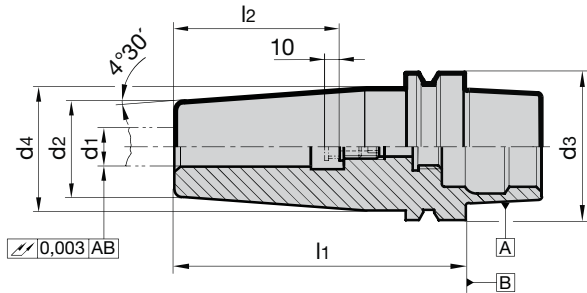


Product information

- balancing quality G2.5 / 25,000 rev./min or U < 1 gmm
- for tool shank tolerance h6
- HSK-E to ISO 12164-1 / DIN 69893-5 with access hole

Scope of delivery

- incl. setting screw, Series no. 4977 or 4904
- for conventional cooling order coolant supply set, Series no. 4949, separately
- special dimensions on request



Series no. **4737**

HSK-E d ₃	for shank Ø d ₁ h ₆ mm	d ₂ mm	d ₄ mm	l ₁ mm	l ₂ mm	incl. setting screw Guh. no. Code no.	kg	Code no.	EDP Number
32	3	10	16	60	–	–	0.16	3.032	9047370030320
32	4	10	16	60	–	–	0.16	4.032	9047370040320
32	5	10	16	60	–	–	0.16	5.032	9047370050320
32	6	21	26	70	36	9049770060140	0.18	6.032	9047370060320
32	8	21	26	70	36	9049770080140	0.20	8.032	9047370080320
32	10	24	29	75	41	9049770100140	0.25	10.032	9047370100320
32	12	24	29	80	46	9049770120140	0.25	12.032	9047370120320
40	3	10	19	80	–	–	0.28	3.040	9047370030400
40	4	10	19	80	–	–	0.28	4.040	9047370040400
40	5	10	19	80	–	–	0.27	5.040	9047370050400
40	6	21	27	80	36	9049770060140	0.41	6.040	9047370060400
40	8	21	27	80	36	9049770080140	0.41	8.040	9047370080400
40	10	24	32	80	41	9049770100140	0.48	10.040	9047370100400
40	12	24	32	90	46	9049770120140	0.52	12.040	9047370120400
40	14	27	34	90	46	9049770120140	0.57	14.040	9047370140400
40	16	27	34	90	49	9049770160140	0.55	16.040	9047370160400
50	3	10	18	80	30	9049040050160	0.49	3.050	9047370030500
50	4	10	18	80	35	9049040060160	0.49	4.050	9047370040500
50	5	10	18	80	–	–	0.49	5.050	9047370050500
50	6	21	27	80	36	9049770060140	0.59	6.050	9047370060500
50	8	21	27	80	36	9049770080140	0.58	8.050	9047370080500
50	10	24	32	85	41	9049770100140	0.57	10.050	9047370100500
50	12	24	32	90	46	9049770120140	0.69	12.050	9047370120500
50	14	27	34	90	46	9049770120140	0.74	14.050	9047370140500
50	16	27	34	95	49	9049770160140	0.75	16.050	9047370160500
50	18	33	42	95	49	9049770160140	0.92	18.050	9047370180500
50	20	33	42	100	51	9049770201140	0.94	20.050	9047370200500
63	6	21	27	80	36	9049770060140	0.86	6.063	9047370060630
63	8	21	27	80	36	9049770080140	0.85	8.063	9047370080630
63	10	24	32	85	41	9049770100140	0.94	10.063	9047370100630
63	12	24	32	90	46	9049770120140	0.96	12.063	9047370120630
63	14	27	34	90	46	9049770120140	1.01	14.063	9047370140630
63	16	27	34	95	49	9049770160140	1.02	16.063	9047370160630
63	18	33	42	95	49	9049770160140	1.19	18.063	9047370180630
63	20	33	42	100	51	9049770201140	1.21	20.063	9047370200630
63	25	44	53	115	57	9049770201140	1.80	25.063	9047370250630
63	32	44	53	120	61	9049770201140	1.73	32.063	9047370320630

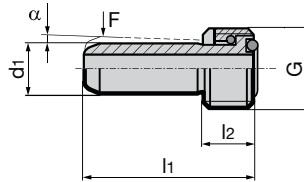
Coolant supply sets for conventional cooling

Product information

- leak-proof screwed connection tested to 80 bar
- to DIN 69895
- F = angle movability $\pm 1^\circ$
- for HSK-A and HSK-E shanks

Scope of delivery

- incl. union nut and O-rings



Series no.

4949

for HSK-A	d ₁ mm	α°	F	G	l ₁ mm	l ₂ mm	EDP Number
32	6	1.2	5N	M10x1.0	26.0	5.5	9049490100320
40	8	1.4	5N	M12x1.0	29.5	7.5	9049490120400
50	10	1.3	6N	M16x1.0	33.0	9.5	9049490160500
63	12	1.3	6N	M18x1.0	36.5	11.5	9049490180630
80	14	1.4	7N	M20x1.5	40.0	13.5	9049490200800
100	16	1.4	7N	M24x1.5	44.0	15.5	9049490241000

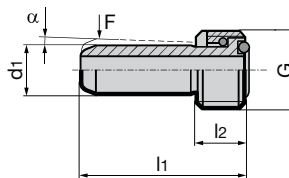
Coolant supply sets for conventional cooling with filter

Product information

- leak-proof screwed connection tested to 80 bar
- similar DIN 69895
- with filter for contamination-free cooling
- protects against tool breakage and eases error analysis
- F = angle movability $\pm 1^\circ$
- for HSK-A and HSK-E shanks

Scope of delivery

- incl. union nut and O-rings
- 100µ stainless steel fabric filter



Series no.

4979

for HSK-A	d ₁ mm	α°	F	G	l ₁ mm	l ₂ mm	EDP Number
32	6	1.2	5N	M10x1	26.0	5.5	9049790100320
40	8	1.4	5N	M12x1	29.5	7.5	9049790120400
50	10	1.3	6N	M16x1	33.0	9.5	9049790160500
63	12	1.3	6N	M18x1	36.5	11.5	9049790180630
80	14	1.4	7N	M20x1.5	40.0	13.5	9049790200800
100	16	1.4	7N	M24x1.5	44.0	15.5	9049790241000

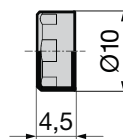
Data coding chip

Product information

- Identification systems BIS C
- for installation space to DIN 69 873
- data carrier read/write
- 511 bytes
- operating temperature 0...+70
- protection class to IEC
- product data exchange acc. to DIN 4000
- glued in bore Ø10 H11

Scope of delivery

- data coding chip
- installation in chuck and additional balancing can be ordered separately



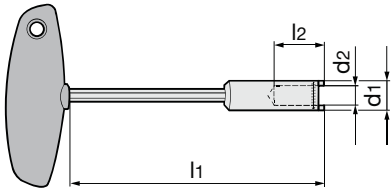
Series no.

4955

coding chip BIS C-122-04/L	EDP Number
10 x 4.5	9049550100000

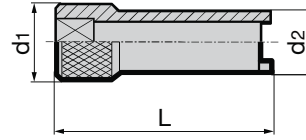
Product information

- with T-handle
- for coolant supply sets for conventional cooling and MQL coolant supply unit



Product information

- suitable for torque wrench
Series no. 4915, drive 3/8"
- for coolant supply sets



Series no. 4911

for HSK	d1 mm	d2 mm	l1 mm	l2 mm	EDP Number
32	11,0	6,1	128	23,0	9049110240000
40	13,0	8,1	134	26,0	9049110300000
50	15,0	10,1	134	28,0	9049110380000
63	17,0	12,1	135	31,5	9049110480000
80	20,0	14,1	138	32,0	9049110600000
100	22,5	16,1	138	35,0	9049110750000

Series no. 4910

for HSK	MA Nm	d1 mm	d2 mm	L mm	EDP Number
32	7	20	14	60	9049100240000
40	11	20	16	60	9049100300000
50	15	20	18	60	9049100380000
63	20	20	18	60	9049100480000
80	25	20	20	75	9049100600000
100	30	22	22	80	9049100750000

Installation of coolant supply sets 4949/4979

1. The HSK holder must be clean, free of swarf and undamaged.
2. Grease the O-rings prior to assembly.
3. Centrally insert the complete coolant supply set (coolant pipe, union nut and 2 O-rings) in the HSK with the assistance of the socket spanner.
4. Screw in the coolant supply set/coolant supply unit and tighten (see table for torque figures)
5. Check coolant pipe for radial mobility.

Torque figures

for HSK	MA Nm
32	7
40	11
50	15
63	20
80	25
100	30

