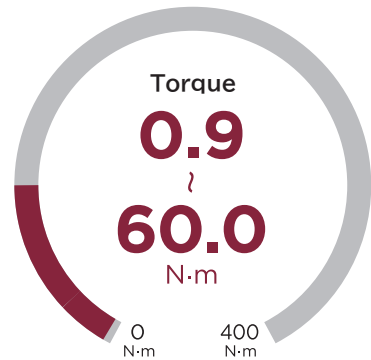
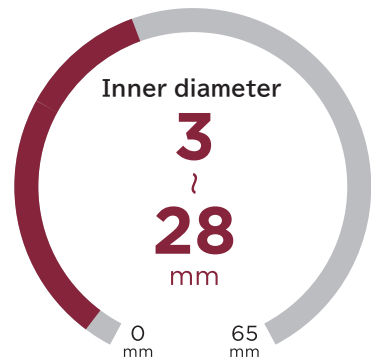


Discpack Couplings

MX series

MX / MXC / MXB / MXBC



rivet assembly
MX



Set screw

rivet assembly
MXC



Clamp

bolt assembly
MXB



Set screw

bolt assembly
MXBC



Clamp

Features

Principle	Deflection shaft couplings that use elastic deformation of one or more discpacks (discs) to allow misalignment
Temperature range	-40 ~ 120℃
Misalignment	S: Allow angular and endplay D・L: Lateral, angular and endplay are tolerated in a balanced manner
Hub-Shaft Connection	<div>Set screw</div> <p>Fixes a shaft by digging sets crews into the shaft directly</p> <div>Clamp</div> <p>Fixes a shaft using elastic deformation of hub notch by tightening cap screws</p>
Body size	Relatively short in length
Backlash	Zero backlash
Electric isolation	No electrically isolated
Magnetic properties	Magnetic
Dustproofness	Dustproof



Discpack couplings

MX/ MXC

Coupling size

19 ~ 41

Inner diameter G6

3 ~ 16 mm

Torque

0.9 ~ 11.3 N·m

Specifications

Type	Size	Torque	Lateral	Angular	Endplay	Inertia	Rotation spring constant	Lateral spring constant	Angular spring constant	Endplay spring constant	Mass
		[N·m]	[mm]	[°]	[mm]	[kg·m²×10⁻⁴]	[N·m/rad]	[N/mm]	[N/deg]	[N/mm]	[g]
MX	S	0.9	—	2	0.1	30	220	—	0.40	< 7	7
MXC		0.9	—	2	0.1	40	220	—	0.40	< 7	9
MX		0.9	0.2	4	0.2	50	150	14	0.25	< 7	10
MXC		0.9	0.2	4	0.2	60	150	14	0.25	< 7	13
MX	D	0.9	0.4	4	0.2	60	145	4	0.30	< 7	12
MXC		0.9	0.4	4	0.2	60	145	4	0.30	< 7	14
MX	L	2.3	—	2	0.1	120	585	—	0.75	< 7	15
MXC		2.3	—	2	0.1	130	585	—	0.75	< 7	16
MX		2.3	0.2	4	0.2	160	385	37	0.50	< 7	18
MXC		2.3	0.2	4	0.2	160	385	37	0.50	< 7	20
MX	S	2.3	0.4	4	0.2	200	400	7	0.40	< 7	23
MXC		2.3	0.4	4	0.2	210	400	7	0.40	< 7	25
MX	D	5.6	—	1.5	0.1	560	1,560	—	2.00	< 8	37
MXC		5.6	—	1.5	0.1	520	1,560	—	2.00	< 8	37
MX		5.6	0.2	3	0.2	800	935	48	1.00	< 8	52
MXC		5.6	0.2	3	0.2	730	935	48	1.00	< 8	51
MX	L	5.6	0.4	3	0.2	830	980	13	1.20	< 8	55
MXC		5.6	0.4	3	0.2	760	980	13	1.20	< 8	55
MX	S	11.3	—	1	0.1	1,540	2,710	—	4.00	< 8	69
MXC		11.3	—	1	0.1	1,530	2,710	—	4.00	< 8	72
MX		11.3	0.2	2	0.2	2,250	1,980	100	2.00	< 8	97
MXC		11.3	0.2	2	0.2	2,220	1,980	100	2.00	< 8	100
MX	D	11.3	0.4	2	0.2	2,450	2,020	25	2.00	< 8	107
MXC		11.3	0.4	2	0.2	2,370	2,020	25	2.00	< 8	109

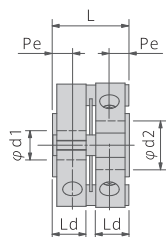
Comparative properties

◎ = excellent ○ = good

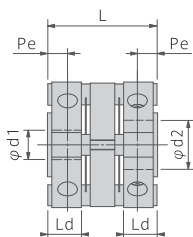
Type	Rotation spring constant	Misalignment		
		Angular	Lateral	Endplay
S	◎	○		○
D	○	◎	○	◎
L	○	◎	◎	◎

Drawings

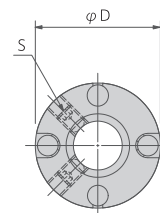
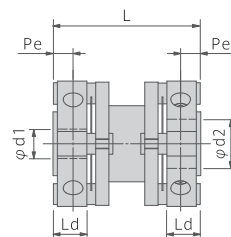
MX-S-19 MX-S-25
MX-S-33 MX-S-41



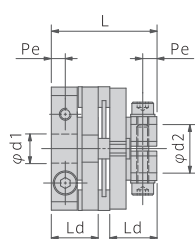
MX-D-19 MX-D-25
MX-D-33 MX-D-41



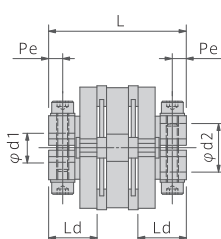
MX-L-19 MX-L-25
MX-L-33 MX-L-41



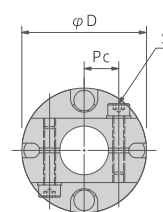
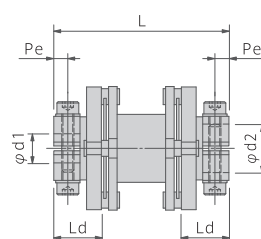
MXC-S-19 MXC-S-25
MXC-S-33 MXC-S-41



MXC-D-19 MXC-D-25
MXC-D-33 MXC-D-41



MXC-L-19 MXC-L-25
MXC-L-33 MXC-L-41



Dimensions

Type		Size	Shaft bore diameter d1, d2 [mm]	Overall length L [mm]	Outer diameter D [mm]	Mounting length Ld [mm]	Distance Pe [mm]	Distance Pc [mm]	Set screw S [mm]	Cap screw S [mm]	Tightning torque [N·m]
MX	S	19	3~6	13.0	19.2	5.6	3.3	—	M3	—	0.72
MXC	S		3~6	20.2	19.2	9.2	2.5	4.7	—	M2.5	1.2
MX	D		3~6	19.6	19.2	5.6	3.3	—	M3	—	0.72
MXC	D		3~6	26.8	19.2	9.2	2.5	4.7	—	M2.5	1.2
MX	L	25	3~6	27.3	19.2	5.6	3.3	—	M3	—	0.72
MXC	L		3~6	34.5	19.2	9.2	2.5	4.7	—	M2.5	1.2
MX	S		4~10	15.8	25.6	7.0	4.1	—	M4	—	2.0
MXC	S		4~10	21.8	25.6	10.0	2.9	7.1	—	M2.5	1.2
MX	D		4~10	22.4	25.6	7.0	4.1	—	M4	—	2.0
MXC	D		4~10	28.4	25.6	10.0	2.9	7.1	—	M2.5	1.2
MX	L	33	4~10	30.1	25.6	7.0	4.1	—	M4	—	2.0
MXC	L		4~10	36.1	25.6	10.0	2.9	7.1	—	M2.5	1.2
MX	S		6~12	22.5	33.5	10.0	5.9	—	M5	—	3.9
MXC	S		6~12	30.5	33.5	14.0	4.0	8.6	—	M3	2.1
MX	D		6~12	32.1	33.5	10.0	5.9	—	M5	—	3.9
MXC	D		6~12	40.1	33.5	14.0	4.0	8.6	—	M3	2.1
MX	L	41	6~12	42.8	33.5	10.0	5.9	—	M5	—	3.9
MXC	L		6~12	50.8	33.5	14.0	4.0	8.6	—	M3	2.1
MX	S		8~16	27.1	41.5	12.0	7.0	—	M6	—	6.5
MXC	S		8~16	37.1	41.5	17.0	4.7	10.6	—	M4	4.8
MX	D		8~16	38.5	41.5	12.0	7.0	—	M6	—	6.5
MXC	D		8~16	48.5	41.5	17.0	4.7	10.6	—	M4	4.8
MX	L	41	8~16	50.1	41.5	12.0	7.0	—	M6	—	6.5
MXC	L		8~16	60.1	41.5	17.0	4.7	10.6	—	M4	4.8

Materials

All types	Hub		Disc pack	Rivet
	Materials	Surface treatment	Materials	Materials
	Al alloy	Non-chrome conversion coating	Stainless steel	Free-cutting brass



Discpack couplings

MXB/ MXBC

Coupling size

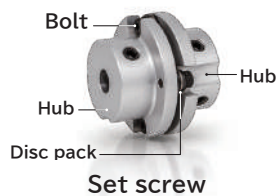
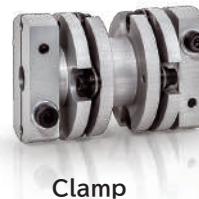
41 ~ 66

Inner diameter G6

8 ~ 28 mm

Torque

11.3 ~ 60.0 N·m

Single
MXB-SDouble
MXB-DLong
MXB-LSingle
MXBC-SDouble
MXBC-DLong
MXBC-L

Specifications

Type	Size	Torque	Lateral	Angular	Endplay	Inertia	Rotation	Lateral	Angular	Endplay	Mass
		[N·m]	[mm]	[°]	[mm]	[kg·m ² ×10 ⁻⁸]	spring constant [N·m/rad]	spring constant [N/mm]	spring constant [N/deg]	spring constant [N/mm]	[g]
MXB	41	11.3	—	1	0.1	1,160	4,000	—	3.7	< 8	63
MXBC		11.3	—	1	0.1	1,400	4,000	—	3.7	< 8	74
MXB		11.3	0.2	2	0.2	1,680	2,800	97.0	1.6	< 8	90
MXBC		11.3	0.2	2	0.2	2,010	2,800	97.0	1.6	< 8	101
MXB		11.3	0.4	2	0.2	1,790	2,600	23.0	1.6	< 8	101
MXBC		11.3	0.4	2	0.2	2,250	2,600	23.0	1.6	< 8	112
MXB	52	30.0	—	1	0.1	3,740	7,500	—	10.0	< 9	124
MXBC		30.0	—	1	0.1	5,660	7,500	—	10.0	< 9	164
MXB		30.0	0.2	2	0.2	5,490	4,800	313	5.0	< 9	168
MXBC		30.0	0.2	2	0.2	7,470	4,800	313	5.0	< 9	208
MXB		30.0	0.4	2	0.2	6,840	4,800	57.0	5.0	< 9	208
MXBC		30.0	0.4	2	0.2	8,870	4,800	57.0	5.0	< 9	247
MXB	66	60.0	—	1	0.1	13,370	19,000	—	84.0	< 9	272
MXBC		60.0	—	1	0.1	14,200	19,000	—	84.0	< 9	269
MXB		60.0	0.2	2	0.2	18,040	12,000	379	23.0	< 9	272
MXBC		60.0	0.2	2	0.2	19,300	12,000	379	23.0	< 9	357
MXB		60.0	0.4	2	0.2	23,400	12,000	93.0	23.0	< 9	447
MXBC		60.0	0.4	2	0.2	24,320	12,000	93.0	23.0	< 9	444

Comparative properties

◎ = excellent ○ = good

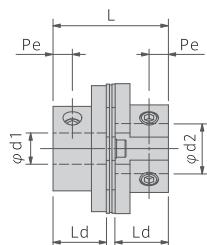
Type	Rotation spring constant	Misalignment		
		Angular	Lateral	Endplay
S	◎	○		○
D	○	◎	○	◎
L	○	◎	◎	◎

Drawings

MXB-S-41

MXB-S-52

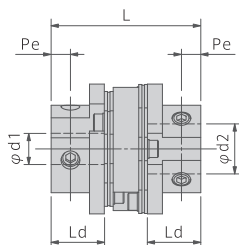
MXB-S-66



MXB-D-41

MXB-D-52

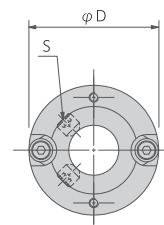
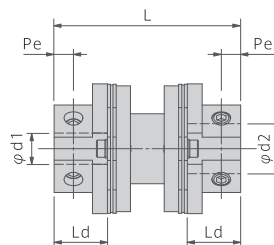
MXB-D-66



MXB-L-41

MXB-L-52

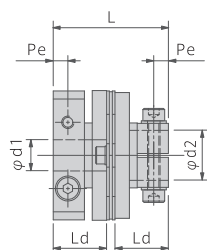
MXB-L-66



MXBC-S-41

MXBC-S-52

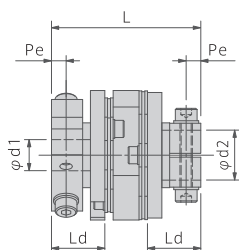
MXBC-S-66



MXBC-D-41

MXBC-D-52

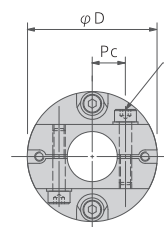
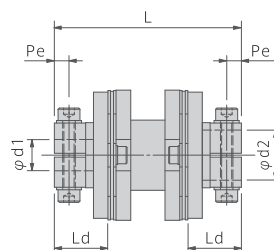
MXBC-D-66



MXBC-L-41

MXBC-L-52

MXBC-L-66



Dimensions

Type		Size	Shaft bore diameter	Overall length	Outer diameter	Mouting 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]
MXB	S	41	8~16	36.9	41.5	17.1	6.2	—	M6	—	6.5
MXBC			8~16	36.9	41.5	17.1	4.7	10.6	—	M4	4.8
MXB	D		8~16	47.9	41.5	17.1	6.2	—	M6	—	6.5
MXBC			8~16	47.9	41.5	17.1	4.7	10.6	—	M4	4.8
MXB	L		8~16	59.7	41.5	17.1	6.2	—	M6	—	6.5
MXBC			8~16	59.7	41.5	17.1	4.7	10.6	—	M4	4.8
MXB	S	52	8~20	44.2	52.0	20.0	6.6	—	M6	—	6.5
MXBC			8~20	50.0	52.0	22.9	6.0	13.5	—	M5	9.6
MXB	D		8~20	55.0	52.0	20.0	6.6	—	M6	—	6.5
MXBC			8~20	60.8	52.0	22.9	6.0	13.5	—	M5	9.6
MXB	L		8~20	72.4	52.0	20.0	6.6	—	M6	—	6.5
MXBC			8~20	78.1	52.0	22.9	6.0	13.5	—	M5	9.6
MXB	S	66	12~28	60.4	66.0	28.0	8.5	—	M8	—	15.2
MXBC			12~28	56.4	66.0	26.0	6.5	18.0	—	M5	9.6
MXB	D		12~28	73.6	66.0	28.0	8.5	—	M8	—	15.2
MXBC			12~28	69.6	66.0	26.0	6.5	18.0	—	M5	9.6
MXB	L		12~28	94.7	66.0	28.0	8.5	—	M8	—	15.2
MXBC			12~28	90.7	66.0	26.0	6.5	18.0	—	M5	9.6

Materials

All types	Hub		Disc pack
	Materials	Surface treatment	Materials
	Al alloy	Non-chrome conversion coating	Stainless steel