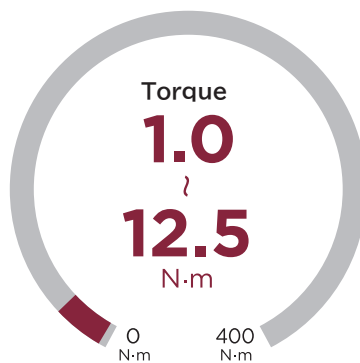
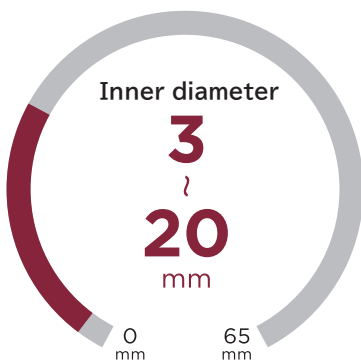


# Bellows Couplings

## MB series

MB / MBC



Multi  
**MB-M**



Set screw

Short  
**MB-S**



Set screw

Long  
**MB-L**



Set screw

Multi  
**MBC-M**



Clamp

Short  
**MBC-S**

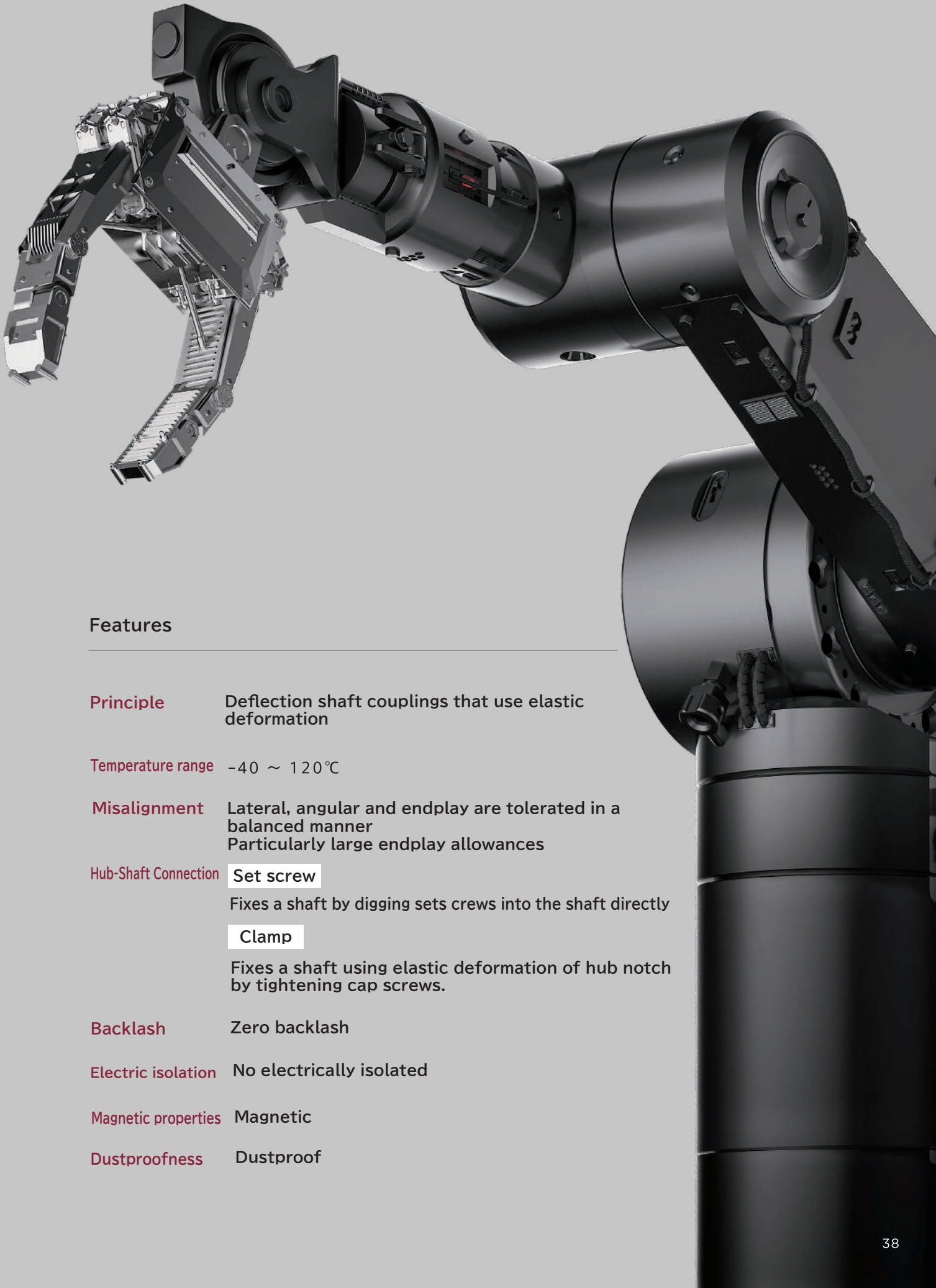


Clamp

Long  
**MBC-L**



Clamp



## Features

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<b>Principle</b>	Deflection shaft couplings that use elastic deformation
<b>Temperature range</b>	-40 ~ 120°C
<b>Misalignment</b>	Lateral, angular and endplay are tolerated in a balanced manner Particularly large endplay allowances
<b>Hub-Shaft Connection</b>	<div>Set screw</div> <div>Fixes a shaft by digging sets crews into the shaft directly</div> <div>Clamp</div> <div>Fixes a shaft using elastic deformation of hub notch by tightening cap screws.</div>
<b>Backlash</b>	Zero backlash
<b>Electric isolation</b>	No electrically isolated
<b>Magnetic properties</b>	Magnetic
<b>Dustproofness</b>	Dustproof

INNER  
DIA.  
[mm]

## Bellows Couplings

# MB/ MBC

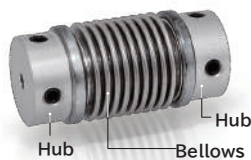
Coupling size

**19 ~ 41**

Inner diameter G6

**3 ~ 20 mm**

Torque

**1.0 ~ 12.5 N·m**Multi  
**MB-M**

Set screw

Short  
**MB-S**

Set screw

Long  
**MB-L**

Set screw

Multi  
**MBC-M**

Clamp

Short  
**MBC-S**

Clamp

Long  
**MBC-L**

Clamp

## Specifications

Type	Size	Torque [N·m]	Lateral [mm]	Angular [°]	Endplay [mm]	Inertia [kg·m <sup>2</sup> ×10 <sup>-8</sup> ]	Rotation spring constant [N·m/rad]	Lateral spring constant [N/mm]	Angular spring constant [N/deg]	Endplay spring constant [N/mm]	Mass [g]
MB	19	1.0	0.50	6	1.00	100	170	6.7	0.33	7.8	19
MBC		1.0	0.50	6	1.00	100	170	6.7	0.33	7.8	18
MB		2.0	0.06	2	0.35	90	315	115	1.03	17.7	18
MBC		2.0	0.06	2	0.35	90	315	115	1.03	17.7	16
MB		2.5	0.20	1.3	0.20	90	225	8.2	0.33	7.1	18
MBC		2.5	0.20	1.3	0.20	90	225	8.2	0.33	7.1	17
MB	25	1.6	0.50	6	1.00	400	380	8.2	0.39	3.3	39
MBC		1.6	0.50	6	1.00	380	380	8.2	0.39	3.3	38
MB		3.2	0.06	2	0.36	350	755	238	1.27	5.7	35
MBC		3.2	0.06	2	0.36	330	755	238	1.27	5.7	34
MB		4.0	0.20	1.3	0.20	370	615	14.6	1.52	6.4	34
MBC		4.0	0.20	1.3	0.20	350	615	14.6	1.52	6.4	33
MB	33	3.8	1.00	8	1.90	1,128	915	12.7	0.62	3.8	65
MBC		3.8	1.00	8	1.90	1,078	915	12.7	0.62	3.8	63
MB		7.5	0.10	2.5	0.60	975	1,740	227	1.34	6.6	58
MBC		7.5	0.10	2.5	0.60	925	1,740	227	1.34	6.6	56
MB		9.4	0.30	1.5	0.30	988	1,455	23.2	1.98	27.9	59
MBC		9.4	0.30	1.5	0.30	938	1,455	23.2	1.98	27.9	57
MB	41	5.0	1.20	8	2.50	2,740	1,310	9.3	0.52	3.8	110
MBC		5.0	1.20	8	2.50	2,660	1,310	9.3	0.52	3.8	107
MB		10.0	0.15	2.5	0.80	2,490	2,880	144	1.58	13.1	102
MBC		10.0	0.15	2.5	0.80	2,390	2,880	144	1.58	13.1	99
MB		12.5	0.40	1.8	0.50	2,477	2,245	19.2	2.30	7.2	102
MBC		12.5	0.40	1.8	0.50	2,377	2,245	19.2	2.30	7.2	99

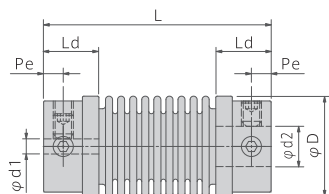
## Comparative properties

◎ = excellent ○ = good

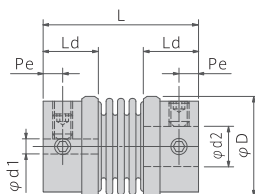
Type	Torque	Rotation spring constant	Misalignment		
			Angular	Lateral	Endplay
M			◎	◎	◎
S	○	◎	○		○
L	◎	○		○	

## Drawings

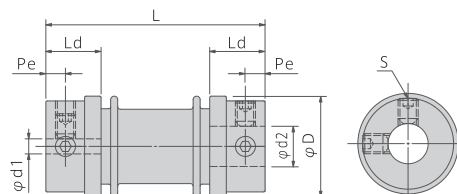
MB-M-19 MB-M-25  
MB-M-33 MB-M-41



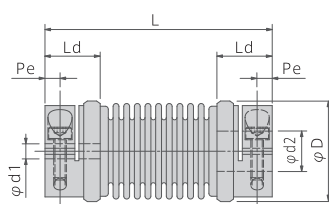
MB-S-19 MB-S-25  
MB-S-33 MB-S-41



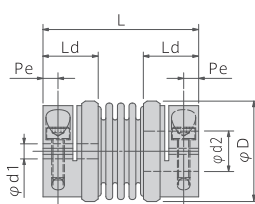
MB-L-19 MB-L-25  
MB-L-33 MB-L-41



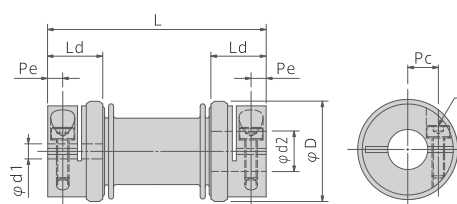
MBC-M-19 MBC-M-25  
MBC-M-33 MBC-M-41



MBC-S-19 MBC-S-25  
MBC-S-33 MBC-S-41



MBC-L-19 MBC-L-25  
MBC-L-33 MBC-L-41



## Dimensions

Type	Size	Shaft bore diameter	Overall length	Outer diameter	Mounting length	Distance	Distance	Set screw	Cap screw	Tightning torque
		d1, d2 [mm]	L [mm]	D [mm]	Ld [mm]	Pe [mm]	Pc [mm]	S [mm]	S [mm]	[N·m]
MB	M	3~8	45.2	20.0	11.0	3.9	—	M4	—	2.0
MBC			45.2	20.0	11.0	3.0	6.1	—	M2.5	1.2
MB	S	3~8	31.0	20.0	11.0	3.9	—	M4	—	2.0
MBC			31.0	20.0	11.0	3.0	6.1	—	M2.5	1.2
MB	L	3~8	43.6	20.0	11.0	3.9	—	M4	—	2.0
MBC			43.6	20.0	11.0	3.0	6.1	—	M2.5	1.2
MB	M	4~12	54.3	26.0	14.0	5.0	—	M5	—	3.9
MBC			54.3	26.0	14.0	4.1	8.0	—	M3	2.1
MB	S	4~12	37.5	26.0	14.0	5.0	—	M5	—	3.9
MBC			37.5	26.0	14.0	4.1	8.0	—	M3	2.1
MB	L	4~12	53.2	26.0	14.0	5.0	—	M5	—	3.9
MBC			53.2	26.0	14.0	4.1	8.0	—	M3	2.1
MB	M	6~16	57.0	34.0	14.0	5.0	—	M5	—	3.9
MBC			57.0	34.0	14.0	3.6	10.8	—	M3	2.1
MB	S	6~16	40.0	34.0	14.0	5.0	—	M5	—	3.9
MBC			40.0	34.0	14.0	3.6	10.8	—	M3	2.1
MB	L	6~16	56.6	34.0	14.0	5.0	—	M5	—	3.9
MBC			56.6	34.0	14.0	3.6	10.8	—	M3	2.1
MB	M	8~20	71.4	41.0	18.0	7.0	—	M6	—	6.5
MBC			71.4	41.0	18.0	4.9	13.5	—	M4	4.8
MB	S	8~20	49.7	41.0	18.0	7.0	—	M6	—	6.5
MBC			49.7	41.0	18.0	4.9	13.5	—	M4	4.8
MB	L	8~20	70.7	41.0	18.0	7.0	—	M6	—	6.5
MBC			70.7	41.0	18.0	4.9	13.5	—	M4	4.8

## Materials

All types	Hub		Bellows	Connections	
	Materials	Surface treatment	Materials	Materials	Surface treatment
	Al alloy	Non-chrome conversion coating	Stainless steel	Copper alloy	zinc plating