

Cone Clamping Elements RLK 350

centres the hub to the shaft
for small shaft diameters

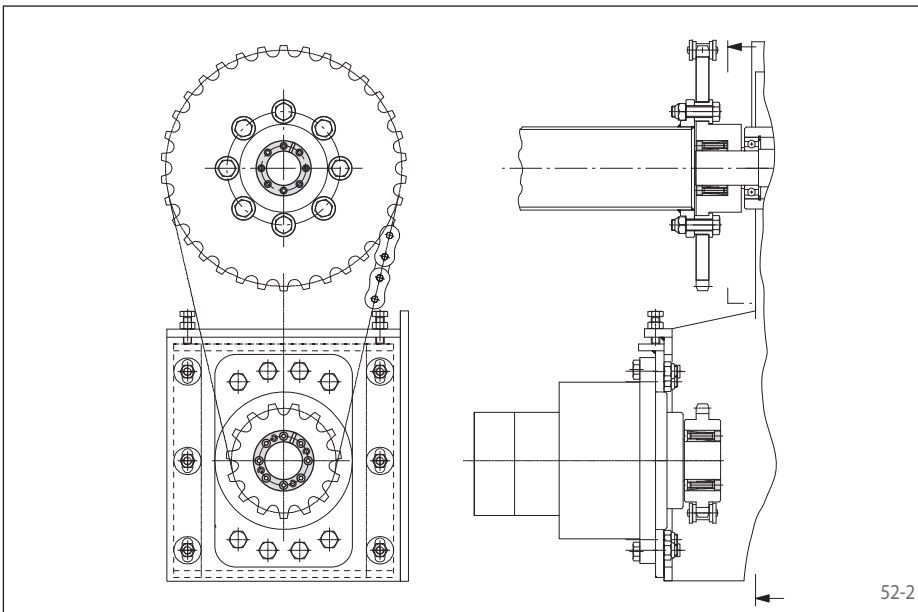
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52-1

Features

- Centres the hub to the shaft
- For shaft diameters between 5 mm and 50 mm



Application example

Backlash free connection of sprocket wheels to shafts in the drive of an industrial door with Cone Clamping Elements RLK 350. The Cone Clamping Elements centre the sprocket wheels on the shaft. The sprocket wheels can be easily aligned in axial and circumferential directions during assembly.

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

If the hub cannot be freely moved the values for M , F , P_W and P_N are reduced by 37%. $K_{\min}$ can be decreased. See the technical notes on page 63.

Please request our installation and operating instructions for Cone Clamping Elements RLK 350.

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

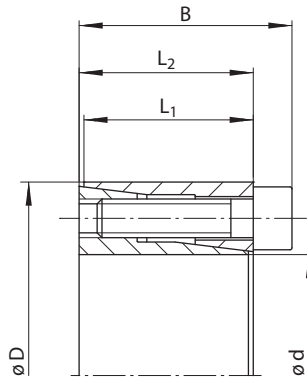
Cone Clamping Element RLK 350 for shaft diameter $d = 50 \text{ mm}$:

- RLK 350, size 50 x 80
Article number 4208-050001-000000

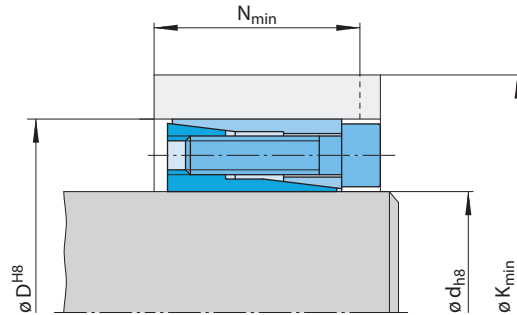
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53-1



53-2

Dimensions												Technical Data							Article number	
Size						Yield strength R_e of the hub material [N/mm ²]						Transmissible torque or axial force		Contact pressure at		Clamping screws			Weight kg	
d mm	D mm	B mm	L ₁ mm	L ₂ mm	200		320		500		M Nm	F kN	Shaft P_W N/mm ²	Hub P_N N/mm ²	Tightening torque M_S Nm	Num- ber	Size	Length mm		
5	16	13,5	10	11	22	14	20	13	19	12	6,5	2,6	166	52	1,0	3	M 2,5	10	0,010	4208-005001-000000
6	16	13,5	10	11	22	14	20	13	19	12	7,8	2,6	139	52	1,0	3	M 2,5	10	0,012	4208-006001-000000
6,35	16	13,5	10	11	22	14	20	13	19	12	8,2	2,6	131	52	1,0	3	M 2,5	10	0,012	4208-006002-000000
7	17	13,5	10,5	11	23	14	21	13	20	12	9,1	2,6	113	47	1,0	3	M 2,5	10	0,013	4208-007001-000000
8	18	13,5	10,5	11	24	14	22	13	21	12	10	2,6	99	44	1,0	3	M 2,5	10	0,015	4208-008001-000000
9	20	15,5	12,5	13	27	16	24	15	23	14	15	3,4	99	44	1,0	4	M 2,5	12	0,020	4208-009001-000000
9,53	20	15,5	12,5	13	28	17	25	15	23	14	19	4,0	112	53	1,2	4	M 2,5	12	0,019	4208-009002-000000
10	20	15,5	12,5	13	27	16	24	15	23	14	17	3,4	89	44	1,0	4	M 2,5	12	0,019	4208-010001-000000
11	22	15,5	12,5	13	28	16	26	15	25	14	19	3,4	81	40	1,0	4	M 2,5	12	0,024	4208-011001-000000
12	22	15,5	12,5	13	28	16	26	15	25	14	20	3,4	74	40	1,0	4	M 2,5	12	0,022	4208-012001-000000
14	26	20	16,5	17	33	20	31	19	29	18	36	5,2	69	37	1,8	4	M 3	16	0,039	4208-014001-000000
15	28	20	16,5	17	35	20	33	19	31	18	39	5,2	64	34	1,8	4	M 3	16	0,044	4208-015001-000000
16	32	21	16,5	17	44	23	40	21	37	19	75	9,4	107	53	4,5	4	M 4	16	0,067	4208-016001-000000
17	35	25	20,5	21	45	26	41	24	39	23	80	9,4	81	39	4,5	4	M 4	20	0,090	4208-017001-000000
18	35	25	20,5	21	45	26	41	24	39	23	84	9,4	76	39	4,5	4	M 4	20	0,087	4208-018001-000000
19	35	25	20,5	21	45	26	41	24	39	23	89	9,4	72	39	4,5	4	M 4	20	0,083	4208-019001-000000
20	38	26	20,5	21	54	29	48	26	44	24	150	15	114	60	9,0	4	M 5	20	0,100	4208-020001-000000
22	40	26	20,5	21	56	29	50	26	46	24	160	15	104	57	9,0	4	M 5	20	0,110	4208-022001-000000
24	47	32	25	26	65	34	58	31	54	29	260	22	113	58	16	4	M 6	25	0,200	4208-024001-000000
25	47	32	25	26	65	34	58	31	54	29	270	22	108	58	16	4	M 6	25	0,190	4208-025001-000000
28	50	32	25	26	77	39	67	34	61	31	460	34	145	81	16	6	M 6	25	0,180	4208-028001-000000
30	55	32	25	26	81	38	71	33	65	30	500	34	135	74	16	6	M 6	25	0,220	4208-030001-000000
32	55	32	25	26	81	38	71	33	65	30	530	34	127	74	16	6	M 6	25	0,270	4208-032001-000000
35	60	37	30	31	90	45	78	39	72	36	580	34	97	56	16	6	M 6	30	0,250	4208-035001-000000
38	65	37	30	31	94	44	83	39	77	36	840	45	119	69	16	8	M 6	30	0,360	4208-038001-000000
40	65	37	30	31	94	44	83	39	77	36	890	45	113	69	16	8	M 6	30	0,430	4208-040001-000000
45	75	44	35	36	109	52	96	46	89	42	1750	78	150	90	37	8	M 8	35	0,630	4208-045001-000000
50	80	44	35	36	127	56	108	49	98	44	1900	78	135	84	37	8	M 8	35	0,700	4208-050001-000000

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