

Locking Assemblies

RINGFEDER® RfN 7110

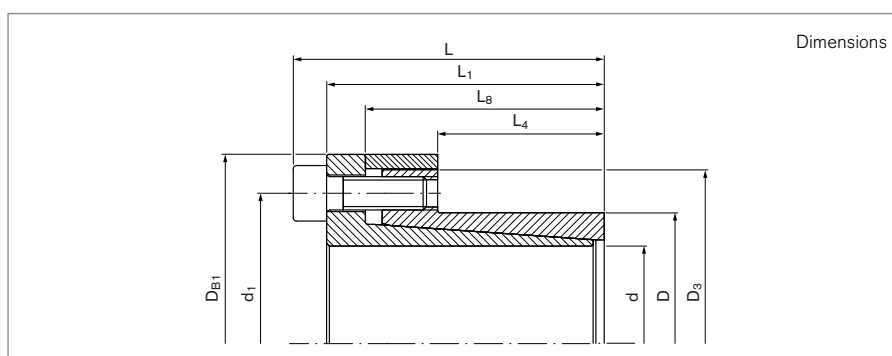
Specially small dimensioned self-centering Locking Assembly without axial displacement



self-centering

without axial displacement

with low surface pressure



Locking Assembly dimensions									Transmissible torques or axial forces		Surface pressure		Locking screws			
d x D	DB1	D3	d1	L	L1	L4	L8		T	F _{ax}	Shaft PW	Hub PN	n _{Sc}	D _G	T _A	G _w
mm	mm								Nm	kN	N/mm ²				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	G _w
mm						mm				Nm	kN	N/mm ²				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	L₈ = Length L ₄ + length spacer bushing	T_A = Tightening torque of the clamping screws
D = Outer diameter	T = Transmissible torque at given T _A	G_w = Weight
d₁ = Pitch circle diameter	F_{ax} = Transmissible axial force	
D_{B1}/D₃ = Collar outer diameter	p_w = Surface pressure on shaft at given T _A	
L = Overall length	p_N = Surface pressure on hub at given T _A	
L₁ = Overall length (without screws)	n_{Sc} = Quantity of screws	
L₄ = installation length up to collar	D_G = Thread	

Ordering example

Locking Assembly	d	D
RfN 7110	70	90

Technical Information

- Surface finishes: Shaft and hub bores R_a ≤ 1,6 μm
- Tolerances: Shaft: h8 · Hub: H8

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

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