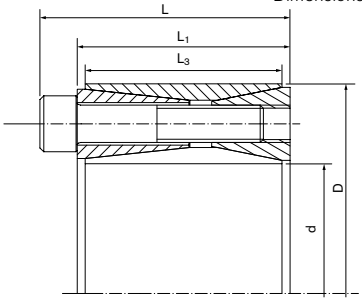
Locking Assemblies
RINGFEDER® RfN 7014
Large transmittable peripheral forces

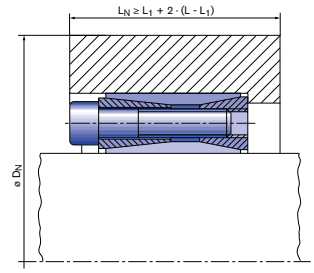


self-centering | **without axial displacement** | with low surface pressure

Dimensions



Location



Locking Assembly dimensions						Transmissible torques or axial forces		Surface pressure		Locking screws				$D_{N\,min}$ at $R_{p0,2}$			
								Shaft	Hub					200	300	400	
d	x	D	L	L_1	L_3	T	F_{ax}	p_W	p_N	n_{Sc}	D_G	T_A	Gw	[N/mm²]			T_{max}
mm			mm			Nm	kN	N/mm²				Nm	kg	mm			Nm
60	x	100	60	50	44	4130	138	208	125	8	M10 x 45	84	1,8	209	157	139	5120
70	x	120	74	62	56	6850	196	200	117	8	M12 x 55	145	3,3	197	165	154	8068
80	x	130	74	62	56	11650	291	263	162	12	M12 x 55	145	3,7	---	215	189	13813
90	x	140	74	62	56	13000	289	234	150	12	M12 x 55	145	4	310	220	196	15505
100	x	160	94	80	74	19700	394	213	133	12	M14 x 70	230	7,2	312	239	217	23620
110	x	170	94	80	74	26600	484	242	157	14	M14 x 70	230	7,7	---	284	248	32045
120	x	180	94	80	74	28900	482	222	148	15	M14 x 70	230	8,3	416	287	255	34968
130	x	190	94	80	74	31200	480	205	140	15	M14 x 70	230	8,8	399	292	263	37903
140	x	200	94	80	74	40200	574	227	159	17	M14 x 70	230	9,3	---	337	294	49017
150	x	210	94	80	74	42900	572	212	151	18	M14 x 70	230	10	510	340	301	52489
160	x	230	110	94	88	64000	800	227	158	17	M16 x 80	355	14,9	---	390	339	78558
170	x	240	110	94	88	67800	798	214	152	18	M16 x 80	355	15,7	---	394	347	83477
180	x	250	110	94	88	83000	922	235	169	20	M16 x 80	355	16,4	---	453	384	102483
190	x	260	110	94	88	88000	926	223	163	21	M16 x 80	355	17,2	---	454	390	108947
200	x	270	110	94	88	105000	1050	242	179	23	M16 x 80	355	18,8	---	524	431	130330
220	x	300	134	116	110	123000	1118	189	139	21	M18 x 100	485	27,7	662	470	420	153404
240	x	320	134	116	110	153000	1275	198	148	24	M18 x 100	485	29,8	---	527	463	191651
260	x	340	134	116	110	186000	1431	205	157	26	M18 x 100	485	32	---	586	506	233920
280	x	370	156	136	130	230000	1643	192	145	24	M20 x 120	690	46	---	606	533	290328
300	x	390	156	136	130	245000	1633	179	138	24	M20 x 120	690	49	874	614	548	310335

More sizes on request

To continue see next page

Locking Assemblies RINGFEDER® RfN 7014

Explanation

d	= Inner diameter	**F_{ax}**	= Transmissible axial force	**T_A**	= Tightening torque of the clamping screws
D	= Outer diameter	**p_W**	= Surface pressure on shaft at given T_A	**Gw**	= Weight
L	= Overall length	**p_N**	= Surface pressure on hub at given T_A	**D_N min**	= Min. hub outer diam. depending of the given hub yield point Rp0,2
L_1	= Overall length (without screws)	**n_{Sc}**	= Quantity of screws	**T_{max}**	= Max. transmissible torque
L_3	= Width of ring	**D_G**	= Thread		
T	= Transmissible torque at given T_A				

Technical Information

- The values for T, F_{ax}, p_W and p_N apply to Locking Assemblies installed in oiled condition.
- Surface finishes: Shaft and hub bores $R_a \leq 3{,}2$ µm
- Tolerances: Shaft: k9-h9 · Hub: N9-H9
- Max. two Locking Assemblies at most can be installed in series. In this case the transmission values of the above table are doubled.
- A reduction of the contact pressures and the transmission values by reducing the tightening torque of the screws is possible. Please contact our specialists for assistance.
- For the removal of the Locking Assembly a step in the hub or shaft is required (as shown in the installation situation).

Ordering example

Locking assembly	d	D
RfN 7014	**150**	**210**

Further information on
RINGFEDER® RfN 7014
on **www.ringfeder.com**

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