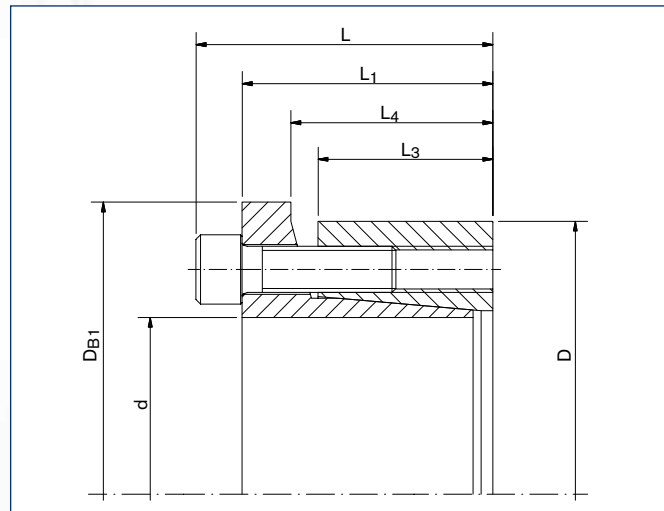
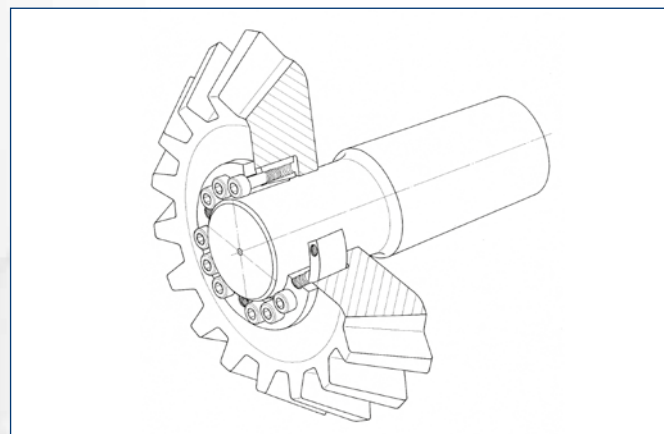


Locking Assembly RfN 7013.1 · Location / Calculation of hubs see on Page 92-93
(Calculation possible for other hub forms in our calculation program)



Locking Assembly RfN 7013.1 · Dimensions



Locking Assembly RfN 7013.1 · Bevel gear wheel

Characteristics

Excellent concentricity and very easy to dismantle – these Locking Assemblies provide particularly good concentricity between the clamped parts. The flange is reinforced at the critical point, preventing bending or lifting of the inner ring during assembly and thereby ensuring easy dismantling.

High rotation speed – the dimensional accuracy of the RfN 7013 Locking Assemblies allows their use in applications with higher rotational speeds.

High radial loads – the material strength of the RfN 7013 Locking Assemblies makes them especially suitable for applications with high radial loads.

Axial hub positioning – the increased outer diameter of the flange prevents the axial movement of the hub during assembly and improves the run-out ability of the Locking Assembly.

High torque – the increased number of clamping screws ensures the same transmission values as the RfN 7013.0.

Locking Assembly dimensions						Transmissible torques or axial forces		Surface pressure		Locking screws ISO 4762-12.9				D _N min. at Rp0.2			G _w			
d	d	x	D	L	L ₁	L ₃	L ₄	D _{B1}	T	F _{ax}	Shaft p _w	Hub p _N	n _{Sc}	D _G	SW	T _A		200	300	400
inch	inch		inch	inch	inch	inch	inch	inch	ft-lbs	lbs	psi		pcs.		mm	ft-lbs		[N/mm ²]		
1.000	1	x	1.969	1.457	1.220	0.854	1.012	2.205	323	7752	40170	15070	7	M 6 x 20	5	13	2.875	2.591	2.398	0.7
1.1875	1 3/16	x	2.165	1.457	1.220	0.854	1.012	2.441	385	7781	33800	13650	7	M 6 x 20	5	13	3.000	2.773	2.587	0.8
1.250	1 1/4	x	2.362	1.457	1.220	0.854	1.012	2.677	531	10195	38560	15070	9	M 6 x 20	5	13	3.375	3.108	2.876	0.9
1.375	1 3/8	x	2.362	1.457	1.220	0.854	1.012	2.677	585	10211	35055	15070	9	M 6 x 20	5	13	3.375	3.108	2.876	0.9
1.4375	1 4/9	x	2.559	1.457	1.220	0.854	1.012	2.874	620	10351	33495	13935	10	M 6 x 20	5	13	3.825	3.296	3.069	1.0
1.500	1 1/2	x	2.559	1.457	1.220	0.854	1.012	2.874	647	10352	32100	13935	10	M 6 x 20	5	13	3.825	3.296	3.069	1.0
1.625	1 5/8	x	2.953	1.811	1.496	0.996	1.193	3.268	1234	18225	43870	19055	9	M 8 x 25	6	30	4.750	4.202	3.796	1.7
1.750	1 3/4	x	2.953	1.811	1.496	0.996	1.193	3.268	1329	18226	40740	19055	9	M 8 x 25	6	30	4.750	4.202	3.796	1.7
1.875	1 7/8	x	3.150	1.811	1.496	0.996	1.193	3.465	1426	18253	38070	17915	9	M 8 x 25	6	30	4.875	4.381	3.986	1.8
1.9375	1 15/16	x	3.150	1.811	1.496	0.996	1.193	3.465	1473	18246	36840	17915	9	M 8 x 25	6	30	4.875	4.381	3.986	1.8
2.000	2	x	3.150	1.811	1.496	0.996	1.193	3.465	1521	18252	35690	17915	9	M 8 x 25	6	30	4.875	4.381	3.986	1.8
2.125	2 1/8	x	3.346	1.811	1.496	0.996	1.193	3.740	1803	20363	39125	19625	10	M 8 x 25	6	30	5.500	4.816	4.335	1.8
2.1875	2 3/16	x	3.346	1.811	1.496	0.996	1.193	3.740	1856	20363	38005	19625	10	M 8 x 25	6	30	5.500	4.816	4.335	1.8
2.250	2 1/4	x	3.543	1.811	1.496	0.996	1.193	3.937	1908	20352	36875	18485	10	M 8 x 25	6	30	5.500	4.984	4.518	1.9
2.375	2 3/8	x	3.543	1.811	1.496	0.996	1.193	3.937	2014	20352	34935	18485	10	M 8 x 25	6	30	5.500	4.984	4.518	1.9
2.4375	2 7/16	x	3.740	1.811	1.496	0.996	1.193	4.134	2466	24281	38965	20050	12	M 8 x 25	6	30	6.125	5.430	4.873	2.1
2.500	2 1/2	x	3.740	1.811	1.496	0.996	1.193	4.134	2530	24288	37990	20050	12	M 8 x 25	6	30	6.125	5.430	4.873	2.1
2.5625	2 4/7	x	3.740	1.811	1.496	0.996	1.193	4.134	2593	24286	37065	20050	12	M 8 x 25	6	30	6.125	5.430	4.873	2.1
2.750	2 3/4	x	4.331	2.362	1.969	1.315	1.591	4.724	3680	32116	34770	18200	10	M 10 x 35	8	61	6.750	6.058	5.502	4.6
2.875	2 7/8	x	4.528	2.362	1.969	1.315	1.591	4.921	3845	32097	33300	16920	10	M 10 x 35	8	61	6.875	6.176	5.653	4.9
2.9375	2 15/16	x	4.528	2.362	1.969	1.315	1.591	4.921	3929	32101	32590	16920	10	M 10 x 35	8	61	6.875	6.176	5.653	4.9
3.000	3	x	4.528	2.362	1.969	1.315	1.591	4.921	4012	32096	31910	16920	10	M 10 x 35	8	61	6.875	6.176	5.653	4.9
3.375	3 3/8	x	4.921	2.362	1.969	1.315	1.591	5.315	5434	38642	32430	18345	12	M 10 x 35	8	61	7.825	6.903	6.264	5.3
3.4375	3 4/9	x	5.118	2.362	1.969	1.315	1.591	5.512	5543	38700	31810	17630	12	M 10 x 35	8	61	7.875	7.079	6.451	5.7
3.500	3 1/2	x	5.118	2.362	1.969	1.315	1.591	5.512	5644	38702	31240	17630	12	M 10 x 35	8	61	7.875	7.079	6.451	5.7
3.750	3 3/4	x	5.315	2.362	1.969	1.315	1.591	5.709	7180	45952	36450	21190	15	M 10 x 35	8	61	9.000	7.899	7.036	6.0
3.9375	3 15/16	x	5.709	2.677	2.283	1.606	1.882	6.102	7957	48500	27300	16210	15	M 10 x 35	8	61	8.500	7.680	7.059	8.2
4.000	4	x	5.709	2.677	2.283	1.606	1.882	6.102	8083	48498	26870	16210	15	M 10 x 35	8	61	8.500	7.680	7.059	8.2

Ordering example: RfN 7013.1-IN

Series	d	D
RfN 7013.1-IN	1 7/8	3.150

Explanations to tables: Page 9

More sizes on request

■ Mounting of Locking Assembly

The Locking Assemblies are supplied slightly oiled and ready-to-use. The values for T, F_{ax}, p_w and p_N apply to Locking Assemblies installed in the delivery condition.

■ Surface finishes

For shaft and hub bore $R_a \leq 1,6 \mu\text{m}$

■ Tolerances

We recommend the following mounting tolerances
Shaft: h8; Hub: H8

■ Arrangement of several Locking Assemblies RfN 7013.1

Arrangement only possible from 2 sides. If several Locking Assemblies are used to increase the transmission values, the clamping systematization has to be considered.

■ Change of screw tightening torques

A change of the T_A-values given in the above table is not admissible.

■ Calculation hub outer diameter

Factor C = 0.6 see page 92