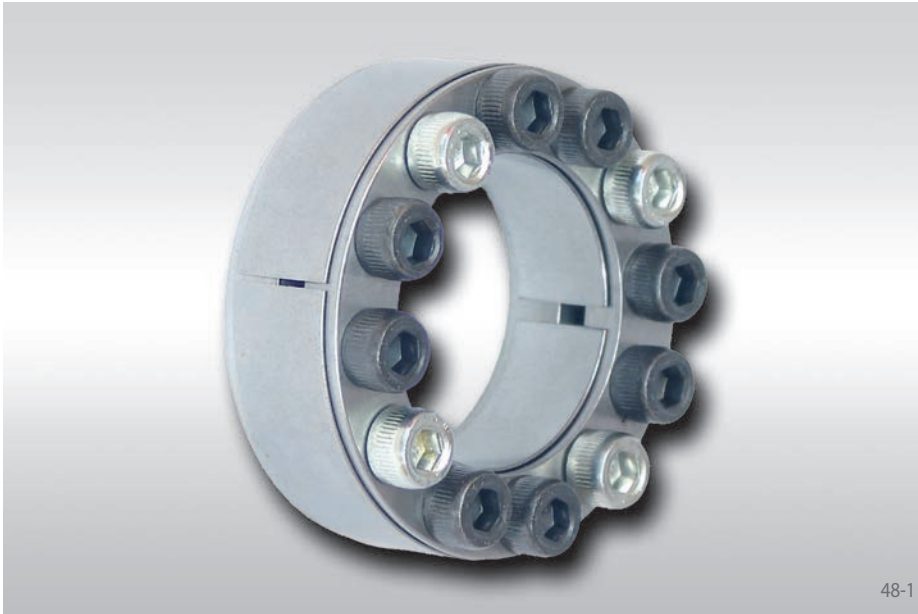


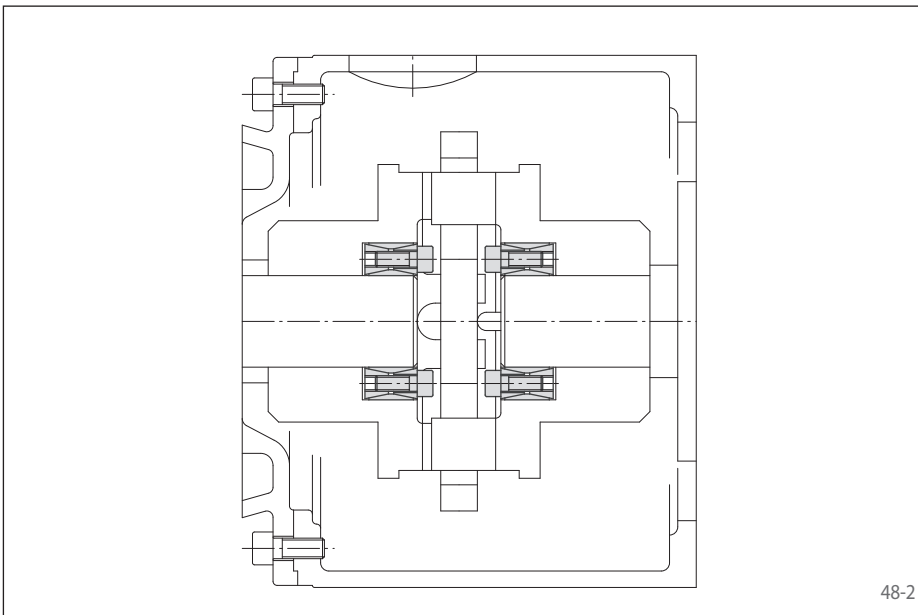
easy to release  
compact design



48-1

## Features

- Easy to release
- Compact design
- No axial displacement between hub and shaft during clamping procedure
- Extended tolerances for hub and shaft
- Transmissible torque of 300 Nm up to 428 500 Nm
- For shaft diameters between 20 mm and 400 mm



48-2

## 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 latern of a geared motor driving a roller conveyor.

## 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

- 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:  
 $R_z = 10 \dots 25 \mu\text{m}$ .

### 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 200.

## Simultaneous transmission of torque and axial force

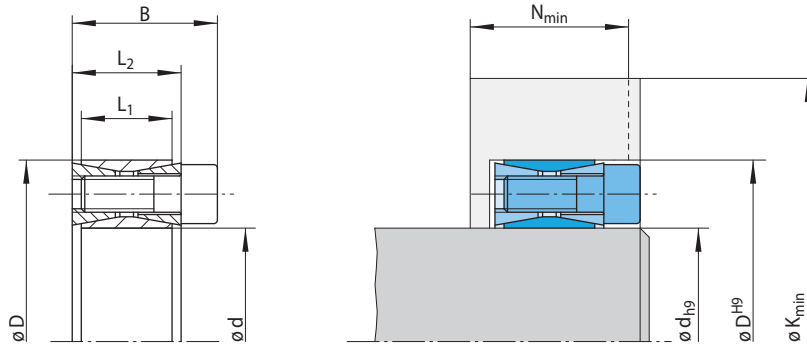
The transmissible torques M which are shown in the tables apply for axial forces  $F = 0 \text{ kN}$  and conversely, the indicated axial forces F apply to torques  $M = 0 \text{ Nm}$ . If torque and axial force are to be transmitted simultaneously, the transmissible torque and the transmissible axial force are reduced. Please refer to the technical points on pages 72 and 73.

## 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

easy to release  
compact design



49-1

49-2

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	
d mm	D mm	B mm	L1 mm	L2 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	76	32	65	26	59	23	300	30	236	101	17,4	8	M 6	18	0,2	4201-020001-000000
22	47	26	17	20	76	32	65	26	59	23	330	30	214	101	17,4	8	M 6	18	0,2	4201-022001-000000
24	50	26	17	20	78	31	68	26	62	23	360	30	196	95	17,4	8	M 6	18	0,3	4201-024001-000000
25	50	26	17	20	78	31	68	26	62	23	380	30	189	95	17,4	8	M 6	18	0,3	4201-025001-000000
28	55	26	17	20	95	37	80	30	72	26	630	45	252	129	17,4	12	M 6	18	0,3	4201-028001-000000
30	55	26	17	20	95	37	80	30	72	26	680	45	236	129	17,4	12	M 6	18	0,3	4201-030001-000000
32	60	26	17	20	98	36	84	29	76	25	720	45	221	118	17,4	12	M 6	18	0,3	4201-032001-000000
35	60	26	17	20	98	36	84	29	76	25	790	45	202	118	17,4	12	M 6	18	0,3	4201-035001-000000
38	65	26	17	20	110	40	94	32	84	27	1050	57	233	136	17,4	15	M 6	18	0,4	4201-038001-000000
40	65	26	17	20	110	40	94	32	84	27	1150	57	221	136	17,4	15	M 6	18	0,4	4201-040001-000000
42	75	32	20	24	132	49	111	38	99	32	1750	83	261	146	42,2	12	M 8	22	0,6	4201-042001-000000
45	75	32	20	24	132	49	111	38	99	32	1850	83	244	146	42,2	12	M 8	22	0,5	4201-045001-000000
48	80	32	20	24	135	48	116	38	104	32	2000	83	229	137	42,2	12	M 8	22	0,6	4201-048001-000000
50	80	32	20	24	135	48	116	38	104	32	2050	83	219	137	42,2	12	M 8	22	0,6	4201-050001-000000
55	85	32	20	24	151	53	128	42	114	35	2800	100	249	162	42,2	15	M 8	22	0,6	4201-055001-000000
60	90	32	20	24	154	52	132	41	118	34	3100	100	229	153	42,2	15	M 8	22	0,7	4201-060001-000000
65	95	32	20	24	157	51	136	41	123	34	3400	100	211	145	42,2	15	M 8	22	0,8	4201-065001-000000
70	110	38	24	28	194	66	165	52	147	43	5800	160	261	166	83	15	M 10	25	1,3	4201-070001-000000
75	115	38	24	28	197	65	169	51	151	42	6200	160	243	159	83	15	M 10	25	1,2	4201-075001-000000
80	120	38	24	28	200	64	173	51	156	42	6600	160	228	152	83	15	M 10	25	1,4	4201-080001-000000
85	125	38	24	28	204	64	177	50	161	42	7000	160	215	146	83	15	M 10	25	1,4	4201-085001-000000
90	130	38	24	28	208	63	182	50	165	42	7400	160	203	141	83	15	M 10	25	1,5	4201-090001-000000
95	135	38	24	28	225	69	195	54	176	45	9400	200	230	162	83	18	M 10	25	1,6	4201-095001-000000
100	145	44	26	32	245	76	212	60	191	49	12100	240	247	171	144	15	M 12	30	2,2	4201-100001-000000
110	155	44	26	32	252	75	220	59	200	49	13500	240	225	160	144	15	M 12	30	2,3	4201-110001-000000
120	165	44	26	32	265	76	233	60	212	50	15500	260	220	160	144	16	M 12	30	2,4	4201-120001-000000
130	180	50	34	38	288	88	252	70	229	59	21000	320	194	140	144	20	M 12	35	3,5	4201-130001-000000
140	190	50	34	38	304	91	266	72	242	60	25000	350	198	146	144	22	M 12	35	3,8	4201-140001-000000
150	200	50	34	38	321	95	281	75	256	62	29000	390	202	152	144	24	M 12	35	4,0	4201-150001-000000
160	210	50	34	38	337	98	295	77	269	64	33500	420	205	156	144	26	M 12	35	4,4	4201-160001-000000
170	225	58	38	44	360	106	316	84	287	69	41500	490	200	151	229	22	M 14	40	5,7	4201-170001-000000
180	235	58	38	44	378	110	331	86	301	71	47500	530	206	158	229	24	M 14	40	6,0	4201-180001-000000
190	250	66	46	52	400	121	350	96	318	80	59000	620	188	143	229	28	M 14	45	8,0	4201-190001-000000
200	260	66	46	52	417	125	365	99	332	82	66500	660	192	147	229	30	M 14	45	8,2	4201-200001-000000
220	285	72	50	56	457	136	400	108	364	90	87500	800	192	149	354	26	M 16	50	11,0	4201-220001-000000
240	305	72	50	56	494	145	432	114	393	94	110000	920	203	160	354	30	M 16	50	12,2	4201-240001-000000
260	325	72	50	56	530	153	463	119	421	98	135000	1050	213	170	354	34	M 16	50	13,2	4201-260001-000000
280	355	84	60	66	566	166	497	131	452	109	167000	1200	189	149	492	32	M 18	60	19,2	4201-280001-000000
300	375	84	60	66	604	175	529	137	481	113	201500	1350	198	159	492	36	M 18	60	20,5	4201-300001-000000
320	405	98	72	78	663	201	577	158	523	131	275500	1700	199	157	692	36	M 20	70	29,6	4201-320001-000000
340	425	98	72	78	678	199	595	157	542	131	293000	1700	187	150	692	36	M 20	70	31,1	4201-340001-000000
360	455	112	84	90	739	226	644	179	584	149	385500	2150	188	149	945	36	M 22	80	42,2	4201-360001-000000
380	475	112	84	90	754	224	661	177	603	148	407000	2150	179	143	945	36	M 22	80	44,0	4201-380001-000000
400	495	112	84	90	769	221	679	176	621	147	428500	2150	170	137	945	36	M 22	80	46,0	4201-400001-000000

Larger elements available on request.