

### Characteristics

- Very high torques
- Capacity to withstand bending moments
- Even pressures distribution
- No shaft-hub axial movement

### Installation

Carefully clean the hub and shaft contact surfaces and apply a light oil film. Slide the locking assembly into the hub bore and insert the shaft. Tighten gradually and regularly in crossed sequence all screws up to 50% of the  $M_s$  value indicated in the table. Repeat the same operation by tightening all screws at the  $M_s$  torque indicated in the table.

Starting from the last tightened screw, check, in continuous sequence, that all the screws are tightened at the tightening torque  $M_s$  indicated. Repeat this procedure maximum twice. After this control any further operation is needed. Do not use any oil with **molybdenum 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 threads of the front cone and tighten them gradually in crossed sequence up to 50% of the  $M_s$  value indicated in the table. Repeat the same operation by tightening the screws at the tightening torque  $M_s$  indicated in the table. When the front cone is loose, to release the rear cone, insert the screws in the middle ring, and repeat the same operation of the upper ring.

### 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**

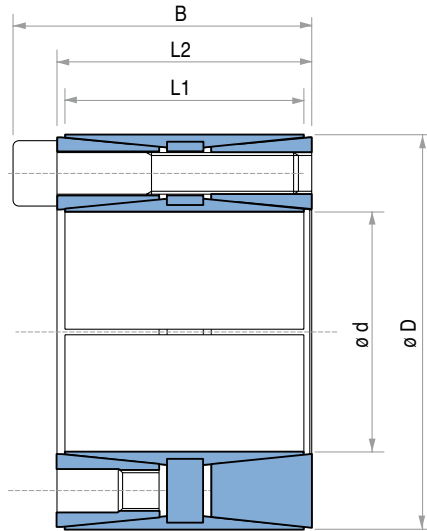
### Axial movement

**During screws tightening the hub has no axial movement with respect to the shaft.**

### DM hub calculation

For DM calculation see page 46.

# TLK 401 TLK 401.0



## TLK 401 - TLK 401.0 DIMENSIONS

Dimensions				Tightening screws DIN912 12.9	TLK 401					TLK 401.0					Weight TLK 401 TLK 401.0
					Tightening torque	Torque	Axial force	Surface pressures on		Tightening torque	Torque	Axial force	Surface pressures on		
d x D mm	L1 mm	L2 mm	B mm	N° x Type	M <sub>s</sub> Nm	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>	M <sub>s</sub> Nm	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>	Kg
70 x 110	50	58	68	8 x M10	49	5100	145	112	71	83	8620	245	190	120	2,3
75 x 115	50	58	68	8 x M10	49	5420	145	103	68	83	9160	245	174	115	2,4
80 x 120	50	58	68	8 x M10	49	5820	145	97	65	83	9840	245	164	110	2,5
85 x 125	50	58	68	10 x M10	49	7700	182	114	77	83	13000	307	193	130	2,6
90 x 130	50	58	68	10 x M10	49	8100	182	107	74	83	13700	307	181	125	2,7
95 x 135	50	58	68	10 x M10	49	8600	182	102	72	83	14540	307	173	122	2,8
100 x 145	60	70	80	10 x M10	49	9100	182	80	55	83	15380	307	135	93	4,0
110 x 155	60	70	80	10 x M10	49	10000	182	75	52	83	16900	307	127	88	4,5
120 x 165	60	70	80	12 x M10	49	13100	218	80	59	83	22150	365	135	100	4,8
130 x 180	68	80	92	12 x M12	86	20700	319	95	69	145	34860	537	160	116	6,3
140 x 190	68	80	92	12 x M12	86	22300	319	89	66	145	37550	537	150	111	6,6
150 x 200	68	80	92	12 x M12	86	23900	319	83	62	145	40250	537	140	105	7,0
160 x 210	68	80	92	14 x M12	86	29800	372	90	69	145	50180	626	152	116	7,4
170 x 225	75	87	99	16 x M12	86	36200	426	89	67	145	60960	717	150	113	10,0
180 x 235	75	87	99	16 x M12	86	38300	426	84	64	145	64500	717	142	108	11,3
190 x 250	88	100	112	18 x M12	86	45500	479	76	58	145	76620	806	128	98	14,0
200 x 260	88	100	112	18 x M12	86	47900	479	72	56	145	80660	806	122	95	15,2
220 x 285	98	110	124	14 x M14	135	56200	511	63	49	230	94730	861	107	83	19,5
240 x 305	98	110	124	18 x M14	135	78800	657	74	58	230	132830	1100	125	98	21,5
260 x 325	98	110	124	20 x M14	135	94900	730	76	61	230	159970	1230	128	103	23,0
280 x 355	120	132	148	20 x M16	210	142000	1015	80	63	355	239260	1710	135	106	29,0
300 x 375	120	132	148	24 x M16	210	182000	1218	89	72	355	306650	2050	150	121	30,5
320 x 405	135	147	163	24 x M16	210	194000	1218	75	60	355	326870	2050	127	101	47,0
340 x 425	135	147	163	24 x M16	210	207000	1218	71	57	355	348780	2050	120	96	50,0

For larger diameter or inch series please contact us.