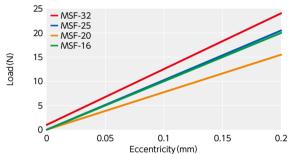
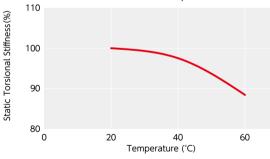


- Technical Information
- Eccentric reaction force



• Change in static torsional stiffness due to temperature

This is a value under the condition where the static torsional stiffness at 20°C is 100%. If the unit is used under higher temperature, be careful about misalignment due to elongation or deflection of the shaft associated with thermal expansion.



Applicable motors

	MSF
Servomotor	_
Stepping Motor	_
General-purpose motor	0

- O: Excellent O: Very good
- Property

	MSF
Allowable Misalignment	0
Vibration absorption	0
Electrical insulation	0
Allowable operating temperature	−20°C to 60°C

- O: Excellent O: Very good
- The engagement of serration transmits torque. This is a simple structure flexible coupling.
- It has excellent flexibility. Its max. lateral misalignment and max. angular misalignment are large, absorbing torsional vibration.
- Application

Mixer/Gaming device

 Material 	/Finish	RoHS2 Compliant			
	MSF-16-MSF-25	MSF-32			
Casing	ZDC2 Cathodic electrodeposition coating	SMF4040 Steam treatment			
Sleeve	Polyurethane	Polyurethane			
Hex Socket	SCM435	SCM435			

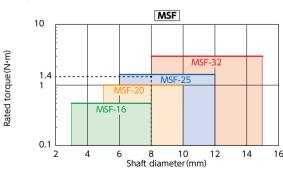
Ferrosoferric oxide film

Selection

Set Screw Ferrosoferric oxide film

• Selection based on shaft diameter and rated

The area bounded by the shaft diameter and rated torque indicates is the selection size.

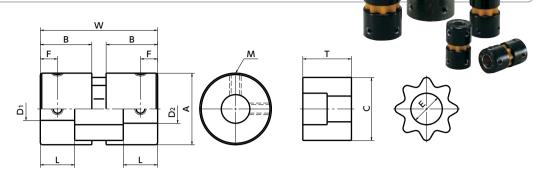


Selection example

In case of selected parameters of shaft diameter of ϕ 8 and load torque of 1.4 N·m, the selected size is MSF-25.

Additional Keyway at Shaft Hole → P.803	Cleanroom Wash & Packaging → P.807	Change to Stainless Steel Screw → P.805
Available / Add'l charge	Please feel free to contact us	Available / Add'l charge





Dimensions

Par Nu		Α	В	L	W	F	M	Screw Tightening Torque	Sleev	e		Stand D1 • D		ore Di	amete	r (dim	ensio	nal all	owanc	ce H8)
4	1							(N·m)	Т	С	E	3	4	5	6	6.35	8	10	12	14
MS	F-16	16	12	8	27	4	МЗ	0.7	11	14	6/6	•	•	•	•	•	•			
MS	F-20	20	15	10	34	5	M3	0.7	14	18	8/8			•	•	•	•	•		
MS	F-25	25	18	12	41	6	M4	1.7	17	22	10 / 10				•	•	•	•	•	
MS	F-32	32	21	14	48	7	M4	1.7	20	29	12 / 14						•	•	•	•

- All products are provided with hex socket set screw.
- In a case where the bore diameter is ϕ 4 or less, the set screw is used in only one place.
- Recommended dimensional allowances of applicable shaft diameter are h6 and h7.

Performance

Part Number	Max. Bore Diameter (mm)	Rated*1 torque (N·m)	Max.*1 torque (N·m)		Moment*2 of Inertia (kg·m²)	Static Torsional Stiffness (N·m/rad)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment (°)	Mass*2 (g)
MSF-16	8	0.5	1	39000	9.0×10 ⁻⁷	4.4	0.20	2	22
MSF-20	10	1	2	31000	2.7×10 ⁻⁶	9.5	0.20	2	42
MSF-25	12	1.5	3	25000	8.1×10 ⁻⁶	20	0.20	2	81
MSF-32	15	3	6	19000	2.5×10 ⁻⁵	52	0.20	2	150

- *1: Correction of rated torque and max. torque due to load fluctuation is not required. However, if ambient temperature exceeds 30°C, be sure to correct the rated torque and max. torque with temperature correction factor shown in the following table. The allowable operating temperature of $\boxed{\text{MSF}}$ is -20°C to 60°C .
- *2: These are values with max. bore diameter.

• Ambient Temperature / Temperature Correction Factor

Ambient temperature	Temperature correction factor
–20℃ to 30℃	1.00
30℃ to 40℃	0.80
40℃ to 60℃	0.70

• Part number specification



I Init ' mm