MBB Flexible Couplings - Bellows Type 2 0 2 Zero Backlash High torque 2 High Rigidity

Structure

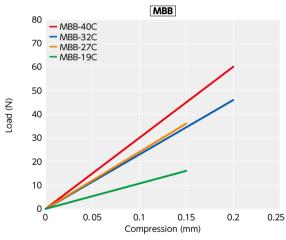
Clamping Type

MBB-C Aluminum alloy hub

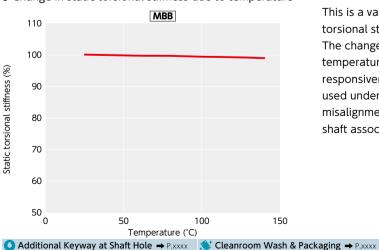


Material/Finish	∅ RoHS
	MBB
Hub	A2017 Anodized*1
Bellows	SUS304
Hex Socket Head Cap Screw	SCM435 Ferrosoferric Oxide Film (Black)

- *1: Due to manufacturing process requirements, couplings may have bores with or without surface treatment. This does not affect the performance of the couplings.
- Eccentric Reaction Force



• Change in static torsional stiffness due to temperature



Applicable motors

	MBB
Servomotor	0
Stepping Motor	0
General-purpose Motor	•

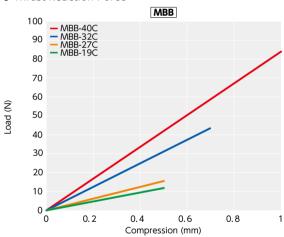
②: Excellent ●: Available

		MBB
Zero Backlash		0
Allowable Misa	lignment	0

- misalignment, and end-play.
- The bellows is stainless steel.
- Application

Actuator / High precision XY stage / Semiconductor devices / Encoder

• Thrust Reaction Force



This is a value under the condition where the static torsional stiffness at 20℃ is 100%.

The change of **MBB** in torsional stiffness due to temperature is small and the change in responsiveness is extremely small. If the unit is used under higher temperature, be careful about misalignment due to elongation or deflection of the shaft associated with thermal expansion.

	MBB
romotor	0
oping Motor	0
eral-purpose Motor	•

Property

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- This is a bellows type flexible coupling.
- The bellows allows eccentricity, angular

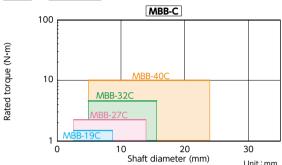
Please feel free to contact us

Change to Stainless Steel Screw → P.xxxx

Selection

Selection Example

In case of selected parameters of shaft diameter of ϕ 10 and load torque of 2 N·m, the selected size for MBB is MBB-27C.



Dimensions

																	Unit: mm
Part Number 411	3≦D≦8 3≦D≦14		Α	L	W		E	F		G		M	Wrenc	hTorque	e(N·m)		
MBB-19C			19	10.5	30		12	3		6.75		M2	0.5				
MBB-27C			27	12.5	35		17	3.5		10.25		M2.5	0.9				
MBB-32C				32	15.5	46		22 4.25 12 M3 1.5		1.5	.5						
MBB-40C	5≦D≦2	20			16	51		00	5	_			M4	3.5			
MDD-40C	20 <d≦< td=""><td>≦24</td><td colspan="2">40</td><td>51</td><td></td><td>28</td><td>5</td><td></td><td colspan="2">15</td><td>M3</td><td colspan="2">1.5</td><td></td></d≦<>	≦24	40			51		28	5		15		M3	1.5			
Part Number	Standard Bore Diameter D1 · D2 • 2																
rait Number	3	4	5	6	8	10	12	. 14	ļ	15	16		17	19	20	22	24
MBB-19C	•	•	•	•	•												
MBB-27C	•	•	•	•	•	•	•	•									
MBB-32C			•	•	•	•	•	•	•		•						
MBB-40C			•	•	•	•	•	•		•	•		•	•	•	•	•
David Missaalis au	Standard Bore Diameter D1 · D2 • 2																
Part Number	1/8		3/16		1/4	3	3/8		1/	2		5/	8	3/4		7/8	
MBB-19C	•		•		•												

• For the shaft insertion amount to the coupling, see Mounting/maintenance.

Performance

MBB-27C

MBB-32C

MBB-40C

- 1										
I	Part Number	Diameter		Max. Rotational Frequency (min ⁻¹)	of Inertia	Lorgional	Max. Lateral Misalignment (mm)	Max. Angular Misalignment (°)		Mass*2 (g)
	MBB-19C	8	1.5	33000	8.6×10 ⁻⁷	170	0.15	1.5	±0.5	16
ı	MBB-27C	14	2.3	23000	3.6×10 ⁻⁶	800	0.15	1.5	±0.5	32
ı	MBB-32C	16	4.5	19000	1.1×10 ⁻⁵	1600	0.2	1.5	±0.7	68
ı	MBB-40C	24	10	15000	2.8×10 ⁻⁵	2700	0.2	1.5	±1	110

- *1: Correction of rated torque due to load fluctuation is not required.
- *2: These are values with max. bore diameter.

• Part number specification





 Slip Torque Concerning the sizes shown in the table, please note that the shaft's slip torque is smaller than the

rated torque of MBB-C.									
Part Number	Bore Diameter (
Part Number	3	5	6						
MBB-19C	0.8								
MBB-32C		2	4.2						
MBB-40C		9.8							

 These are test values based on the condition of shaft's dimensional allowance: h7, hardness: from 34 - 40 HRC, and screw tightening torque of the values described in MBB-C dimensional table.

Please feel free to contact us

Not Available