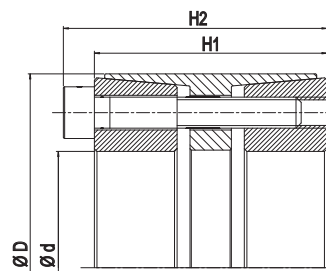


SIT-LOCK® 4 - Self-Centering

It is suitable for high torques and is self-centering. Recommended for applications that requires high transmission

values and excellent centering capabilities such as belt drums.



Installation

Carefully clean contact surfaces of shaft and hub. Then, lightly oil both surfaces with standard mineral oil. Position the SIT-LOCK® on the shaft and into the hub machined bore. Align them as required by the application. Gradually and uniformly tighten the locking screws to the tightening torque (Ms).

You must tighten the screws in diametrically opposite sequence in stages:

- hand tighten the screws until the surfaces are in contact

- carefully check the position of the hub on the shaft
- tighten the screws to half the value of the tightening torque (Ms) stated in the catalogue
- repeat the operation until the tightening torque is reached using the dynamometric screw-driver
- check every locking screw to insure it has been tightened to the specific tightening torque

Do not use lubricant like "Molykote" or molybdenum disulfide based oils.

Removal

Gradually loosen the clamping screws. Transfer the screws into the releasing tapped holes and tighten them until the front cone is released. Loosen the clamping screws again. Transfer the clamping screws into the releasing holes of the intermediate ring, and tighten them until the back cone is released.

Note: To reuse the locking element, carefully oil the screws and the conical surfaces, then follow installation instructions.

Concentricity

For self-centering locking assemblies, the clamping element has a centering effect and the concentricity error can be considered 0.02-0.04 mm.

Maximum allowable roughness
Rt 16 µm
Maximum recommended tolerance
shaft h 8 - hub H 8

SIT-LOCK® 4

Dimensions [mm]			Performances		Pressure [N/mm ²]		Clamping screws (DIN 912 - 12,9)		
d x D	H ₁	H ₂	M _T [Nm]	F _{ax} [kN]	p _w	p _n	N°	Type	M _s [Nm]
25 x 50	45	51	830	66	172	86	6	M 6	17
28 x 55	45	51	1072	76	180	111	8	M 6	17
30 x 55	45	51	1.328	89	191	104	8	M 6	17
35 x 60	45	51	1.550	89	164	95	8	M 6	17
38 x 65	45	51	1805	90	175	102	8	M 6	17
40 x 65	45	51	2.214	111	179	110	10	M 6	17
42 x 75	45	51	2950	141	188	105	8	M 8	41
45 x 75	45	51	1.992	89	127	76	8	M 6	17
48 x 80	62	70	3400	140	166	98	8	M 8	41
50 x 80	62	70	4.090	164	150	94	8	M 8	41
55 x 85	62	70	5.062	184	153	99	8	M 8	41
60 x 90	62	70	6.136	205	156	104	10	M 8	41
65 x 95	62	70	6.647	205	144	98	10	M 8	41
70 x 110	78	88	11.366	325	176	112	10	M10	83
75 x 115	78	88	12.178	325	164	107	10	M10	83
80 x 120	78	88	15.588	390	185	123	12	M10	83
85 x 125	78	88	16.562	390	174	118	12	M10	83
90 x 130	78	88	17.536	390	164	114	12	M10	83
95 x 135	78	88	18.510	390	155	109	12	M10	83
100 x 145	100	112	28.369	567	164	113	12	M12	145
110 x 155	100	112	31.206	567	149	106	12	M12	145
120 x 165	100	112	39.717	662	159	116	14	M12	145
130 x 180	114	128	50.602	778	147	106	12	M14	230
140 x 190	114	128	63.577	908	159	117	14	M14	230
150 x 200	114	128	77.850	1.038	170	127	16	M14	230
160 x 210	146	162	83.040	1.038	123	94	16	M14	230
170 x 225	146	162	107.296	1.262	141	106	14	M16	355
180 x 235	146	162	129.838	1.443	152	116	16	M16	355
190 x 250	146	162	137.051	1.443	144	109	16	M16	355
200 x 260	146	162	144.264	1.443	137	105	16	M16	355
220 x 285	146	162	198.363	1.803	155	120	20	M16	355
240 x 305	146	162	238.035	1.984	157	123	22	M16	355
260 x 325	146	164	261.025	1.984	148	117	22	M16	355
280 x 355	148	197	399.520	2.824	158	124	20	M20	690
300 x 375	177	197	471.258	3.085	162	128	22	M20	690
320 x 405	177	197	502.452	3.085	155	118	22	M20	690
340 x 425	177	197	582.850	3.385	158	121	24	M20	690
360 x 455	202	224	703.258	3.895	145	113	22	M22	930
380 x 475	202	224	879.985	4.545	160	127	26	M22	930
400 x 495	202	224	925.215	4.582	153	124	26	M22	930

Note: For larger sizes, please contact our technical office.

M _s	Screw tightening torque	Nm
M _T	Transmissible torque moment	Nm
F _{ax}	Transmissible axial load	N
p _w	Shaft pressure	N/mm ²
p _n	Hub pressure	N/mm ²