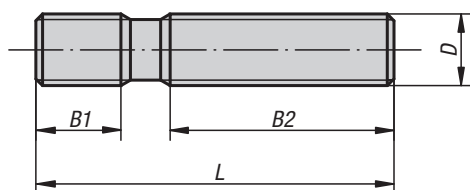


Fastener elements



Studs

DIN 6379



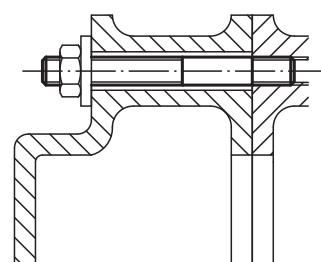
Material:
Carbon steel.

Version:
Thread rolled.
M6-M12 tempered to 10.9, black.
M14-M36 tempered to 8.8, black.

Sample order:
K0697.12125

KIPP Studs DIN 6379

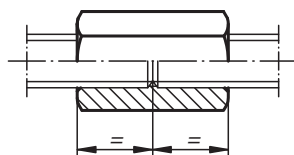
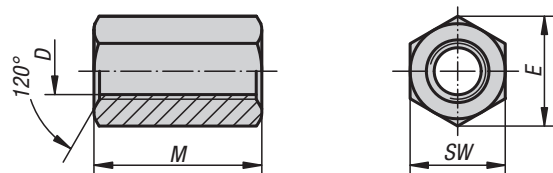
Order No.	D	L	B1	B2
K0697.0632	M6	32	9	16
K0697.0640	M6	40	9	20
K0697.0650	M6	50	9	30
K0697.0663	M6	63	9	40
K0697.0680	M6	80	9	50
K0697.06100	M6	100	9	63
K0697.0840	M8	40	11	20
K0697.0863	M8	63	11	40
K0697.0880	M8	80	11	50
K0697.08100	M8	100	11	63
K0697.08125	M8	125	11	75
K0697.08160	M8	160	11	100
K0697.1050	M10	50	13	25
K0697.1080	M10	80	13	50
K0697.10100	M10	100	13	75
K0697.10125	M10	125	13	75
K0697.10160	M10	160	13	100
K0697.10200	M10	200	13	125
K0697.1250	M12	50	15	25
K0697.1263	M12	63	15	32
K0697.1280	M12	80	15	50
K0697.12100	M12	100	15	63
K0697.12125	M12	125	15	75
K0697.12160	M12	160	15	100
K0697.12200	M12	200	15	125
K0697.1463	M14	63	17	32
K0697.1480	M14	80	17	50
K0697.14100	M14	100	17	63
K0697.14125	M14	125	17	75
K0697.14160	M14	160	17	100
K0697.14200	M14	200	17	125
K0697.14250	M14	250	17	160
K0697.1663	M16	63	19	32
K0697.1680	M16	80	19	50
K0697.16100	M16	100	19	63
K0697.16125	M16	125	19	75
K0697.16160	M16	160	19	100
K0697.16200	M16	200	19	125
K0697.16250	M16	250	19	160
K0697.16315	M16	315	19	180
K0697.16350	M16	350	19	200
K0697.16500	M16	500	20	315



Order No.	D	L	B1	B2
K0697.1880	M18	80	23	50
K0697.18125	M18	125	23	75
K0697.18160	M18	160	23	100
K0697.18200	M18	200	23	125
K0697.18250	M18	250	23	150
K0697.18315	M18	315	23	180
K0697.2080	M20	80	27	32
K0697.20125	M20	125	27	70
K0697.20160	M20	160	27	100
K0697.20200	M20	200	27	125
K0697.20250	M20	250	27	160
K0697.20315	M20	315	27	200
K0697.20400	M20	400	27	250
K0697.20500	M20	500	27	315
K0697.22100	M22	100	31	45
K0697.22160	M22	160	31	100
K0697.22200	M22	200	31	125
K0697.22250	M22	250	31	160
K0697.22315	M22	315	31	180
K0697.22400	M22	400	31	250
K0697.24100	M24	100	35	45
K0697.24125	M24	125	35	63
K0697.24160	M24	160	35	100
K0697.24200	M24	200	35	125
K0697.24250	M24	250	35	160
K0697.24315	M24	315	35	200
K0697.24400	M24	400	35	250
K0697.24500	M24	500	35	315
K0697.24630	M24	630	35	315
K0697.27125	M27	125	39	56
K0697.27200	M27	200	39	125
K0697.27315	M27	315	39	200
K0697.27400	M27	400	39	250
K0697.27500	M27	500	39	315
K0697.30125	M30	125	43	56
K0697.30200	M30	200	43	125
K0697.30315	M30	315	43	200
K0697.30500	M30	500	43	315
K0697.30700	M30	700	43	400
K0697.301000	M30	1000	44	400
K0697.36160	M36	160	51	80
K0697.36200	M36	200	51	125
K0697.36250	M36	250	51	160
K0697.36315	M36	315	51	200
K0697.36400	M36	400	51	250
K0697.36500	M36	500	51	315
K0697.36700	M36	700	51	400

Extension nuts

height 3xD



Material:
Carbon steel.

Version:
Tempered to grade 10, black.

Sample order:
K0865.16

Note:
For functional and safety reasons screws should be screwed into a maximum of half the nut height from both sides. Minimum thread depth 1x diameter.

On request:
DIN ISO 272 spanner sizes.

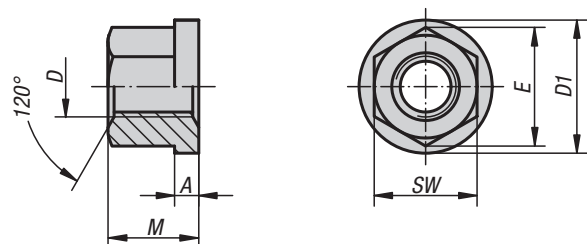
KIPP Extension nuts height 3xD

Order No.	D	M = 3 x D	SW	E
K0865.06	M6	18	10	11,5
K0865.08	M8	24	13	15
K0865.10	M10	30	17	19,6
K0865.12	M12	36	19	21,9
K0865.16	M16	48	24	27,7
K0865.20	M20	60	30	34,6

K0701

Hexagon nuts with collar

height 1.5xD, DIN 6331 enhanced



Material:
Carbon steel.

Version:
Steel grade 10, black.

Sample order:
K0701.16

KIPP Hexagon nuts with collars, height 1.5xD, DIN 6331

Order No.	Base material	D	M = 1,5 x D	A	D1	SW	E
K0701.06	carbon steel	M6	9	3	14	10	11,5
K0701.08	carbon steel	M8	12	3,5	18	13	15
K0701.10	carbon steel	M10	15	4	22	16	18,5
K0701.12	carbon steel	M12	18	4	25	18	20,8
K0701.16	carbon steel	M16	24	5	31	24	27,7
K0701.20	carbon steel	M20	30	6	37	30	34,6

Hexagon nuts

height 1.5xD, DIN 6330 enhanced


Material:

Carbon steel or stainless steel (A2).

Version:

Tempered to 10, black.

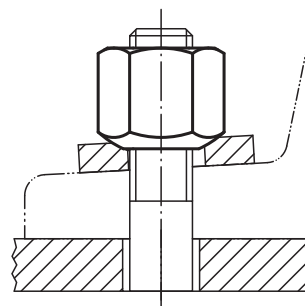
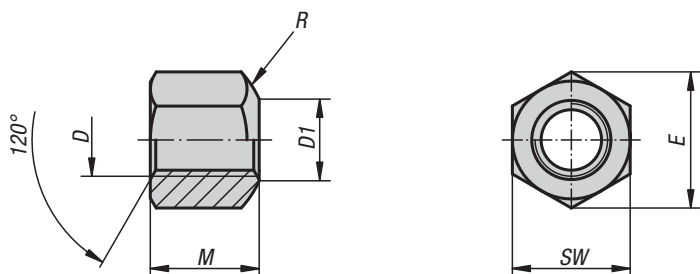
Stainless steel A 2-70, bright.

Sample order:

K0702.12

Note:

These hexagon nuts can be used with the conical seats K0729, Form D and G.

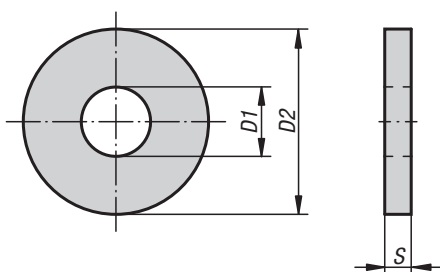


KIPP Hexagon nuts height 1.5xD, DIN 6330 enhanced

Order No.	Base material	D	M = 1,5 x D	D1	SW	E	R
K0702.05	carbon steel	M5	7,5	6,5	9	10,4	7
K0702.06	carbon steel	M6	9	7	10	11,5	9
K0702.08	carbon steel	M8	12	9	13	15	11
K0702.10	carbon steel	M10	15	11,5	16	18,4	15
K0702.101	carbon steel	M10	15	11,5	17	19,6	15
K0702.12	carbon steel	M12	18	14	18	20,7	17
K0702.121	carbon steel	M12	18	14	19	21,9	17
K0702.14	carbon steel	M14	21	16	22	25,4	20
K0702.16	carbon steel	M16	24	18	24	27,7	22
K0702.18	carbon steel	M18	27	20	27	31,2	24,5
K0702.20	carbon steel	M20	30	22	30	34,6	27
K0702.22	carbon steel	M22	33	24	32	36,9	29
K0702.24	carbon steel	M24	36	26	36	41,6	32
K0702.30	carbon steel	M30	45	32	46	53,1	41
K0702.36	carbon steel	M36	54	38	55	63,5	50
K0702.806	stainless steel	M6	9	7	10	11,5	9
K0702.808	stainless steel	M8	12	9	13	15	11
K0702.810	stainless steel	M10	15	11,5	16	18,4	15
K0702.811	stainless steel	M10	15	11,5	17	19,6	15
K0702.812	stainless steel	M12	18	14	18	20,7	17
K0702.816	stainless steel	M16	24	18	24	27,7	22
K0702.820	stainless steel	M20	30	22	30	34,6	27

Washers for clamps

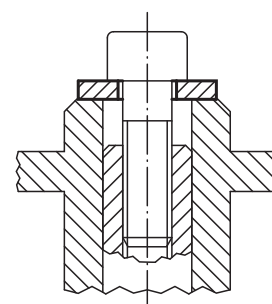
DIN 6340

**Material:**

Steel.

Version:Stamped out, pressed flat and tempered to 1200-1400 N/mm², black.**Sample order:**

K0867.16

**KIPP Heavy-duty washers DIN 6340**

Order No. steel	D1	D2	S	for screw
K0867.06	6,4	17	3	M6
K0867.08	8,4	23	4	M8
K0867.10	10,5	28	4	M10
K0867.12	13	35	5	M12
K0867.16	17	45	6	M16
K0867.20	21	50	6	M20

C-washers

DIN 6372, enhanced



Material:

Carbon steel.

Version:

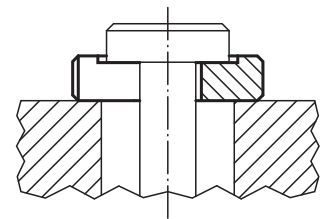
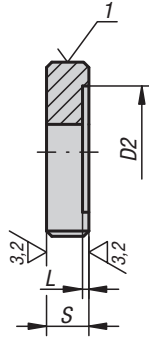
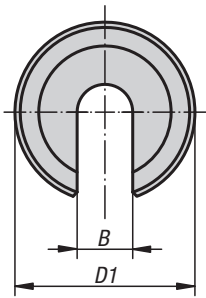
Tempered and black oxidised.

Sample order:

K0730.12

Drawing reference:

1) cross knurl



KIPP C-washers for fixtures DIN 6372, enhanced

Order No.	B	D1	D2	L	S
K0730.05	5,25	17	12	0,75	5
K0730.06	6,4	22	16	0,8	6
K0730.08	8,4	28	21	1	7
K0730.10	10,5	34	25	1,2	8
K0730.12	13	40	30	1,8	9
K0730.14	14,5	48	33	1,8	12
K0730.16	17	56	37	1,8	12
K0730.20	21	64	45	2	14
K0730.24	25	75	52	2	16
K0730.30	31	90	65	2	18
K0730.36	37	100	75	2,5	20

Spacing washers



Material:

Carbon steel.

Version:

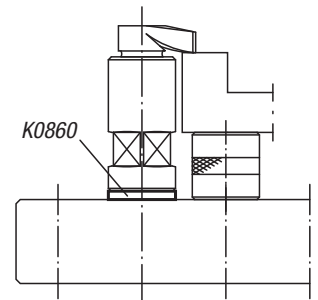
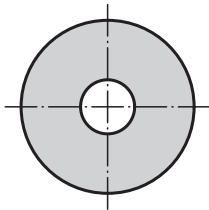
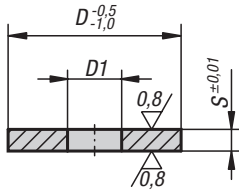
Tempered, black oxidised.
Contact faces ground.

Sample order:

K0860.16005

Note:

The spacing washer is used to alter the clamping range of hook clamps and hook holders. When a spacing washer is inserted between the base and the hook holder or riser cylinder it prevents damage to the support face.



KIPP Spacer washers, ground

Order No.	D	D1	S
K0860.08003	24	9	3
K0860.08005	24	9	5
K0860.08008	24	9	8
K0860.12001	40	12,5	1
K0860.12003	40	12,5	3
K0860.12005	40	12,5	5
K0860.16001	50	16,5	1
K0860.16003	50	16,5	3
K0860.16005	50	16,5	5
K0860.16105	60	16,5	5

Washers

medium, DIN EN ISO 7089 A


Material:

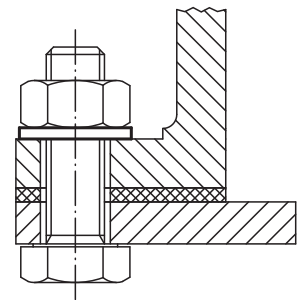
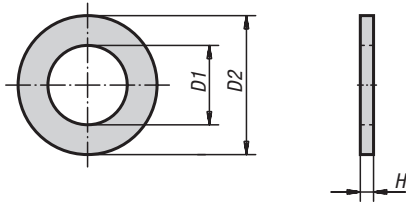
Steel 140 HV or stainless steel (A 2-70)

Version:

Bright.

Sample order:

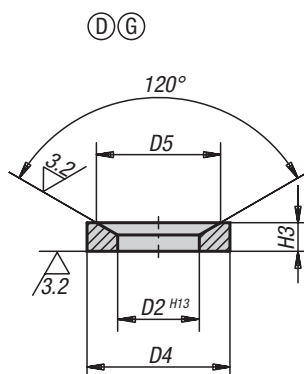
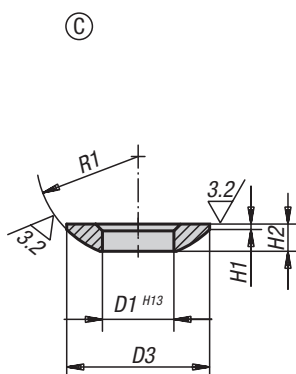
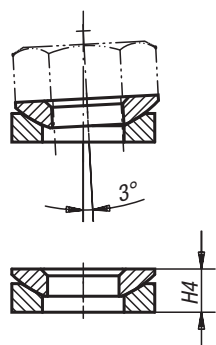
K0868.10


KIPP Medium washers DIN EN ISO 7089 A

Order No. Steel	Order No. Stainless steel	for screws	D1	D2	H
K0868.03	K0868.103	M3	3,2	7	0,5
K0868.04	K0868.104	M4	4,3	9	0,8
K0868.05	K0868.105	M5	5,3	10	1
K0868.06	K0868.106	M6	6,4	12	1,6
K0868.08	K0868.108	M8	8,4	16	1,6
K0868.10	K0868.110	M10	10,5	20	2
K0868.12	K0868.112	M12	13	24	2,5
K0868.14	K0868.114	M14	15	28	2,5
K0868.16	K0868.116	M16	17	30	3
K0868.20	K0868.120	M20	21	37	3
K0868.24	K0868.124	M24	25	44	4
K0868.30	K0868.130	M30	31	56	4
K0868.36	K0868.136	M36	37	66	5

Spherical washers

DIN 6319, 10/01


Material:

Mild steel or stainless steel.

Form G carbon steel tempered to HV 390 ±40.

Version:

Steel version case hardened.

Stainless steel version bright, not hardened.

Sample order:

K0729.216

Note:

Conical seat Form G should be used over slots.

Drawing reference:

Form C: spherical washer

Form D: conical seat $D4 = D3$

Form G: conical seat $D4 > D3$

KIPP Spherical washers Form C DIN 6319, edition 10/01

Order No. mild steel	Order No. stainless steel	Form	D1	D3	H1	H2	R1	for screw Ø	Load rating max. kN (static load only)
K0729.105	-	C	5,25	10,5	0,4	2	7,5	5	-
K0729.106	K0729.0106	C	6,4	12	0,7	2,3	9	6	9/6
K0729.108	K0729.0108	C	8,4	17	0,6	3,2	12	8	17/12
K0729.110	K0729.0110	C	10,5	21	0,8	4	15	10	26/16
K0729.112	K0729.0112	C	13	24	1,1	4,6	17	12	38/24
K0729.114	-	C	15	28	1,2	5	22	14	53
K0729.116	K0729.0116	C	17	30	1,3	5,3	22	16	73/45
K0729.120	K0729.0120	C	21	36	2	6,3	27	20	117/71
K0729.124	K0729.0124	C	25	44	2,4	8,2	32	24	168/105
K0729.130	K0729.0130	C	31	56	3,6	11,2	41	30	269/191
K0729.136	K0729.0136	C	37	68	4,6	14	50	36	394/-
K0729.142	K0729.0142	C	43	78	6,5	17	58	42	542/-
K0729.148	K0729.0148	C	50	92	8	21	67	48	714/-
K0729.156	-	C	58	103	9,5	23	79	56	960
K0729.164	-	C	66	120	12	27	93	64	1269

Spherical washers

DIN 6319, 10/01



KIPP Conical seats Form D DIN 6319, edition 10/01

Order No. mild steel	Order No. stainless steel	Form	D2	D4	D5	H3	H4 with conical seat	for screw Ø	Load rating max. kN (static load only)
K0729.205	-	D	6	10,5	9,25	2,1	3,1	5	-
K0729.206	K0729.0206	D	7,1	12	11	2,8	4	6	9/6
K0729.208	K0729.0208	D	9,6	17	14,5	3,5	5,6	8	17/12
K0729.210	K0729.0210	D	12	21	18,5	4,2	6,3	10	26/16
K0729.212	K0729.0212	D	14,2	24	20	5	8	12	38/24
K0729.214	-	D	16,5	28	24,8	5,6	8,2	14	53
K0729.216	K0729.0216	D	19	30	26	6,2	9,3	16	73/45
K0729.220	K0729.0220	D	23,2	36	31	7,5	11,6	20	117/71
K0729.224	K0729.0224	D	28	44	37	9,5	15	24	168/105
K0729.230	K0729.0230	D	35	56	49	12	18,9	30	269/191
K0729.236	K0729.0236	D	42	68	60	15	23,3	36	394/-
K0729.242	K0729.0242	D	49	78	70	18	28,3	42	542/-
K0729.248	K0729.0248	D	56	92	82	22	35,2	48	714/-
K0729.256	-	D	65	103	92	25	39,7	56	960
K0729.264	-	D	75	120	110	30	46,5	64	1269

KIPP Conical seats Form G, DIN 6319 Edition 10/01

Order No. high carbon steel	Order No. stainless steel	Form	D2	D4	D5	H3	H4 with conical seat	for screw Ø	Load rating max. kN (static load only)
K0729.305	-	G	6	15	9,25	2,5	3,5	5	-
K0729.306	K0729.0306	G	7,1	17	11	4	5,2	6	9/6
K0729.308	K0729.0308	G	9,6	24	14,5	5	6,8	8	17/12
K0729.310	K0729.0310	G	12	30	18,5	5	7,1	10	26/16
K0729.312	K0729.0312	G	14,2	36	20	6	9	12	38/24
K0729.314	-	G	16,5	40	24,8	6	8,6	14	53
K0729.316	K0729.0316	G	19	44	26	7	10,1	16	73/45
K0729.320	K0729.0320	G	23,2	50	31	8	12	20	117/71
K0729.324	K0729.0324	G	28	60	37	10	15,5	24	168/105
K0729.330	K0729.0330	G	35	68	49	12	18,7	30	269/191
K0729.336	-	G	42	80	60	12	20,3	36	394

Socket head screws

DIN 912 / DIN EN ISO 4762

**Material:**

Steel or stainless steel (A 2)

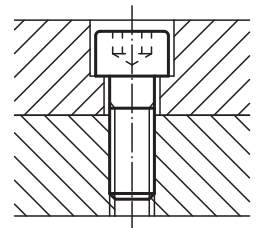
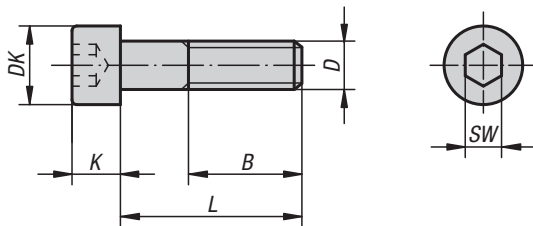
Version:

Steel grade 8.8, black.

Stainless steel A 2-70, bright.

Sample order:

K0869.08X40 (include length L)

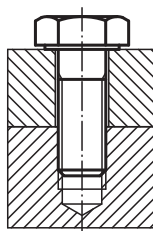
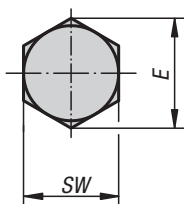
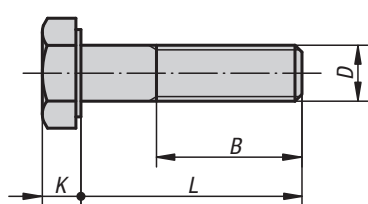


KIPP Socket head screws DIN 912 / DIN EN ISO 4762

Order No. steel	Order No. stainless steel	D	L	B	DK	K	SW
K0869.04X	K0869.104X	M4	10/12/16/18/20/25	20	7	4	3
K0869.05X	K0869.105X	M5	10/12/16/18/20/25/30/40	22	8,5	5	4
K0869.06X	K0869.106X	M6	10/12/16/18/20/25/30/35/40/45/50/55/60	24	10	6	5
K0869.08X	K0869.108X	M8	16/18/20/25/30/35/40/45/50/60/70/80	28	13	8	6
K0869.10X	K0869.110X	M10	16/18/20/25/30/35/40/45/50/60/70/80/90/100	32	16	10	8
K0869.12X	K0869.112X	M12	20/25/30/35/40/45/50/60/70/80/90/100/110/120	36	18	12	10
K0869.14X	-	M14	50/80/120	40	21	14	12
K0869.16X	-	M16	30/35/40/45/50/60/70/80/90/100/110/120	44	24	16	14
K0869.20X	-	M20	40/45/50/60/70/80/90/100/110/120	52	30	20	17

Hexagon head bolts

DIN EN ISO 4014 / DIN EN 24014



KIPP Hexagon head bolts with shaft DIN 931/DIN EN ISO 4014/DIN EN 24014

Order No. steel	Order No. stainless steel	D	L	B	SW	E	K
K0870.04X	-	M4	25/30/35/40/45/50	14	7	7,66	2,8
K0870.05X	K0870.105X	M5	25/30/35/40/45/50/60	16	8	8,79	3,5
K0870.06X	K0870.106X	M6	30/35/40/45/50/60/70	18	10	11,05	4
K0870.08X	K0870.108X	M8	35/40/45/50/60/70/80	22	13	14,38	5,3
K0870.10X	K0870.110X	M10	40/45/50/60/70/80/90/100	26	17	18,9	6,4
K0870.12X	K0870.112X	M12	45/50/60/70/80/90/100/110/120	30	19	21,1	7,5
K0870.16X	K0870.116X	M16	60/70/80/90/100/110/120	38	24	26,75	10
K0870.20X	-	M20	70/80/90/100/110/120	46	30	33,53	12,5

Material:

Steel or stainless steel (A 2)

Version:

Steel grade 8.8, black.

Stainless steel A 2-70, bright.

Sample order:

K0870.110X50 (include length L)

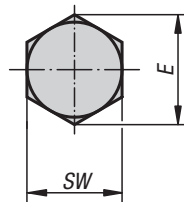
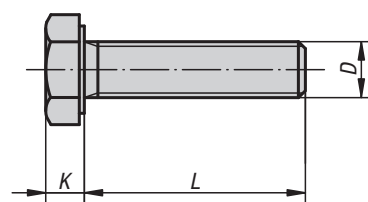
Note:

The versions K0870.105X25 and K0870.105X45 are not available in stainless steel.

K0871

Hexagon head bolts

full thread DIN 933



Material:

Steel.

Version:

Grade 8.8, black.

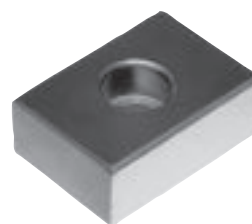
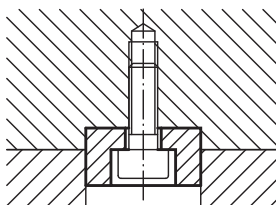
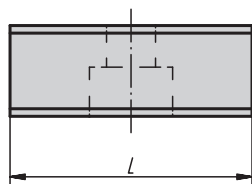
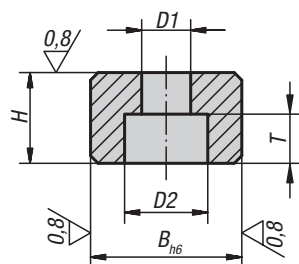
Sample order:

K0871.06X20 (include length L)

KIPP Hexagon head bolts DIN 933

Order No.	D	L	K	SW	E
K0871.06X	M6	20/25/30/40/50/60	4	10	11,05
K0871.08X	M8	16/20/25/30/35/40	5,3	13	14,38
K0871.10X	M10	30/40/50/60/80/100	6,4	17	18,9
K0871.12X	M12	30/40	7,5	19	21,1
K0871.16X	M16	40/50	10	24	26,75

Slot keys



Material:
Steel.

Version:
Case-hardened, black oxidised and ground.

Sample order:
K0864.16

Note:
Slot keys are used to align fixtures and clamps on machine tables with DIN 650 T-slots. They are screwed into the fixture alignment slots. Slot keys are only used when the fixture and machine table have the same slot width.

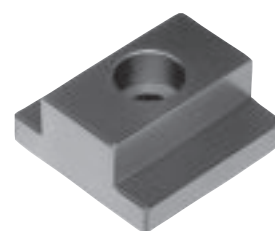
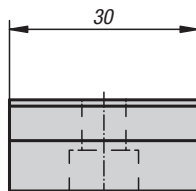
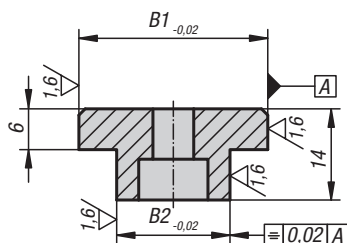
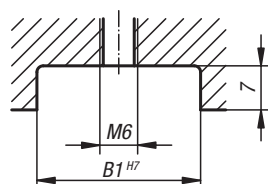
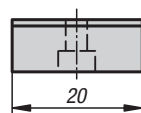
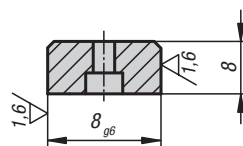
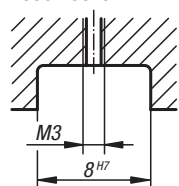
KIPP Slot keys

Order No.	B	H	L	D1	D2	T	for screws DIN 84 or 912
K0864.10	10	8	20	4,5	8	4,3	M4x10
K0864.12	12	8	20	5,5	10	5,3	M5x12
K0864.14	14	10	22	6,6	11	6,3	M6x16
K0864.16	16	10	22	6,6	11	6,3	M6x16
K0864.18	18	10	22	6,6	11	6,3	M6x16
K0864.20	20	10	22	6,6	11	6,3	M6x16
K0864.22	22	12	32	6,6	11	6,3	M6x16

K0954

T-slot keys

K0954.08x8



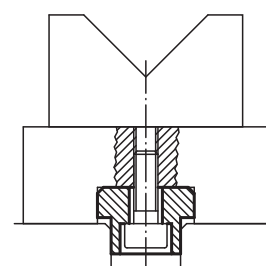
Material:
Carbon steel 1.1191

Version:
Black oxidised.

Sample order:
K0954.08X8 (include dimension B1)

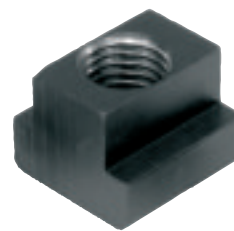
KIPP T-slot keys

Order No.	B1	B2
K0954.08X	8	8
K0954.12X	20/22/30	12
K0954.14X	20/22/30	14
K0954.16X	20/22/30	16
K0954.18X	20/22/30	18
K0954.22X	20/22/30	22



Nuts for T-slots

DIN 508 enhanced



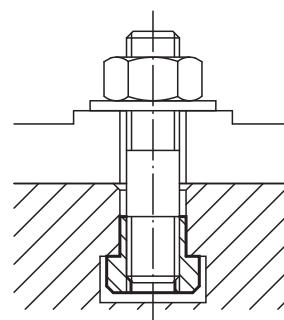
Material:
Carbon steel grade 10.

Version:
Steel black.

Sample order:
K0377.20

KIPP Nuts for T-slots to DIN 508 enhanced

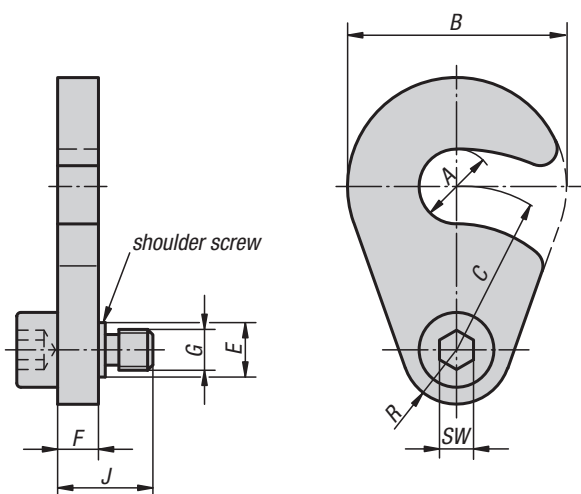
Order No.	Nominal slot size	D	A	E	H	K
K0377.06	8	M6	7,6	13	10	6
K0377.08	10	M8	9,6	15	12	6
K0377.10	12	M10	11,5	18	14	7
K0377.12	14	M12	13,5	22	16	8
K0377.16	18	M16	17,5	28	20	10
K0377.18	20	M18	19,6	32	24	12
K0377.20	22	M20	21,6	35	28	14
K0377.22	24	M22	23,6	40	32	16



K0872

C-washers

captive, with shoulder screw



KIPP C-washers, captive, with shoulder screw

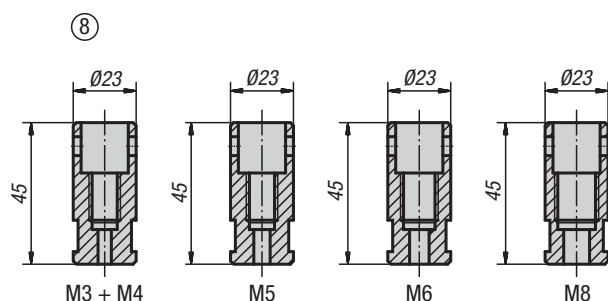
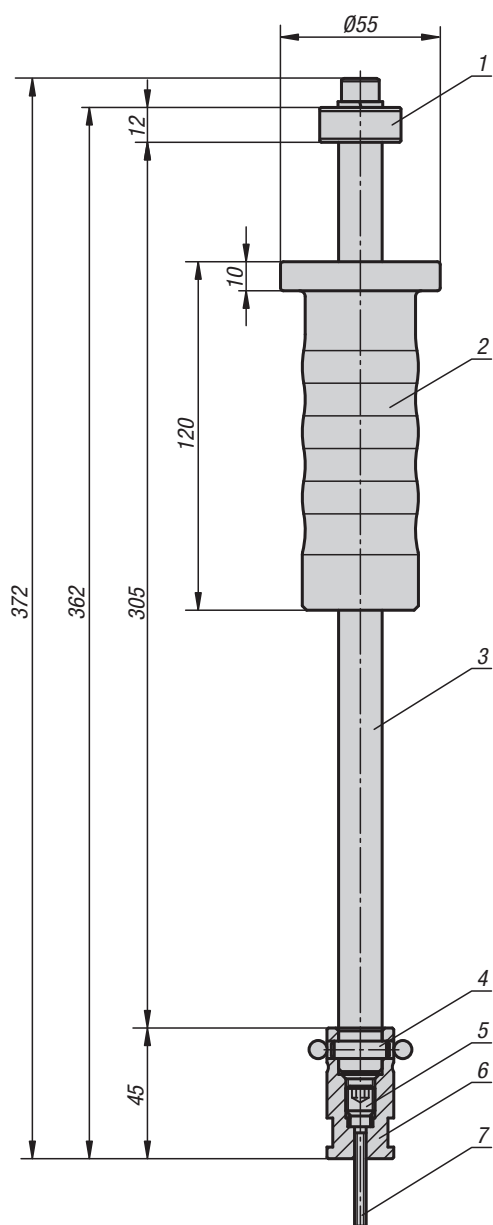
Order No.	A	B	C	D	E	F	G	SW	J
K0872.90010	11	32	24	8	8	6	M6	5	14
K0872.90012	13,5	40	27	10	10	8	M8	6	19
K0872.90016	18	50	33	10	10	8	M8	6	19



Material, version:
Swing C-washer case-hardened steel, black oxidised.
Shoulder screw tempered steel, black oxidised.

Sample order:
K0872.90010

Extractor

**Material:**

Hammer head carbon steel.
Shaft, stop and guide sleeves tool steel.

Version:

Hammer head tempered and chromed.
Shaft, stop and guide sleeve hardened and chromed.

Sample order:

K0873.40

Note:

These extractors are used to remove locating pins and centring pins (K0817, K0818, K0350, K0351) with M3 - M8 tapped holes.

Accessories:

Storage case for guide sleeves.

Drawing reference:

- 1) stop
- 2) hammer head
- 3) shaft
- 4) cross pin
- 5) lock screw
- 6) guide sleeve
- 7) cap screw
- 8) 1 set guide sleeves

KIPP Extractor

Order No.

Dimensions

K0873.40

see drawing



A large rectangular area filled with a fine grid of light gray lines, intended for handwritten notes.



