

MSF Series - Mini Soft Style Coupling

The Lovejoy Mini Soft coupling provides protection from misalignment, vibration and shock loads. The simple design of the coupling ensures ease of assembly, installation and reliable performance. No special tools are needed for installation or removal. No lubrication is needed, and once installed and aligned correctly, no maintenance is required.

The Mini Soft coupling design is comprised of three parts. Two hubs with internal teeth engage an elastomeric flexible center, or sleeve, with external teeth. Misalignment and torsional shock loads are absorbed by shear deflection in the center sleeve element.

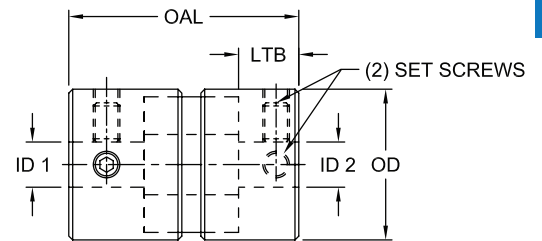
The shear characteristic of the coupling is very well suited to absorb impact. The Lovejoy Mini Soft coupling is designed with tooth contact which provides more surfaces carrying the load resulting in less wear at any one point, and torque that flows more smoothly. Additionally, the coupling allows for axial freedom which results in easier assembly and spacing of shafts. This feature is particularly useful in reducing thrust loads on bearings.

When operating within its rating, the coupling is torsionally stiff and will not react with twist during operation. The Polyurethane center member sleeve is known for its toughness and resistance to abrasion, and also provides for good damping and shock load capabilities.

The MSF coupling consists of two hubs and one center member.

Features

- Easy blind assembly
- Good shock load absorption
- Good abrasion resistance
- Zinc alloy hubs
- Polyurethane insert



MSF Series Performance Data

Size	Torque Nominal in-lbs*	Torsional Stiffness in-lb/rad*	Max RPM	Weight*		Moment of Inertia* lb-in ²	Misalignment		
				oz	g		Angular	Parallel in	Axial in
MSF-16	4.4	27	24,000	0.8	22	0.003	2°	0.01	N/A
MSF-20	8.9	80	19,000	1.5	43	0.010	2°	0.01	N/A
MSF-25	13.3	106	15,000	3.0	84	0.028	2°	0.01	N/A
MSF-32	26.6	266	12,000	5.6	160	0.092	2°	0.01	N/A

Notes: ■ * indicates: Nominal torque, torsional stiffness, weight and moment of inertia are based on minimum bore size.
 ■ N/A indicates: Not Applicable.
 ■ Specify Bore sizes ID1 and ID2 when ordering.

MSF Series Dimensional Data

Size	OAL		LTB		ID1 - ID2				OD		Set Screw Size mm
	in	mm	in	mm	Min Bore		Max Bore		in	mm	
					in	mm	in	mm			
MSF-16	1.063	27	0.315	8	0.118	3	0.315	8	0.630	16	M3
MSF-20	1.339	34	0.394	10	0.197	5	0.394	10	0.787	20	M3
MSF-25	1.614	41	0.472	12	0.197	5	0.472	12	0.984	25	M4
MSF-32	1.890	48	0.551	14	0.315	8	0.551	14	1.260	32	M4