Locking Assemblies

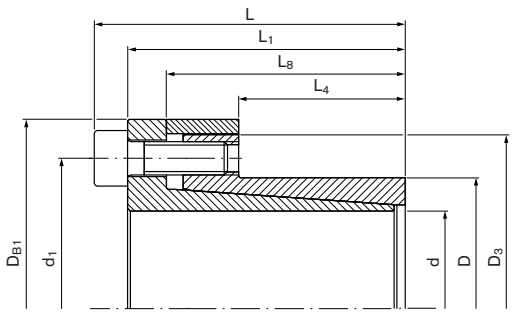
RINGFEDER® RfN 7110

Specially small dimensioned self-centering Locking Assembly without axial displacement



self-centering | **without axial displacement** | **with low surface pressure**

Dimensions



Locking Assembly dimensions								Transmissible torques or axial forces		Surface pressure		Locking screws			
										Shaft	Hub				
d x D	D_{B1}	D_3	d_1	L	L_1	L_4	L_8	T	F_{ax}	p_W	p_N	n_{Sc}	D_G	T_A	Gw
mm				mm				Nm	kN	N/mm²				Nm	kg
8 x 15	27	24	19	28	24	12	21	30	7	230	120	4	M4	4	0,06
9 x 16	28	25	20	31	27	14	23	34	7	170	100	4	M4	4	0,07
10 x 16	28	25	20	31	27	14	23	37	7	160	100	4	M4	4	0,06
11 x 18	32	28,5	23	31	27	14	23	51	10	180	110	4	M4	5	0,07
12 x 18	32	28,5	23	31	27	14	23	56	10	155	110	4	M4	5	0,07
13 x 23	38	33,5	28	31	27	14	23	61	10	150	85	4	M4	5	0,12
14 x 23	38	33,5	28	31	27	14	23	65	10	140	85	4	M4	5	0,12
15 x 24	44	39	31	42	36	16	29	110	17	180	115	3	M6	17	0,21
16 x 24	44	39	31	42	36	16	29	120	17	170	115	3	M6	17	0,2
17 x 26	47	41,5	33	44	38	18	31	165	22	190	135	4	M6	17	0,22
18 x 26	47	41,5	33	44	38	18	31	180	22	180	135	4	M6	17	0,24
19 x 27	48	42,5	34	44	38	18	31	190	22	170	125	4	M6	17	0,25
20 x 28	49	43,5	35	44	38	18	31	200	22	150	115	4	M6	17	0,25
22 x 32	53	47,5	39,5	51	45	25	38	230	22	115	80	4	M6	17	0,34
24 x 34	55	49,5	41,5	51	45	25	38	255	21	105	75	4	M6	17	0,36
25 x 34	55	49,5	41,5	51	45	25	38	255	21	100	75	4	M6	17	0,35
28 x 39	60	54,5	46	51	45	25	38	370	31	110	80	5	M6	17	0,43
30 x 41	62	56,5	48	51	45	25	38	475	31	125	90	6	M6	17	0,43
32 x 43	64	58,5	50,5	56	50	30	43	505	31	95	75	6	M6	17	0,46
35 x 47	68	62,5	54	56	50	30	43	740	42	120	90	8	M6	17	0,52
38 x 50	71	65,5	57	56	50	30	43	800	42	110	85	8	M6	17	0,61
40 x 53	74	68,5	60	58	52	32	45	950	53	110	85	9	M6	17	0,67
42 x 55	77	70,5	62	58	52	32	45	995	78	105	80	9	M6	17	0,74
45 x 59	85	78,5	68,5	72	64	40	56	1750	78	130	100	8	M8	41	1,12

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Locking Assembly dimensions								Transmissible torques or axial forces		Surface pressure		Locking screws			
d x D	D_{B1}	D_3	d_1	L	L_1	L_4	L_8	T	F_{ax}	Shaft p_W	Hub p_N	n_{Sc}	D_G	T_A	Gw
mm	mm							Nm	kN	N/mm²				Nm	kg
48 x 62	87	81,5	71,5	72	64	40	56	1870	78	120	95	8	M8	41	1,14
50 x 65	91	84,5	74,5	82	74	50	66	2430	97	115	90	10	M8	41	1,3
55 x 71	98	90,5	80	82	74	50	66	2670	97	105	80	10	M8	41	1,99
60 x 77	104	96,5	86	82	74	50	66	2920	97	95	75	10	M8	41	2,22
65 x 84	110	103,5	93	82	74	50	66	3160	97	90	70	10	M8	41	2,6
70 x 90	119	113	101	101	91	60	80	4330	123	85	70	8	M10	83	3,76
75 x 95	126	118,5	106	101	91	60	80	5310	142	90	75	9	M10	83	4,08
80 x 100	131	123,5	111	106	96	65	85	7580	190	110	85	12	M10	83	4,41
85 x 106	137	129,5	117	106	96	65	85	7990	190	100	80	12	M10	83	4,83
90 x 112	143	135,5	123	106	96	65	85	9960	222	110	90	14	M10	83	5,26
95 x 120	153	142,5	131	106	96	65	85	10500	222	105	85	14	M10	83	6,26
100 x 125	162	152,5	138	114	102	65	89	13600	273	125	100	12	M12	145	7,66
110 x 140	177	166,5	153	119	107	70	94	15000	273	105	80	12	M12	145	9,89
120 x 155	195	184,5	168	139	127	90	114	21800	364	100	75	16	M12	145	13,64
130 x 165	205	194,5	178	139	127	90	114	23700	364	90	70	16	M12	145	14,58

More sizes on request

Explanation

d = Inner diameter
D = Outer diameter
d_1 = Pitch circle diameter
D_{B1}/D_3 = Collar outer diameter
L = Overall length
L_1 = Overall length (without screws)
L_4 = installation length up to collar
L_8 = Length L_4 + length spacer bushing
T = Transmissible torque at given T_A
F_{ax} = Transmissible axial force
p_W = Surface pressure on shaft at given T_A
p_N = Surface pressure on hub at given T_A
n_{Sc} = Quantity of screws
D_G = Thread
T_A = Tightening torque of the clamping screws
Gw = Weight

Ordering example

Locking Assembly	d	D
RfN 7110	70	90

Technical Information

- Surface finishes: Shaft and hub bores $R_a \leq 1{,}6$ µm
- Tolerances: Shaft: h8 · Hub: H8

Further information on
RINGFEDER® RfN 7110
on **www.ringfeder.com**

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