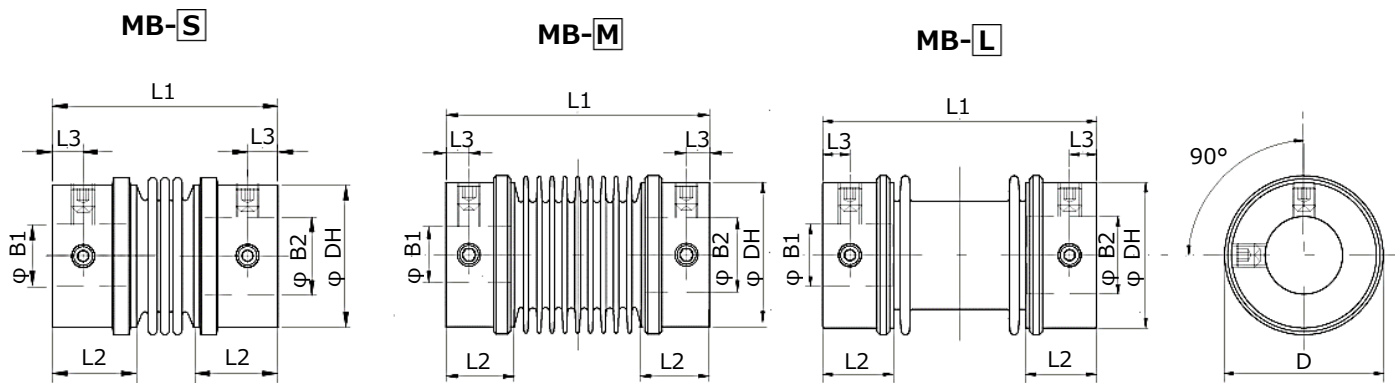


MB type

- **Set screw style**
- Zero backlash
- Inner diameter: 3 - 20 mm
- Maximum transmittable torque: 1.0 - 12.5 Nm
- **Torsionally rigid**
- **The 3 forms offer differing stiffness, lateral compensation and axial motion**



● MB-□-19, -25, -33, -41



- MB type is all through bored.

Comparative properties

Parameter	【◎ = Excellent, ○ = Good】	Form		
		S	M	L
Maximum transmittable torque		○		◎
Spring constant		◎		○
Misalignment compensation	Angular	○	◎	
	Lateral		◎	○
	Axial	○	◎	

Service Factors

Select a size of coupling where the maximum transmittable torque* exceeds the "Maximum application torque × Service factor."

Load	Service factors
Uniform, steady state	1
Non-uniform, periodical, stop/start, reversing	2
Shock	3
Heavy shock, repeated impulsive, reversing	4
Servomotor	2.5 - 3.0

Specifications of MB type

MB			Coupling size of MB -											
			19			25			33			41		
			S	M	L	S	M	L	S	M	L	S	M	L
Maximum transmittable torque*	Nm		2.0	1.0	2.5	3.2	1.6	4.0	7.5	3.8	9.4	10.0	5.0	12.5
Torsional stiffness	Spring constant	Nm/rad.	315	170	225	755	380	615	1,740	915	1,455	2,880	1,310	2,245
Stiffness	Angular	N/°	1.03	0.33	0.33	1.27	0.39	1.52	1.34	0.62	1.98	1.58	0.52	2.30
	Radial	N/mm	115	6.7	8.2	238	8.2	14.6	227	12.7	23.2	144	9.3	19.2
	Axial		17.7	7.8	7.1	5.7	3.3	6.4	6.6	3.8	27.9	13.1	3.8	7.2
Moment of inertia (Values apply with maximum bores)		kgm ² ×10 ⁻⁸	90	100	90	350	400	370	975	1,128	988	2,490	2,740	2,477
Misalignment	Angular	°	2	6	1.3	2	6	1.3	2.5	8	1.5	2.5	8	1.8
	Lateral	mm	0.06	0.50	0.20	0.06	0.50	0.20	0.10	1.00	0.30	0.15	1.20	0.40
	Axial		0.35	1.00	0.20	0.36	1.00	0.20	0.60	1.90	0.30	0.80	2.50	0.50
Mass (Values apply with maximum bores)		kg×10 ⁻³	18	19	18	35	39	34	58	65	59	102	110	102
Outer diameter	D	mm	20.0			26.0			34.0			41.0		
Hub outer diameter	DH	mm	18.0			23.5			31.0			37.4		
Overall length	L1	mm	31.0	45.2	43.6	37.5	54.3	53.2	40.0	57.0	56.6	49.7	71.4	70.7
Mounting length (shaft depth, bore depth)	L2	mm	11.0			14.0			14.0			18.0		
Distance	from hub end to screw	L3	3.9			5.0			5.0			7.0		
Set screws**	Size		M4			M5			M5			M6		
	Recommended tightening torque	Nm	1.7			3.0			3.0			6.0		

** Steel screws are standard, stainless steel screws are optional.

Bores for MB type

Inner diameter			Coupling size of MB -														
			19			25			33			41					
			S	M	L	S	M	L	S	M	L	S	M	L			
B1, B2 (+0.03/ 0 [mm])	Metric [mm]	3	○	○	○												
		4	○	○	○	○	○	○									
		5	○	○	○	○	○	○									
		6	○	○	○	○	○	○	○	○	○						
		8	○	○	○	○	○	○	○	○	○	○	○	○	○		
		9				○	○	○	○	○	○	○	○	○	○	○	
		10				○	○	○	○	○	○	○	○	○	○	○	○
		11				○	○	○	○	○	○	○	○	○	○	○	○
		12				○	○	○	○	○	○	○	○	○	○	○	○
		14							○	○	○	○	○	○	○	○	○
		15							○	○	○	○	○	○	○	○	○
		16							○	○	○	○	○	○	○	○	○
		18										○	○	○	○	○	○
		19										○	○	○	○	○	○
	20										○	○	○	○	○	○	
	Inch [in]	1/8	○	○	○												
		3/16	○	○	○	○	○	○									
		1/4	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
		3/8				○	○	○	○	○	○	○	○	○	○	○	○
		1/2							○	○	○	○	○	○	○	○	○
5/8								○	○	○	○	○	○	○	○	○	
3/4											○	○	○	○	○	○	

○through hubs

Ordering Example

Type	-	Form	-	Coupling size	-	Inner diameter, small	×	Inner diameter, large
MB	-	S	-	41	-	8	×	20

Please email us for further assistance: product@mighty-corp.co.jp