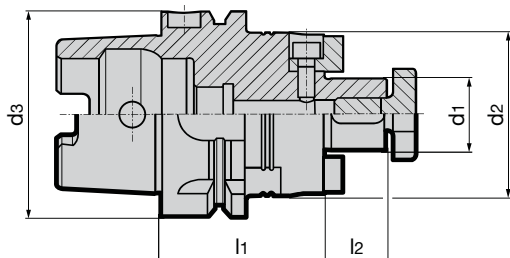


## Product information

- to hold shell mills DIN 841, arbor-type single angle cutters DIN 842 with keyway, shell mills DIN 1880 with keyway and milling cutters with inserts DIN 1830
- bore-Ø 40 and 50 mm has four additional holes with internal thread for milling heads with tool attachment DIN 2079
- HSK-A to ISO 12164-1/DIN 69893-1
- for central coolant supply

## Scope of delivery

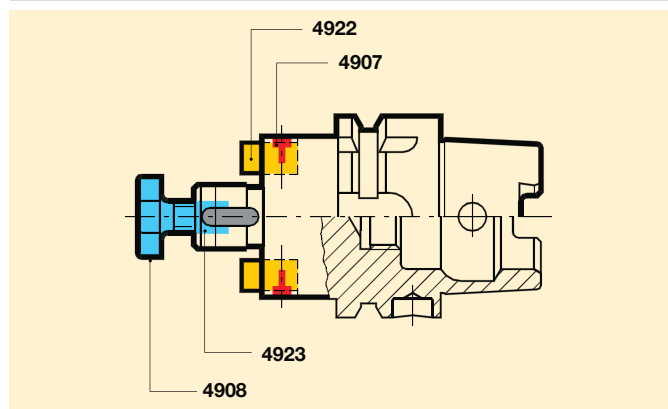
- completely assembled with milling cutter retaining screw, article no. 4908, drive dogs, article no. 4922 and feather key article no. 4923
- order coolant supply set article no. 4949 separately



							Series no.	4361
HSK-A d <sub>3</sub>	arbor-Ø d <sub>1</sub> h6 mm	d <sub>2</sub> mm	l <sub>1</sub> mm	l <sub>2</sub> mm	kg	Code no.	EDP Number	
32	16	40	45	17	0.27	16.032	9043610160320	
32	22	50	50	19	0.40	22.032	9043610220320	
40	16	40	45	17	0.40	16.040	9043610160400	
40	22	50	50	19	0.50	22.040	9043610220400	
50	16	40	45	17	0.60	16.050	9043610160500	
50	22	50	50	19	0.80	22.050	9043610220500	
50	27	60	55	21	1.00	27.050	9043610270500	
63	16	40	45	17	0.90	16.063	9043610160630	
63	22	50	50	19	1.00	22.063	9043610220630	
63	27	60	55	21	1.30	27.063	9043610270630	
63	32	78	55	24	1.60	32.063	9043610320630	
63	40	89	60	27	2.10	40.063	9043610400630	
80	16	40	45	17	2.10	16.080	9043610160800	
80	22	50	50	19	2.30	22.080	9043610220800	
80	27	60	55	21	2.50	27.080	9043610270800	
80	32	78	55	24	2.60	32.080	9043610320800	
80	40	89	60	27	3.40	40.080	9043610400800	
100	22	50	50	19	2.50	22.100	9043610221000	
100	27	60	55	21	2.80	27.100	9043610271000	
100	32	78	55	24	3.10	32.100	9043610321000	
100	40	89	60	27	3.70	40.100	9043610401000	
100	50	120	70	30	5.60	50.100	9043610501000	

Tool Holders

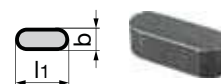
## Positioning of accessories



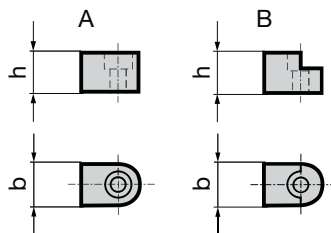
## Feather keys DIN 6885 A

### Scope of delivery

- minimum order quantity 10

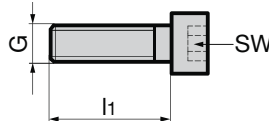


			Series no.	4923
for arbor-Ø mm	l <sub>1</sub> mm	b mm	EDP Number	
16	14	4	9049230040160	
22	16	6	9049230060220	
27	19	7	9049230070270	
32	22	8	9049230080320	
40	25	10	9049230100400	
50	28	12	9049230120500	



Scope of delivery

- minimum order quantity 10



Series no. 4922

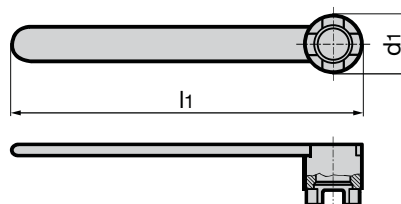
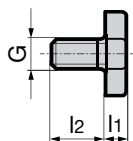
for arbor-Ø mm	Form	h mm	b mm	EDP Number
16	B	9.25	8	9049220160000
22	B	11.00	10	9049220220000
27	A	12.75	12	9049220270000
32	A	16.50	14	9049220320000
40	A	20.00	16	9049220400000
50	A	27.50	18	9049220500000

Series no. 4907

G	l <sub>1</sub> mm	SW	strength	EDP Number
M4	10	3	8.8	9049070041000
M5	12	4	8.8	9049070051200
M6	16	5	8.8	9049070061600
M6	20	5	8.8	9049070062000
M8	25	6	8.8	9049070082500
M12	65	10	10.9	9049070126500

Product information

- to DIN 6367
- on request with internal cooling



Tool holders

Series no. 4908

for arbor-Ø mm	G	l <sub>1</sub> mm	l <sub>2</sub> mm	torque Nm	EDP Number
16	M8	6	16	40	9049080160000
22	M10	7	18	60	9049080220000
27	M12	8	22	80	9049080270000
32	M16	9	26	95	9049080320000
40	M20	10	30	100	9049080400000
50	M24	12	36	135	9049080500000
60	M30	14	45	160	9049080600000

Series no. 4909

for arbor-Ø mm	d <sub>1</sub> mm	l <sub>1</sub> mm	EDP Number
16	22	180	9049090160000
22	28	200	9049090220000
27	35	225	9049090270000
32	42	250	9049090320000
40	52	280	9049090400000
50	63	315	9049090500000
60	76	355	9049090600000

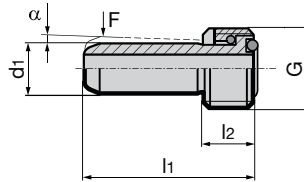
## Coolant supply sets for conventional cooling

### 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 <sub>1</sub> mm	α°	F	G	l <sub>1</sub> mm	l <sub>2</sub> 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

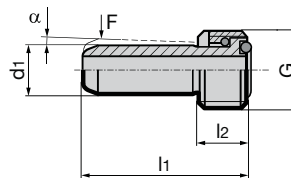
## Coolant supply sets for conventional cooling with filter

### 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 <sub>1</sub> mm	α°	F	G	l <sub>1</sub> mm	l <sub>2</sub> 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

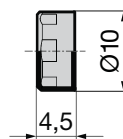
## Data coding chip

### 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



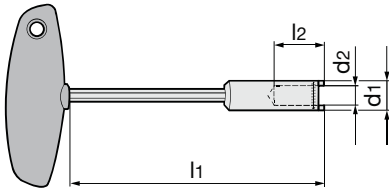
Series no.

4955

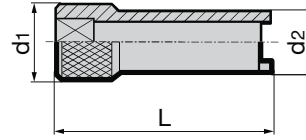
coding chip BIS C-122-04/L	EDP Number
10 x 4.5	9049550100000

**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

