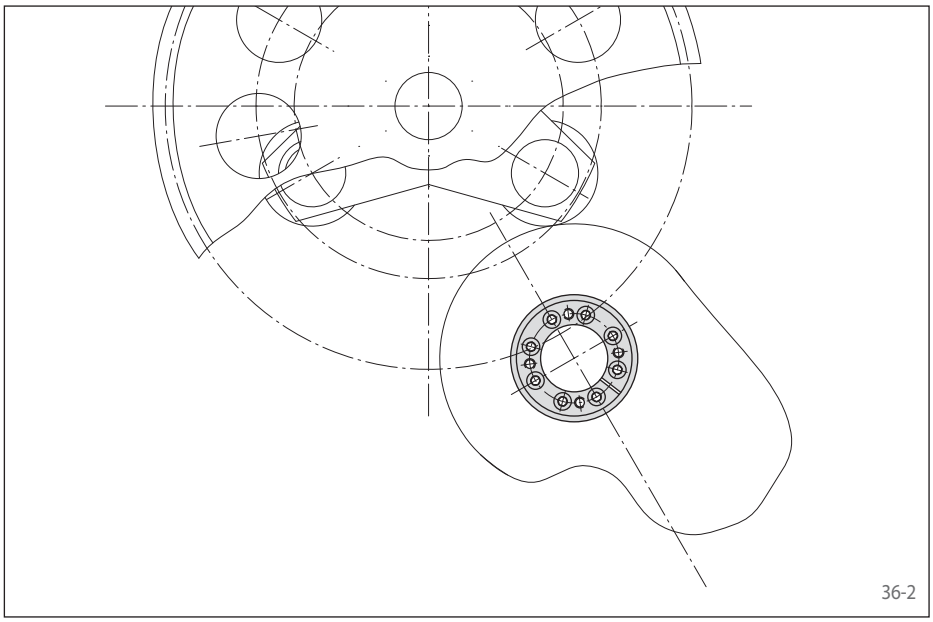
Cone Clamping Elements RLK 131

centres the hub to the shaft
no axial displacement

EDMAYR ANTRIEBSTECHNIK

Features

- Centres the shaft to the hub
- No axial displacement between hub and shaft during clamping procedure due to fixed backstop point
- For shaft diameters between 20 mm and 180 mm



Application example

Backlash free connection of a cam disc to the drive shaft in a stepping gear in the material feed mechanism of a paper processing machine with a Cone Clamping Element RLK 131.

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 … 25 µm.

Materials

The following apply to the shaft and the hub:

- E-module ≥ 170 kN/mm^2

Installation

Please request our installation and operating instructions for Cone Clamping Elements RLK 131.

Simultaneous transmission of torque and axial force

The transmissible torques M which are shown in the tables apply for axial forces F = 0 kN and conversely, the indicated axial forces F apply to torques M = 0 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 131 for shaft diameter d = 100 mm:

- RLK 131, size 100 x 145
  Article number 4204-100101-000000

Kontakt:
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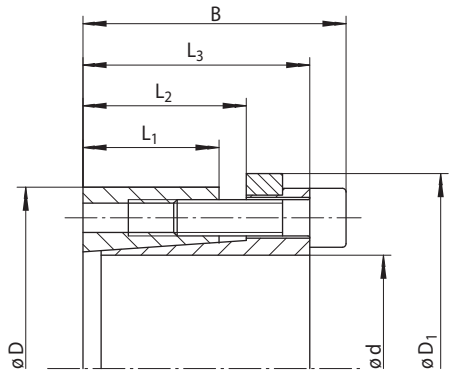

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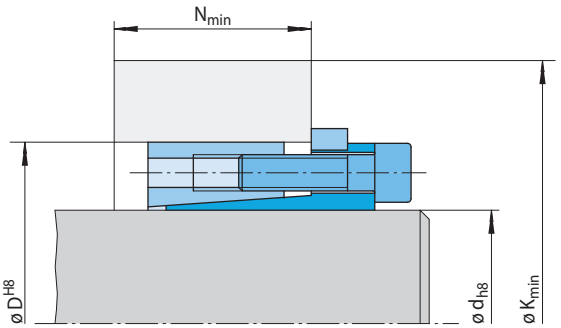

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Dimensions													Technical Data									Article number
							Yield strength R_e of the hub material [N/mm²]						Transmissible torque or axial force		Contact pressure at		Clamping screws				Weight	
Size							200		320		500				Shaft	Hub	Tightening torque	Number	Size	Length		
d	D	D_1	B	L_1	L_2	L_3	K_{min}	N_{min}	K_{min}	N_{min}	K_{min}	N_{min}	M	F	P_W	P_N	M_S					
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Nm	kN	N/mm²	N/mm²	Nm			mm	kg	
20	47	53	48	26	31	42	75	38	63	34	57	31	320	33	190	81	16	6	M 6	25	0,4	4204-020101-000000
22	47	53	48	26	31	42	75	38	63	34	57	31	350	33	172	81	16	6	M 6	25	0,4	4204-022101-000000
24	50	56	48	26	31	42	77	38	66	34	60	31	390	33	158	76	16	6	M 6	25	0,4	4204-024101-000000
25	50	56	48	26	31	42	77	38	66	34	60	31	400	33	152	76	16	6	M 6	25	0,4	4204-025101-000000
28	55	61	48	26	31	42	81	38	70	34	65	31	450	33	136	69	16	6	M 6	25	0,5	4204-028101-000000
30	55	61	48	26	31	42	81	38	70	34	65	31	480	33	126	69	16	6	M 6	25	0,5	4204-030101-000000
32	60	66	48	26	31	42	95	40	80	36	73	33	690	43	158	84	16	8	M 6	25	0,6	4204-032101-000000
35	60	66	48	26	31	42	95	40	80	36	73	33	760	43	145	84	16	8	M 6	25	0,5	4204-035101-000000
38	65	71	48	26	31	42	99	40	84	36	78	33	820	43	133	78	16	8	M 6	25	0,6	4204-038101-000000
40	65	71	48	26	31	42	99	40	84	36	78	33	860	43	126	78	16	8	M 6	25	0,6	4204-040101-000000
42	75	81	59	30	35	51	116	45	98	41	90	38	1150	57	137	76	37	6	M 8	30	1,1	4204-042101-000000
45	75	81	59	30	35	51	116	45	98	41	90	38	1250	57	127	76	37	6	M 8	30	1,1	4204-045101-000000
48	80	86	59	30	35	51	138	50	112	43	99	40	1800	76	159	96	37	8	M 8	30	1,1	4204-048101-000000
50	80	86	59	30	35	51	138	50	112	43	99	40	1850	76	153	96	37	8	M 8	30	1,1	4204-050101-000000
55	85	91	59	30	35	51	140	49	116	43	104	40	2050	76	139	90	37	8	M 8	30	1,2	4204-055101-000000
60	90	96	59	30	35	51	143	48	121	43	109	40	2250	76	127	85	37	8	M 8	30	1,3	4204-060101-000000
65	95	101	59	30	35	51	147	48	125	43	114	40	2450	76	118	80	37	8	M 8	30	1,3	4204-065101-000000
70	110	119	70	40	45	60	177	62	148	55	133	51	4100	119	130	83	73	8	M 10	30	2,4	4204-070101-000000
75	115	124	70	40	45	60	180	61	152	54	138	51	4400	119	122	79	73	8	M 10	30	2,6	4204-075101-000000
80	120	129	70	40	45	60	184	61	157	54	143	51	4700	119	114	76	73	8	M 10	30	2,7	4204-080101-000000
85	125	134	70	40	45	60	207	66	172	57	154	52	6300	149	134	91	73	10	M 10	30	2,8	4204-085101-000000
90	130	139	70	40	45	60	210	65	176	57	158	52	6700	149	127	88	73	10	M 10	30	3,0	4204-090101-000000
95	135	144	70	40	45	60	212	65	180	57	163	53	7000	149	120	85	73	10	M 10	30	3,2	4204-095101-000000
100	145	155	80	45	52	68	225	72	191	64	174	59	8700	175	118	81	126	8	M 12	35	4,1	4204-100101-000000
110	155	165	80	45	52	68	232	71	200	63	183	59	9600	175	107	76	126	8	M 12	35	4,4	4204-110101-000000
120	165	175	80	45	52	68	262	76	222	66	200	61	13000	218	123	89	126	10	M 12	35	4,7	4204-120101-000000
130	180	188	80	45	52	68	294	81	247	69	222	63	17000	262	136	98	126	12	M 12	35	5,7	4204-130101-000000
140	190	199	90	50	58	76	309	88	260	76	233	69	20500	300	130	96	201	10	M 14	40	6,9	4204-140101-000000
150	200	209	90	50	58	76	343	94	284	79	252	71	26500	360	146	109	201	12	M 14	40	7,2	4204-150101-000000
160	210	219	90	50	58	76	349	93	292	79	261	71	28500	360	137	104	201	12	M 14	40	7,8	4204-160101-000000
170	225	234	90	50	58	76	384	98	319	82	284	73	35500	420	150	113	201	14	M 14	40	8,9	4204-170101-000000
180	235	244	90	50	58	76	390	97	328	81	293	73	37500	420	142	108	201	14	M 14	40	9,5	4204-180101-000000