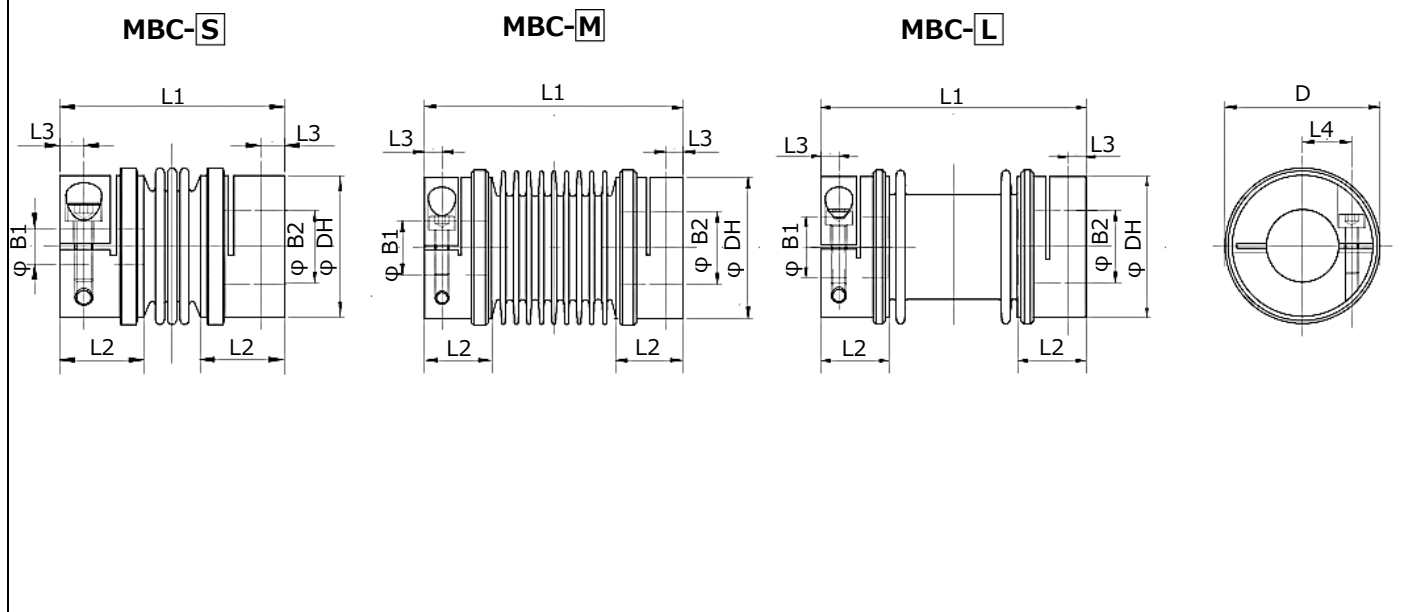


MBC type

- **Clamp 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**



● MBC-□-19, -25, -33, -41



- MBC 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 MBC type

MBC			Coupling size of MBC -											
			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	330	380	350	925	1,078	938	2,390	2,660	2,377
Misignment	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	16	18	17	34	38	33	56	63	57	99	107	99
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	3.0			4.0			3.8			4.9		
	from bore to screw	L4	6.1			8.0			10.8			13.4		
Cap screws**	Size		M2.5			M3			M3			M4		
	Recommended tightening torque	Nm	1.32			2.21			2.21			5.06		

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

Bores for MBC type

Inner diameter			Coupling size of MBC -																
			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
MBC	-	S	-	41	-	8	×	20

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