

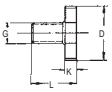
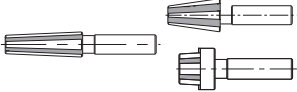
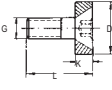
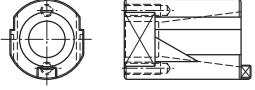
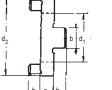
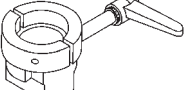
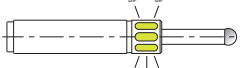
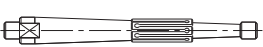
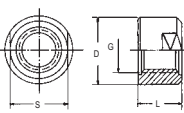
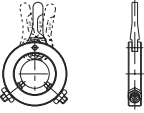
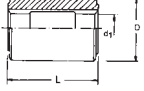
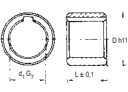
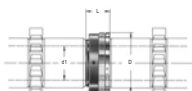
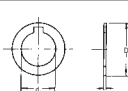
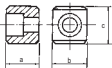
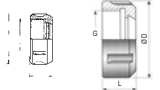
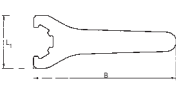
ACCESSORIES





ACCESSORIES

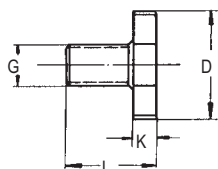


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001 99 01 01 ..

DIN 6367

X-screw for end mill arbors.



	D	L	K	G	COD.
10	14	14	4	M-5	001 99 01 01 10 
13	17	17	5	M-6	001 99 01 01 20
16	20	22	6	M-8	001 99 01 01 30
22	28	25	7	M-10	001 99 01 01 40
27	35	30	8	M-12	001 99 01 01 50
32	42	35	9	M-16	001 99 01 01 60
40	52	40	10	M-20	001 99 01 01 70
50	63	48	12	M-24	001 99 01 01 80
60	75	59	14	M-30	001 99 01 01 90 

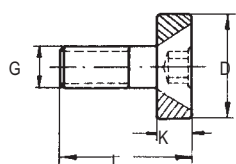


Product outside of our present production program. Price subject to availability.

001 99 01 02 ..

DIN 7991

Allen screw and ring for end mill arbors.

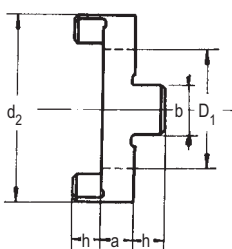


	D	L	K	G	COD.
13	17	17	5	M-6	001 99 01 02 20
16	20	22	6	M-8	001 99 01 02 30
22	28	25	7	M-10	001 99 01 02 40
27	35	30	8	M-12	001 99 01 02 50
32	42	35	9	M-16	001 99 01 02 60
40	52	40	10	M-20	001 99 01 02 70
50	63	48	12	M-24	001 99 01 02 80

001 99 02 01 ..

DIN 6366

Driving collar for end mill arbors.



	d ₂	a	b	h	COD.
13	28	10	8	4,5	001 99 02 01 20
16	32	10	8	5	001 99 02 01 30
22	40	12	10	5,6	001 99 02 01 40
27	48	12	12	6,3	001 99 02 01 50
32	58	14	14	7	001 99 02 01 60
40	70	14	16	8	001 99 02 01 70
50	90	16	18	9	001 99 02 01 80
60	110	16	20	10	001 99 02 01 90 

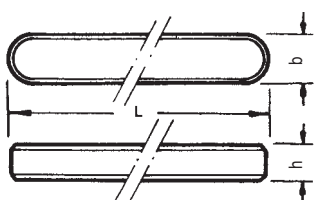


Product outside of our present production program. Price subject to availability.

001 99 03 02 ..

DIN 6885

Driving keys for short end mill arbors.

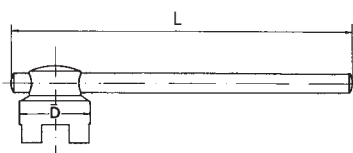


	b	h	L	COD.
13	3	3	18	001 99 03 02 20
16	4	4	20	001 99 03 02 30
22	6	6	25	001 99 03 02 40
27	7	7	25	001 99 03 02 50
32	8	7	28	001 99 03 02 60
40	10	8	32	001 99 03 02 70
50	12	8	36	001 99 03 02 80

001 99 04 01 ..

DIN 6368

Wrench for X-screws.



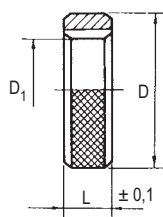
	D	L	COD.
13	20	140	001 99 04 01 20
16	22	160	001 99 04 01 30
22	28	180	001 99 04 01 40
27	35	200	001 99 04 01 50
32	42	225	001 99 04 01 60
40	52	250	001 99 04 01 70
50	63	280	001 99 04 01 80
60	76	280	001 99 04 01 90 

 Product outside of our present production program. Price subject to availability.

001 99 05 01 ..

DIN 2084

End rings for long mill arbors.



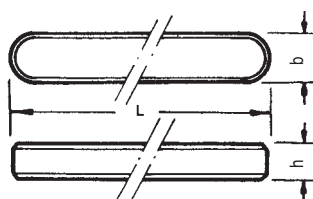
	D	L	COD.
13	24	10	001 99 05 01 20 
16	28	10	001 99 05 01 30
22	36	10	001 99 05 01 40
27	42	10	001 99 05 01 50
32	48	10	001 99 05 01 60
40	57	10	001 99 05 01 70
50	70	10	001 99 05 01 80

 Product outside of our present production program. Price subject to availability.

001 99 06 01 ..

DIN 6885-A

Driving keys for long mill arbors.

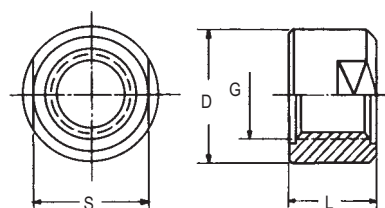


	b	h	L	COD.
16	4	4	100	001 99 06 01 30
22	6	6	100	001 99 06 01 40
27	7	7	100	001 99 06 01 50
32	8	7	100	001 99 06 01 60
40	10	8	100	001 99 06 01 70
50	12	8	100	001 99 06 01 80

001 99 07 ...

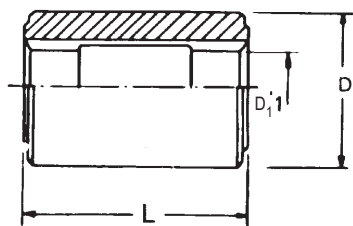
DIN 2082

Nuts for long mill arbors

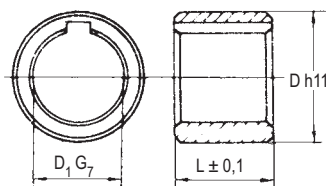


	D	L	S	G	COD. right thread	COD. left thread
13	22	14	19	M-12x1,5	001 99 07 01 20 	001 99 07 02 20 
16	26	16	22	M-14x1,5	001 99 07 01 30	001 99 07 02 30
22	34	22	27	M-20x1,5	001 99 07 01 40	001 99 07 02 40
27	40	28	32	M-24x1,5	001 99 07 01 50	001 99 07 02 50
32	47	32	41	M-30x1,5	001 99 07 01 60	001 99 07 02 60
40	55	40	46	M-36x2	001 99 07 01 70	001 99 07 02 70
50	68	46	55	M-42x2	001 99 07 01 80	001 99 07 02 80 
60	80	56	65	M-52x2	001 99 07 01 90 	001 99 07 02 90 

 Product outside of our present production program. Price subject to availability.



	D	L	COD.
13	38	80	001 99 08 02 20
16	38	80	001 99 08 02 30
22	38	80	001 99 08 02 40
27	38	80	001 99 08 02 50
32	38	80	001 99 08 02 60
16*	42	60	001 99 08 03 30
22*	42	60	001 99 08 03 40
27*	42	60	001 99 08 03 50
16	42	80	001 99 08 04 30
22	42	80	001 99 08 04 40
27	42	80	001 99 08 04 50
32	42	80	001 99 08 04 60
16	48	80	001 99 08 05 30
22	48	80	001 99 08 05 40
27	48	80	001 99 08 05 50
32	48	80	001 99 08 05 60
16*	56	80	001 99 08 06 30
22*	56	80	001 99 08 06 40
27*	56	80	001 99 08 06 50
32*	56	80	001 99 08 06 60
40*	56	80	001 99 08 06 70
16	56	100	001 99 08 07 30
22	56	100	001 99 08 07 40
27	56	100	001 99 08 07 50
32	56	100	001 99 08 07 60
40	56	100	001 99 08 07 70
16	58	80	001 99 08 08 30
22	58	80	001 99 08 08 40
27	58	80	001 99 08 08 50
32	58	80	001 99 08 08 60
40	58	80	001 99 08 08 70
16	58	100	001 99 08 09 30
22	58	100	001 99 08 09 40
27	58	100	001 99 08 09 50
32	58	100	001 99 08 09 60
40	58	100	001 99 08 09 70
16	70	100	001 99 08 10 30
22*	70	100	001 99 08 10 40
27*	70	100	001 99 08 10 50
32*	70	100	001 99 08 10 60
40*	70	100	001 99 08 10 70
50	70	100	001 99 08 10 80
22	70	120	001 99 08 11 40
27	70	120	001 99 08 11 50
32	70	120	001 99 08 11 60
40	70	120	001 99 08 11 70
50	70	120	001 99 08 11 80



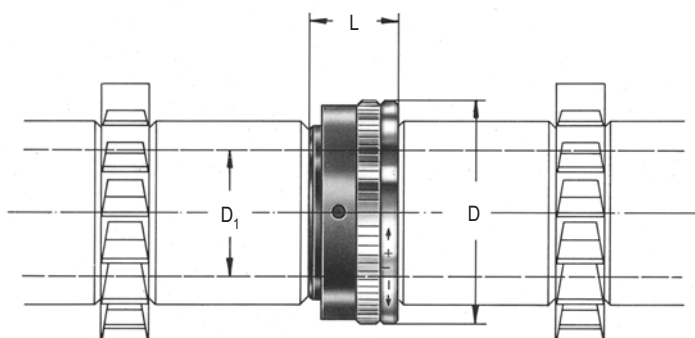
	D	L	COD.
13	22	2	001 99 09 20 02 
13	22	3	001 99 09 20 03
13	22	6	001 99 09 20 04
13	22	10	001 99 09 20 05
13	22	20	001 99 09 20 06
16	27	2	001 99 09 30 02 
16	27	3	001 99 09 30 03
16	27	6	001 99 09 30 04
16	27	10	001 99 09 30 05
16	27	20	001 99 09 30 06
16	27	30	001 99 09 30 07
22	34	2	001 99 09 40 02 
22	34	3	001 99 09 40 03
22	34	6	001 99 09 40 04
22	34	10	001 99 09 40 05
22	34	20	001 99 09 40 06
22	34	30	001 99 09 40 07
22	34	60	001 99 09 40 08
27	41	2	001 99 09 50 02 
27	41	3	001 99 09 50 03
27	41	6	001 99 09 50 04
27	41	10	001 99 09 50 05
27	41	20	001 99 09 50 06
27	41	30	001 99 09 50 07
27	41	60	001 99 09 50 08
27	41	100	001 99 09 50 09 
27	41	40	001 99 09 50 10
32	47	2	001 99 09 60 02 
32	47	3	001 99 09 60 03
32	47	6	001 99 09 60 04
32	47	10	001 99 09 60 05
32	47	20	001 99 09 60 06
32	47	30	001 99 09 60 07
32	47	60	001 99 09 60 08
32	47	100	001 99 09 60 09 
32	47	40	001 99 09 60 10
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40	55	3	001 99 09 70 03
40	55	6	001 99 09 70 04
40	55	10	001 99 09 70 05
40	55	20	001 99 09 70 06
40	55	30	001 99 09 70 07
40	55	60	001 99 09 70 08
40	55	100	001 99 09 70 09 
40	55	40	001 99 09 70 10
50	69	2	001 99 09 80 02 
50	69	3	001 99 09 80 03
50	69	6	001 99 09 80 04
50	69	10	001 99 09 80 05
50	69	20	001 99 09 80 06
50	69	30	001 99 09 80 07
50	59	60	001 99 09 80 08
50	69	100	001 99 09 80 09 
50	69	40	001 99 09 80 10

 Product outside of our present production program. Price subject to availability.

001 99 10 ...

ADJUSTABLE RINGS FOR LONG MILL ARBORS

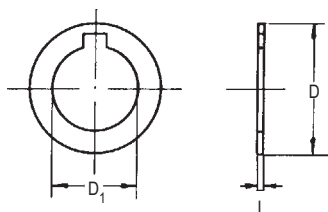
Able to be adjust to any value between L limits



	D	L	COD.
16	34	14 - 16	001 99 10 01 30 
22	40	14 - 16	001 99 10 01 40 
50	86	24 - 28	001 99 10 01 80 



Product outside of our present production program.
Price subject to availability.



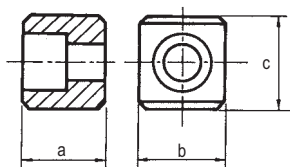
	D	L	COD.
13	21	0,03	001 99 19 20 01
13	21	0,04	001 99 19 20 02
13	21	0,05	001 99 19 20 03
13	21	0,1	001 99 19 20 04
13	21	0,2	001 99 19 20 05
13	21	0,3	001 99 19 20 06
13	21	0,5	001 99 19 20 07
13	21	0,6	001 99 19 20 08
13	21	1	001 99 19 20 09
16	25	0,03	001 99 19 30 01
16	25	0,04	001 99 19 30 02
16	25	0,05	001 99 19 30 03
16	25	0,1	001 99 19 30 04
16	25	0,2	001 99 19 30 05
16	25	0,3	001 99 19 30 06
16	25	0,5	001 99 19 30 07
16	25	0,6	001 99 19 30 08
16	25	1	001 99 19 30 09
22	33	0,03	001 99 19 40 01
22	33	0,04	001 99 19 40 02
22	33	0,05	001 99 19 40 03
22	33	0,1	001 99 19 40 04
22	33	0,2	001 99 19 40 05
22	33	0,3	001 99 19 40 06
22	33	0,5	001 99 19 40 07
22	33	0,6	001 99 19 40 08
22	33	1	001 99 19 40 09
27	39	0,03	001 99 19 50 01
27	39	0,04	001 99 19 50 02
27	39	0,05	001 99 19 50 03
27	39	0,1	001 99 19 50 04
27	39	0,2	001 99 19 50 05
27	39	0,3	001 99 19 50 06
27	39	0,5	001 99 19 50 07
27	39	0,6	001 99 19 50 08
27	39	1	001 99 19 50 09
32	45	0,03	001 99 19 60 01
32	45	0,04	001 99 19 60 02
32	45	0,05	001 99 19 60 03
32	45	0,1	001 99 19 60 04
32	45	0,2	001 99 19 60 05
32	45	0,3	001 99 19 60 06
32	45	0,5	001 99 19 60 07
32	45	0,6	001 99 19 60 08
32	45	1	001 99 19 60 09
40	54	0,03	001 99 19 70 01
40	54	0,04	001 99 19 70 02
40	54	0,05	001 99 19 70 03
40	54	0,1	001 99 19 70 04
40	54	0,2	001 99 19 70 05
40	54	0,3	001 99 19 70 06
40	54	0,5	001 99 19 70 07
40	54	0,6	001 99 19 70 08
40	54	1	001 99 19 70 09
50	67	0,05	001 99 19 80 03
50	67	0,1	001 99 19 80 04
50	67	0,2	001 99 19 80 05
50	67	0,3	001 99 19 80 06
50	67	0,5	001 99 19 80 07
50	67	0,6	001 99 19 80 08
50	67	1	001 99 19 80 09

Delivery: 10 units package.

003 99 01 01 ..

DIN 2079 - FORMA-A

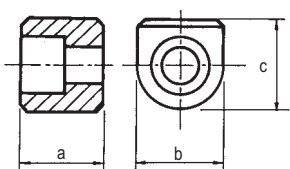
Driving keys for machine spindle.



ISO TAPER	a	b	c	COD.
30	16	15,9	16,5	003 99 01 01 01
40	16	15,9	19,5	003 99 01 01 02
50	25	25,4	26,5	003 99 01 01 04

303 05 05 00 ..

Driving keys for end mill arbors.

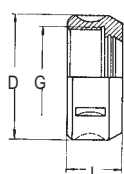


	a	b	c	COD.
16	8	8	11	303 05 05 00 30
22	10	10	12	303 05 05 00 40
27	12	12	15	303 05 05 00 50
32	14	14	16	303 05 05 00 60
40	16	15,9	18	303 05 05 00 70
50	18	18	20	303 05 05 00 80

004 99 01 01 ..

DIN 6388

Collet chuck nut (balanced).



Size	D	L	G	COD.	Maximal tightening torque (Nm)
1 a 6	18	14	M-14x1	004 99 01 01 01	40
2 a 10	30	19	M-22x1,5	004 99 01 01 02	60
2 a 20	50	28	M-42x2	004 99 01 01 04	110
4 a 25	60	30	M-48x2	004 99 01 01 05	140
4 a 32	72	33,5	M-60x2,5	004 99 01 01 06	180

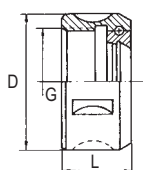
Product outside of our present production program. Price subject to availability.



004 99 01 02 ..

DIN 6388

Collet chuck nut (friction bearing).



Size	D	L	G	COD.	Maximal tightening torque (Nm)
2 a 16	43	24	M-33x1,5	004 99 01 02 03	80
2 a 20	50	28	M-42x2	004 99 01 02 04	110
4 a 25	60	30	M-48x2	004 99 01 02 05	140
4 a 32	72	33,5	M-60x2,5	004 99 01 02 06	180
6 a 40	85	37	M-68x2,5	004 99 01 02 07	240
8 a 50	100	43	M-80x2,5	004 99 01 02 08	330

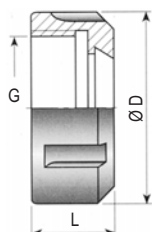
Product outside of our present production program. Price subject to availability.





004 99 01 03 ..

DIN 6499 (ER Type) CLAMPING nut (balanced).

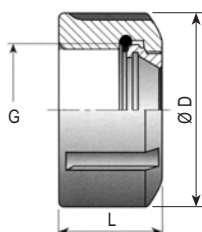


Size	D	L	G	COD.	Maximal tightening torque (Nm)
ER 20	35	19	M-25x1,5	004 99 01 03 04	100
ER 25	42	20	M-32x1,5	004 99 01 03 05	140
ER 32	50	22	M-40x1,5	004 99 01 03 06	180
ER 40	63	25	M-50x1,5	004 99 01 03 07	240
ER 50	78	35	M-64x2	004 99 01 03 08	330



004 99 01 04 ..

DIN 6499 (ER Type) CLAMPING nut (friction bearing).



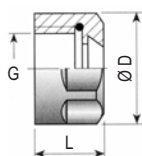
Size	D	L	G	COD.	Maximal tightening torque (Nm)
ER 25	42	22,5	M-32x1,5	004 99 01 04 05	140
ER 32	50	25	M-40x1,5	004 99 01 04 06	180
ER 40	63	28	M-50x1,5	004 99 01 04 07	240
ER 50	78	40	M-64x2	004 99 01 04 08 ⚠	330

⚠ Product outside of our present production program. Price subject to availability.



004 99 01 04 03

DIN 6499 (ER Type) CLAMPING nut (friction bearing).

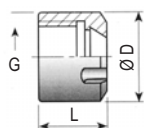


Size	D	L	G	COD.	Maximal tightening torque (Nm)
ER 16	28	20	M-22x1,5	004 99 01 04 03	80

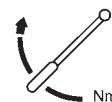


004 99 01 06 ..

DIN 6499 (ER Type) MINI CLAMPING nut (balanced).

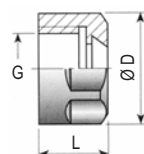


Size	D	L	G	COD.	Maximal tightening torque (Nm)
ER 8	12	11	M-10x0,75	004 99 01 06 01	6
ER 11	16	12	M-13x0,75	004 99 01 06 02	25
ER 16	22	18	M-19x1	004 99 01 06 03	35



004 99 01 08 ..

DIN 6499 (ER Type) CLAMPING nut (balanced).



Size	D	L	G	COD.	Maximal tightening torque (Nm)
ER 11*	19	12	M-14x0,75	004 99 01 08 02	32
ER 16	28	17,5	M-22x1,5	004 99 01 08 03	80

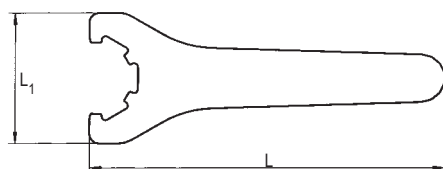
* Not balanced



004 99 04 03 ..

DIN 6499

Wrench for DIN 6499 (ER Type) clamping nut.



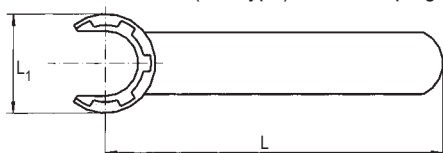
Size	L	L ₁	COD.	Maximal tightening torque (Nm)
ER 16	160	50	004 99 04 03 03	80
ER 20	180	55	004 99 04 03 04	100
ER 25	210	65	004 99 04 03 05	140
ER 32	250	75	004 99 04 03 06	180
ER 40	290	90	004 99 04 03 07	240
ER 50	350	110	004 99 04 03 08	330



004 99 04 05 ..

DIN 6499

Wrench for DIN 6499 (ER Type) MINI clamping nut.



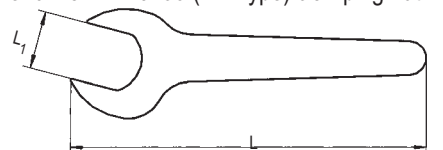
Size	L	L ₁	COD.	Maximal tightening torque (Nm)
ER 8	70	12,5	004 99 04 05 01	6
ER 11	90	16,5	004 99 04 05 02	25
ER 16	110	22,5	004 99 04 05 03	35



004 99 04 06 ..

DIN 6499

Wrench for DIN 6499 (ER Type) clamping nut.



Size	L	L ₁	COD.	Maximal tightening torque (Nm)
ER 16	110	25	004 99 04 06 25	80



004 99 04 09 ..

DIN 1810 Form A

Wrench for DIN 6388 clamping nut.



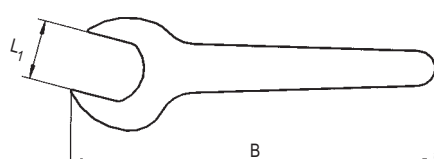
Cap.	L	D	COD.	Maximal tightening torque (Nm)
6	100	18	004 99 04 09 03	40
10	120	30	004 99 04 09 06	60
16	180	43	004 99 04 09 08	80
20	180	50	004 99 04 09 09	110
Great-power 20	180	54	004 99 04 09 10	110
25	210	60	004 99 04 09 11	140
32	210	72	004 99 04 09 12	180
Great-power 32	210	72	004 99 04 09 12	180
40	240	85	004 99 04 09 13	240
50	240	100	004 99 04 09 14	330

⚠ Product outside of our present production program. Price subject to availability.

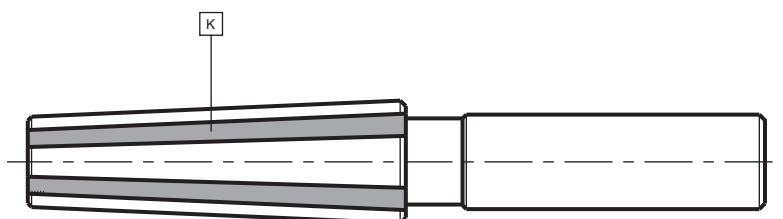
020 99 01 01 ..

DIN 894

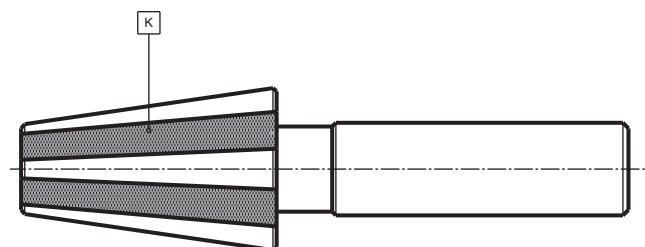
Wrench for Modular tooling.



D modular	L	L ₁	COD.
14,5	130	13	020 99 01 01 01
18,5	160	17	020 99 01 01 02
ER 11	160	17	020 99 01 01 02
23	170	19	020 99 01 01 03
29	215	24	020 99 01 01 04
36	275	32	020 99 01 01 05
46	345	41	020 99 01 01 06
63	460	55	020 99 01 01 07
90	610	75	020 99 01 01 08

020 01 01 ...**MORSE TAPER WIPERS**

K	COD.
M2	020 01 01 01 03
M3	020 01 01 01 04
M4	020 01 01 01 05
M5	020 01 01 01 06

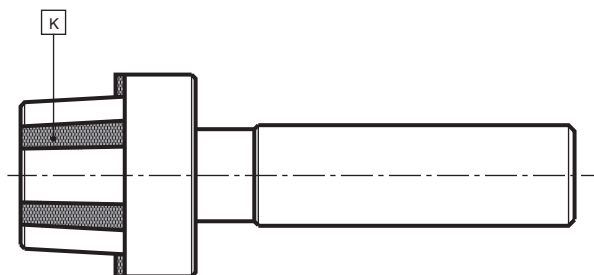
020 05 01 ...**ISO TAPER WIPERS**

K	COD.
30	020 05 01 01 01
40	020 05 01 01 02
45	020 05 01 01 03
50	020 05 01 01 04

⚠ Product outside of our present production program.
Price subject to availability.

020 14 01 ...**HSK TAPER WIPERS**

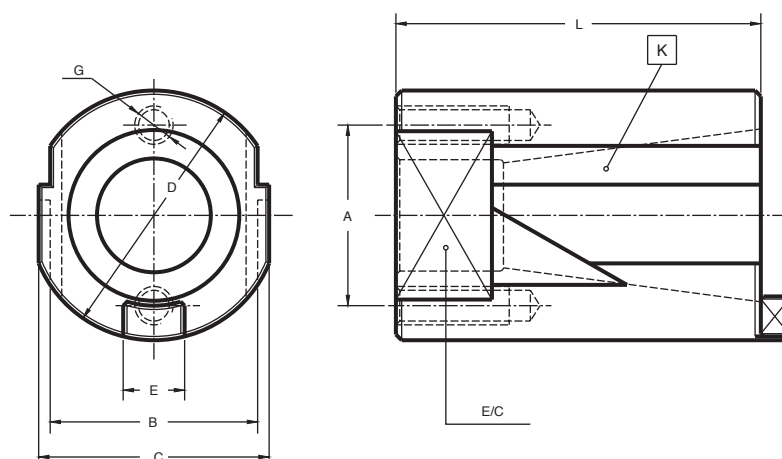
Form A, B, C, D, E, F



Form A, C, E	Form B, D, F	COD.
HSK- 25	HSK- 32	020 14 01 01 00
HSK- 32	HSK- 40	020 14 01 01 01
HSK- 40	HSK- 50	020 14 01 01 02
HSK- 50	HSK- 63	020 14 01 01 03
HSK- 63	HSK- 80	020 14 01 01 04
HSK- 80	HSK-100	020 14 01 01 05
HSK-100	HSK-125	020 14 01 01 06
HSK-125	HSK-160	020 14 01 01 07

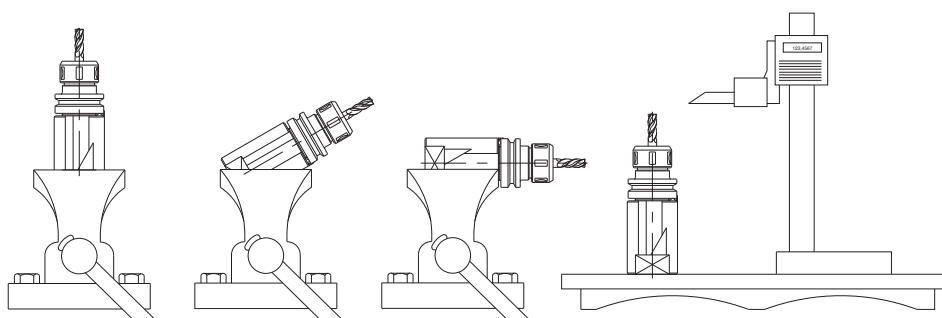
020 99 02 01 ..**CLAMPING DEVICE**

For DIN 2080, DIN 69871 and MAS-403-BT tools

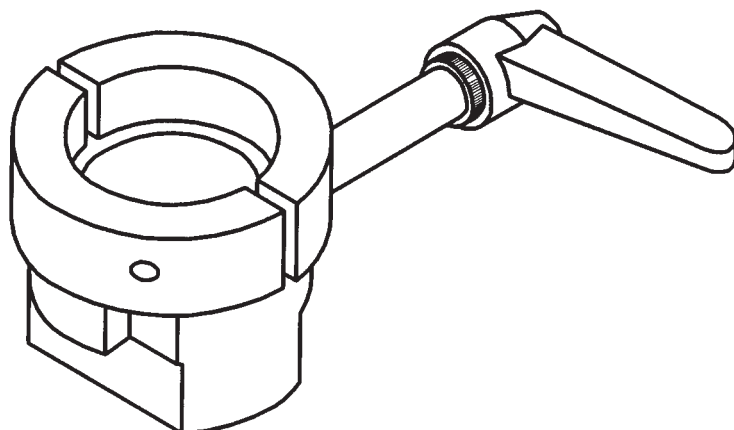


K	E/C	A	G	B	C	D	L	E	COD.
30	30	36	M-8	38	47	52	74	15,88	020 99 02 01 01
40	48	47	M-10	54	60	65	97	15,88	020 99 02 01 02
45	50	60	M-10	60	75	85	110	19,05	020 99 02 01 03
50	75	75	M-10	85	95	100	130	25,40	020 99 02 01 04

Product outside of our present production program. Price subject to availability.

**020 99 02 14 ..****CLAMPING DEVICE**

For DIN 69893-HSK tools

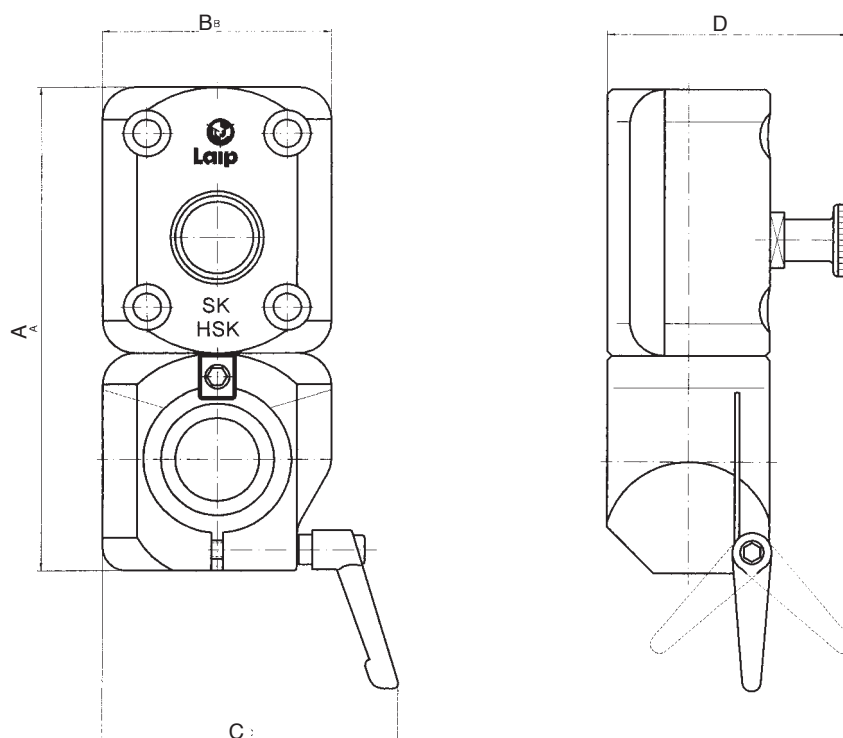


HSK	COD.
25	020 99 02 14 00
32	020 99 02 14 01
40	020 99 02 14 02
50	020 99 02 14 03
63	020 99 02 14 04
80	020 99 02 14 05
100	020 99 02 14 06

020 99 02 02 ..

UNIVERSAL SUPPORT

For DIN 2080, DIN 69871, MAS-403-BT, DIN 69893-HSK and KM



K	A	B	C	D	COD.
HSK - 63					
KM-63 (KENNAMETAL)	209	98	140	100	020 99 02 02 02
SK - 40					
HSK - 100	265	124	180	134	020 99 02 02 04
SK - 50					

* 4 positions: every 90° degrees

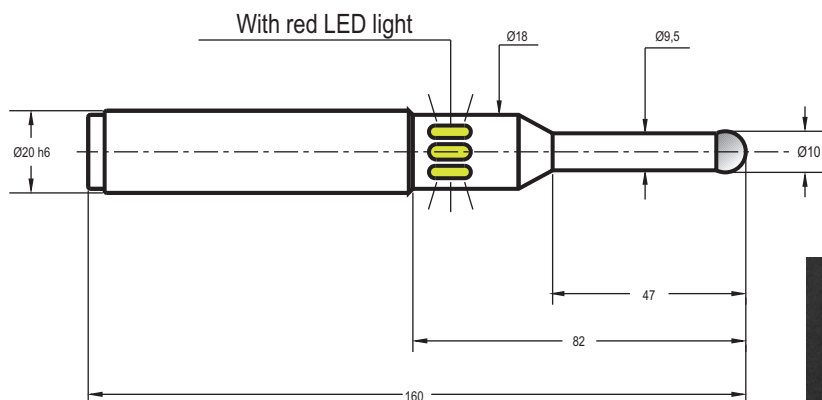


020 99 99 01 01
05

ELECTRONIC TOUCH POINT SENSOR



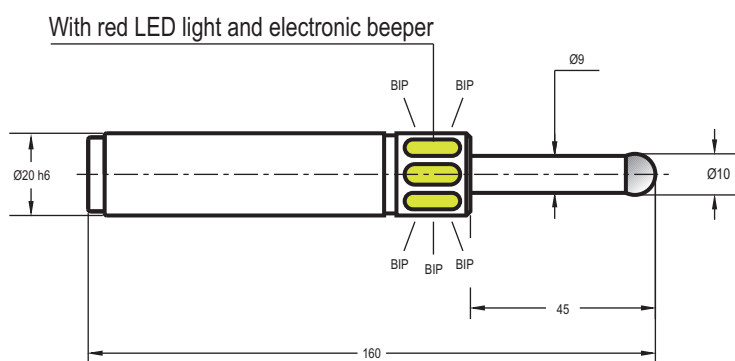
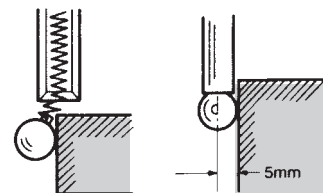
Accuracy
 $\pm 0,002$ mm



Spare:
two-electric cell: 1,5 V - R1

COD.: 020 99 99 01 01
WEIGHT: 0,200

Product outside of our present production program.
Price subject to availability.



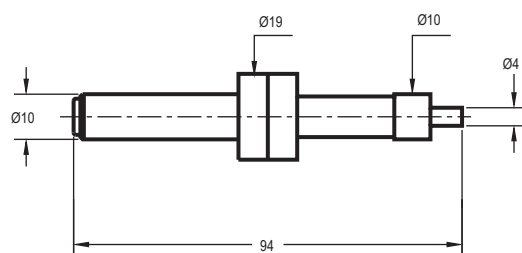
Spare:
two-electric cell: 1,5 V - R1

COD.: 020 99 99 01 05
WEIGHT: 0,180

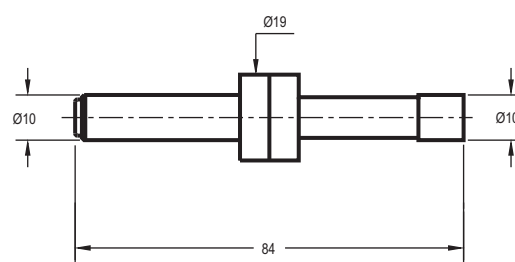


020 99 99 01 07
08

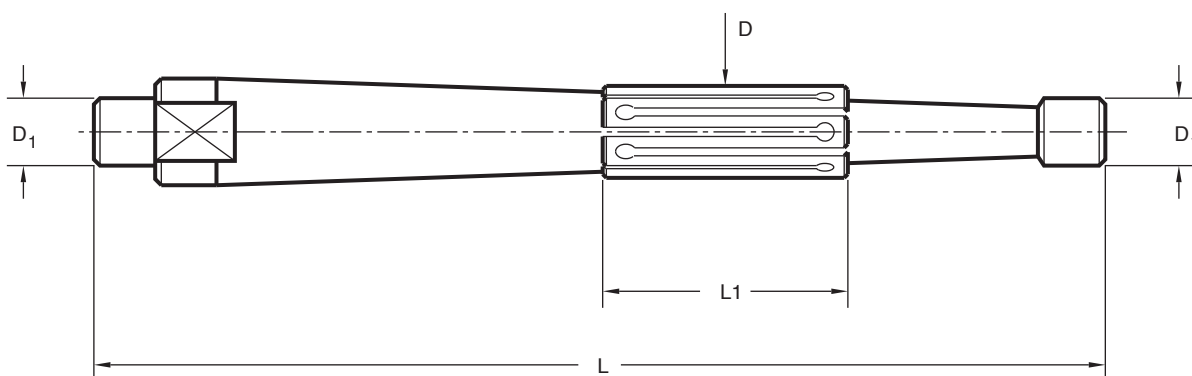
FLOATING PRECISION CENTERING DEVICE



COD.: 020 99 99 01 07
WEIGHT: 0,060



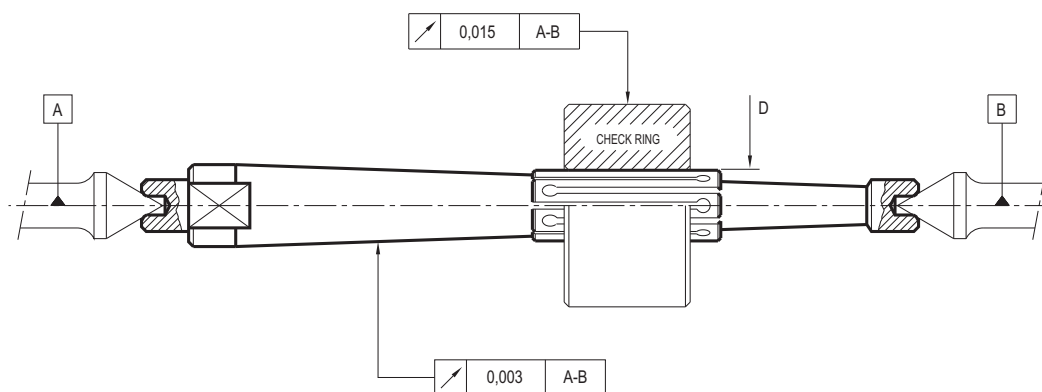
COD.: 020 99 99 01 08
WEIGHT: 0,060



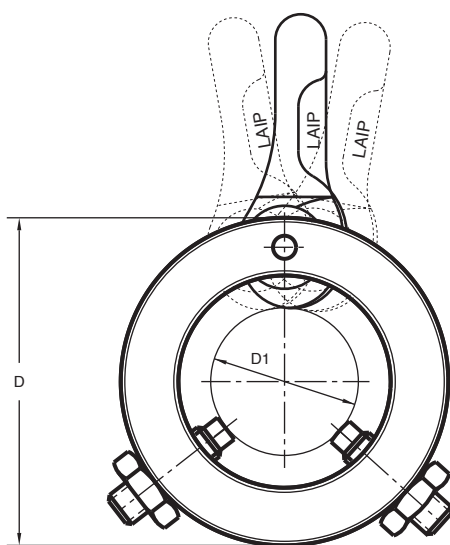
D	L	D ₁ h6	L ₁	COD.		
(*) 13-19	165	11	40	007 52 01 01 01	007 52 01 01 01 99	007 99 01 01 01
(*) 19-25	196	13	60	007 52 01 01 02	007 52 01 01 02 99	007 99 01 01 02
(*) 25-33	257	17	90	007 52 01 01 03	007 52 01 01 03 99	007 99 01 01 03
(*) 33-42	297	23	110	007 52 01 01 04	007 52 01 01 04 99	007 99 01 01 04
(*) 42-52	338	30	130	007 52 01 01 05	007 52 01 01 05 99	007 99 01 01 05
(*) 52-65	392	38	150	007 52 01 01 06	007 52 01 01 06 99	007 99 01 01 06
(*) 65-78	392	38	150	007 52 01 01 07	007 52 01 01 06 99	007 99 01 01 07
78-90	392	38	150	007 52 01 01 08	007 52 01 01 06 99	007 99 01 01 08
90-102	402	47	150	007 52 01 01 09	007 52 01 01 09 99	007 99 01 01 09
102-115	402	47	150	007 52 01 01 10	007 52 01 01 09 99	007 99 01 01 10
115-128	402	47	150	007 52 01 01 11	007 52 01 01 09 99	007 99 01 01 11

⚠ Product outside of our present production program. Price subject to availability.

(*) Delivery: single wood box.

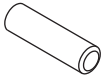


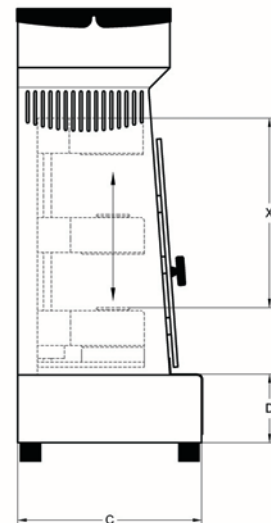
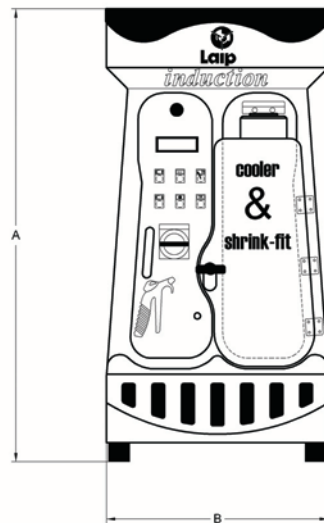
008 00 01 CAM ACTION DOGS



D ₁ mí n.	D ₁ máx.	D	A	COD.
8	20	50	12,5	008 00 01 01 02 ▼
18	30	61	14,5	008 00 01 01 03 ▼
28	40	71	14,5	008 00 01 01 04 ▼
38	50	81	14,5	008 00 01 01 05 ▼
48	60	91	16,5	008 00 01 01 06 ▼
58	70	101	20,5	008 00 01 01 07 ▼
68	80	111	20,5	008 00 01 01 08 ▼

▼ Product outside of our present production program. Price subject to availability.

COD.							
008 00 01 01 02	301 04 05 01 20	301 01 06 06 30	301 02 02 06 10	351 08 00 00 01	351 08 00 00 02		
008 00 01 01 03	301 04 05 01 40	301 01 06 08 30	301 02 02 08 12				
008 00 01 01 04							
008 00 01 01 05							
008 00 01 01 06	301 04 05 01 60						
008 00 01 01 07	301 04 05 02 00	301 01 06 10 30	301 02 02 10 15				
008 00 01 01 08							



(A)	(B)	(C)	(D)	X Course aprox.	COD.	Power supply	Power	Weight
1025	525	52 5	160	500	012 81 01 01 01	* 3 AC 400/16A	11KW	100

Specifications

- Induction shrink fit device with high frequency inductor.
- Time for heating < 6 seconds.
- Time for cooling 20, 30 or 40 seconds. With fluid and 60 or 120 seconds with air.
- Tool diameter Ø3 to Ø32.
- For all type of tools: HHS, Cermet Carbide with h4/H6.
- Tolerance and toolholders: HSK, DIN 69871, MAS-BT, etc...
- For any size of toolholder (ref. HSK-50/63, SK-30/40, BT-35/40...)

Especially designed for DIN 69882-8 shrink fit toolholders

Design

- Compact unit containing electronic device, high frequency inductor and cooling system.
- Heating and cooling integrated.
- Automatic cooling by means of the turbulent air fluid.
- Just one induction coil for any tool diameter 3 to 32 mm.
- Vertical movement of the inductor by pneumatic cylinder and pressure control device.

Parts supplied

Induction shrink fit device

Complete inductive-shrink fit until:

- Just one induction coil for any tool diameter Ø3 to Ø32 mm.
- Electronic device integrated.
- Cooling unit integrated.

Flange adapters

According to client needs, one of the following:

- BT-30 y HSK-32/40 (cod. 0129981010100).
- BT-35/40, HSK-50/63 and DIN 69871-30/40 (cod. 0129981010500).
- BT-45/50, (HSK-80/100) and DIN 69871-45/50 (cod. 0129981010500).

Tool adapters

Complete set containing:

- Tool adapter for Ø6-8-10-12 (cod. 0129981010303)
- Tool adapter for Ø14-16-18-20 (cod. 0129981010305)
- Tool adapter for Ø25-32 (cod. 0129981010306)
- On request tool adapters Ø 3-4-5 and toolholders not in accordance with DIN 69882-8 standard.

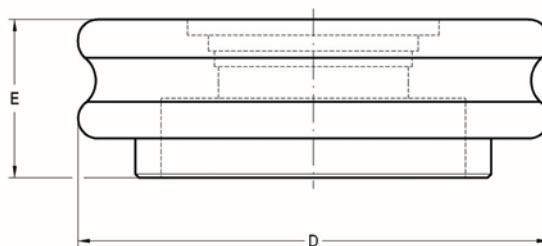
Concentrated coolant and lubricant (1000 ml) (cod. 01299810601)

Operating instructions and display in English.

OPTIONAL: Kit of hose and air gun. (cod. 01299810501)

012 99 81 01 ..

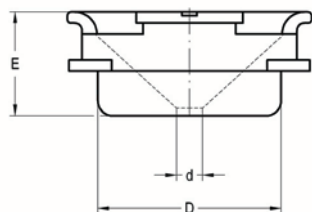
Flange adapter.



DIN 69893 Form A, C, E	DIN 69893 Form B, D, F	DIN 69871 / SK	JIS B 6339 BT	D	E	COD.
HSK-25				40	10	012 99 81 01 00
HSK-32/40	HSK-40/50		BT-30	120	40	012 99 81 01 01
HSK-50/63	HSK-63/80	SK-30/40	BT-35/40	120	40	012 99 81 01 03
HSK-80/100	HSK-100/125	SK-45/50	BT-45/50	120	40	012 99 81 01 05

012 99 81 03 ..

Flange adapter.



Tool Ø	D	d	E	COD
6-8-10-12	49	14	28	012 99 81 03 03 (1)
14-15-18-20	49	22	22	012 99 81 03 05 (1)
25-32	49	34	18	012 99 81 03 06*
3-4-5	49	7	28	012 99 81 03 01*
6-8	49	10	28	012 99 81 03 02*
14-16	49	18	22	012 99 81 03 04*

Adapters for DIN 69882- TOOLHOLDERS

* Adapters for fine geometry toolholders

012 99 81 05 01

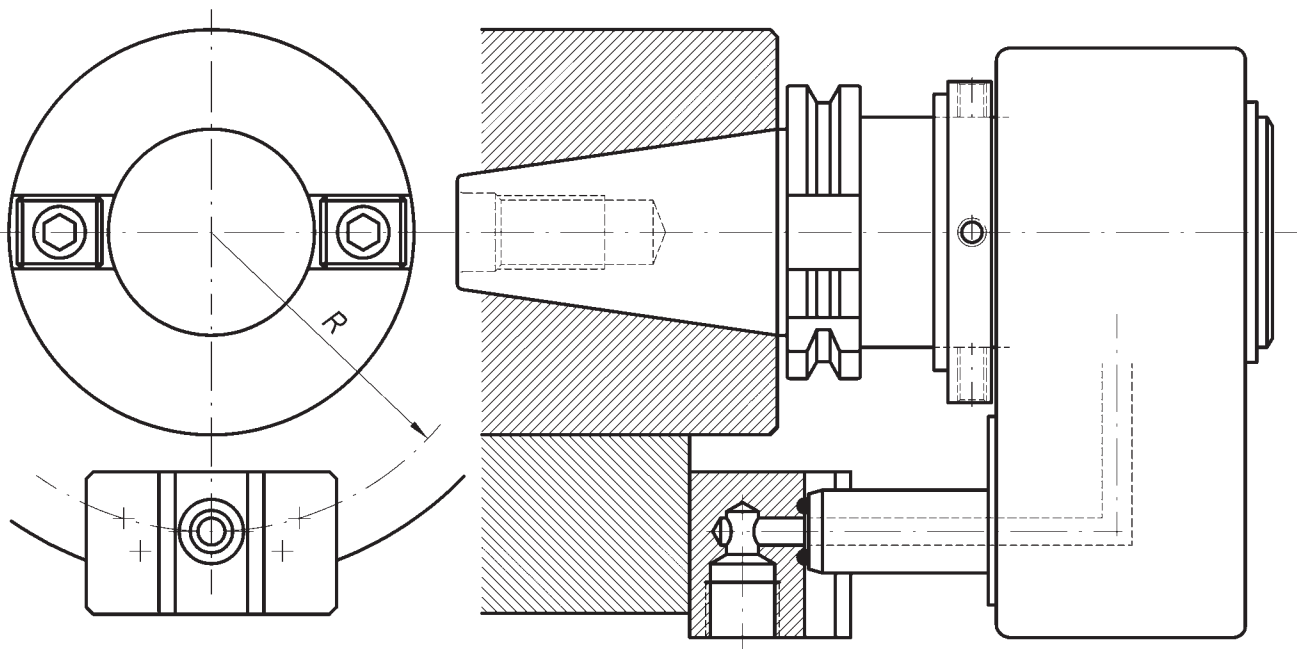
Kit of hose and air gun



012 99 81 06 01 02

Concentrated coolant and lubricant



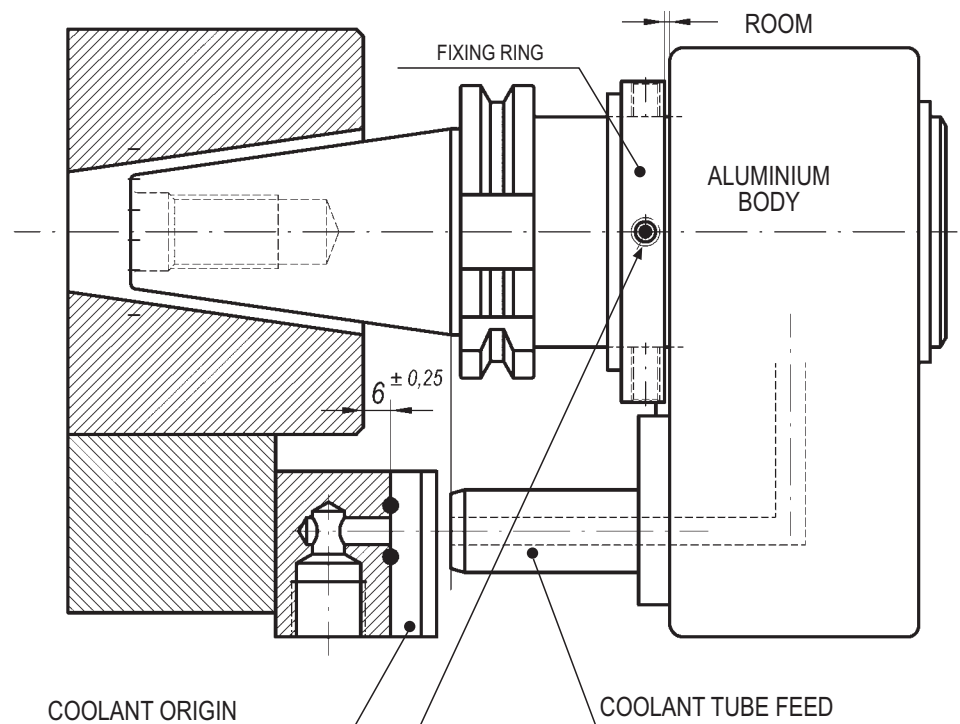


TAPER R

40	65
45	80
50	80

SPECIFICATIONS

R.P.M. (max.):..... 6.000
 Max. coolant
 pressure:..... 20 bar
 Min. coolant
 pressure:..... 2 bar



IMPORTANT



1. NEVER started without coolant.
2. Space between COOLANT TUBE CONTACT and MACHINE NOSE should be at least 6 mm.
 Otherwise coolant tube length should be adapted.

- WHEN COOLANT ORIGIN AND COOLANT TUBE ARE FIXED TOGETHER, TIGHT THE FOUR BOLTS OF THE FIXING RING TO MAKE SURE RIGHT ANGULAR TUBE POSITION.
- **FIXING RING SHOULD NOT TOUCH ALUMINIUM BODY.**

SPECIAL PULL STUDS



Date:

Company:

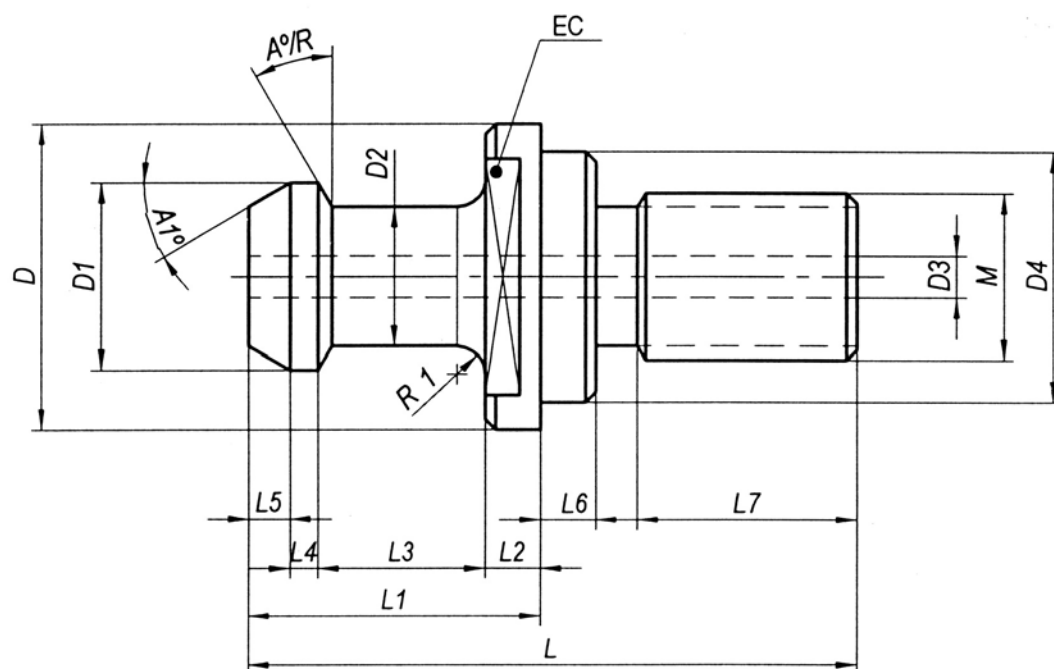
Telephone N°:

Fax:

Person of contact:

E-mail:

Quantity:



L	L1	L2	L3	L4	L5	L6	L7	R1
D	D1	D2	D3	D4	EC	M	A°/R	A1°



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NOTES

