

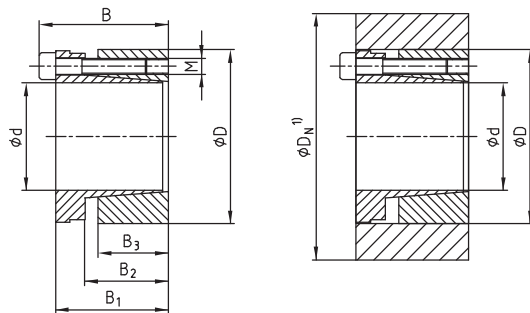
CLAMPEX® Shaft-hub-connection

Self-centering

KTR 200 - KTR 201

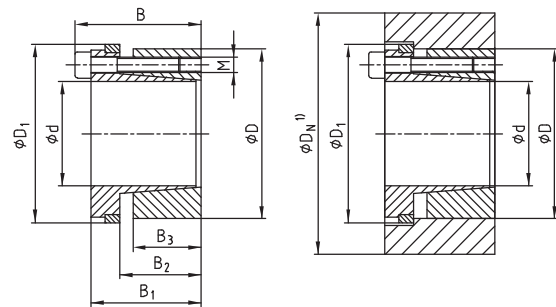


KTR 200



Considerably higher transmittable torque than KTR 201, slight axial movement of the hub

KTR 201



No axial movement of the hub, but lower transmittable torque than KTR 200

1) Dimension D_N : For calculation see page 270/271.

Assembly

Clean and lightly oil the contact surfaces of shaft and hub. Insert the clamping element into the hub fit and push it onto the shaft. Tighten the clamping screws crosswise, evenly and by degrees to the tightening torque T_A mentioned by means of the torque wrench. Check the tightening torque of all clamping screws in the order of arrangement. The figures T and F_{ax} mentioned in the table were calculated for an assembly with oil.

Note: Do not use any oil with molybdenum sulphide or high-pressure additions or grease reducing the coefficient of friction considerably. The clamping sets are delivered with oil. For assembly without oil the figures mentioned in the table deviate.

Disassembly

Unscrew the clamping screws. Screw the screws into the pull-off thread, tighten them crosswise by degrees and evenly until the rear taper ring is released. For repeated application oil the screws and threads.

Tolerances, surfaces

One accurate turning process is sufficient:
 $R_z \leq 16 \mu\text{m}$

Maximum permissible tolerances:
h8 for the shaft - H8 for the hub

Centering

The clamping elements KTR 200 and KTR 201 are **self-centering**. Between shaft and hub the concentricity of the clamping set is between **0,02** and **0,04** mm.

Order form:

KTR 200	40	x	65
Type	Size of inside diameter		Size of outside diameter

CLAMPEX® Shaft-hub-connection

Technical data

KTR 200 - KTR 201



Dimensions [mm]						Clamping screws DIN EN ISO 4762, 12.9 $\mu_{total} = 0,14$				KTR 200				KTR 201				Weight -kg	KTR 200	KTR 201
						M	z Number	KTR 200 $T_A^{(1)}$ [Nm]	KTR 201 $T_A^{(1)}$ [Nm]	Transmittable torque or axial force		Surface pressure between clamping set		Transmittable torque or axial force		Surface pressure between clamping set				
										T [Nm]	F_{ax} [kN]	Shaft P_W [N/mm ²]	Hub P_N [N/mm ²]	T [Nm]	F_{ax} [kN]	Shaft P_W [N/mm ²]	Hub P_N [N/mm ²]			
d x D	B	B ₁	B ₂	B ₃	D ₁															
20 x 47	48	42	31	26	53	M6	6	17	17	513	51	291	124	332	33	178	76	0,42	●	●
22 x 47	48	42	31	26	53	M6	6	17	17	564	51	264	124	366	33	162	76	0,39	●	●
24 x 50	48	42	31	26	56	M6	6	17	17	616	51	242	116	399	33	149	71	0,43	●	●
25 x 50	48	42	31	26	56	M6	6	17	17	641	51	233	116	415	33	143	71	0,42	●	●
28 x 55	48	42	31	26	61	M6	6	17	17	718	51	208	106	465	33	127	65	0,51	●	●
30 x 55	48	42	31	26	61	M6	6	17	17	769	51	194	106	499	33	119	65	0,48	●	●
32 x 60	48	42	31	26	66	M6	8	17	17	1094	68	242	129	709	44	149	79	0,57	●	●
35 x 60	48	42	31	26	66	M6	8	17	17	1197	68	222	129	776	44	136	79	0,54	●	●
38 x 65	48	42	31	26	71	M6	8	17	17	1299	68	204	119	842	44	125	73	0,63	●	●
40 x 65	48	42	31	26	71	M6	8	17	17	1368	68	194	119	886	44	119	73	0,58	●	●
42 x 75	59	51	35	30	81	M8	6	41	41	1990	95	222	124	1290	61	136	76	1,02	●	●
45 x 75	59	51	35	30	81	M8	6	41	41	2132	95	207	124	1382	61	127	76	0,99	●	●
48 x 80	59	51	35	30	86	M8	8	41	41	3033	126	259	155	1965	82	159	95	1,10	●	●
50 x 80	59	51	35	30	86	M8	8	41	41	3159	126	248	155	2047	82	152	95	1,08	●	●
55 x 85	59	51	35	30	91	M8	8	41	41	3475	126	226	146	2252	82	139	90	1,16	●	●
60 x 90	59	51	35	30	96	M8	8	41	41	3791	126	207	138	2456	82	127	85	1,24	●	●
65 x 95	59	51	35	30	101	M8	8	41	41	4107	126	191	131	2661	82	117	80	1,33	●	●
70 x 110	70	60	45	40	119	M10	8	83	83	7023	201	211	134	4550	130	130	83	2,29	●	●
75 x 115	70	60	45	40	124	M10	8	83	83	7524	201	197	129	4875	130	121	79	2,41	●	●
80 x 120	70	60	45	40	129	M10	8	83	83	8026	201	185	123	5200	130	113	76	2,56	●	●
85 x 125	70	60	45	40	134	M10	10	83	83	10659	251	217	148	6907	163	133	91	2,67	●	●
90 x 130	70	60	45	40	139	M10	10	83	83	11286	251	205	142	7313	163	126	87	2,80	●	●
95 x 135	66	56	45	40	142	M10	10	83	83	11373	239	186	131	7501	158	116	82	2,93	●	●
100 x 145	80	68	52	45	155	M12	8	145	145	14607	292	191	132	9465	189	117	81	4,10	●	●
110 x 155	80	68	52	45	165	M12	8	145	145	16068	292	174	123	10411	189	107	76	4,40	●	●
120 x 165	80	68	52	45	175	M12	10	145	145	21910	365	199	145	14197	237	122	89	4,72	●	●
130 x 180	80	68	52	45	188	M12	12	145	145	28483	438	221	159	18456	284	136	98	5,74	●	●
140 x 190	90	76	58	50	199	M14	10	210	230	32023	457	193	142	22726	325	130	95	6,92	●	●
150 x 200	90	76	58	50	209	M14	12	210	230	41173	549	216	162	29219	390	145	109	7,24	●	●
160 x 210	90	76	58	50	219	M14	12	210	230	43918	549	202	154	31167	390	136	104	7,76	●	●
170 x 225	90	76	58	50	234	M14	14	210	230	54440	640	222	168	38634	455	149	113	8,98	●	●
180 x 235	90	76	58	50	244	M14	14	210	230	57642	640	210	161	40907	455	141	108	9,50	●	●

● Clamping sets available from stock.

1) These are the maximum screw tightening torques. They can be reduced to max. 40% of the aforementioned figures with T, F_{ax} , P_W and P_N being reduced proportionally.

CLAMPEX
KTR Precision
joints