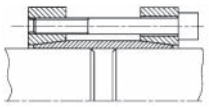
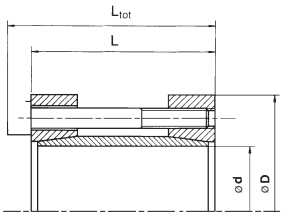
SIT-LOCK® 10 - External

SIT-LOCK® 10 are shrink disk couplings with double taper design. They offer easy angular timing and axial adjustment of shaft ends.

They transmit high torque and bending moment without keys and offer a low cost solution for shaft to shaft rigid connection.





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

Note: once the tightening torque is reached, do not continue to tighten the screws. Do not use lubricant like "Molykote" or molybdenum disulfide based oils.

Removal

Loosen all the locking screws in a clockwise sequence until coupling can be moved on shafts. Do not remove screws completely.

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

Dimensions [mm]			Performances		Clamping screws (DIN 912 - 12,9)		
d x D	L_{tot}	L	M_T [Nm]	F_{ax} [kN]	N°	Type	M_S [Nm]
17 x 45	56	50	170	18	4	M 6	17
17 x 50	56	50	170	21	4	M 6	17
18 x 50	56	50	180	18	4	M 6	17
19 x 50	56	50	190	18	4	M 6	17
20 x 50	56	50	200	18	4	M 6	17
22 x 55	66	60	330	27	6	M 6	17
24 x 55	66	60	360	27	6	M 6	17
25 x 55	66	60	380	27	6	M 6	17
28 x 60	66	60	370	24	6	M 6	17
30 x 60	66	60	400	24	6	M 6	17
32 x 75	83	75	580	32	4	M 8	41
35 x 75	83	75	640	32	4	M 8	41
38 x 75	83	75	690	32	4	M 8	41
40 x 75	83	75	730	32	4	M 8	41
42 x 85	93	85	1.100	48	6	M 8	41
42 x 90	83	75	1.400	67	6	M 8	41
45 x 85	93	85	1.200	48	6	M 8	41
45 x 90	93	85	1.520	67	6	M 8	41
50 x 90	93	85	1.340	48	6	M 8	41
55 x 95	93	85	1.900	64	8	M 8	41
55 x 105	93	85	2470	90	8	M 8	41
60 x 105	93	85	2710	90	8	M 8	41
60 x 100	93	85	2.200	64	8	M 8	41
65 x 105	93	85	2.400	64	8	M 8	41
70 x 115	110	100	3.200	80	6	M10	83
75 x 120	110	100	3.300	80	6	M10	83
80 x 125	110	100	4.800	110	7	M10	83

Maximum allowable roughness
Rt 16 µm
Maximum recommended tolerance
shaft h 8

M_S	Screw tightening torque	Nm
M_T	Transmissible torque moment	Nm
F_{ax}	Transmissible axial load	N