

Cone Clamping Elements RLK 200

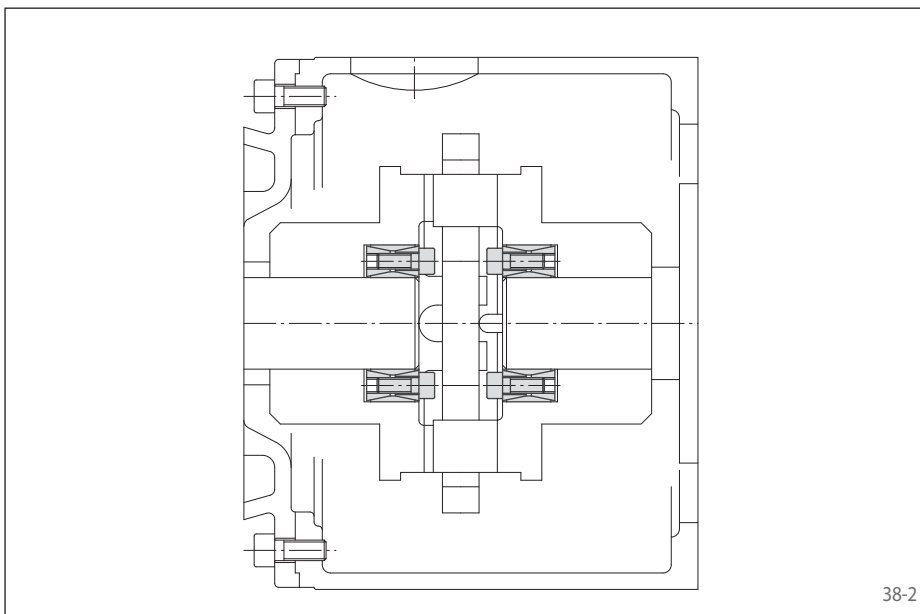
easy to release
compact design



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Features

- Easy to release
- Compact design
- No axial displacement between hub and shaft during clamping procedure
- Extended tolerances for hub and shaft
- For shaft diameters between 20 mm and 400 mm



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Application example

Backlash free connection of the two hubs of a Flexible Coupling L42 from RINGSPANN with a Cone Clamping Element RLK 200. The Flexible Coupling is situated in the lantern of a geared motor driving a roller conveyor.

Transmissible torques and axial forces

The transmissible torques or axial forces listed on page 39 are subject to the following tolerances, surface characteristics and material requirements. Please contact us in the case of deviations.

Tolerances

- h9 for shaft diameter d
- H9 for hub bore D

Surfaces

Average surface roughness at the contact surfaces between the shaft and the hub bore:
 $R_a \leq 3,2 \mu\text{m}$.

Materials

The following apply to the shaft and the hub:

- E-module ca. 170 kN/mm^2

Installation

Please request our installation and operating instructions for Cone Clamping Elements RLK 200.

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 54 and 55.

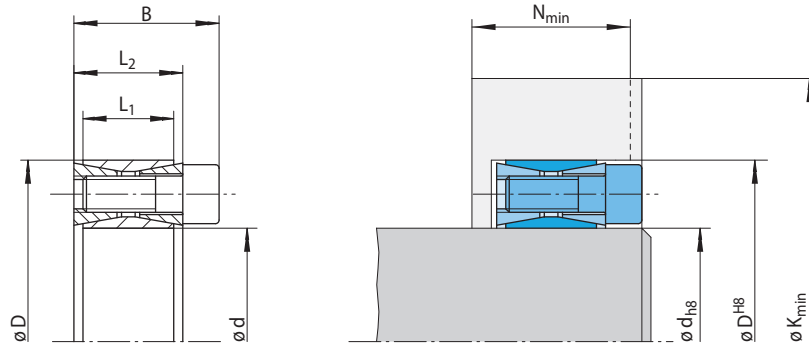
Example for ordering

Cone Clamping Element RLK 200 for shaft diameter $d = 100 \text{ mm}$:

- RLK 200, size 100 x 145
Article number 4201-100001-000000

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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					
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	Number	Size	Length mm	
20	47	26	17	20	77	32	66	27	59	23	273	27	240	102	16	8	M 6	18	0,2	4201-020001-000000
22	47	26	17	20	77	32	66	27	59	23	300	27	218	102	16	8	M 6	18	0,2	4201-022001-000000
24	50	26	17	20	79	32	68	26	62	23	330	28	200	96	16	8	M 6	18	0,3	4201-024001-000000
25	50	26	17	20	79	32	68	26	62	23	340	27	192	96	16	8	M 6	18	0,3	4201-025001-000000
28	55	26	17	20	99	37	81	30	72	26	570	41	257	131	16	12	M 6	18	0,3	4201-028001-000000
30	55	26	17	20	99	37	81	30	72	26	610	41	240	131	16	12	M 6	18	0,3	4201-030001-000000
32	60	26	17	20	101	36	85	30	77	26	660	41	225	120	16	12	M 6	18	0,3	4201-032001-000000
35	60	26	17	20	101	36	85	30	77	26	720	41	205	120	16	12	M 6	18	0,3	4201-035001-000000
38	65	26	17	20	117	39	95	32	85	27	970	51	236	138	16	15	M 6	18	0,4	4201-038001-000000
40	65	26	17	20	117	39	95	32	85	27	1000	50	225	138	16	15	M 6	18	0,4	4201-040001-000000
42	75	32	20	24	138	48	113	39	100	33	1580	75	264	148	38	12	M 8	22	0,6	4201-042001-000000
45	75	32	20	24	138	48	113	39	100	33	1700	76	246	148	38	12	M 8	22	0,5	4201-045001-000000
48	80	32	20	24	140	47	117	39	105	33	1800	75	231	139	38	12	M 8	22	0,6	4201-048001-000000
50	80	32	20	24	140	47	117	39	105	33	1890	76	222	139	38	12	M 8	22	0,6	4201-050001-000000
55	85	32	20	24	162	51	129	42	115	35	2600	95	252	163	38	15	M 8	22	0,6	4201-055001-000000
60	90	32	20	24	164	51	133	42	119	35	2800	93	231	154	38	15	M 8	22	0,7	4201-060001-000000
65	95	32	20	24	166	50	137	41	124	35	3050	94	213	146	38	15	M 8	22	0,8	4201-065001-000000
70	110	38	24	28	211	63	167	52	148	43	5300	151	270	172	75	15	M 10	25	1,3	4201-070001-000000
75	115	38	24	28	213	63	171	52	153	43	5600	149	252	164	75	15	M 10	25	1,2	4201-075001-000000
80	120	38	24	28	215	62	175	52	157	43	6000	150	236	157	75	15	M 10	25	1,4	4201-080001-000000
85	125	38	24	28	218	61	179	51	162	43	6400	151	222	151	75	15	M 10	25	1,4	4201-085001-000000
90	130	38	24	28	220	61	184	51	167	43	6800	151	210	145	75	15	M 10	25	1,5	4201-090001-000000
95	135	38	24	28	244	65	199	54	177	45	8600	181	239	168	75	18	M 10	25	1,6	4201-095001-000000
100	145	44	26	32	263	74	214	61	192	50	11000	220	257	177	130	15	M 12	30	2,2	4201-100001-000000
110	155	44	26	32	268	72	222	60	202	50	12000	218	234	166	130	15	M 12	30	2,3	4201-110001-000000
120	165	44	26	32	282	73	235	61	213	50	14000	233	228	166	130	16	M 12	30	2,4	4201-120001-000000
130	180	50	34	38	311	83	257	69	231	60	19000	292	202	146	130	20	M 12	35	3,5	4201-130001-000000
140	190	50	34	38	331	85	273	71	244	61	22000	314	206	152	130	22	M 12	35	3,8	4201-140001-000000
150	200	50	34	38	351	88	290	73	258	63	26000	346	210	157	130	24	M 12	35	4,0	4201-150001-000000
160	210	50	34	38	371	90	306	74	271	65	30000	375	213	162	130	26	M 12	35	4,4	4201-160001-000000
170	225	58	38	44	391	100	323	83	290	71	35400	416	207	156	200	22	M 14	40	5,7	4201-170001-000000
180	235	58	38	44	414	103	341	85	304	73	40900	454	213	163	200	24	M 14	40	6,0	4201-180001-000000
190	250	66	46	52	438	113	361	94	321	82	50300	529	195	148	200	28	M 14	45	8,0	4201-190001-000000
200	260	66	46	52	459	116	378	96	334	83	56700	567	198	153	200	30	M 14	45	8,2	4201-200001-000000
220	285	72	50	56	500	126	412	104	366	91	72000	655	199	154	300	26	M 16	50	11,0	4201-220001-000000
240	305	72	50	56	547	133	450	108	395	95	90800	757	211	166	300	30	M 16	50	12,2	4201-240001-000000
260	325	72	50	56	593	139	486	112	426	97	108500	835	221	177	300	34	M 16	50	13,2	4201-260001-000000
280	355	84	60	66	624	151	515	124	455	109	137000	979	192	151	410	32	M 18	60	19,2	4201-280001-000000
300	375	84	60	66	671	158	553	129	487	112	165000	1100	201	161	410	36	M 18	60	20,5	4201-300001-000000
320	405	98	72	78	746	183	607	149	530	129	229000	1430	202	160	590	36	M 20	70	29,6	4201-320001-000000
340	425	98	72	78	755	181	622	147	549	129	243000	1430	190	152	590	36	M 20	70	31,1	4201-340001-000000
360	455	112	84	90	827	205	675	167	592	146	320000	1770	191	151	790	36	M 22	80	42,2	4201-360001-000000
380	475	112	84	90	837	203	691	166	610	146	337000	1770	181	145	790	36	M 22	80	44,0	4201-380001-000000
400	495	112	84	90	848	200	708	165	629	146	355000	1770	172	139	790	36	M 22	80	46,0	4201-400001-000000

Larger elements available on request.