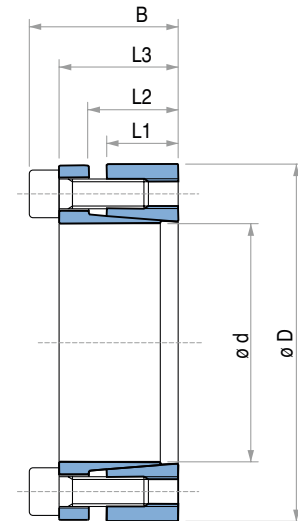


**TLK 139 DIMENSIONS**

Dimensions					Torque	Axial force		Surface pressures on		Tightening screws		Weight
								Shaft	Hub	DIN912 12.9	Tightening torque	
d x D mm	L1 mm	L2 mm	L3 mm	B mm	M <sub>t</sub> Nm	F <sub>ax</sub> KN	P <sub>w</sub> N/mm <sup>2</sup>	P <sub>n</sub> N/mm <sup>2</sup>	N° x Type	M <sub>s</sub> Nm	Kg	
18 x 40	12	15	20	24	210	23,7	233	131	6 x M4	5	0,2	
19 x 41	12	15	20	24	220	23,7	221	128	6 x M4	5	0,2	
20 x 42	12	15	20	24	270	27,7	245	146	7 x M4	5	0,2	
22 x 44	12	15	20	24	300	27,7	223	139	7 x M4	5	0,2	
24 x 46	12	15	20	24	330	27,7	204	133	7 x M4	5	0,2	
25 x 47	12	15	20	24	340	27,7	196	130	7 x M4	5	0,2	
28 x 50	12	15	20	24	500	35,6	225	157	9 x M4	5	0,2	
30 x 52	12	15	20	24	530	35,6	210	151	9 x M4	5	0,2	
32 x 54	12	15	20	24	570	35,6	197	146	9 x M4	5	0,2	
35 x 57	16	19	24	28	690	39,5	158	115	10 x M4	5	0,3	
36 x 58	16	19	24	28	710	39,5	153	113	10 x M4	5	0,3	
38 x 60	16	19	24	28	830	43,5	160	120	11 x M4	5	0,3	
40 x 62	16	19	24	28	870	43,5	152	116	11 x M4	5	0,4	
42 x 70	19	23	30	36	1530	73,0	200	146	8 x M6	17	0,6	
45 x 73	19	23	30	36	1640	73,0	187	140	8 x M6	17	0,6	
48 x 76	19	23	30	36	1750	73,0	175	134	8 x M6	17	0,6	
50 x 78	19	23	30	36	1820	73,0	168	131	8 x M6	17	0,6	
55 x 83	19	23	30	36	2000	73,0	153	123	8 x M6	17	0,7	
56 x 84	19	23	30	36	2040	73,0	150	121	8 x M6	17	0,7	
60 x 88	19	23	30	36	2460	82,1	158	130	9 x M6	17	0,7	
63 x 91	19	23	30	36	2580	82,1	150	126	9 x M6	17	0,9	
65 x 93	19	23	30	36	2660	82,1	146	123	9 x M6	17	1,0	
70 x 105	23	28	37	45	4720	134,8	183	148	8 x M8	41	1,5	
75 x 110	23	28	37	45	5050	134,8	170	141	8 x M8	41	1,5	
80 x 115	23	28	37	45	5390	134,8	160	135	8 x M8	41	1,7	
85 x 120	23	28	37	45	5730	134,8	150	130	8 x M8	41	2,0	
90 x 125	23	28	37	45	7580	168,5	177	156	10 x M8	41	2,3	


**Characteristics**

- Medium-low torque
- Limited installation time
- Application economically advantageous

**Installation**

Carefully clean the hub and shaft contact surfaces and apply a light oil film. Slide the locking assembly into the hub bore, insert the shaft and tighten gradually and regularly in crossed sequence all screws to reach the tightening torque  $M_s$  as indicated in the table.

The values  $M_t$  and  $F_{ax}$  indicated in the table are valid only in case of oil installation. Do not use any oil with **molibdenum bisulphide** or high pressure additives and not grease. Above substances notably reduce the friction coefficient.

**Dismantling**

Loosen the clamping screws. Insert the screws into the dismantling threading and tighten gradually and regularly in crossed sequence till the back cone is released. If the element is to be reused, relubricate both screws and threads.

**Tolerances, surface finish**

A good surface finish by the machine tool is sufficient. Maximum allowable surface finish:  
Rt max 16  $\mu\text{m}$  (Ra 3  $\mu\text{m}$  - Rz 13  $\mu\text{m}$ )

Maximum permissible tolerances:

**h8** for shaft  
**H8** for hub

**Axial movement**

TLK 139: during screws tightening the hub has a slight axial movement with respect to the shaft.

**DM hub calculation**

The pressure  $P_n$  in the hub can be compared to the inside pressure on a thick hollow cylinder.

For DM calculation see page 46.