

Cone Clamping Elements RLK 132

centres the hub to the shaft
short axial width

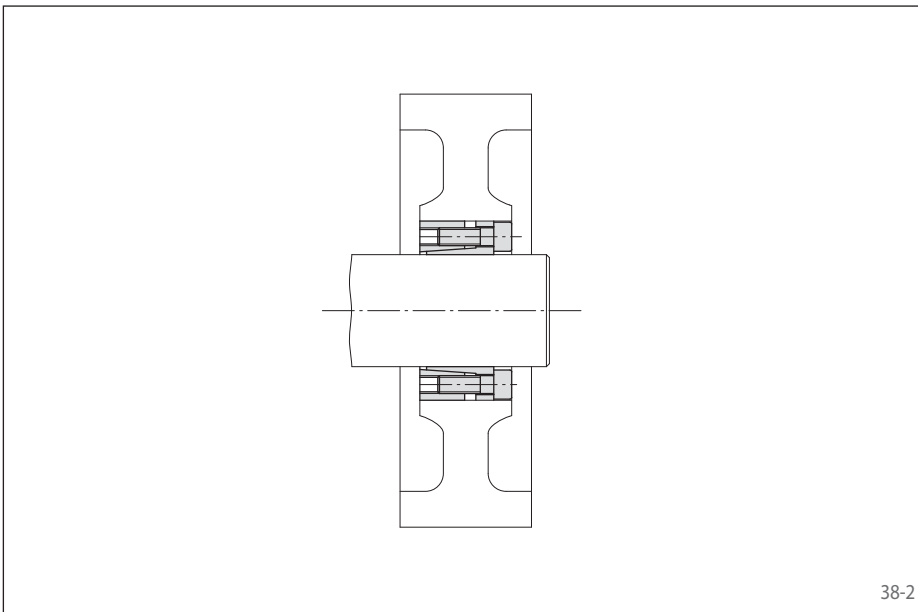
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Features

- Centres the shaft to the hub
- High transmissible torques
- Short axial width
- For shaft diameters between 20 mm and 200 mm



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Application example

Backlash free connection of a belt pulley to the drive shaft with a Cone Clamping Element RLK 132. The Cone Clamping Element also centres the pulley to the shaft. The compact Cone Clamping Element is a cost-efficient solution especially for applications with low space requirements.

Transmissible torques and axial forces

The transmissible torques or axial forces listed on the following page are subject to the following tolerances, surface characteristics and material requirements. Please contact us in the case of deviations.

Tolerances

- h8 for shaft diameter d
- H8 for hub bore D

Surfaces

Average surface roughness at the contact surfaces between the shaft and the hub bore:
 $R_z = 10 \dots 25 \mu\text{m}$.

Materials

The following apply to the shaft and the hub:

- E-module $\geq 170 \text{ kN/mm}^2$

Installation

Please request our installation and operating instructions for Cone Clamping Elements RLK 132.

Simultaneous transmission of torque and axial force

The transmissible torques M which are shown in the tables apply for axial forces $F = 0 \text{ kN}$ and conversely, the indicated axial forces F apply to torques $M = 0 \text{ Nm}$. If torque and axial force are to be transmitted simultaneously, the transmissible torque and the transmissible axial force are reduced. Please refer to the technical points on pages 62 and 63.

Example for ordering

Cone Clamping Element RLK 132 for shaft diameter $d = 100 \text{ mm}$:

- RLK 132, size 100 x 145
Article number 4204-100201-000000

Kontakt:

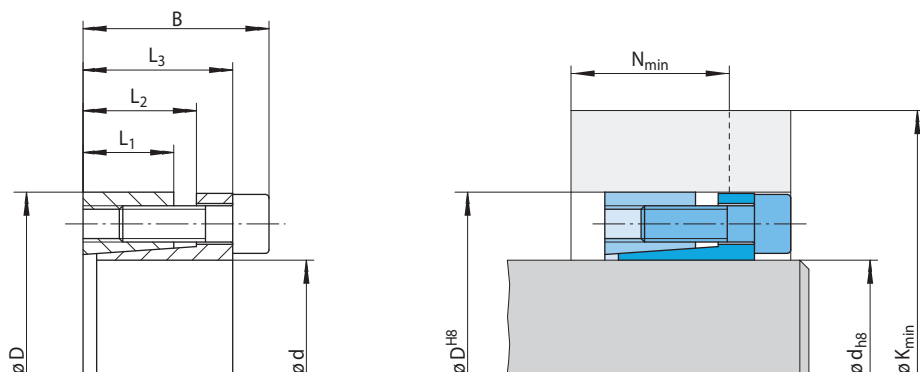
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Dimensions														Technical Data										Article number	
Yield strength R _e of the hub material [N/mm ²]						Transmissible torque or axial force		Contact pressure at		Clamping screws				Weight											
										Tightening torque M _S Nm	Num- ber	Size	Length mm												
Size	200	320	500	M	F	Shaft	Hub																		
d	D	B	L ₁	L ₂	L ₃	K _{min}	N _{min}	K _{min}	N _{min}	K _{min}	N _{min}	Nm	kN	P _W	P _N	M _S				kg					
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm			N/mm ²	N/mm ²				mm						
20	47	34	17	22	28	92	40	75	31	65	26	460	46	413	176	14	6	M 6	20	0,3	4204-020201-000000				
22	47	34	17	22	28	92	40	75	31	65	26	500	46	375	176	14	6	M 6	20	0,3	4204-022201-000000				
24	50	34	17	22	28	93	39	77	31	67	26	550	46	344	165	14	6	M 6	20	0,3	4204-024201-000000				
25	50	34	17	22	28	93	39	77	31	67	26	570	46	330	165	14	6	M 6	20	0,3	4204-025201-000000				
28	55	34	17	22	28	96	38	81	30	72	26	640	46	295	150	14	6	M 6	20	0,3	4204-028201-000000				
30	55	34	17	22	28	96	38	81	30	72	26	690	46	275	150	14	6	M 6	20	0,3	4204-030201-000000				
32	60	34	17	22	28	112	43	93	34	82	28	980	62	344	184	14	8	M 6	20	0,4	4204-032201-000000				
35	60	34	17	22	28	112	43	93	34	82	28	1050	62	315	184	14	8	M 6	20	0,3	4204-035201-000000				
38	65	34	17	22	28	114	42	97	33	86	28	1150	62	290	169	14	8	M 6	20	0,4	4204-038201-000000				
40	65	34	17	22	28	114	42	97	33	86	28	1200	62	275	169	14	8	M 6	20	0,4	4204-040201-000000				
42	75	41	20	25	33	154	60	125	45	108	37	2050	100	357	200	30	8	M 8	25	0,6	4204-042201-000000				
45	75	41	20	25	33	154	60	125	45	108	37	2200	100	333	200	30	8	M 8	25	0,6	4204-045201-000000				
48	80	41	20	24	33	160	60	131	46	114	37	2500	106	333	200	32	8	M 8	25	0,7	4204-048201-000000				
50	80	41	20	24	33	160	60	131	46	114	37	2600	106	320	200	32	8	M 8	25	0,7	4204-050201-000000				
55	85	41	20	24	33	167	61	138	47	120	38	3100	113	309	200	34	8	M 8	25	0,7	4204-055201-000000				
60	90	41	20	24	33	172	61	143	47	126	38	3400	116	294	196	35	8	M 8	25	0,8	4204-060201-000000				
65	95	41	20	24	33	175	60	147	46	130	38	3700	116	271	186	35	8	M 8	25	0,8	4204-065201-000000				
70	110	50	24	29	40	211	75	175	57	154	46	6000	173	314	200	65	8	M 10	30	1,5	4204-070201-000000				
75	115	50	24	29	40	217	75	182	58	160	47	6700	181	307	200	68	8	M 10	30	1,6	4204-075201-000000				
80	120	50	24	29	40	223	76	187	58	166	47	7400	186	297	198	70	8	M 10	30	1,7	4204-080201-000000				
85	125	50	24	29	40	231	77	195	59	172	48	8300	196	294	200	59	10	M 10	30	1,8	4204-085201-000000				
90	130	50	24	29	40	238	77	200	59	178	48	9100	203	287	199	61	10	M 10	30	1,9	4204-090201-000000				
95	135	50	24	29	40	246	78	207	60	184	49	10100	213	284	200	64	10	M 10	30	2,0	4204-095201-000000				
100	145	56	26	31	44	263	85	223	65	198	53	12400	248	289	199	110	8	M 12	30	2,6	4204-100201-000000				
110	155	56	26	31	44	273	85	234	66	209	53	14000	259	275	195	115	8	M 12	30	2,8	4204-110201-000000				
120	165	56	26	31	44	290	87	248	68	222	55	17000	284	275	200	112	9	M 12	30	3,6	4204-120201-000000				
130	180	64	34	39	52	338	104	276	82	245	67	25000	389	267	193	115	12	M 12	30	4,4	4204-130201-000000				
140	190	68	34	39	54	341	106	287	83	257	68	28000	404	258	190	185	9	M 14	40	4,9	4204-140201-000000				
150	200	68	34	39	54	366	110	304	86	272	70	33500	449	267	200	185	10	M 14	40	5,2	4204-150201-000000				
160	210	68	34	39	54	380	111	317	88	284	71	37500	472	263	200	162	12	M 14	40	5,6	4204-160201-000000				
170	225	78	44	49	64	397	121	332	98	297	80	45500	539	219	165	185	12	M 14	40	6,9	4204-170201-000000				
180	235	78	44	49	64	402	120	340	97	307	80	48500	539	206	158	185	12	M 14	40	8,5	4204-180201-000000				
190	250	78	44	49	64	461	131	375	107	335	87	63500	674	245	186	185	15	M 14	40	9,0	4204-190201-000000				
200	260	78	44	49	64	465	129	383	106	344	86	67000	674	232	179	185	15	M 14	40	9,6	4204-200201-000000				