
Typical application



Tapped



Nut



Thread



316L stainless steel



316L stainless steel

DISCOUNTS

Qty	1+	50+	100+	500+
Disc.	List	-10%	-20%	On request

Part number	A	ØD	L	Form	Price each 1 to 49
MSP23T-4-10/SS	23	M4	10	Tapped	5,83 €
MSP23T-5-10/SS	23	M5	10	Tapped	6,02 €
MSP23T-6-10/SS	23	M6	10	Tapped	6,23 €
MSP23E-4-3/SS	23	M4	3,2	Nut	1,84 €
MSP23E-5-4/SS	23	M5	4	Nut	1,88 €
MSP23E-6-5/SS	23	M6	5	Nut	2,14 €
MSP23F-4-16/SS	23	M4	16	Thread	1,96 €
MSP23F-4-20/SS	23	M4	20	Thread	1,98 €
MSP23F-5-12/SS	23	M5	12	Thread	1,98 €
MSP23F-6-25/SS	23	M6	25	Thread	2,16 €

Dimensions in mm

Cylindrical Master-Plate® glueable insert Ø38

MSP38

Inox 316L

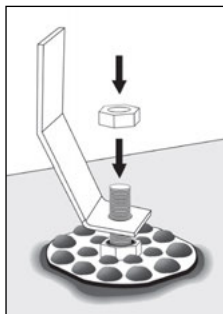
- Glueable stainless steel plate with tapped insert or threaded stud
- Material:
316L stainless steel

Applications

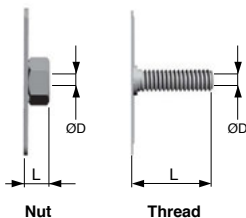
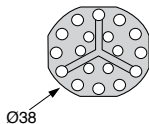
- Industrial, transport, building, furnishings

Info.

- Glue not supplied
- Not supplied individually, contact us for details



Exemple d'application



DISCOUNTS

Qty	1+	50+	100+	500+
Disc.	List	-10%	-20%	On request

Part number	ØA	ØD	L	Form	Price each 1 to 49
MSP38EB-8-6/SS	38	M8	6,5	Blind tapped	2,97 €
MSP38E-8-6/SS	38	M8	6,5	Nut	2,97 €
MSP38F-6-40/SS	38	M6	40	Thread	2,97 €
MSP38F-8-40/SS	38	M8	40	Thread	3,34 €

Dimensions in mm

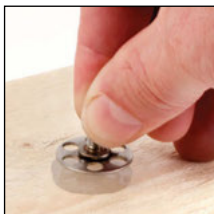
Master-Plate® glueable insert

Installation

MSP



Prepare the surface by applying a small amount of the adhesive



Place the Masterplate on the adhesive



Press down on the Masterplate so that some of the adhesive comes out of the holes



The Masterplate is ready to be assembled



End of assembly

Recommended adhesive depending on the support material:

Adhesive	Composite	Plastic	Wood	Metal	Natural stone	Chipboard	Glass
Plexus MA300	oo	oo	o	oo	o	oo	oo
LOCTITE9466	oo	o	oo	oo	oo	oo	oo
LOCTITE3425	oo	-	oo	oo	oo	oo	-

Caption: - not suitable o Acceptable oo Good

Adhesives will not work on PE, PA, PP or silicon type materials.

To correctly identify the correct adhesive to use, contact your adhesive supplier.

Self-threading insert

Sta

INSs316

For hard materials
in hostile environments

- Self-threading insert with fine external thread

- Material:
316 stainless steel

Applications

- For use in aluminium and other non-ferrous metals as well as thermosetting plastics and hard woods

Montage

- The insert can be fitted into a simple hole using either a INS-TOOL installation tool, a threaded mandrel, a drill fitted with a tapping head or an automatic tapping machine
- The insert must be installed in such a way that the slit acts as a cutting edge to correctly tap the material
- For soft materials, use the minimum recommended hole diameter
- For hard materials, use the maximum recommended diameter
- Chamfer the hole before fitting the insert

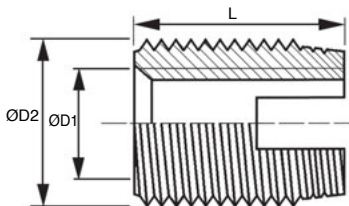
Info.

- Supplied in packets

New material
316
stainless
steel



316 stainless
steel



DISCOUNTS

Qty	1+	10+	20+	30+	40+
Disc. List	-5%	-10%	-15%	On request	

Part number	Thread ØD1	Tap ØD2	Length L	Recommended drilled hole min	max	Qty per pack	Price each per pack.
INS300-M4/SS316/B	M4	M6,5 X 0,75	8	5,8	6,2	20	73,61 €
INS300-M5/SS316/B	M5	M8 X 1	10	7,1	7,6	20	82,31 €
INS300-M6/SS316/B	M6	M10 X 1,5	14	8,6	9,4	20	96,77 €
INS300-M8/SS316/B	M8	M12 X 1,5	15	10,6	11,4	20	103,21 €
INS300-M10/SS316/B	M10	M14 X 1,5	18	12,6	13,4	15	129,42 €
INS300-M12/SS316/B	M12	M16 X 1,5	22	14,6	15,4	10	103,73 €

Dimensions in mm

Boxed set of wide threaded self tapping inserts

For wood

BOX-INS-W

- Selection of self tapping inserts with a large external thread for use in wood
- Assembles by deformation, no special tools required
- With hexagonal socket for assembly
- Material:
White galvanized steel

Applications

- Can be used in soft plastics or woods and rubber



480 pieces



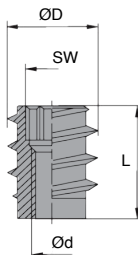
010

440

002

006

Quantity	Type	ØD	L	Ød	SW
50	010	10	12	M5	5
50	010	12	15	M6	6
30	010	14	15	M8	8
50	440	10	12	M5	5
50	440	12	12	M6	6
30	440	14	15	M8	8
50	002	10	10	M5	-
50	002	12	15	M6	-
30	002	14	14	M8	-
30	006	8	12	M5	-
30	006	15	15	M6	-
30	006	12	15	M8	-



DISCOUNTS

Qty	1+	2+	5+
Disc.	List	-5%	On request

Part number	Quantity per box	Price each
BOX-INS-W	480 pieces	354,63 €

Dimensions in mm

Threaded stud **DIN 976A**



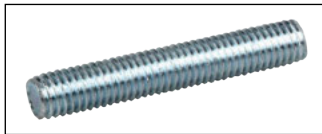
TIF

Steel

- Short threaded stud

- Material:

Galvanised steel, class 4.6



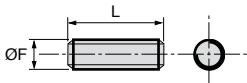
Info.

- Other lengths available on request

Accessories

- SHN nuts

- MCL and MHX sleeves



DISCOUNTS

Qty	1+	5+	15+
Disc.	List -5%	On request	

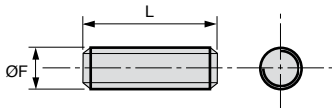
Part number	ØF	L	Quantity per pack	Price each 1 to 4
TIF6-30/B	M6	30	200	20,04 €
TIF6-40/B	M6	40	200	24,12 €
TIF6-50/B	M6	50	200	27,41 €
TIF6-60/B	M6	60	200	35,61 €
TIF6-70/B	M6	70	200	38,89 €
TIF6-80/B	M6	80	200	41,37 €
TIF6-100/B	M6	100	200	51,21 €
TIF6-120/B	M6	120	200	59,41 €
TIF8-30/B	M8	30	200	27,41 €
TIF8-40/B	M8	40	200	33,17 €
TIF8-50/B	M8	50	200	37,24 €
TIF8-60/B	M8	60	200	45,45 €
TIF8-70/B	M8	70	200	49,58 €
TIF8-80/B	M8	80	200	54,49 €
TIF8-100/B	M8	100	200	62,70 €
TIF8-120/B	M8	120	200	83,18 €
TIF8-140/B	M8	140	200	105,34 €
TIF10-30/B	M10	30	100	21,90 €
TIF10-40/B	M10	40	100	23,96 €
TIF10-50/B	M10	50	100	26,42 €
TIF10-60/B	M10	60	100	31,35 €
TIF10-70/B	M10	70	100	38,30 €
TIF10-80/B	M10	80	100	41,18 €
TIF10-100/B	M10	100	100	50,20 €
TIF10-120/B	M10	120	100	66,60 €
TIF10-140/B	M10	140	100	75,62 €
TIF10-160/B	M10	160	100	86,29 €
TIF12-40/B	M12	40	100	30,52 €
TIF12-50/B	M12	50	100	36,26 €
TIF12-60/B	M12	60	100	43,22 €
TIF12-70/B	M12	70	100	51,02 €
TIF12-80/B	M12	80	100	60,05 €
TIF12-100/B	M12	100	100	70,71 €
TIF12-120/B	M12	120	100	95,31 €
TIF12-140/B	M12	140	100	109,65 €
TIF12-160/B	M12	160	100	125,66 €

Dimensions in mm

- Short threaded stud

- Material:

Stainless steel, 304



DISCOUNTS

Qty	1+	5+	15+
Disc.	List -5%	On request	

Part number	ØF	L	Qty per pack	Price each 1 to 4
TIF6-30/SS/B	M6	30	100	51,42 €
TIF6-40/SS/B	M6	40	100	52,67 €
TIF6-50/SS/B	M6	50	100	57,16 €
TIF6-60/SS/B	M6	60	100	63,32 €
TIF6-70/SS/B	M6	70	100	69,89 €
TIF6-80/SS/B	M6	80	100	75,62 €
TIF6-100/SS/B	M6	100	100	87,93 €
TIF6-120/SS/B	M6	120	100	100,23 €
TIF8-30/SS/B	M8	30	100	53,89 €
TIF8-40/SS/B	M8	40	100	63,32 €
TIF8-50/SS/B	M8	50	100	73,17 €
TIF8-60/SS/B	M8	60	100	87,51 €
TIF8-70/SS/B	M8	70	100	101,45 €
TIF8-80/SS/B	M8	80	100	115,40 €
TIF8-100/SS/B	M8	100	100	126,87 €
TIF8-120/SS/B	M8	120	100	140,82 €
TIF8-140/SS/B	M8	140	100	160,92 €
TIF10-30/SS/B	M10	30	100	76,85 €
TIF10-40/SS/B	M10	40	100	92,85 €
TIF10-50/SS/B	M10	50	100	108,83 €
TIF10-60/SS/B	M10	60	100	123,60 €
TIF10-70/SS/B	M10	70	100	135,07 €
TIF10-80/SS/B	M10	80	100	149,02 €
TIF10-100/SS/B	M10	100	100	177,32 €
TIF10-120/SS/B	M10	120	100	206,02 €
TIF10-140/SS/B	M10	140	100	238,01 €
TIF10-160/SS/B	M10	160	100	270,82 €
TIF12-40/SS/B	M12	40	100	141,64 €
TIF12-50/SS/B	M12	50	100	171,98 €
TIF12-60/SS/B	M12	60	100	197,41 €
TIF12-80/SS/B	M12	80	100	250,31 €
TIF12-100/SS/B	M12	100	100	299,92 €
TIF12-120/SS/B	M12	120	100	352,01 €
TIF12-140/SS/B	M12	140	100	404,89 €
TIF12-160/SS/B	M12	160	100	469,28 €

Dimensions in mm

Dual-thread screw wood/metal

SteSta

VCMB

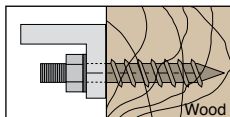
Steel or stainless steel

- **Dual threaded screw wood/metal**
- Allows a metal object to be fixed to wood
- Materials:
 - Galvanised steel
 - Stainless steel, 304
- Supplied by the pack

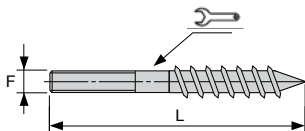


Mounting

- Screw should first be inserted into the wood using a suitable spanner
- Compatible with **N, SHN, NINA** and **NIN** nuts



Typical application



DISCOUNTS Steel

Qty	1+	6+	20+	50+
Disc.	List	-10%	-20%	On request

DISCOUNTS S/steel

Qty	1+	6+	10+
Disc.	List	-5%	On request

	Part number		ØF	L	Qty per pack		Price each 1 to 5	
	Steel	Stainless steel			Steel	S/steel	Steel	S/steel
VCMB5-40/B		-	M5	40	100	-	5,37 €	-
VCMB5-50/B		-	M5	50	100	-	8,90 €	-
VCMB6-60/B	VCMB6-60/SS/B		M6	60	100	100	10,46 €	34,57 €
VCMB6-80/B	VCMB6-80/SS/B		M6	80	100	100	17,28 €	43,41 €
VCMB6-100/B	VCMB6-100/SS/B		M6	100	100	100	28,28 €	58,38 €
VCMB6-120/B	VCMB6-120/SS/B		M6	120	100	100	29,30 €	65,75 €
VCMB8-50/B	VCMB8-50/SS/B		M8	50	100	100	11,17 €	92,14 €
VCMB8-60/B	VCMB8-60/SS/B		M8	60	100	100	12,04 €	54,29 €
VCMB8-80/B	VCMB8-80/SS/B		M8	80	100	50	15,86 €	36,36 €
VCMB8-100/B	VCMB8-100/SS/B		M8	100	100	50	19,75 €	49,29 €
VCMB8-120/B	VCMB8-120/SS/B		M8	120	100	50	24,06 €	57,38 €
VCMB8-140/B	VCMB8-140/SS/B		M8	140	100	50	31,10 €	66,72 €
VCMB8-160/B	VCMB8-160/SS/B		M8	160	100	50	34,74 €	65,90 €
VCMB10-60/B		-	M10	60	100	-	14,66 €	-
VCMB10-80/B	VCMB10-80/SS/B		M10	80	50	25	14,66 €	44,41 €
VCMB10-100/B	VCMB10-100/SS/B		M10	100	50	25	17,95 €	37,14 €
VCMB10-120/B	VCMB10-120/SS/B		M10	120	50	25	31,39 €	43,99 €
VCMB10-140/B	VCMB10-140/SS/B		M10	140	50	25	40,08 €	48,05 €

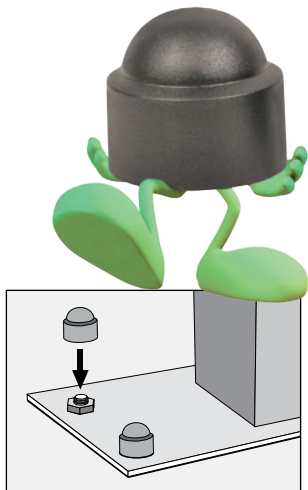
Dimensions in mm

Hexagonal cap

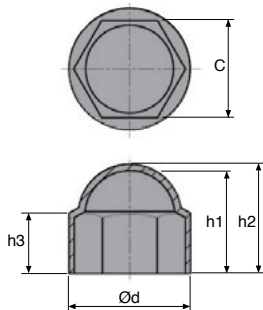
For hexagonal heads

BHEX

- Cap for hexagonal headed screws or nuts
- Stylish, avoids risks of cuts
- Material:
Black technopolymer
- Supplied by the pack



Typical application



DISCOUNTS

Qty	1+	5+	10+	25+
Disc.	List	-10%	-20%	On request

Part number	For thread	Size of hexagon	C	Ød	h1	h2	h3	Qty per pack	Price each 1 to 4
BHEX-4/B	M4	7	6,9	9	7,5	8,3	3,5	100	17,67 €
BHEX-5/B	M5	8	7,9	10,9	8,5	9,5	5	100	17,67 €
BHEX-6/B	M6	10	9,8	12,9	12,0	13,0	6	100	17,67 €
BHEX-8/B	M8	13	12,8	16,8	14,0	15,0	9	100	24,74 €
BHEX-10/B	M10	17	16,7	21,3	18,5	19,5	9	50	14,14 €
BHEX-12/B	M12	19	18,7	23,6	20,0	21,5	11	50	17,67 €
BHEX-14/B	M14	22	21,7	27,5	22,5	24,0	12	50	19,44 €
BHEX-16/B	M16	24	23,7	29,8	25,5	27,0	14	10	6,71 €
BHEX-20/B	M20	30	29,8	37,7	31,0	33,2	17	10	16,96 €
BHEX-24	M24	36	35,8	4,4	38,0	39,2	20	1	2,19 €
BHEX-30	M30	46	45,8	55,9	49,0	51,5	25	1	3,18 €

Dimensions in mm

SPLINED pin ISO8740, ISO8741 et ISO8745

GRP

Steel

- Used to block one component in relation to another
- Conforms to standards: ISO 8740 (DIN 1473), ISO8741 (DIN1474) and ISO8745 (DIN1472)
- Material:
Steel 9SMnPb28K
- Supplied by the pack

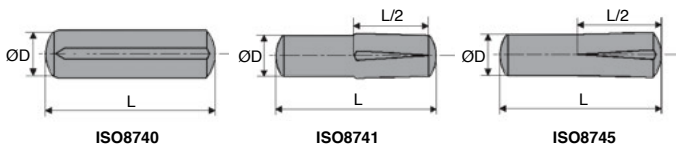


Advantages

- Only a simple chamfered hole is required, not a precise toleranced bore
- Vibration resistant

Info.

- ISO standard: Overall length is used (DIN standard: the length is measured between the edges)



DISCOUNTS

Qty	1+	5+	10+	21+
Disc.	List	-10%	-20%	On request

Part number	ØD	L	Standard	Qty per pack	Price each 1 to 4
GRP2-14-A/B	2	14	ISO8740	100	9,12 €
GRP3-16-A/B	3	16	ISO8740	100	10,84 €
GRP6-20-A/B	6	20	ISO8740	100	20,36 €
GRP4-10-F/B	4	10	ISO8741	100	11,66 €
GRP4-20-F/B	4	20	ISO8741	100	12,79 €
GRP5-12-F/B	5	12	ISO8741	100	13,74 €
GRP5-20-F/B	5	20	ISO8741	100	15,23 €
GRP5-30-F/B	5	30	ISO8741	100	19,86 €
GRP6-14-F/B	6	14	ISO8741	100	18,87 €
GRP2.5-6-E/B	2.5	6	ISO8745	100	9,61 €
GRP3-24-E/B	3	24	ISO8745	100	11,66 €
GRP4-30-E/B	4	30	ISO8745	100	16,36 €
GRP6-14-E/B	6	14	ISO8745	100	18,87 €
GRP6-30-E/B	6	30	ISO8745	100	26,44 €
GRP8-16-E/B	8	16	ISO8745	50	16,57 €
GRP8-30-E/B	8	30	ISO8745	50	21,38 €

Dimensions in mm

- Used to block one component in relation to another
- Conforms to standards: (DIN1475) and ISO8744 (DIN1471)
- Material:
Steel 9SMnPb28K
- Supplied by the pack

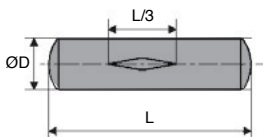


Advantages

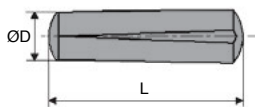
- Only a simple chamfered hole is required, not a precise toleranced bore
- Vibration resistant

Info.

- ISO standard: Overall length is used (DIN standard: the length is measured between the edges)



ISO8742



ISO8744

DISCOUNTS

Qty	1+	5+	10+	21+
Disc.	List	-10%	-20%	On request

Part number	ØD	L	Standard	Qty per pack	Price each 1 to 4
GRP2-14-C/B	2	14	ISO8742	100	9,12 €
GRP2.5-24-C/B	2.5	24	ISO8742	100	11,41 €
GRP3-12-C/B	3	12	ISO8742	100	10,42 €
GRP3-14-C/B	3	14	ISO8742	100	10,67 €
GRP3-18-C/B	3	18	ISO8742	100	10,98 €
GRP3-24-C/B	3	24	ISO8742	100	11,66 €
GRP4-16-C/B	4	16	ISO8742	100	12,23 €
GRP4-24-C/B	4	24	ISO8742	100	13,29 €
GRP5-22-C/B	5	22	ISO8742	100	15,55 €
GRP5-32-C/B	5	32	ISO8742	100	21,66 €
GRP8-32-C/B	8	32	ISO8742	50	22,51 €
GRP1.5-6-D/B	1.5	6	ISO8744	100	7,73 €
GRP2-14-D/B	2	14	ISO8744	100	9,12 €
GRP2.5-10-D/B	2.5	10	ISO8744	100	10,03 €

Dimensions in mm

Welded lifting ring for straight lifts

ASH

Steel

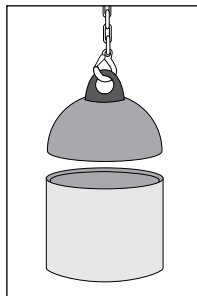
- **Weldable lifting ring**
- Marked with CE symbol, CMU and manufacturer's ref
- **Material:**
Black unfinished steel

Assembly

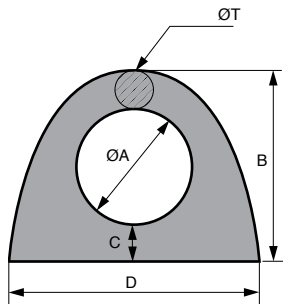
- Installation instructions available on request
- Welding should be done in accordance with DIN 5817 (section 15 429) by an operator qualified to EN287-1

Info.

- The breaking load is obtained by multiplying the SWL by a factor of safety of 5.



Typical application



DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-10%	-20%	On request

Part number	CMU (kg)	ØT	ØA	B	C	D	Weight (kg)	Price each 1 to 5
ASH24-200	200	9	24	43	10	54	0,06	2,12 €
ASH31-500	500	12	31	55	12	68	0,14	3,03 €
ASH43-1000	1000	13	43	67	12	85	0,18	4,54 €
ASH48-2000	2000	18	48	82	16	105	0,40	7,05 €
ASH57-3000	3000	21	57	95	17	128	0,66	13,42 €
ASH67-4000	4000	25	67	107	15	148	1,02	25,54 €
ASH82-6000	6000	28	82	135	24	189	1,92	79,32 €
ASH100-8000	8000	30	100	165	35	210	3,12	83,32 €

Dimensions in mm

Welded lifting ring for 45° lifts

Steel

ASL

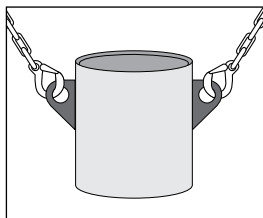
- **Weldable lifting ring**
- Marked with CE symbol, CMU and manufacturer's ref
- Material:
Black unfinished steel

Assembly

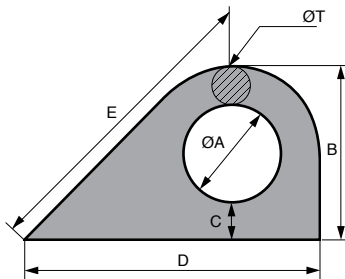
- Installation instructions available on request
- Welding should be done in accordance with DIN 5817 (section 15 429) by an operator qualified to EN287-1

Info.

- The breaking load is obtained by multiplying the SWL by a factor of safety of 5.



Typical application



DISCOUNTS

Qty	1+	6+	20+	50+
Disc.	List	-10%	-20%	On request

Part number	CMU (kg)	ØT	ØA	B	C	D	E	Weight (kg)	Price each 1 to 5
ASL31-500	500	12	31	55	13	89	82	0,16	3,63 €
ASL42-1000	1000	14	42	69	13	113	101	0,30	4,63 €
ASL45-2000	2000	18	45	81	18	134	123	0,50	9,60 €
ASL57-3000	3000	21	57	97	19	152	140	0,80	16,08 €
ASL65-4000	4000	24	65	113	23	167	155	1,24	26,60 €
ASL83-6000	6000	28	83	140	31	218	205	2,36	66,66 €

Dimensions in mm

Pad eye on oval mounting plate

Sta

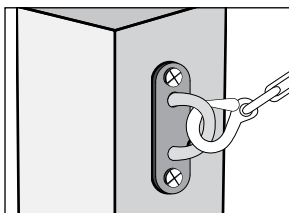
PPOss

Stainless steel

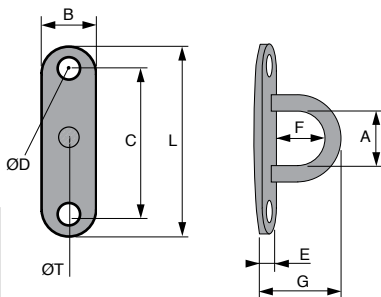
- Screwed mounting plate

- Material:

316 stainless steel



Typical application



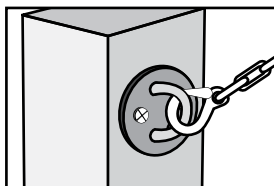
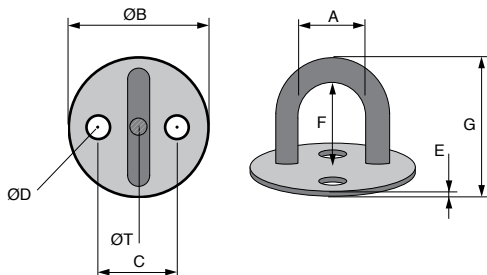
DISCOUNTS

Qty	1+	20+	40+	60+	80+	100+
Disc	List	-5%	-10%	-15%	-20%	On request

Part number	ØT	A	B	L	C	ØD	E	F	G	Weight (kg)	Price each 1 to 19
PPO5-14/SS	5	14	15	45	35	4,5	2,8	13	21	0,019	2,96 €
PPO6-16/SS	6	16	20	60	45	5	2,8	15	25	0,040	4,57 €
PPO8-20/SS	8	20	26	80	60	5,5	2,8	23	33	0,065	7,51 €

Dimensions in mm

- Screwed mounting plate
- Material:
316 stainless steel



Typical application

DISCOUNTS

Qty	1+	20+	40+	60+	80+	100+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	ØT	A	ØB	C	ØD	E	F	G	Weight (kg)	Price each 1 to 19
PPR5-13/SS	5	13	33	20	4	2,8	13	21	0,023	3,54 €
PPR6-17/SS	6	17	40	23	4,5	2,8	17	26	0,030	5,09 €
PPR8-20/SS	8	20	50	29	5	2,8	22	33	0,068	8,05 €

Dimensions in mm

Pad eye on square mounting plate **Sta**

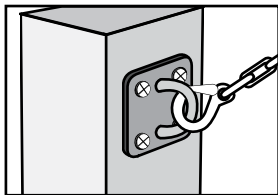
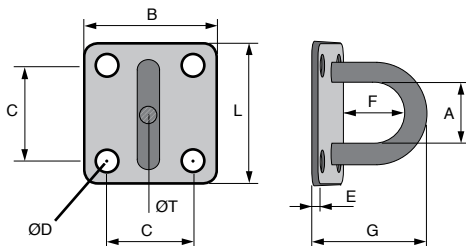
PPC_{SS}

Stainless steel

- Screwed mounting plate

- Material:

316 stainless steel



Typical application

DISCOUNTS

Qty	1+	20+	40+	60+	80+	100+
Disc.	List	-5%	-10%	-15%	-20%	On request

Part number	ØT	A	B	L	ØD	C	E	F	G	Weight (kg)	Price each 1 to 19
PPC5-16/SS	5	16	30	35	5	19	2,8	15	23	0,027	3,57 €
PPC6-20/SS	6	20	35	40	5,5	24	2,8	17	26	0,040	4,78 €
PPC8-23/SS	8	23	40	50	5,5	29	2,8	21	32	0,068	7,42 €

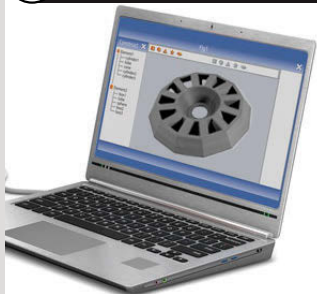
Dimensions in mm

PRINT YOUR PROTOTYPES

PRINTING
3D

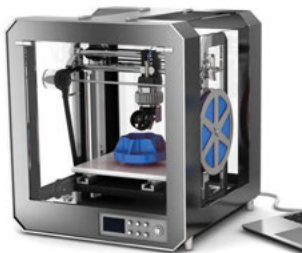
1

YOU'VE GOT A PROJECT



2

WE WILL PRINT IT FOR YOU



NEW!

Our 3D printing service can manufacture your item using our Additive Manufacturing process

More info on
HPCEUROPE.COM

3

AND DELIVER IT TO YOU



R90° aluminium profile

PRF4545R90

Section: 45x45mm

- Profile for modular structures
- To be cut to length by the user
- Material:
Anodised aluminium
- Caps are not supplied individually, contact us for details

Mounting alternatives

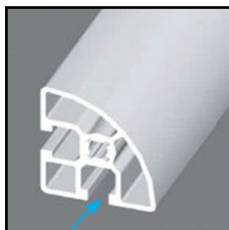
- PRF-FIX-UNI universal fastener
- PRF19-E angle bracket
- PRF-FIX-STD standard fastener
- Screwed assemblies

Application

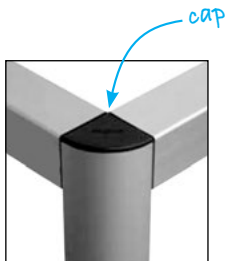
- For use with any type of modular construction

Advantage

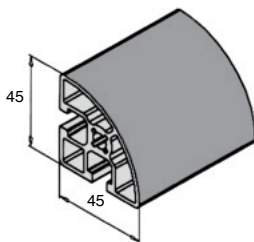
- Eliminates projecting edges



8mm slot



cap



DISCOUNTS profile

Qty	1+	5+	10+
Disc.	List	-5%	On request

DISCOUNTS cap

Qty	1+	50+	100+
Disc.	List	-5%	On request

Part number	lx (cm ⁴)	ly (cm ⁴)	Length (mm)	Weight (kg/m)	Price each
Profile					
PRF4545-3-R90	9,138	9,138	3000	1,478	75,99 €
Cap					
PRF4545-R90-C		End cap with pin			3,66 €

Dimensions in mm

Profile label holder

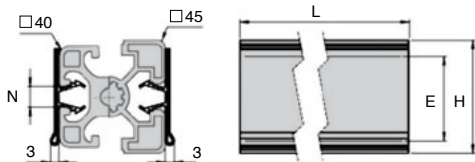
Plastic PVC

ETQ

- Allows labels to be attached to aluminium profiles
- For 36/38mm high labels
- Material:
Plastic PVC
- Colour: Grey RAL7035 / Transparent

Info.

- The label slides into the holder which is then clipped to the profile
- Labels not supplied
- For PRF4545 and PRF4590 profiles
- Supplied by the pack



Mounted on a profile

DISCOUNTS

Qty	1+	50+	100+
Disc List	-5%	On request	

Part number	N	E	H	L	Weight (g)	Qty per pack	Price each 1 to 49
ETQ40-102/B	8+10	36 (max. 38mm)	40	102	12	20	9,95 €
ETQ40-160/B	8+10	36 (max.38mm)	40	160	16	20	12,72 €

Dimensions in mm

T-Clip - Aluminium profile attachment

TCL

Introduction

- There are more than 1,000 different aluminium profiles available on the market.
- Thanks to its patented shape, the T-Clip can mount on almost all of them.

For 8 and 10mm profiles



For attaching components on to aluminium profiles:

- The T-Clip can be mounted in the 8 or 10mm slots of the majority of profiles available on the market.
- It can be used to attach any object weighing up to 5Kg
- Mounting the T-Clip requires no tools.
- Anything with a 15mm hole can be supported.



Technical characteristics

Resistance:

- Tear strength: 9 kg
- To slipping: 5 kg

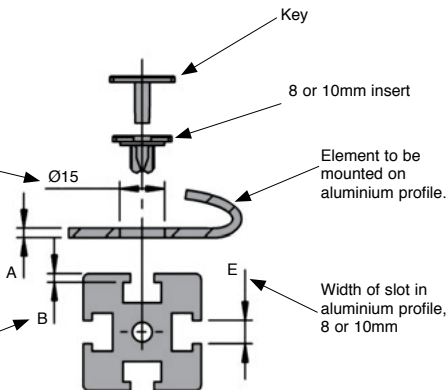
Operation:

- T-Clip 8mm
- T-Clip 10mm

15mm diameter hole on element to be mounted

Thickness of element to be mounted

Height of side of T slot



$$A \Rightarrow 1.25 \text{ mm} / A + B = 8.5 \text{ mm max.}$$

T-Clip - Aluminium profile attachment

TCL

- A T-Clip comprises one insert and one key

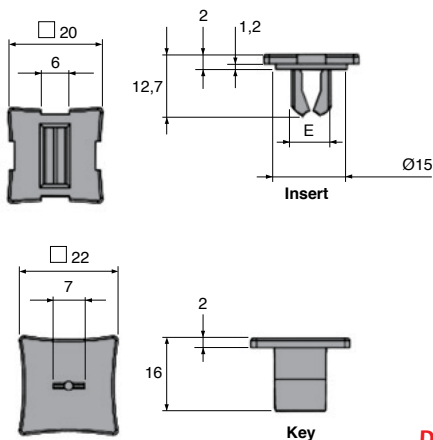
- Resistance:
- Tear strength: 9Kg
- To slipping: 5kg

Advantages

- Allows components to be instantly mounted on an aluminium profile without the need of any tools.
- There are many standard accessories available but any component into which a 15mm diameter hole can be drilled to receive the T-Clip, may also be attached.

Info.

- Not sold individually, please contact us for details



DISCOUNTS

Qty	1+	20+	50+
Disc.	List	-5%	On request

Part number	Weight (g)	For slot width	E	Price each 1 to 19
TCL-8	2,8	8	8	1,01 €
TCL-10	3,1	10	10	1,04 €

Dimensions in mm

T-Clip - Aluminium profile attachment

TCL-PD

Document holder

- Document holder

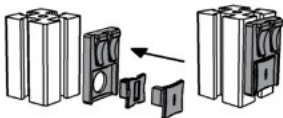
- Description: The document holder has 2 tabs that allow from 1 to 5 sheets to be supported on an aluminium profile

Advantages

- The documents can be inserted or removed very quickly

Info.

- Not sold individually please contact-us for details



DISCOUNTS

Qty	1+	20+	50+
Disc. List	-5%	On request	

Part number	Material	Dimensions	Compatibility	Capacity	Price each
TCL-PD	POM	50x32x10	8 and 10mm T-Clip	1 à 5 sheet	1 to 19 2,55 €

Dimensions in mm

TCL-PC

Cable support

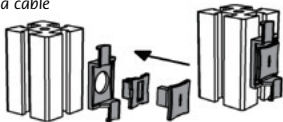
- Description : A cable holder quipped with 2 base plates that makes it possible to run 2 electrical cables along an aluminium profile.

Advantages

- Quick and easy to install
- Cables can be installed both vertically as well as horizontally
- No longer necessary to tie anything around the profile to attach a cable

Info.

- Not sold individually please contact-us for details



DISCOUNTS

Qty	1+	20+	50+
Disc. List	-5%	On request	

Part number	Material	Dimensions	Compatibility	Capacity	Price each
TCL-PC	PA6	54x24x9	8 and 10mm T-Clip	2 cable support	1 to 19 2,11 €

Dimensions in mm

T-Clip - Aluminium profile attachment

Hook

TCL-CR

- Hook
- Description: A cable holder equipped with 2 base plates that makes it possible to run 2 electrical cables along an aluminium profile.

Advantages

- Allows all kinds of objects (brushes, keys, dusters, etc.) to easily be hung from a profile
- Objects can be stored tidily but remain easily accessible
- Being manufactured from 304 stainless steel, they are suitable for use in all sorts of environments.



DISCOUNTS

Qty	1+	20+	50+
Disc. List	-5%	On request	

Part number	Material	Dimensions	Compatibility	Capacity	Price each
TCL-CR	Inox 304	53x24x2	8 and 10mm T-Clip	5 kg	1 to 19 8,93 €

Dimensions in mm

Magnetic object holder

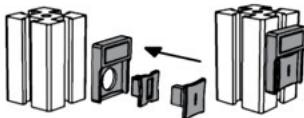
TCL-PM

- Magnetic object holder
- Description: A magnetic holder that allows various metal objects to be attached to an aluminium profile.

Advantages

- Allows various metal objects to be quickly attached

Powerful magnet



DISCOUNTS

Qty	1+	20+	50+
Disc. List	-5%	On request	

Part number	Dimensions	Compatibility	Powerful magnet	Price each
TCL-PM	38,5x32x7,5	8 and 10mm T-Clip	0,9kg/cm ²	1 to 19 8,91 €

Dimensions in mm

T-Clip - Aluminium profile attachment

TCL Pocket fastening system

- A system of pivoting pockets for displaying a set of different documents on an aluminium profile
- A complete system is made up of supports, pockets, magnetic ends and pocket supports.

Info.

- Not sold individually please contact-us for details



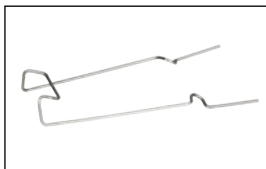
Pockets



Support



Magnetic end-fitting



Pocket support

DISCOUNTS

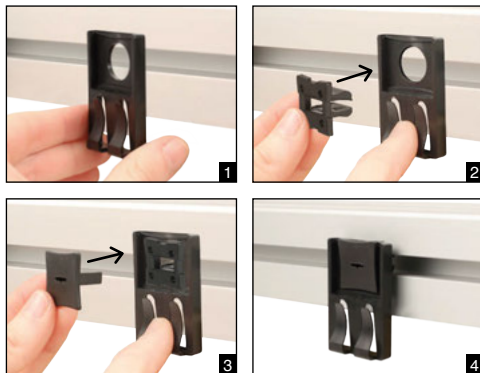
Qty	1+	20+	50+
Disc.	List	-5%	On request

Part number	Type	Material	Dimensions	Compatibility	Capacity	Price each
TCL-PO	Pocket (black)	Steel/polypro	A4	8 - 10 mm	A4	5,88 €
TCL-EMB	Magnetic end-fitting	PA6	-	8 - 10 mm	10 pockets/4,5kg	12,73 €
TCL-SUPP	Support	AW 6060-T6	345x29x5	8 - 10 mm	A4	7,67 €
TCL-BL	Pocket support	-	-	8 - 10 mm	10 pockets	0,44 €

Dimensions in mm

T-Clip - Aluminium profile attachment

Mounting exemple



Typical applications



Hook
TCL-CR



Magnetic object holder
TCL-PM



Document holder
TCL-PD

Articulated pressed steel feet Ø80

Ste

PARF80

Maximum load 20,000N

- **Swivelling mounting foot with steel mounting plate**

- **Materials:**

Base - chromed steel plate

Threaded shaft - chromed steel

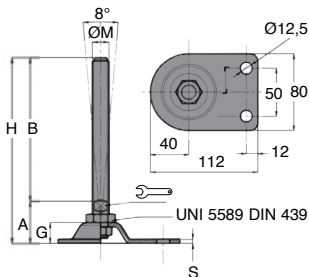
Usage

- The threaded shaft is free to rotate
- A nut under the mounting base allows both rotation and angular inclination ($\pm 4^\circ$) movement to be restricted and means these feet can be used to support posts with recessed holes or mounting plates used with a nut and locknut.
- Angular blocking reduces noise and any lever effect on the mountings (avoids risk of being pulled out)

Advantage

- Ideal for floor mounting robots and also increased speed of production

Economical



DISCOUNTS

Qty	1+	6+	10+	15+	20+
Disc.	List	-5%	-10%	-15%	On request

Part number	ØM	B	S	A	SW	G	H	Static load (N)	Price each 1 to 5
PARF80-16-150	M16	150	3	39,5	13	19	189,5	20000	15,69 €
PARF80-16-200	M16	200	3	39,5	13	19	239,5	20000	16,76 €
PARF80-20-150	M20	150	3	40,5	17	19	190,5	20000	17,98 €
PARF80-20-200	M20	200	3	40,5	17	19	240,5	20000	19,51 €

Dimensions in mm

- **Swivelling mounting foot with steel mounting plate**

- **Materials:**

Base - chromed steel plate

Threaded shaft - chromed steel

Usage

- The threaded shaft is free to rotate

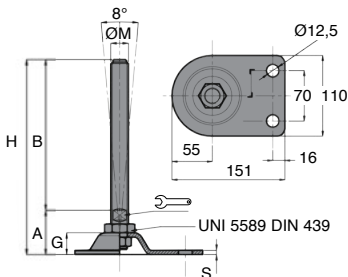
- A nut under the mounting base allows both rotation and angular inclination (+/-4°) movement to be restricted and means these feet can be used to support posts with recessed holes or mounting plates used with a nut and locknut.

- Angular blocking reduces noise and any lever effect on the mountings (avoids risk of being pulled out)

Advantage

- Ideal for floor mounting robots and also increased speed of production

Economical



Mounting bracket

Blind hole

DISCOUNTS

Qty	1+	6+	10+	15+	20+
Disc.	List	-5%	-10%	-15%	On request

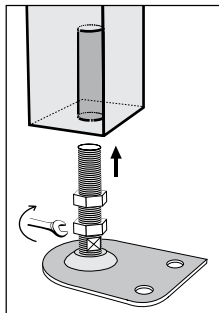
Part number	ØM	B	S	A	SW	G	H	Static load (N)	Price each 1 to 5
PARF110-16-150	M16	150	4	41	17	19	191	25000	18,07 €
PARF110-16-200	M16	200	4	41	17	19	241	25000	19,06 €
PARF110-20-150	M20	150	4	42	17	19	192	25000	20,26 €
PARF110-20-200	M20	200	4	42	17	19	242	25000	21,93 €
PARF110-24-150	M24	150	4	43	20	19	193	30000	24,02 €
PARF110-24-200	M24	200	4	43	20	19	243	30000	26,48 €

Dimensions in mm

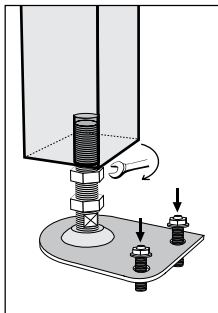
Sheet steel levelling feet, bolt-down

Mounting instructions

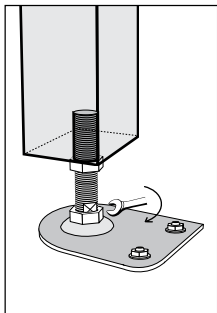
In a post with a blind hole



Using the flats on the thread, insert the stem into the blind hole and adjust to the required height

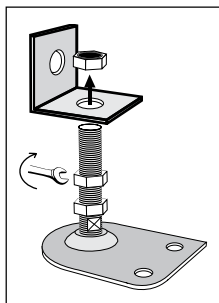


Tighten the lock nut (not supplied) and then secure the foot to the ground

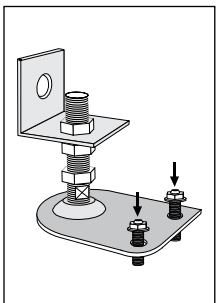


Once levelled, tighten the nut to the base to secure the stem in its angular position

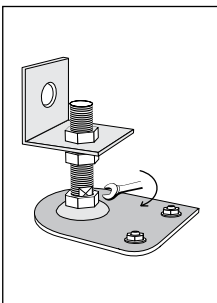
Using mounting brackets



Adjust the height of the foot using a nut and counter-nut (not supplied)



Once at the required height, secure the foot to the ground



Once levelled, tighten the nut to the base to secure the stem in its angular position



Stainless steel swivelling foot

Max load 25,000N



- "Teknohygienic" swivelling foot
- Materials:
 - Base: stainless steel 304
 - Stem: stainless steel 304
 - Sole: NBR rubber Shore hardness 90°

For the food industry

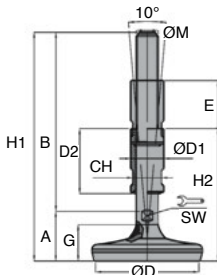
stainless steel

Avoids water retention



Advantages

- The 3-A standard designates products that are designed for the dairy, food and pharmaceutical industries where strict hygiene rules apply.
- Smooth finished foot with a wiper seal between the stem and the nut and around the swivel to prevent accumulation of dirt or retention of water
- Suitable for cleaning with water or chemicals
- USDA approved



DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-5%	On request

Part number	Adjustable range	ØM	A	B	ØD	SW	ØD1	ØD2	G	CH2	H1	H2	H3	Static load (N)	Price each 1 to 5
PTK80-16-140/SS	M16	45	53	140	80	13	24	60	25	20	193	114	159	20000	78,35 €
PTK80-16-190/SS	M16	70	53	190	80	13	24	85	25	20	243	139	209	20000	94,05 €
PTK80-20-140/SS	M20	45	53	140	80	17	30	60	25	26	193	114	159	20000	82,28 €
PTK80-20-142/SS	M20	55	53	142	80	17	30	70	25	26	195	123	178	20000	85,00 €
PTK80-20-190/SS	M20	70	53	190	80	17	30	85	25	26	243	139	209	20000	94,91 €
PTK80-24-140/SS	M24	45	53	140	80	20	35	60	25	30	193	114	159	20000	89,45 €
PTK80-24-190/SS	M24	70	53	190	80	20	35	85	25	30	243	139	209	20000	101,40 €
PTK100-16-140/SS	M16	45	56	140	100	13	24	60	28	20	196	117	162	25000	82,10 €
PTK100-16-190/SS	M16	70	56	190	100	13	24	85	28	20	246	142	212	25000	97,82 €
PTK100-20-140/SS	M20	45	56	140	100	17	30	60	28	26	196	117	162	25000	86,04 €
PTK100-20-190/SS	M20	70	56	190	100	17	30	85	28	26	246	142	212	25000	98,66 €
PTK100-24-140/SS	M24	45	56	140	100	20	35	60	28	30	196	117	162	25000	93,20 €
PTK100-24-190/SS	M24	70	56	190	100	20	35	85	28	30	246	142	212	25000	105,16 €
PTK100-30-135/SS	M30	40	56	135	100	26	42	60	28	36	191	117	157	25000	102,41 €
PTK100-30-185/SS	M30	65	56	185	100	26	42	85	28	36	241	142	207	25000	111,97 €

Dimensions in mm

Stainless steel swivelling foot, bolt-down

PTKFss 

Max load 25,000N

- "Teknohygienic" swivelling foot

- Materials:

Base: stainless steel 304

Stem: stainless steel 304

Blind nut: stainless steel 304

- Sole: NBR rubber Shore hardness 90°

Advantages

- The 3-A standard designates products that are designed for the dairy, food and pharmaceutical industries where strict hygiene rules apply.

- Smooth finished foot with a wiper seal between the stem and the nut and around the swivel to prevent accumulation of dirt or retention of water

- Suitable for cleaning with water or chemicals

- USDA approved

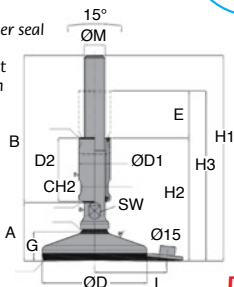
Info.

- Do not forget to order the PTKF-M12/SS 3-A approved blind nut

For the food industry

Avoids water retention

stainless steel



Blind M12 nut

DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-5%	On request

Part number	ØM	Adjustable range	A	B	ØD	SW	ØD1	D2	CH2	H2	H3	H1	I	Static load (N)	Price each 1 to 5
PTKF80-16-140/SS	M16	45	53	140	80	13	24	60	20	114	159	193	54	20000	82,10 €
PTKF80-16-190/SS	M16	70	53	190	80	13	24	85	20	139	209	243	54	20000	97,82 €
PTKF80-20-140/SS	M20	45	53	140	80	17	30	60	26	114	159	193	54	20000	86,04 €
PTKF80-20-142/SS	M20	55	53	142	80	17	30	70	26	123	178	195	54	20000	88,77 €
PTKF80-20-190/SS	M20	70	53	190	80	17	30	85	26	139	209	243	54	20000	98,66 €
PTKF80-24-140/SS	M24	45	53	140	80	20	35	60	30	114	159	193	54	20000	86,04 €
PTKF80-24-190/SS	M24	70	53	190	80	20	35	85	30	139	209	243	54	20000	105,16 €
PTKF100-16-140/SS	M16	45	56	140	100	13	24	60	20	117	162	196	69	25000	86,88 €
PTKF100-16-190/SS	M16	70	56	190	100	13	24	85	20	142	212	246	69	25000	102,60 €
PTKF100-20-140/SS	M20	45	56	140	100	17	30	60	26	117	162	196	69	25000	90,81 €
PTKF100-20-190/SS	M20	70	56	190	100	17	30	85	26	142	212	246	69	25000	103,44 €
PTKF100-24-140/SS	M24	45	56	140	100	20	35	60	30	117	162	196	69	25000	97,99 €
PTKF100-24-190/SS	M24	70	56	190	100	20	35	85	30	142	212	246	69	25000	109,93 €
PTKF100-30-135/SS	M30	40	56	135	100	26	42	60	36	117	157	191	69	25000	107,20 €
PTKF100-30-185/SS	M30	65	56	185	100	26	42	85	36	142	207	241	69	25000	116,75 €

Blind M12 nut

PTKF-M12/SS M12

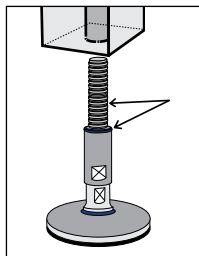
17

12,88 €

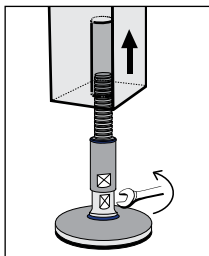
Dimensions in mm

Stainless steel swivelling foot

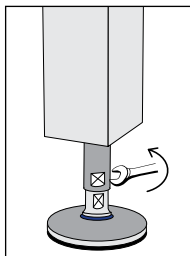
Mounting instructions



Grease the seal and thread with food-grade grease



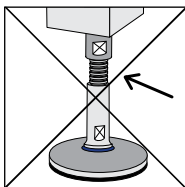
Set the height of the foot by adjusting the screw (whilst not attached to the machine)



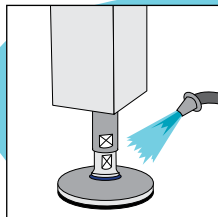
Adjust the sleeve in order to bring the upper seal into contact with the bottom of the machine



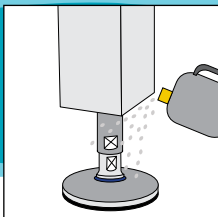
Advice on cleaning



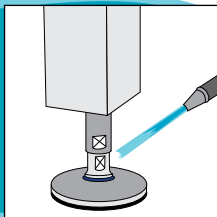
The thread must be completely covered by the sleeve



Rinse with water (Max. temperature 40°C)



Apply an alkaline detergent (Max. temperature 90°C) and leave to act for 10 min



Rinse with water at 8-12 bar (max. 100°C) using a jet inclined at 45° at a minimum distance of 300 mm to avoid damage to the seals

Mounting feet with integrated castors

PDR

Centre castor

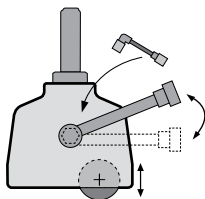
- Combines the advantages of a static mounting foot and a castor
- Use a hexagonal spanner to release the castor
- Castor protrudes 12.5mm when released
- Only for use on surfaces that are smooth (crevices less than 5mm) and horizontal (max slope 3°)
- Max static load 2,500 kg per foot
- Max load 200 kg per foot if used in movable mode
- Materials:
 - Base - Polyamide
 - Sole - NBR rubber
 - Threaded shaft - Chromed steel

Typical application

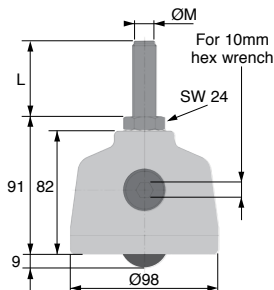
- A vessel remains static whilst the product within is processed but once empty, can be moved for cleaning purposes.

Advantages

- Flexibility (1 item performs 2 functions)
- Less manoeuvring to move a structure
- Time saving



Retracting the castor



DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-5%	On request

Part number	ØM	L	Load Castor fixed (static) (kg)	Load Castor free (dynamic) (kg)	Price each 1 to 5
With threaded shaft					
PDR100-16-50/RC	M16	50	2500	200	112,67 €
PDR100-16-100/RC	M16	100	2500	200	116,07 €
PDR100-20-75/RC	M20	75	2500	200	116,07 €
PDR100-20-125/RC	M20	125	2500	200	119,50 €
PDR100-24-75/RC	M24	75	2500	200	116,07 €
PDR100-24-125/RC	M24	125	2500	200	119,50 €
With 80x80mm mounting plate					
PDR100-80-80/RC	4x8.5mm holes		2500	200	116,07 €

Dimensions in mm

Mounting feet with integrated castors

Offset castor

PDR

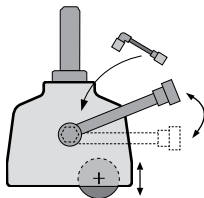
- Combines the advantages of a static mounting foot and a castor
- Use a hexagonal spanner to release the castor
- Castor protrudes 12.5mm when released
- Only for use on surfaces that are smooth (crevices less than 5mm) and horizontal (max slope 3°)
- Max static load 2,500 kg per foot
- Max load 200 kg per foot if used in movable mode
- Materials:
 - Base - Polyamide
 - Sole - NBR rubber
 - Threaded shaft - Chromed steel

Typical application

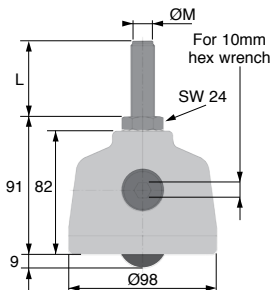
- A vessel remains static whilst the product within is processed but once empty, can be moved for cleaning purposes.

Advantages

- Flexibility (1 item performs 2 functions)
- Less manoeuvring to move a structure
- Time saving



Retracting the castor



DISCOUNTS

Qty	1+	6+	10+
Disc.	List	-5%	On request

Part number	ØM	L	Load Castor fixed (static) (kg)	Load Castor free (dynamic) (kg)	Price each 1 to 5
With threaded shaft					
PDR100-16-50/RD	M16	50	2500	200	112,67 €
PDR100-16-100/RD	M16	100	2500	200	116,07 €
PDR100-20-75/RD	M20	75	2500	200	116,07 €
PDR100-20-125/RD	M20	125	2500	200	119,50 €
PDR100-24-75/RD	M24	75	2500	200	116,07 €
PDR100-24-125/RD	M24	125	2500	200	119,50 €
With 80x80mm mounting plate					
PDR100-80-80/RD	4x8.5mm holes		2500	200	116,07 €

Dimensions in mm

End cap for square tube, with threaded insert Pla

BTCM

Black plastic

Added to range

- Materials:

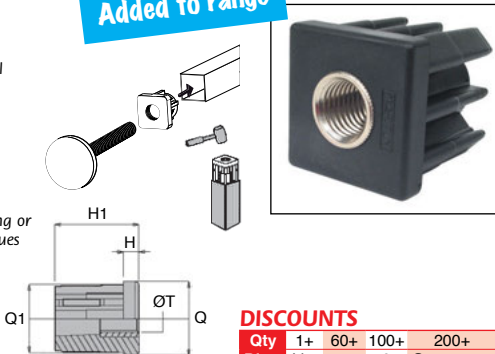
End cap: fiberglass reinforced Polyamide
Threaded insert: nickel plated brass

Option

- Stainless steel insert

Info.

- The values given are for static loads. For vibrating or moving loads, these values should be reduced



DISCOUNTS

Qty	1+	60+	100+	200+
Disc. List	-5%	-10%	On request	

Part number	ØT	Q	Q1	H	H1	Static load (N)	Tube dimensions	Price each 1 to 59
BTC30/1.5-M8	M8	30	27,5	6	33	5000	30x1,5x27	8,60 €
BTC30/1.5-M10	M10	30	27,5	6	33	5000	30x1,5x27	8,60 €
BTC30/1.5-M12	M12	30	27,5	6	33	5000	30x1,5x27	8,60 €
BTC30/1.5-M14	M14	30	27,5	6	33	5000	30x1,5x27	8,60 €
BTC30/1.5-M16	M16	30	27,5	6	33	5000	30x1,5x27	8,60 €
BTC30/2-M8	M8	30	26,5	6	33	5000	30x2x26	8,60 €
BTC30/2-M10	M10	30	26,5	6	33	5000	30x2x26	8,60 €
BTC30/2-M12	M12	30	26,5	6	33	5000	30x2x26	8,60 €
BTC30/2-M14	M14	30	26,5	6	33	5000	30x2x26	8,60 €
BTC30/2-M16	M16	30	26,5	6	33	5000	30x2x26	8,60 €
BTC35/1.5-M10	M10	35	32,5	8	43	8000	35x1,5x32	9,24 €
BTC35/1.5-M12	M12	35	32,5	8	43	8000	35x1,5x32	9,24 €
BTC35/1.5-M14	M14	35	32,5	8	43	8000	35x1,5x32	9,24 €
BTC35/1.5-M16	M16	35	32,5	8	43	8000	35x1,5x32	9,24 €
BTC35/1.5-M20	M20	35	32,5	8	43	8000	35x1,5x32	9,24 €
BTC40/1.5-M8	M8	40	37,5	8	43	8000	40x1,5x37	9,68 €
BTC40/1.5-M10	M10	40	37,5	8	43	8000	40x1,5x37	9,68 €
BTC40/1.5-M12	M12	40	37,5	8	43	8000	40x1,5x37	9,68 €
BTC40/1.5-M14	M14	40	37,5	8	43	8000	40x1,5x37	9,64 €
BTC40/1.5-M16	M16	40	37,5	8	43	8000	40x1,5x37	9,64 €
BTC40/1.5-M20	M20	40	37,5	8	43	8000	40x1,5x37	9,64 €
BTC40/2-M8	M8	40	36,5	8	43	10000	40x2x36	9,68 €
BTC40/2-M10	M10	40	36,5	8	43	10000	40x2x36	9,64 €
BTC40/2-M12	M12	40	36,5	8	43	10000	40x2x36	9,64 €
BTC40/2-M14	M14	40	36,5	8	43	10000	40x2x36	9,64 €
BTC40/2-M16	M16	40	36,5	8	43	10000	40x2x36	9,64 €
BTC40/2-M20	M20	40	36,5	8	43	10000	40x2x36	9,64 €
BTC40/2.5-M8	M8	40	35,5	8	43	10000	40x2,5x35	9,68 €

Dimensions in mm

Part number	ØT	Q	Q1	H	H1	Static load (N)	Tube dimensions	Price each 1 to 59
BTC40/2.5-M10	M10	40	35,5	8	43	10000	40x2,5x35	9,68 €
BTC40/2.5-M12	M12	40	35,5	8	43	10000	40x2,5x35	9,68 €
BTC40/2.5-M14	M14	40	35,5	8	43	10000	40x2,5x35	9,68 €
BTC40/2.5-M16	M16	40	35,5	8	43	10000	40x2,5x35	9,68 €
BTC40/2.5-M20	M20	40	35,5	8	43	10000	40x2,5x35	9,68 €
BTC40/3-M8	M8	40	34,5	8	43	10000	40x3x34	9,68 €
BTC40/3-M10	M10	40	34,5	8	43	10000	40x3x34	9,68 €
BTC40/3-M12	M12	40	34,5	8	43	10000	40x3x34	9,68 €
BTC40/3-M14	M14	40	34,5	8	43	10000	40x3x34	9,68 €
BTC40/3-M16	M16	40	34,5	8	43	10000	40x3x34	9,68 €
BTC40/3-M20	M20	40	34,5	8	43	10000	40x3x34	9,68 €
BTC40/4-M8	M8	40	32,5	8	43	10000	40x4x32	9,68 €
BTC40/4-M10	M10	40	32,5	8	43	10000	40x4x32	9,68 €
BTC40/4-M12	M12	40	32,5	8	43	10000	40x4x32	9,68 €
BTC40/4-M14	M14	40	32,5	8	43	10000	40x4x32	9,68 €
BTC40/4-M16	M16	40	32,5	8	43	10000	40x4x32	9,68 €
BTC40/4-M20	M20	40	32,5	8	43	10000	40x4x32	9,68 €
BTC50/1.5-M10	M10	50	47,5	11	55	8000	50x1,5x47	11,53 €
BTC50/1.5-M12	M12	50	47,5	11	55	8000	50x1,5x47	9,64 €
BTC50/1.5-M14	M14	50	47,5	11	55	8000	50x1,5x47	9,64 €
BTC50/1.5-M16	M16	50	47,5	11	55	8000	50x1,5x47	9,64 €
BTC50/1.5-M20	M20	50	47,5	11	55	8000	50x1,5x47	9,64 €
BTC50/2-M8	M8	50	46,5	11	55	12000	50x2x46	11,53 €
BTC50/2-M10	M10	50	46,5	11	55	12000	50x2x46	11,53 €
BTC50/2-M12	M12	50	46,5	11	55	12000	50x2x46	11,53 €
BTC50/2-M14	M14	50	46,5	11	55	12000	50x2x46	11,53 €
BTC50/2-M16	M16	50	46,5	11	55	12000	50x2x46	11,53 €
BTC50/2-M20	M20	50	46,5	11	55	12000	50x2x46	11,53 €
BTC50/2.5-M10	M10	50	45,5	11	55	12000	50x2,5x45	11,53 €
BTC50/2.5-M12	M12	50	45,5	11	55	12000	50x2,5x45	9,64 €
BTC50/2.5-M14	M14	50	45,5	11	55	12000	50x2,5x45	9,64 €
BTC50/2.5-M16	M16	50	45,5	11	55	12000	50x2,5x45	9,64 €
BTC50/2.5-M20	M20	50	45,5	11	55	12000	50x2,5x45	9,64 €
BTC50/3-M10	M10	50	44,5	11	55	12000	50x3x44	11,53 €
BTC50/3-M12	M12	50	44,5	11	55	12000	50x3x44	11,53 €
BTC50/3-M14	M14	50	44,5	11	55	12000	50x3x44	11,53 €
BTC50/3-M16	M16	50	44,5	11	55	12000	50x3x44	11,53 €
BTC50/3-M20	M20	50	44,5	11	55	12000	50x3x44	11,53 €
BTC50/4-M10	M10	50	42,5	11	55	12000	50x4x42	11,53 €
BTC50/4-M12	M12	50	42,5	11	55	12000	50x4x42	11,53 €
BTC50/4-M14	M14	50	42,5	11	55	12000	50x4x42	11,53 €
BTC50/4-M16	M16	50	42,5	11	55	12000	50x4x42	11,53 €
BTC50/4-M20	M20	50	42,5	11	55	12000	50x4x42	11,53 €
BTC60/2-M10	M10	60	56,5	10	55	12000	60x2x56	12,32 €
BTC60/2-M12	M12	60	56,5	10	55	12000	60x2x56	12,32 €
BTC60/2-M14	M14	60	56,5	10	55	12000	60x2x56	12,32 €
BTC60/2-M16	M16	60	56,5	10	55	12000	60x2x56	12,32 €
BTC60/2-M20	M20	60	56,5	10	55	12000	60x2x56	12,32 €
BTC60/3-M10	M10	60	54,5	10	55	12000	60x3x54	12,32 €
BTC60/3-M12	M12	60	54,5	10	55	12000	60x3x54	12,32 €
BTC60/3-M14	M14	60	54,5	10	55	12000	60x3x54	12,32 €
BTC60/3-M16	M16	60	54,5	10	55	12000	60x3x54	12,32 €
BTC60/3-M20	M20	60	54,5	10	55	12000	60x3x54	12,32 €
BTC60/4-M10	M10	60	52,5	10	55	12000	60x4x52	12,32 €
BTC60/4-M12	M12	60	52,5	10	55	12000	60x4x52	12,32 €
BTC60/4-M14	M14	60	52,5	10	55	12000	60x4x52	12,32 €
BTC60/4-M16	M16	60	52,5	10	55	12000	60x4x52	12,32 €
BTC60/4-M20	M20	60	52,5	10	55	12000	60x4x52	12,32 €

Dimensions in mm

Steel gravity rollers

RLX/AC8

For gravity conveying systems

- Mounted on oiled conical steel bearings
- Moving individual loads
- Only for gravity applications
- Axle mounted on left side spring
- Materials:
 - Galvanised steel tube
 - Steel axle
 - Polypropylene roller housing
 - Polypropylene seals

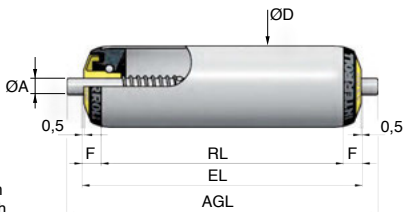


Uses

- Maximum conveyor speed: 0.3 m/s
- Working temp range: -5 to +40 ° C

Advantages

- Gentle lateral movement of the product being transported
- Design includes protection of bearing against dust and liquids
- Dirt resistant



RL = Useful length
EL = Installed length
AGL = Overall length

DISCOUNTS

Qty	1+	6+	20+
Disc.	List	-10%	On request

Part number	ØD roller	Tube thickness	ØA axle	RL	EL	AGL	F	Load capacity (N)	Price each 1 to 5
RLX50-300/AC8	50	1,5	8	300	310	326	11	350	10,82 €
RLX50-350/AC8	50	1,5	8	350	360	376	11	350	11,61 €
RLX50-400/AC8	50	1,5	8	400	410	426	11	350	12,41 €
RLX50-450/AC8	50	1,5	8	450	460	476	11	350	13,20 €
RLX50-500/AC8	50	1,5	8	500	510	526	11	350	13,99 €
RLX50-550/AC8	50	1,5	8	550	560	576	11	350	14,78 €
RLX50-600/AC8	50	1,5	8	600	610	626	11	350	15,55 €
RLX50-650/AC8	50	1,5	8	650	660	676	11	350	16,34 €
RLX50-700/AC8	50	1,5	8	700	710	726	11	350	17,12 €
RLX50-750/AC8	50	1,5	8	750	760	776	11	350	17,92 €

Dimensions in mm

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Fax: 0 825 88 6000 Service 0,15€/min + prix appel

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For professionals

1- APPLICATION AND OPPOSABILITY OF THE GENERAL TERMS OF SALE

Placing an order with ENGENAGES HPC ("HPC") implies the full and unreserved acceptance by the professional buyer (the "Customer") of these General Terms of Sale (the "GTC"), to the exclusion of all other documents issued by HPC which are provided for information only and solely for reference, in spite of any stipulation to the contrary indicated on the Customer's purchase orders, on its general terms and conditions of purchase or on any other document produced by the Customer.

Any condition imposed by the Customer shall therefore be ineffective against HPC unless it is expressly accepted by HPC, regardless of when it was informed of the condition.

These GTS may only be completed by the specifications for customised parts, it being stated that if there is any conflict between these GTS and the technical specifications of the parts to be produced, the CGV shall take precedence.

If HPC does not require performance at a given time of any of the clauses hereof, it cannot be deemed to have waived its right to require performance later on.

2 - ORDERS

Orders must be placed in writing by the Customer with HPC. Any order placed by telephone must therefore be confirmed by the Customer in writing within 24 hours of the phone call. If it is not confirmed, it will not be taken into account. The order only becomes final and the sales agreement is only formed once it has been accepted by HPC either by sending confirmation of order or by delivery of the products ordered to the Customer.

If HPC makes any changes to the Customer's order, which are indicated in the order confirmation letter sent to the Customer, the Customer is deemed to have accepted the changes unless it submits a written response within 24 hours.

- No orders will be accepted for less than 20 € exclusive of tax, including for over-the-counter orders.
- No orders will be accepted for less than 150 € for EU countries, or for over €500 € for non-EU countries.

3- MODIFICATION OR CANCELLATION OF ORDERS

Modification or cancellation of orders requested by the Customer can only be taken into account if they have been expressly accepted by HPC within 24 hours of the request.

The Customer will be liable for any processing costs. They will be indicated in the acceptance letter. The costs applicable may represent up to 50% of the total cost of the order row concerned or of the total cost of the order. If they are not accepted by HPC, the products initially ordered will be shipped as initially planned and must be paid for.

4- PRICE

All of the prices in our catalogue are indicated exclusive of tax, and VAT at the current rate, delivery and packaging charges and any insurance that the Customer wishes to take out, must be added. The packaging is selected by HPC, unless specifically requested by the Customer.

Except as otherwise stated, the products are sold at the price in force on the order date. The prices of the products stated in the catalogue are those in force on the catalogue publication date indicated on the cover. They may be amended by HPC at any time.

5- DELIVERY - TERMS - LEAD TIMES

A- LEAD TIMES

Parts in stock on the order acceptance date may be made available or shipped within a maximum of 72 hours from the time of acceptance. For parts in the catalogue that are not in stock on the order acceptance date or for special parts, the manufacturing lead time is indicated for information only when the order is accepted.

Except in cases of force majeure, if the delivery date indicated by HPC is exceeded by more than thirty (30) working days, the Customer may request the early cancellation of the order by registered letter with acknowledgement of receipt within thirty (30) working days of expiry of the deadline.

For the purposes of these GTS, the following are deemed to be force majeure events: wars, riots, fires, strikes, natural disasters, impossibility of obtaining supplies, this list not being restrictive.

Cancellation shall enter into effect on the date of receipt by HPC of the aforementioned letter provided that the delivery has not been carried out prior to the date of receipt of the letter.

B- DELIVERY

Except as otherwise expressly stipulated, delivery is carried out by direct delivery of the products to the Customer on the premises of HPC in Dardilly, 69570 (France) or to the carrier chosen by HPC, or failing that chosen by the Customer.

The products are sold from Dardilly, 69570 France (premises of HPC), and are transported at the risk of the consignee, notwithstanding HPC's retention of title clause as stipulated below.

Except as otherwise expressly provided, goods are transported FCA (at the Customer's expense by the carrier chosen by HPC) or failing that by the Customer.

It is up to the Customer to express any customary observations and reservations to the carrier in the event of loss or damage during transport, by registered letter with acknowledgement of receipt or by extrajudicial document within three days of receipt of the products (Article L.133-3 of the French Commercial Code).

HPC reserves the right to carry out part deliveries.

C- ACCEPTANCE

The Customer must check at the time of delivery, in the presence of the carrier, that the parcels do not show any sign of having been damaged, broken or opened, and that the number of parcels matches the number indicated on the shipping document. The customer must express any reservations on the shipping document.

Without prejudice to the measures to be taken with regard to the carrier, claims regarding apparent defects or non-compliance of the product delivered with the product ordered or with the consignment note must be made in writing within thirty days of the arrival of the products, or the claim is barred.

It is up to the Customer to ask HPC for a return voucher number and to provide any proof of the reality of the defects or anomalies identified. It must enable HPC to assess these defects and remedy them. It will not intervene itself, or require a third party to intervene for this purpose.

HPC's only obligation under the warranty will be to replace free-of-charge the item that it has recognised as defective. All warranty claims for products must first be submitted to HPC's quality or engineering department, whose consent is required for any replacement. Any postal charges are payable by the Customer if the warranty does not apply.

6- PAYMENT - TERMS AND CONDITIONS

Our invoices are sent with the articles ordered and are payable:

- on receipt,
- at the end of the month, 30 days after the invoice date, subject to the line of credit granted. This means of payment is subject to approval by HPC, which reserves the right to withdraw it at any time, without the Customer being able to object,
- in Euros,
- Credit card (Master card or visa) or bank transfer, the choice of method of payment cannot change the payment due date

No discount will be granted for early payment.

7- LATE OR NON-PAYMENT

In the event of late payment, the penalty is due without it being necessary to send a reminder, on the day following the payment date indicated on the invoice.

Unless there is a provision to the contrary, which cannot however set the rate at less than three times the legal interest rate, the interest rate for the late payment penalty is equal to that applied by the European Central Bank in its most recent refinancing operation, increased by 10%.

Lump-sum compensation for recovery costs is automatically due from the first day of late payment regardless of the deadline applicable to the transaction. This lump-sum compensation of 40 € must be paid in the event of late payment of any amount due, in addition to the late payment penalty.

If the recovery costs actually incurred are higher than this fixed amount, in particular if a collection agency is employed to send reminders and notice to pay, the Customer may be asked to pay additional compensation on production of documentary evidence.

HPC reserves the right to suspend the customer's orders in progress, with or without notice, until it has paid the amounts due, and to take back the equipment delivered.

The Customer must pay each invoice at the due date even if a claim is made.

8- WARRANTY

HPC guarantees the Customer against defects or hidden defects in the products sold, under the conditions specified in Article 1641 of the French Civil Code.

In the event of customised production, since HPC does not provide any services as an engineering department, it undertakes to produce the products in compliance with the specifications provided by the Customer, but does not guarantee that they will function, which it is up to the Customer alone to assess. The Customer alone is responsible for the information transmitted to HPC.

For standard products, HPC guarantees that they will meet the specifications indicated in the catalogue, subject to technical changes made by suppliers. Liability and/or warranty claims against HPC must be made within thirty days of receipt of the goods by the Customer. They cannot result in compensation that exceeds the price of the order concerned. Damage caused by a part marketed by HPC cannot on any account result in compensation.

If a customised product infringes the rights of a third party, the Customer undertakes to repay any resulting costs that may be incurred by HPC (proceedings, compensation, damages, costs of lawyers and other consultants etc.) and actively help to defend HPC at its own expense.

The warranty does not apply if the products sold are modified or interfered with without the prior written agreement of HPC or if the products are used in an abnormal manner or in abnormal conditions in view of their characteristics and the normal practice and standards applicable (in

particular in the event of use or installation in aircraft and/or spacecraft for which the products are totally unsuitable).

9- RETURNS - TERMS AND CONDITIONS

All product returns must be the subject of a formal agreement between HPC and the Customer by fax, email or letter.

The carrier is chosen by HPC. Any product returned without such agreement shall be kept at the Customer's disposal and will not result in the issue of credit notes or repayment.

In any case, no returns will be accepted if they are sent more than thirty days after receipt of the product. The Customer is always liable for the costs and risks of return. All returns must be sent to our head office.

All returns accepted by HPC shall result in the issue of a credit note to the Customer valid for a period of six months from the issue date, after checking the quality and quantity of products returned.

In the event of an apparent defect or non-compliance of the products delivered, duly certified by HPC, the Customer may receive a replacement free of charge, or repayment of the products, at HPC's discretion, to the exclusion of any compensation or damages.

10- RETENTION OF TITLE

Transfer of ownership of all standard or customised parts is subject to payment of the price in full, including principal and incidental charges, it being stated that payment is deemed to have taken place on the date of actual receipt of the amounts by HPC.

The preceding provisions do not prevent the transfer of risks to the Customer (in particular the risk of loss, deterioration and damage caused by the parts shipped) at the time of shipping or delivery of the goods by HPC.

If the Customer returns equipment acquired from HPC in order to have a part produced that must be incorporated in it, or that will be added to it, the Customer remains the owner of the equipment, bears the costs of shipping and return, and the risks linked to transport and any adaptation or alteration of the equipment by HPC, and to any damage it may cause.

11- APPLICABLE LAW - COURT OF COMPETENT JURISDICTION

Sales concluded with HPC are governed by French law.

Any disputes that may arise between the parties concerning the interpretation and/or performance and/or termination of the contract shall be referred to the commercial courts with jurisdiction over the head office of HPC, even in the event of third party proceedings or multiple defendants.

Non-contractual photographs.

Product information subject to technical changes.

General Terms of Sale for private individuals are available on our website hpceurope.com

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	spring plunger detector shaft	1	58 → 59		
	spring plunger pressure pin with electrical contact	1	57		
POLISHER	abrasive polisher for aluminium profile	5	385		
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POSITIONING PIN		1	44 → 48		
POWER	power supplies	2	261 → 263		
PRESSED BEARING	for light loads	New	17 → 18		

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		aluminium profil attachment T-Clip	New	94 → 99	
		guide runner	5	100 → 102	
		label holder	New	93	
		slide runner	5	286 → 287	
		support runner	5	82 → 83	
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RETAINING CABLE		for ball pin	New	57	
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ROLLER		aluminium profile roller	3	287, 5	381
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		cam roller	3	278 → 285	
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		leadscrew	3	292 → 298	
		precision worm screw	4	360 → 383	
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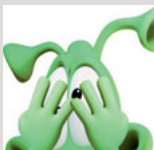
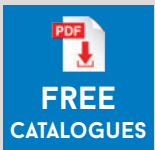
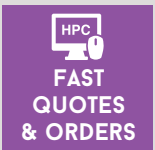
SEAL	lip seal	5	386 → 389	
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	draw spring	1	193 → 203	
	extra-rigid spring	1	206 → 213	
	gas spring	1	222 → 226, 5	226 → 229
	screwjack	3	342 → 353	
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** Certain conditions apply*