

PRECISION COUPLINGS

MOTION
CONTROL

POWER
TRANSMISSION



MOTION CONTROL

Special features	Slit Type						Bellows Type		
	MST	MSTS	MSX	MWS	MWSS	MSH	MBB	MFB	MFBS
									
Page	3-5		6-7	8-9		10	11	12-13	
Zero Backlash	○	○	○	○	○	○	○	○	○
High Gain Supported	●	●	○	●	●	●		●	●
High Torque	●	●	●	●	●	●		●	●
Allowable Misalignment	●	●				●	●	●	●

Special features	Disk Type		Disk XH Type			Rubber Type	
	XBSS	XBWS	XHW-C	XHW-C-L	XHS	XG	XGHW
							
Page	14-15		16-17			18	19
Zero Backlash	○	○	○	○	○	○	○
High Gain Supported	○	○	○	○	○	●	○
High Torque	○	○	○	●	●	●	○
Allowable Misalignment			●	●		○	●
Vibration Absorption						○	○
Stainless Steel	○	○					

POWER TRANSMISSION

Special features	Jaw Type			Oldham Type				Cross Joint Type
	MJC	MJS	MJB	MOC	MOL	MOM	MOR	XUT
								
Page	21-26	27	28	29	30-31	32-33	34	35
Zero Backlash	●	●	●					●
High Gain Supported					●	●	●	○
High Torque	○	○	○	○	○	●	●	●
Allowable Misalignment	●	●	●	○	○	○	○	●
Vibration Absorption	●	●	●		●	●	●	●
Electrical Insulation	○				○		○	

○ Excellent ● Very good



Nabeya Bi-tech Kaisha (JAPAN)

MST

Miniature Stil Type Flexible Coupling



Characteristics

- Metal spring coupling with single-piece construction
- Transmission with zero backlash at low torque
- Elastic absorption of angular and parallel misalignments and axial clearance
- High torsional stiffness
- Identical rotational features in both directions
- No maintenance needed, resistant to oil and chemical substances
- Available in aluminium alloy or stainless steel
- Exterior diameters from 8mm to 63mm – wide range
- Finished bores available in stock

Structure and material

Set Screw Type

MST / MSTS



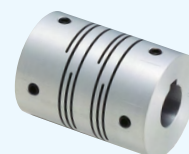
Clamping type

MST-C / MSTS-C



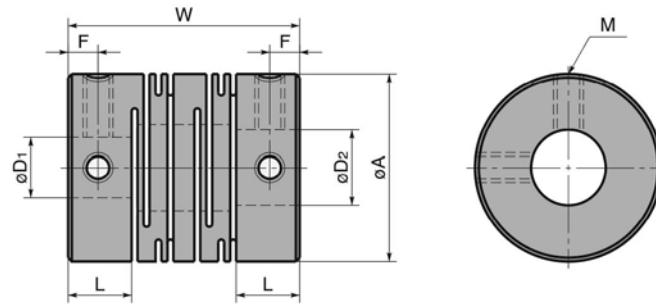
Keyway type

MST-K / MSTS-K



Material	Finish		
	Set Screw Type	Clamping type	Keyway type
Aluminium alloy	MST	MST -C	MST -K
Stainless steel	MSTS	MSTS -C	MSTS-K

MST / MSTs Set Screw



Dimensions

Type	A	L	W	F	M	Screw Tightening Torque (N·m)	Standard bore diameter D1 X D2							
MST - 8	8	3.5	14	1.7	M2	0.3	2 x 2	2 x 3	3 x 3					
MSTs - 8														
MST - 12	12	5	18.5	2.5	M2.5	0.5	3 x 3	3 x 4	4 x 4	4 x 5	4.5 x 5	5 x 5	5 x 6	
MSTs - 12														
MST - 16	16	6.5	23	3	M3	0.7	4 x 4	4 x 5	4 x 6	4.5 x 5	5 x 5	5 x 6		
MSTs - 16							5 x 8	6 x 6	6 x 6.35	6 x 7	6 x 8	6.35 x 8		
MST - 20	20	7.5	26	3	M3	0.7	5 x 5	5 x 6	5 x 8	6 x 6	6 x 6.35	6 x 7	6 x 8	6 x 10
MSTs - 20							6.35 x 8	8 x 8	8 x 9.525	8 x 10	10 x 10			
MST - 25	25	8.5	31	4	M4	1.7	5 x 6	6 x 6	6 x 6.35	6 x 8	6 x 10	6.35 x 8	6.35 x 10	8 x 8
MSTs - 25							8 x 9.525	8 x 10	8 x 12	9.525 x 10	10 x 10	10 x 11	10 x 12	12 x 12
MST - 32	32	12	41	6	M4	1.7	6 x 8	6.35 x 8	8 x 8	8 x 10	8 x 12	9.525 x 12		
MSTs - 32							10 x 10	10 x 11	10 x 12	10 x 14	12 x 12	12 x 14	14 x 14	14 x 16
MST - 40	40	17	56	8.5	M5	4	8 x 9.525	10 x 10	12 x 12	14 x 14				
MSTs - 40							15 x 15	16 x 16	16 x 18	18 x 18				
MST - 50	50	21	71	10.5	M6	7	12 x 12	14 x 14	15 x 15	16 x 18				
MSTs - 50														
MST - 63	63	26	90	13	M8	15	14 x 14							
MSTs - 63														

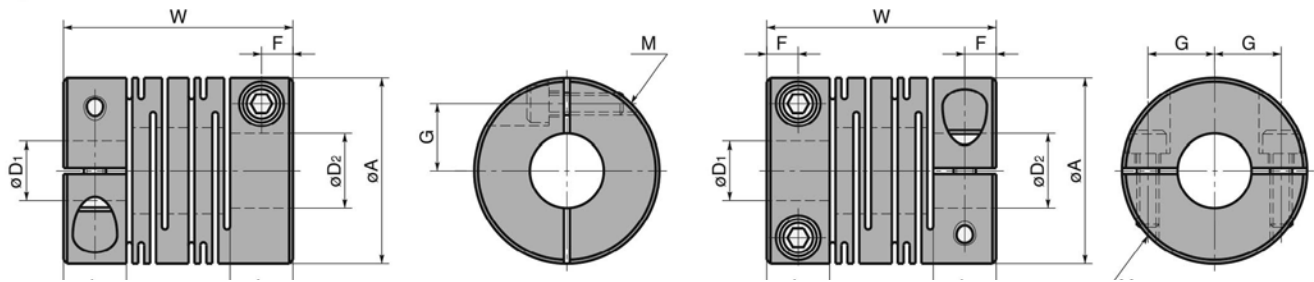
- All products are provided with hex socket set screws
- Recommended tolerance for shaft diameters is H6 and H7
- A set of hubs with set screw type for one side and clamping type or other type for the other side is available upon request
- In a case where the bore diameter is 4 mm or less, the set screw is used in only one place

Performance

Type	Max. Bore (mm)	Rated Torque (N·m)	Max. Torque (N·m)	Max. Rotational Frequency (min^{-1})	Moment of inertia* ($\text{kg}\cdot\text{m}^2$)	Static Torsional Stiffness (N·m/rad)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment ($^\circ$)	Max. Axial Misalignment (mm)	Mass* (g)
MST - 8	4	0.1	0.2	78000	1.2×10^{-8}	25	0.10	2	± 0.2	1.4
MST - 12	6	0.4	0.8	52000	8.3×10^{-8}	35	0.10	2	± 0.3	3.7
MST - 16	8	0.5	1	39000	3.3×10^{-7}	47	0.10	2	± 0.4	8.1
MST - 20	10	1	2	31000	9.0×10^{-7}	120	0.10	2	± 0.4	14
MST - 25	12	2	4	25000	2.6×10^{-6}	170	0.15	2	± 0.5	27
MST - 32	16	4	8	19000	9.6×10^{-6}	280	0.15	2	± 0.5	60
MST - 40	20	8	16	15000	3.2×10^{-5}	350	0.20	2	± 0.5	130
MST - 50	25	16	32	12000	1.0×10^{-4}	590	0.20	2	± 0.5	260
MST - 63	35	32	64	10000	3.2×10^{-4}	850	0.20	2	± 0.5	490
MSTs - 8	4	0.2	0.4	78000	3.1×10^{-8}	50	0.10	2	± 0.2	3
MSTs - 12	6	0.3	0.6	52000	2.1×10^{-7}	64	0.10	2	± 0.3	9.3
MSTs - 16	8	0.5	1	39000	8.4×10^{-7}	85	0.10	2	± 0.3	21
MSTs - 20	10	1	2	31000	2.4×10^{-6}	250	0.10	2	± 0.3	38
MSTs - 25	12	2	4	25000	6.8×10^{-6}	330	0.15	2	± 0.4	71
MSTs - 32	16	3.5	7	19000	2.6×10^{-5}	850	0.15	2	± 0.5	160
MSTs - 40	220	8/	16	15000	8.7×10^{-5}	1000	0.20	2	± 0.5	350
MSTs - 50	25	15	30	12000	2.7×10^{-4}	1400	0.20	2	± 0.5	700
MSTs - 63	35	35	70	10000	8.4×10^{-4}	1800	0.20	2	± 0.5	1300

*These are values with max. bore diameter.

MST-C / MSTS-C Clamping



Dimensions

Type	A	L	W	F	G	M	Screw Tightening Torque (N·m)	Standard bore diameter D ₁ X D ₂							
MST - 12C	12	5	18.5	2.5	4	M2	0.5	4 x 4	4 x 5	4.5 x 5	5 x 5				
MSTS - 12C															
MST - 16C	16	6.5	23	3.25	5	M2.5	1	4.5 x 5	4.5 x 6	5 x 5	5 x 6	6 x 6			
MSTS - 16C															
MST - 20C	20	7.5	26	3.75	6.5	M2.5	1	5 x 6	5 x 6.35	5 x 7	5 x 8	6 x 6	6 x 6.35	6 x 7	6 x 8
MSTS - 20C								6.35 x 8	8 x 8						
MST - 25C	25	8.5	31	4.25	9	M3	1.5	5 x 6	6 x 6	6 x 6.35	6 x 8	6 x 10	6.35 x 8	6.35 x 10	8 x 8
MSTS - 25C									8 x 10	9.525 x 10	10 x 10				
MST - 32C	32	12	41	6	11	M4	2.5	8 x 9.525	8 x 9.525	8 x 10	8 x 12	9.525 x 10	9.525 x 12	10 x 10	10 x 11
MSTS - 32C								8 x 8	10 x 14	12 x 12	12 x 14				
MST - 40C	40	17	56	8.5	14	M5	4	10 x 12	12 x 12	12 x 14	14 x 14	14 x 16	15 x 15	16 x 16	
MSTS - 40C								8 x 8	10 x 10	15 x 16					
MST - 50C	50	21	71	10.5	18	M6	8	8 x 10	14 x 14	15 x 15	16 x 16	18 x 18			
MSTS - 50C								12 x 14							
MST - 63C	63	26	90	13	24	M8	16		16 x 16	18 x 18					
MSTS - 63C								14 x 14							

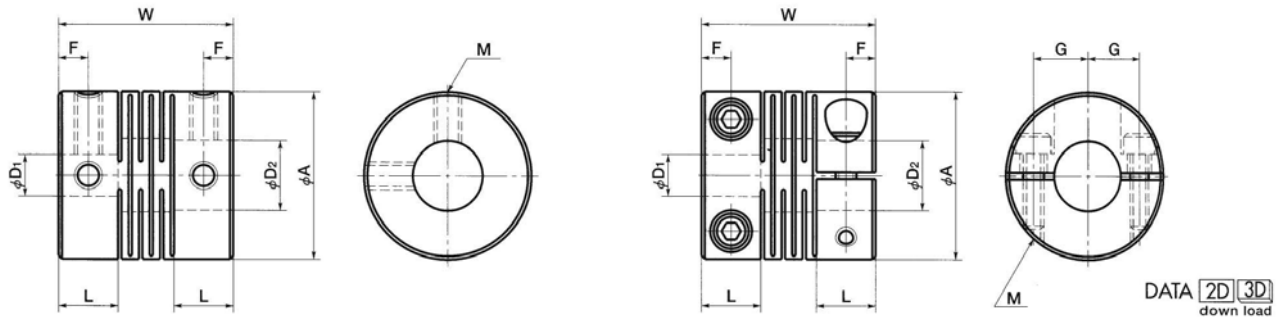
- All products are provided with hex socket set screws
- Recommended tolerance for shaft diameters is H6 and H7
- Non-standard hubs and keyways are mechanised upon request

Performance

Type	Max. Bore (mm)	Rated Torque (N·m)	Max. Torque (N·m)	Max. Rotational Frequency (min ⁻¹)	Moment of inertia* (kg·m ²)	Static Torsional Stiffness (N·m/rad)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment (°)	Max. Axial Misalignment (mm)	Mass* (g)
MST - 12C	5	0.4	0.8	52000	7.8 x 10 ⁻⁸	35	0.10	2	± 0.3	3.6
MST - 16C	6	0.5	1	39000	3.4 x 10 ⁻⁷	47	0.10	2	± 0.4	9.2
MST - 20C	8	1	2	31000	9.1 x 10 ⁻⁷	120	0.10	2	± 0.4	16
MST - 25C	10	2	4	25000	2.6 x 10 ⁻⁶	170	0.15	2	± 0.5	28
MST - 32C	14	4	8	19000	9.7 x 10 ⁻⁶	280	0.15	2	± 0.5	64
MST - 40C	18	8	16	15000	3.3 x 10 ⁻⁵	350	0.20	2	± 0.5	140
MST - 50C	22	16	32	12000	1.0 x 10 ⁻⁴	590	0.20	2	± 0.5	270
MST - 63C	30	32	64	10000	3.2 x 10 ⁻⁴	850	0.20	2	± 0.5	530
MSTS - 12C	5	0.3	0.6	52000	2.2 x 10 ⁻⁷	64	0.10	2	± 0.2	10
MSTS - 16C	6	0.5	1	39000	9.0 x 10 ⁻⁷	85	0.10	2	± 0.3	25
MSTS - 20C	8	1	2	31000	2.5 x 10 ⁻⁶	250	0.10	2	± 0.3	43
MSTS - 25C	10	2	4	25000	7.1 x 10 ⁻⁶	330	0.15	2	± 0.4	78
MSTS - 32C	14	3.5	7	19000	2.7 x 10 ⁻⁵	850	0.15	2	± 0.5	170
MSTS - 40C	18	8	16	15000	9.0 x 10 ⁻⁵	1000	0.20	2	± 0.5	370
MSTS - 50C	22	15	30	12000	2.8 x 10 ⁻⁴	1400	0.20	2	± 0.5	750
MSTS - 63C	30	35	70	10000	8.8 x 10 ⁻⁴	1800	0.20	2	± 0.5	1400

*These are values with max. bore diameter.

MSX

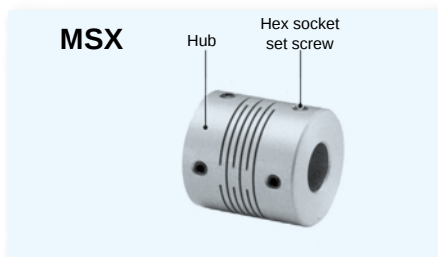


Characteristics

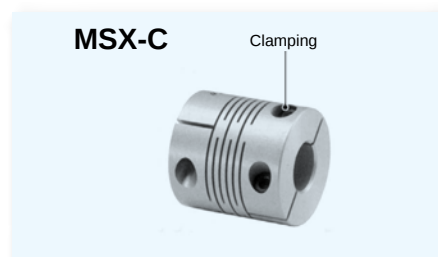
- Metal spring coupling with single-piece construction. A slit is inserted into a cylindrical material.
- It has an extremely high torsional stiffness and low moment of inertia. Made of duralumin (A7075).
- A plate spring formed by a slit allows eccentricity, angular misalignment and end-play to be accepted. Identical rotational features on both sides.
- Finished bores available in stock

Structure and material

Set Screw Type



Clamping Type



Material	Finish	
	Set Screw Type	Clamping Type
Anodized aluminum (A7075)	MSX	MSX -C

Dimensions

Type	A	L	W	F	G	M	Screw Tightening Torque (N·m)
MSX - 16	16	6	17.4	3	-	M3	0.7
MSX - 19	19	6.8	20	3.4	-	M3	0.7
MSX - 24	24	8.5	25	4.25	-	M4	1.7
MSX - 29	29	10.2	30	5.1	-	M4	1.7
MSX - 34	34	12	35	6	-	M5	4
MSX - 39	39	13.5	40	6.75	-	M5	4
MSX - 44	44	15.5	45	7.75	-	M6	7
MSX - 16C	16	6	17.4	3	4.74	M2	0.5
MSX - 19C	19	6.8	20	3.4	5.6	M2.5	1
MSX - 24C	24	8.5	25	4.25	8	M3	1.5
MSX - 29C	29	10.2	30	5.1	9	M3	1.5
MSX - 34C	34	12	35	6	11	M3	1.5
MSX - 39C	39	13.5	40	6.75	14	M4	2.5
MSX - 44C	44	15.5	45	7.75	16	M4	2.5

Performance

Type	Max. Bore (mm)	Rated Torque (N·m)	Max. Torque (N·m)	Max. Rotational Frequency (min ⁻¹)	Moment of inertia (kg·m ²)	Static Torsional Stiffness (N·m/rad)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment (°)	Max. Axial Misalignment (mm)	Mass (g)
MSX - 16	8	0.5	1	39000	2.8×10^{-7}	200	0.05	0.5	± 0.1	7
MSX - 19	10	1	2	33000	6.2×10^{-7}	270	0.05	0.5	± 0.1	10
MSX - 24	12	1.5	3	26000	2.0×10^{-5}	790	0.05	0.5	± 0.1	22
MSX - 29	14	2	4	21000	5.2×10^{-6}	1400	0.05	0.5	± 0.1	40
MSX - 34	18	3	6	18000	1.1×10^{-5}	2200	0.05	0.5	± 0.1	64
MSX - 39	20	6	12	16000	2.9×10^{-5}	4100	0.05	0.5	± 0.1	90
MSX - 44	22	9	18	14000	5.5×10^{-5}	5100	0.05	0.5	± 0.1	133
MSX - 16C	6	0.5	1	39000	2.5×10^{-7}	200	0.05	0.5	± 0.1	7
MSX - 19C	8	1	2	33000	5.8×10^{-7}	270	0.05	0.5	± 0.1	12
MSX - 24C	10	1.5	3	26000	1.8×10^{-6}	790	0.05	0.5	± 0.1	23
MSX - 29C	12	2	4	21000	4.7×10^{-6}	1400	0.05	0.5	± 0.1	41
MSX - 34C	16	3	6	18000	1.1×10^{-5}	2200	0.05	0.5	± 0.1	62
MSX - 39C	20	6	12	16000	2.3×10^{-5}	4100	0.05	0.5	± 0.1	88
MSX - 44C	22	9	18	14000	4.3×10^{-5}	5100	0.05	0.5	± 0.1	128

Standard bore diameter

Type	Standard bore diameter D ₁ X D ₂							
MSX - 16	5 x 5	5 x 6	6 x 6					
MSX - 19	5 x 5	5 x 6	5 x 7	5 x 8	6 x 6	6 x 6.35	6 x 7	6 x 8
	6.35 x 6.35	6.35 x 8	8 x 8	8 x 10	10 x 10			
MSX - 24	6 x 6	6 x 8	6 x 10	6.35 x 6.35	6.35 x 8	6.35 x 10	7 x 8	8 x 8
	8 x 9.525	8 x 10	9.525 x 10	10 x 10	10 x 11	10 x 12	11 x 12	12 x 12
MSX - 29	8 x 8	8 x 10	8 x 11	8 x 12	10 x 10	10 x 11	10 x 12	10 x 14
	11 x 12	11 x 14	12 x 12	12 x 14				
MSX - 34	10 x 14	11 x 14	12 x 12	12 x 14	12 x 16	14 x 14	14 x 15	14 x 16
	15 x 15	15 x 16	16 x 16					
MSX - 39	10 x 14	12 x 12	12 x 14	12 x 15	12 x 16	12 x 19	14 x 14	14 x 15
	15 x 15	15 x 16	16 x 16					
MSX - 44	12 x 12	12 x 14	12 x 19	14 x 14	14 x 15	14 x 16	15 x 15	15 x 16
	15 x 19	15 x 20	20 x 20					
MSX - 16C	5 x 5	5 x 6	6 x 6					
MSX - 19C	5 x 5	5 x 6	5 x 7	5 x 8	6 x 6	6 x 6.35	6 x 7	6 x 8
	6.35 x 6.35	6.35 x 8	8 x 8					
MSX - 24C	6 x 6	6 x 8	6 x 10	6.35 x 6.35	6.35 x 8	6.35 x 10	7 x 8	8 x 8
	8 x 9.525	8 x 10	9.525 x 10	10 x 10				
MSX - 29C	8 x 8	8 x 10	8 x 11	8 x 12	10 x 10	10 x 11	10 x 12	11 x 12
	12 x 12							
MSX - 34C	10 x 14	11 x 14	12 x 12	12 x 14	12 x 16	14 x 14	14 x 15	14 x 16
	15 x 15	15 x 16						
MSX - 39C	10 x 14	12 x 12	12 x 14	12 x 15	12 x 16	12 x 19	14 x 14	14 x 15
	15 x 15	15 x 16	16 x 16					
MSX - 44C	12 x 12	12 x 14	12 x 19	14 x 14	14 x 15	14 x 16	15 x 15	15 x 16
	15 x 19	15 x 20	20 x 20					



MWS

Miniature Slit Type Flexible Coupling

Characteristics

- This is a metal spring coupling with single-piece construction. A slit is inserted into a cylindrical material
- Transmission with zero backlash at low torque
- A plate spring formed by a slit allows angular misalignment, and end-play to be accepted
- High torsional stiffness
- Identical rotational features on both sides
- No maintenance needed and corrosion resistant
- There are two types of units made of aluminium alloy or all stainless steel
- Finished bores available in stock

Structure and material

Set Screw Type

MWS / MWSS



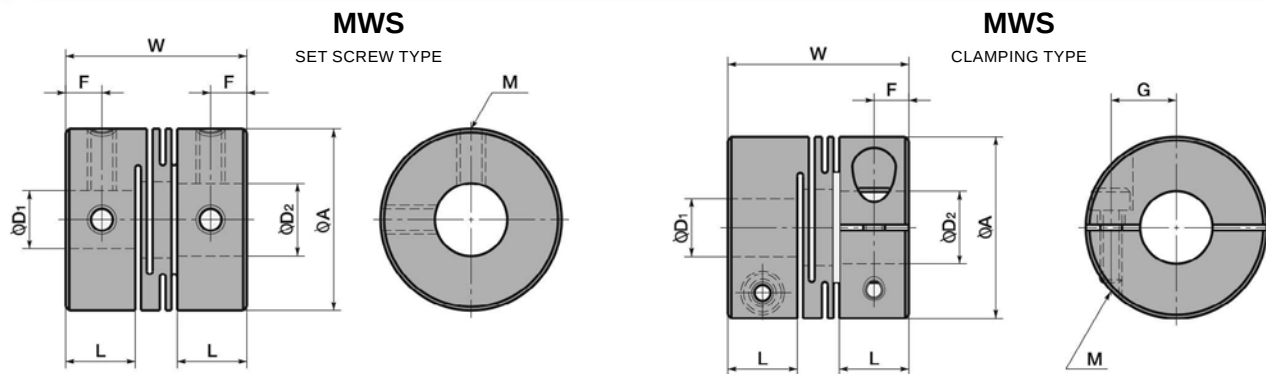
Clamping Type

MWS-C / MWSS-C



Material	Finish	
	Set Screw Type	Clamping Type
Aluminium Alloy, Anodized	MWS	MWS -C
Stainless steel	MWSS	MWSS -C

MWS / MWSS



Dimensions

Type	A	L	W	F	G	M	Screw Tightening Torque (N·m)	Standard bore diameter D ₁ X D ₂					
MWS / MWSS - 8	8	3.4	10	1.7		M2	0.3	2 x 2	3 x 3				
MWS / MWSS - 12	12	5.2	14	2.5		M2.5	0.5	4 x 4	4 x 5	4.5 x 5	5 x 5		
MWS / MWSS - 16	16	6.8	18	3		M3	0.7	4.5 x 5	5 x 5	5 x 6	6 x 6		
MWS / MWSS - 20	20	7.65	20	3		M3	0.7	5 x 6	5 x 8	6 x 6	6 x 8	8 x 8	
MWS / MWSS - 25	25	9.6	25	4		M4	1.7	5 x 6	6 x 6	6 x 8	8 x 8	8 x 10	10 x 10
MWS / MWSS - 32	32	12.6	32	6		M4	1.7	8 x 8	8 x 10	10 x 10	10 x 12	12 x 12	12 x 14
MWS / MWSS - 12C	12	5.2	14	2.6	4	M2	0.5	4 x 4	4 x 5	4.5 x 5	5 x 5		
MWS / MWSS - 16C	16	6.8	18	3.4	5	M2.5	1	4.5 x 5	5 x 5	5 x 6	6 x 6		
MWS / MWSS - 20C	20	7.65	20	3.8	6.5	M2.5	1.5	5 x 6	5 x 8	6 x 6	6 x 8	8 x 8	
MWS / MWSS - 25C	25	9.6	25	4.8	9	M3	1.5	5 x 6	6 x 6	6 x 8	6 x 10	8 x 8	8 x 10
MWS / MWSS - 32C	32	12.6	32	6.3	11	M4	2.5	8 x 8	8 x 10	10 x 10	10 x 12	12 x 12	12 x 14

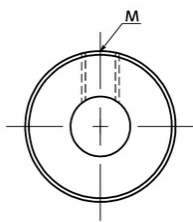
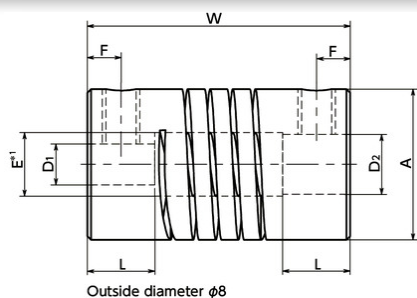
- All products are provided with hex socket head cap screw
- Recommended dimensional allowances of applicable shaft diameter are H6 and H7
- Non-standard hubs and keyways are mechanised upon request

Performance

Type	Max. Bore (mm)	Rated Torque (N·m)	Max. Torque (N·m)	Max. Rotational Frequency (min ⁻¹)	Moment of inertia* (kg·m ²)	Static Torsional Stiffness (N·m/rad)	Max. Angular Misalignment (°)	Max. Axial Misalignment (mm)	Mass* (g)
MWS - 8	4	0.1	0.2	78000	1.0 x 10 ⁻⁸	24	1	± 0.1	1
MWS - 12	6	0.4	0.8	52000	7.0 x 10 ⁻⁸	80	1	± 0.1	3.1
MWS - 16	8	0.5	1	39000	2.8 x 10 ⁻⁷	180	1	± 0.2	7.4
MWS - 20	10	1	2	31000	7.5 x 10 ⁻⁷	200	1	± 0.2	12
MWS - 25	12	2	4	25000	2.3 x 10 ⁻⁶	780	1	± 0.2	24
MWS - 32	16	4	8	19000	8.0 x 10 ⁻⁶	1100	1	± 0.2	50
MWSS - 8	4	0.2	0.4	78000	2.4 x 10 ⁻⁸	49	1	± 0.1	2.7
MWSS - 12	6	0.3	0.6	52000	1.8 x 10 ⁻⁷	140	1	± 0.1	7.8
MWSS - 16	8	0.5	1	39000	7.2 x 10 ⁻⁷	240	1	± 0.1	18
MWSS - 20	10	1	2	31000	2.0 x 10 ⁻⁶	330	1	± 0.1	32
MWSS - 25	12	2	4	25000	6.1 x 10 ⁻⁶	720	1	± 0.2	63
MWSS - 32	16	3.5	7	19000	2.1 x 10 ⁻⁵	1300	1	± 0.2	130
MWS - 12C	5	0.4	0.8	52000	6.4 x 10 ⁻⁸	80	1	± 0.1	9
MWS - 16C	6	0.5	1	39000	2.9 x 10 ⁻⁷	180	1	± 0.2	8
MWS - 20C	8	1	2	31000	7.5 x 10 ⁻⁷	200	1	± 0.2	13
MWS - 25C	10	2	4	25000	2.3 x 10 ⁻⁶	780	1	± 0.2	25
MWS - 32C	14	4	8	19000	8.1 x 10 ⁻⁶	1100	1	± 0.2	53
MWSS - 12C	5	0.3	0.6	52000	1.8 x 10 ⁻⁷	140	1	± 0.1	8.5
MWSS - 16C	6	0.5	1	39000	7.8 x 10 ⁻⁷	240	1	± 0.1	21
MWSS - 20C	8	1	2	31000	2.1 x 10 ⁻⁶	330	1	± 0.1	36
MWSS - 25C	10	2	4	25000	6.3 x 10 ⁻⁶	720	1	± 0.2	69
MWSS - 32C	14	3.5	7	19000	2.2 x 10 ⁻⁵	1300	1	± 0.2	150

* These are values with max. bore diameter

MSH



Dimensions

Type	A	L	W	F	G	M	Screw Tightening Torque (N·m)	Standard bore diameter D1 X D2 (mm)				
MSH-8	8	3.6	14	1.8	-	M2	0.3	1.5 x 1.5	1.5 x 3	2 x 2	2 x 3	3 x 3
MSH-13C	13	5	19	2.5	4.4	M1.6	0.25	3 x 3	4 x 4	4 x 5	5 x 5	-
MSH-16C	16	5	20	2.5	5.2	M1.6	0.25	3 x 5	4 x 4	4 x 5	5 x 5	-
MSH-20C	20	5.8	22	2.9	7	M2	0.5	3 x 5	4 x 4	4 x 5	5 x 5	5 x 6
MSH-26C	26	7.2	31	3.6	9.2	M2.5	1	5 x 5	5 x 6	8 x 8	8 x 10	-
MSH-32C	32	13	41	6.5	11.5	M3	1.5	10 x 10	-	-	-	-

Performance

Type	Max. Bore (mm)	Max. Rotational Frequency (min^{-1})	Moment of inertia ($\text{kg} \cdot \text{m}^2$)	Static Torsional Stiffness (N·m/rad)	Max. Lateral Misalignment		Max. Angular Misalignment ($^\circ$)	Max. Axial Misalignment (mm)	Mass (g)
					With load (mm)	No load (mm)			
MSH-8	3.175	78000	1.0×10^{-7}	1.2	0.11	0.2	5	± 0.25	1.4
MSH-13C	5	48000	6.8×10^{-7}	4.6	0.11	0.25	5	± 0.25	5.8
MSH-16C	7	39000	1.2×10^{-7}	5.9	0.18	0.25	5	± 0.25	8.4
MSH-20C	8	31000	2.6×10^{-7}	9.3	0.18	0.25	5	± 0.25	14.1
MSH-26C	12	24000	1.2×10^{-7}	22	0.25	0.25	5	± 0.25	33.4
MSH-32C	16	19000	3.8×10^{-7}	17	0.25	0.25	5	± 0.25	60.6

Type	Bore Diameter (mm)	Torque (N·m)		
		Instantaneous transmission	Single-direction rotation	Forward/Reverse rotation
MSH-8	1.5	0.2	0.1	0.05
	2	0.17	0.08	0.04
	3	0.15	0.07	0.03
MSH-13C	3	0.44	0.22	0.11
	4	0.4	0.2	0.1
	5	0.4	0.2	0.1
MSH-16C	3	0.98	0.49	0.24
	4	0.79	0.39	0.19
	5	0.7	0.35	0.17
MSH-20C	3	1.6	0.8	0.4
	4	1.35	0.67	0.33
	5	1.2	0.6	0.3
	6	1.11	0.55	0.27
MSH-26C	5	4.27	2.13	1.06
	6	3.43	1.71	0.85
	8	2.82	1.41	0.7
	10	2.48	1.24	0.62
MSH-32C	10	5.5	2.77	1.38

Structure and material

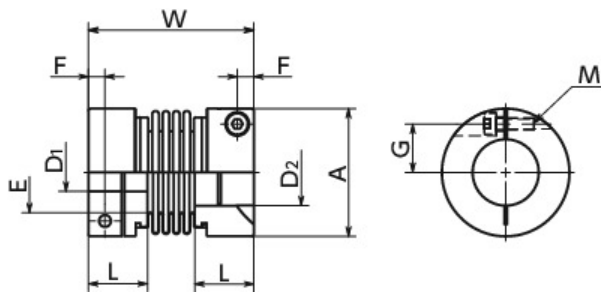
Outside diameter $\phi 8$



Outside diameter $\phi 13-32$



Finish	Material	
	Screws	Main body
MSH	Anodised Aluminium A7075	SCM435



Dimensions

Type	A	L	W	E	F	G	M	Forcing tap Torque (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
MBB-40C	40	16	51	28	5	15	M4	3.5

Type	Standard bore diameter D1 X D2														
	3	4	5	6	8	10	12	14	15	16	17	19	20	22	24
MBB-19C	●	●	●	●	●										
MBB-27C	●	●	●	●	●	●	●	●							
MBB-32C			●	●	●	●	●	●	●	●					
MBB-40C			●	●	●	●	●	●	●	●	●	●	●	●	●

Performance

Type	Max. Bore (mm)	Rated Torque (N·m)	Max. Rotational Frequency (min^{-1})	Moment of inertia ($\text{kg}\cdot\text{m}^2$)	Static Torsional Stiffness (N·m/rad)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment ($^\circ$)	Max. Axial Misalignment (mm)	Mass (g)
MBB-19C	8	1.5	33000	8.6×10^{-7}	170	0.15	1.5	± 0.5	16
MBB-27C	14	2.3	23000	3.6×10^{-6}	800	0.15	1.5	± 0.5	32
MBB-32C	16	4.5	19000	1.1×10^{-5}	1600	0.2	1.5	± 0.7	68
MBB-40C	24	10	15000	2.8×10^{-5}	2700	0.2	1.5	± 1	110

Structure and material



Finish	Material		
	HUB	BELLOW	SCREW
MBB	Aluminium alloy A2017	Stainless steel SUS304	SCM435

MFB

Miniature Bellows Flexible Coupling



Characteristics

- Bellow type flexible coupling
- Transmission with zero backlash
- High torsional stiffness and low moment of inertia
- The bellows allow eccentricity, angular misalignment and end-play
- Constant revolution performed even if there is misalignment
- Identical rotational features at both sides
- No maintenance needed and corrosion resistance
- Available in aluminium alloy or stainless steel
- Finished bores available in stock



Structure and material

Set Screw Type

MFB / MFBS



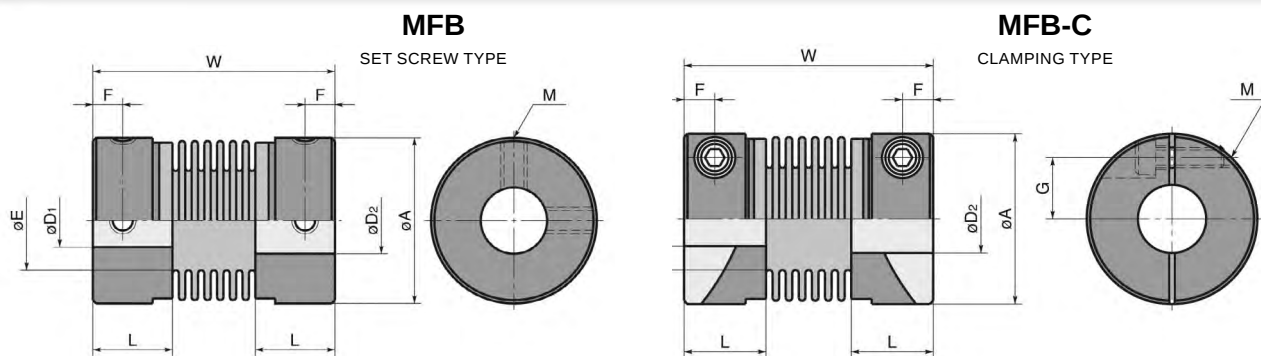
Clamping Type

MFB-C / MFBS-C



Material		Finish	
HUB	BELLOWS	Set Screw Type	Clamping Type
Aluminium alloy	Phosphor bronze	MFB	MFB -C
Stainless steel	Stainless steel	MFBS	MFBS -C

MFB / MFBS



Dimensions

Type	A	L	W	E	F	G	M	Screw Tightening Torque (N·m)	Standard bore diameter D1 X D2							
									3	4	5	6	8	10	12	14
MFB / MFBS -12	12	7.5	23.5	7	2.5	-	M2.5	0.5	●	●	●	●				
MFB / MFBS -16	16	9	26.5	9.5	3	-	M3	0.7		●	●	●	●			
MFB / MFBS -20	20	10	32	12.5	3.5	-	M3	0.7			●	●	●	●		
MFB / MFBS -25	25	12	36.5	15	4.5	-	M4	1.7				●	●	●	●	
MFB / MFBS -32	32	13.5	42	21	5.5	-	M4	1.7				●	●	●	●	●
MFB / MFBS -12C	12	7.5	23.5	7	2.25	4	M2	0.5		●	●					
MFB / MFBS -16C	16	9	26.5	9.5	3	5	M2.5	1			●	●				
MFB / MFBS -20C	20	10	32	12.5	3.5	6.5	M2.5	1				●	●			
MFB / MFBS -25C	25	12	36.5	15	4.5	9	M3	1.5					●	●		
MFB / MFBS -32C	32	13.5	42	21	5	11	M4	2.5					●	●	●	●

- All the products are provided with hex socket set screw (MFB-MFBS) or hex socket head cap screw (MFB-C, MFBS-C).
- In a case where the bore diameter is less than 4 mm, the setscrew is used in only one place
- Tolerance for shaft bore on set screw type is H8
- Recommended tolerance for diameters is H6 and H7
- A set of hubs with set screw type for one side and clamping type or other type for the other side is available upon request

Performance

Type	Max. Bore (mm)	Rated Torque (N·m)	Max. Torque (N·m)	Max. Rotational Frequency (min ⁻¹)	Moment of inertia* (kg·m ²)	Static Torsional Stiffness (N·m/rad)	Max. Angular Misalignment (°)	Max. Axial Misalignment (mm)	Mass* (g)
MFB - 12	6.35	0.3	0.6	52000	9.0 x 10 ⁻⁸	82	1.5	+0.4 -1.2	4.1
MFB - 16	8	0.5	1	39000	3.5 x 10 ⁻⁷	110	1.5	+0.4 -1.2	9
MFB - 20	10	0.8	1.6	31000	9.9 x 10 ⁻⁷	180	2	+0.6 -1.8	16
MFB - 25	12	1.3	2.6	25000	3.1 x 10 ⁻⁶	240	2	+0.6 -1.8	32
MFB - 32	16	2	4	19000	9.2 x 10 ⁻⁶	330	2	+0.8 -2.5	57
MFBS - 12	6.35	0.5	1	52000	2.1 x 10 ⁻⁷	100	1.5	+0.4 -1.2	9.1
MFBS - 16	8	1	2	39000	8.0 x 10 ⁻⁷	150	1.5	+0.4 -1.2	20
MFBS - 20	10	1.5	3	31000	2.3 x 10 ⁻⁶	220	2	+0.6 -1.8	37
MFBS - 25	12	2	4	25000	7.0 x 10 ⁻⁶	330	2	+0.6 -1.8	73
MFBS - 32	16	3	6	19000	2.1 x 10 ⁻⁵	490	2	+0.8 -2.5	130
MFB - 12C	5	0.3	0.6	52000	9.7 x 10 ⁻⁸	82	1.5	+0.4 -1.2	3.8
MFB - 16C	6.35	0.5	1	39000	3.7 x 10 ⁻⁷	110	1.5	+0.4 -1.2	9.8
MFB - 20C	8	0.8	1.6	31000	1.0 x 10 ⁻⁶	180	2	+0.6 -1.8	16
MFB - 25C	10	1.3	2.6	25000	3.1 x 10 ⁻⁶	240	2	+0.6 -1.8	32
MFB - 32C	14	2	4	19000	9.6 x 10 ⁻⁶	330	2	+0.8 -2.5	58
MFBS - 12C	5	0.5	1	52000	2.1 x 10 ⁻⁷	100	1.5	+0.4 -1.2	9.2
MFBS - 16C	6.35	1	2	39000	8.1 x 10 ⁻⁷	150	1.5	+0.4 -1.2	22
MFBS - 20C	8	1.5	3	31000	2.3 x 10 ⁻⁶	220	2	+0.6 -1.8	38
MFBS - 25C	10	2	4	25000	6.9 x 10 ⁻⁶	330	2	+0.6 -1.8	74
MFBS - 32C	14	3	6	19000	2.1 x 10 ⁻⁵	490	2	+0.8 -2.5	130

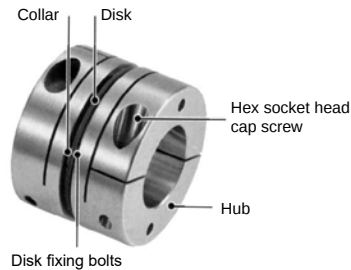
*These are values with max. bore diameter

XBSS / XBWS

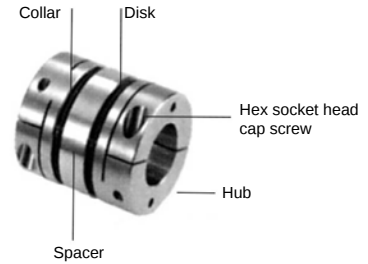
Characteristics

- Disk type flexible coupling
- It has a compact design with short entire length
- The stainless steel disk allows eccentricity, and angular misalignment, and end-play
- Identical rotational features at both sides
- Finished bores are available in stock

XBSS-C
STAINLESS STEEL



XBWS-C
STAINLESS STEEL



Structure and material

	XBSS / XBWS
Hub	Stainless steel SUS303
Disk fixing bolts	Stainless steel SUSXM7
Disk	Stainless steel SUS304
Collar	Stainless steel SUS304
Screws	Stainless steel SUSXM7

Characteristics and applications

SPECIAL CHARACTERISTICS	Zero Backlash	•
	High Gain Supported	•
	High Torque	•
	Allowable Misalignment	-
	Vibration Absorption	-
	Electrical Insulation	-
	Corrosion resistance	•

APPLICATIONS	Servomotor	•
	Stepping motor	•
	General-purpose motor	-
	Encoder	-

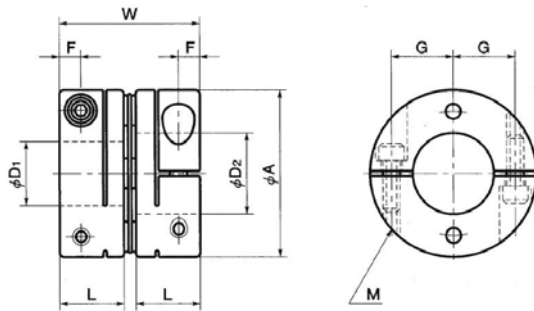
• Excellent
- Very good

Performance

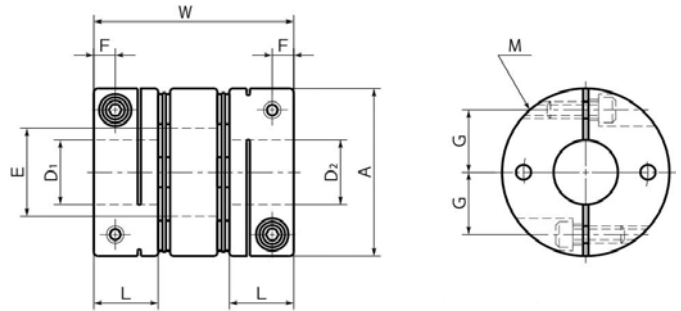
Type	Max. Bore Diameter (mm)	Rated Torque (N·m)	Max. Rotational Frequency (min ⁻¹)	Moment of Inertia (kg·m ²)	Static Torsional Stiffness (N·m/rad)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment (°)	Max. Axial Misalignment (mm)	Mass (g)
XBSS-15C2A	6	0.42	42000	2.3×10 ⁻⁷	500	0.02	0.5	±0.1	15
XBSS-19C2A	8	0.6	33000	7.4×10 ⁻⁷	1000	0.02	1	±0.1	29
XBSS-25C2A	12	1.1	25000	2.8×10 ⁻⁶	1500	0.02	1	±0.2	53
XBSS-27C2A	14	1.3	23000	3.8×10 ⁻⁶	2100	0.02	1	±0.2	67
XBSS-34C3A	16	2.5	18000	1.1×10 ⁻⁵	3800	0.02	1	±0.3	115
XBSS-39C2A	20	4.8	16000	2.3×10 ⁻⁵	5500	0.02	1	±0.3	185
XBSS-44C2A	22	5.6	14000	3.9×10 ⁻⁵	7000	0.02	1	±0.3	305
XBSS-56C3A	28	14	11000	1.4×10 ⁻⁴	15000	0.02	1	±0.4	610
XBWS-15C2A	6	0.42	42000	5.0×10 ⁻⁷	300	0.05	1	±0.2	20
XBWS-19C2A	8	0.6	33000	1.6×10 ⁻⁶	550	0.15	2	±0.2	38
XBWS-25C2A	12	1.1	25000	6.1×10 ⁻⁶	1100	0.2	2	±0.4	71
XBWS-27C2A	14	1.3	23000	8.2×10 ⁻⁶	1300	0.2	2	±0.4	88
XBWS-34C3A	16	2.5	18000	2.5×10 ⁻⁵	1800	0.25	2	±0.6	160
XBWS-39C2A	20	4.8	16000	5.1×10 ⁻⁵	3500	0.3	2	±0.6	260
XBWS-44C2A	22	5.6	14000	8.9×10 ⁻⁵	5500	0.3	2	±0.6	400
XBWS-56C3A	28	14	11000	2.9×10 ⁻⁴	10000	0.3	2	±0.8	800

XBSS / XBWS

XBSS-C



XBWS-C



Dimensions

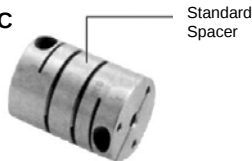
Type	A	L	Short finish W XBSS	Large finish W XBWS	F	G	M	Screw Tightening Torque (N·m)
XBSS/XBWS - 15C2	15	7.5	16	22	2.3	5.25	M2	0.5
XBSS/XBWS - 19C2	19	9	19	25.5	2.5	7.1	M2	0.5
XBSS/XBWS - 25C2	25	11	23.6	32.2	3.5	9.25	M2.5	1
XBSS/XBWS - 27C2	27	11	23.6	32.2	3.5	10.25	M2.5	1
XBSS/XBWS - 34C3	34	12	26.2	37.4	4	13	M3	1.5
XBSS/XBWS - 39C2	39	15	32.8	46.6	5	14.5	M4	3.5
XBSS/XBWS - 44C2	44	15	32.8	46.6	5	17	M4	3.5
XBSS/XBWS - 56C3	56	20	43.2	60.4	6	21.25	M5	8

Type	Standard bore diameter D1 X D2																	
	3	4	5	6	8	10	11	12	14	15	16	18	19	20	22	24	25	28
XBSS/XBWS - 15C2	●	●	●	●														
XBSS/XBWS - 19C2		●	●	●	●													
XBSS/XBWS - 25C2			●	●	●	●	●	●										
XBSS/XBWS - 27C2				●	●	●	●	●	●									
XBSS/XBWS - 34C3				●	●	●	●	●	●	●	●							
XBSS/XBWS - 39C2					●	●	●	●	●	●	●	●	●	●				
XBSS/XBWS - 44C2					●	●	●	●	●	●	●	●	●	●	●			
XBSS/XBWS - 56C3						●	●	●	●	●	●	●	●	●	●	●	●	●

- All products are provided with hex socket head cap screw
- Recommended dimensional allowances of applicable shaft diameter are H6

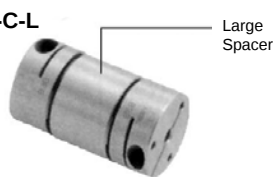
XHW / XHW-L / XHS

XHW-C



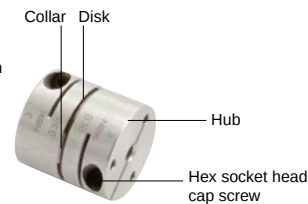
Standard
Spacer

XHW-C-L



Large
Spacer

XHS-C
Short Finish



Characteristics



For servomotor

For stepping
motor

- This is a disk type flexible coupling
- High-torque specification with rated torque 1.5 times higher than conventional products
- This is the most appropriate for a servomotor with instantaneous max. torque of 350%
- The stainless steel disk allows eccentricity, angular alignment, and end-play
- Standardized XHW-AC adapter type that also supports 1/10 taper shafts of servomotors

Structure and material

	XHW - C / XHW-L -C
Hub	Aluminium alloy A2017
Spacer	Aluminium alloy A2017
Disk	Stainless steel SUS304
Collar	Stainless steel SUS304
Screws	SCM435 Ferrosoferric Oxide Film (Black)**

**Base screws can be replaced with stainless screws

Characteristics and applications

SPECIAL CHARACTERISTICS	Zero Backlash	•
	High Gain Support	•
	High Torque	•
	Allowable Misalignment	-
	Vibration Absorption	-
	Electrical Insulation	-

APPLICATIONS	Servomotor	•
	Stepping motor	•
	General-purpose motor	•

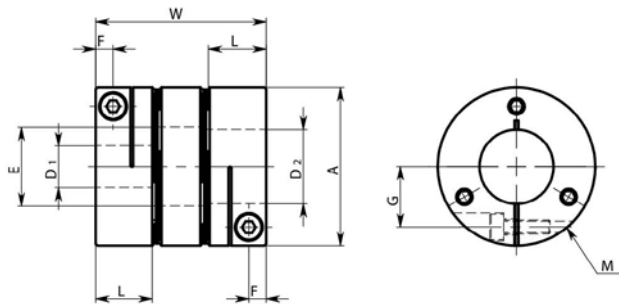
• Excellent
- Very good

Performance

Type	Max. Bore (mm)	Rated Torque (N·m)	Max. Rotational Frequency (min^{-1})	Moment of inertia ($\text{kg} \cdot \text{m}^2$)	Static Torsional Stiffness ($\text{N} \cdot \text{m/rad}$)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment (°)	Mass (g)
XHW - 10C	4	0.25	63000	3.8×10^{-8}	70	1.4	± 0.2	2.5
XHW - 15C	6	0.6	42000	3.0×10^{-7}	100	1.4	± 0.2	9.4
XHW - 19C	8	1.5	33000	8.8×10^{-7}	300	2	± 0.2	17
XHW - 25C	12	3	25000	3.4×10^{-8}	1000	2	± 0.3	35
XHW - 27C	14	3.3	23000	4.4×10^{-6}	1400	2	± 0.4	39
XHW - 34C	16	6.3	18000	1.3×10^{-5}	2500	2	± 0.5	75
XHW - 39C	20	12	16000	2.9×10^{-5}	4700	2	± 0.5	123
XHW - 44C	22	15	14000	4.7×10^{-5}	6400	2	± 0.6	156
XHW - 56C	28	37.5	11000	1.7×10^{-4}	12000	2	± 0.7	340
XHW - 64C	35	50	9800	3.3×10^{-4}	15000	2	± 0.9	490
XHW - 79C	42	100	7900	1.0×10^{-3}	22000	2	± 1.1	1100
XHW - 98C	50	280	6400	2.6×10^{-3}	47000	2	± 1.3	1740
XHW - 19C-L	8	1.5	33000	1.2×10^{-6}	300	2	± 0.2	22
XHW - 25C-L	12	3	25000	4.3×10^{-6}	1000	2	± 0.3	45
XHW - 27C-L	14	3.3	23000	5.8×10^{-6}	1400	2	± 0.4	50
XHW - 34C-L	16	6.3	18000	1.6×10^{-5}	2500	2	± 0.5	89
XHW - 39C-L	20	12	16000	3.4×10^{-5}	4700	2	± 0.5	144

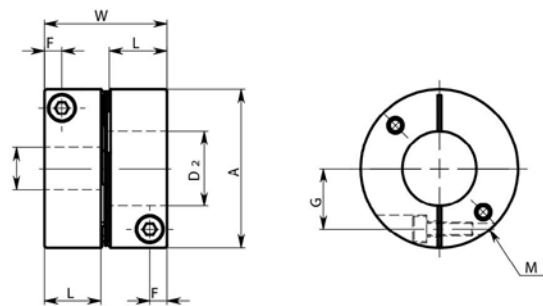
XHW / XHW-L / XHS

XHW / XHW-L



XHS

Short finish



Dimensions

Type	A	L	Standard finish	Short finish	F	G	M	Screw Tightening Torque (N·m)
			XHW / XHW-L	XHS				
XHW - 10C	10	4.25	15	-	2.125	-	M2.5	0.5
XHW - 15C	15	7.5	21.6	15.8	2.1	5	M2	0.45
XHW - 19C	19	9.2	25.7	19.4	2.6	7	M2	0.5
XHW - 25C	25	11	32.2	23.1	3.3	9.25	M2.5	1
XHW - 27C	27	11	32.2	23.1	3.3	10.25	M2.5	1
XHW - 34C	34	12.5	36.8	26.5	3.75	13	M3	1.5
XHW - 39C	39	15.5	46.6	32.8	4.5	14.5	M4	3.5
XHW - 44C	44	15.5	46.6	32.8	4.5	17	M4	3.5
XHW - 56C	56	20.5	61.2	43.2	6	21	M5	8
XHW - 64C	64	24	74.4	51.2	7	24	M6	13
XHW - 79C	79	30	97.2	63.6	8.75	29	M8	28
XHW - 98C	98	32	104	51	8.7	38	M8	28
XHW - 19C-L	19	9.2	34	-	2.6	7	M2	0.5
XHW - 25C-L	25	11	42	-	3.3	9.25	M2.5	1
XHW - 27C-L	27	11	42	-	3.3	10.25	M2.5	1
XHW - 34C-L	34	12.5	44	-	3.75	13	M3	1.5
XHW - 39C-L	39	15.5	55	-	4.5	14.5	M4	3.5

Type	Standard bore diameter D1 X D2																													
	2	3	4	5	6	6.35	8	9.525	10	11	12	14	15	16	17	18	19	20	22	24	25	28	30	32	35	38	40	42	45	50
XHW - 10C	●	●	●																											
XHW - 15C		●	●	●	●																									
XHW - 19C		●	●	●	●	●	●																							
XHW - 25C			●	●	●	●	●	●	●	●	●																			
XHW - 27C			●	●	●	●	●	●	●	●	●	●																		
XHW - 34C				●	●	●	●	●	●	●	●	●	●	●																
XHW - 39C					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●											
XHW - 44C							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●									
XHW - 56C							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●								
XHW - 64C									●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
XHW - 79C												●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
XHW - 98C																					●	●	●	●	●	●	●	●	●	●
XHW - 19C-L		●	●	●	●	●	●																							
XHW - 25C-L			●	●	●	●	●	●	●	●	●																			
XHW - 27C-L			●	●	●	●	●	●	●	●	●	●																		
XHW - 34C-L				●	●	●	●	●	●	●	●	●	●	●																
XHW - 39C-L					●	●	●	●	●	●	●	●	●	●	●	●	●	●												

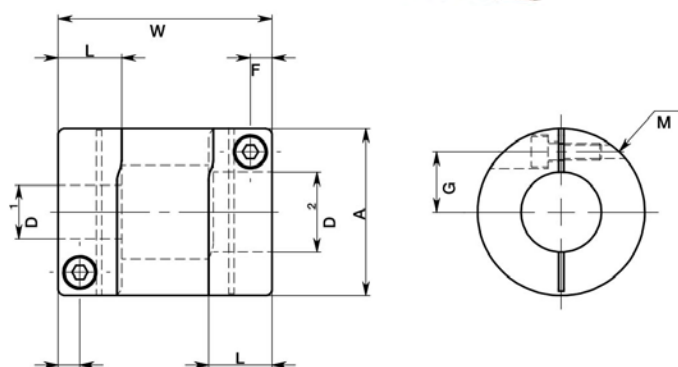
- All products are provided with hex socket head cap screw
- Recommended dimensional allowances of applicable shaft diameter are H6

Characteristics

- Higher performance due to higher vibration absorption
- Greater servomotor gain reducing stabilization time
- Electrical insulation
- Performing at -10°C to 120°C
- Elastic element of FKM material (except XGT2-68C which is from HNBR)
- Electrical Insulation
- High Gain Supported
- High Torque



XGT2 - standard
XGS2 - short
XGL2 - large



Dimensions

Type	A	L	Standard Finish W XGT2	Short Finish W XGS2	Large Finish W XGL2	F	G	M	Screw Tightening Torque (N·m)
XGT2 - 15C	15	6.5	23	18	30	2.15	5	M1.6	0.25
XGT2 - 19C	19	7.7	26	20	34	2.65	6.5	M2	0.5
XGT2 - 25C	25	9.5	32	27	42	3.25	9	M2.5	1
XGT2 - 27C	27	9.5	32	-	-	3.25	10	M2.5	1
XGT2 - 30C	30	11	36	30	42	4	11	M3	1.5
XGT2 - 34C	34	12	38	35	44	4	12.25	M3	1.5
XGT2 - 39C	39	15.5	48	40	55	4.5	14.5	M4	2.5
XGT2 - 44C	44	15	48	-	-	4.75	16	M4	2.5
XGT2 - 56C	56	19.5	60	-	-	5.5	20	M5	7
XGT2 - 68C	68	24	72	-	-	7	25	M6	13

Type	Standard bore diameter D ₁ X D ₂									
XGT2 - 15C	3 - 5	3 - 6	4 - 4	4 - 5	4 - 6	4.5 - 5	5 - 5	5 - 6	6 - 6	
XGT2 - 19C	4 - 5 6.35 - 8	4 - 8 8 - 8	5 - 5	5 - 6	5 - 7	5 - 8	6 - 6	6 - 6.35	6 - 7	6 - 8
XGT2 - 25C	5 - 6 8 - 10	5 - 8 8 - 11	6 - 6 8 - 12	6 - 8 10 - 10	6 - 10 10 - 12	6 - 11 12 - 12	6 - 12	6.35 - 8	6.35 - 10	8 - 8
XGT2 - 27C	5 - 6 8 - 10	5 - 8 8 - 11	5 - 14 8 - 12	6 - 6 8 - 14	6 - 8 10 - 10	6 - 10 10 - 12	6 - 11 10 - 14	6 - 12 12 - 12	6 - 14 12 - 14	8 - 8 14 - 14
XGT2 - 30C	8 - 8 10 - 15	8 - 10 11 - 12	8 - 11 12 - 12	8 - 12 12 - 14	8 - 14 12 - 15	8 - 15 14 - 14	10 - 10 14 - 15	10 - 11 15 - 15	10 - 12	10 - 14
XGT2 - 34C	8 - 8 10 - 15	8 - 10 11 - 11	8 - 11 11 - 12	8 - 12 12 - 12	8 - 14 12 - 14	8 - 15 12 - 15	10 - 10 14 - 14	10 - 11 14 - 15	10 - 12 15 - 15	10 - 14 16 - 16
XGT2 - 39C	10 - 10 12 - 20	10 - 12 14 - 14	10 - 14 14 - 15	10 - 15 14 - 16	10 - 16 15 - 15	12 - 12 15 - 16	12 - 14 15 - 19	12 - 15 16 - 16	12 - 16 17 - 17	12 - 19 20 - 20
XGT2 - 44C	12 - 12 15 - 19	12 - 14 15 - 20	12 - 16 16 - 16	12 - 19 16 - 19	14 - 14 17 - 17	14 - 15 19 - 20	14 - 16 20 - 20	14 - 19	15 - 15	15 - 16
XGT2 - 56C	15 - 15	15 - 19	15 - 20	15 - 25	19 - 20	19 - 24	20 - 20	20 - 22	24 - 25	25 - 25
XGT2 - 68C	20 - 20	20 - 22	20 - 25	22 - 25	24 - 30	25 - 25	25 - 35	25 - 35		

XGT2

Performance

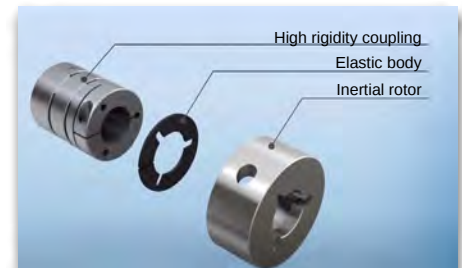
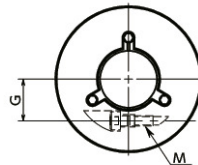
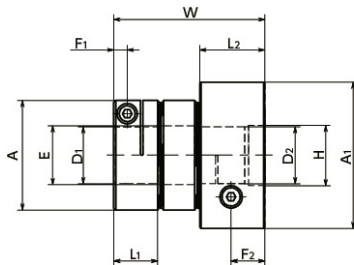
Type	Max. Bore (mm)	Rated Torque (N·m)	Max. Torque (N·m)	Max. Rotational Frequency (min^{-1})	Moment of inertia ($\text{kg}\cdot\text{m}^2$)	Static Torsional Stiffness (N·m/rad)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment ($^\circ$)	Max. Axial Misalignment (mm)	Mass (g)
XGT2 - 15C	6	1.1	2.2	42000	2.7×10^{-7}	110	0.15	1.5	± 0.2	9
XGT2 - 19C	8	2.1	4.2	33000	7.6×10^{-7}	240	0.15	1.5	± 0.2	15
XGT2 - 25C	12	4	8	25000	2.7×10^{-6}	390	0.15	1.5	± 0.2	29
XGT2 - 27C	14	4	8	23000	3.7×10^{-6}	400	0.15	1.5	± 0.2	33
XGT2 - 30C	15	6.3	12.6	21000	6.3×10^{-6}	590	0.2	1.5	± 0.3	45
XGT2 - 34C	16	8	16	18000	1.2×10^{-5}	890	0.2	1.5	± 0.3	66
XGT2 - 39C	20	13.5	27	16000	2.5×10^{-5}	1100	0.2	1.5	± 0.3	105
XGT2 - 44C	22	18	36	14000	4.1×10^{-5}	1300	0.2	1.5	± 0.3	134
XGT2 - 56C	28	35	70	11000	1.4×10^{-4}	2500	0.2	1.5	± 0.3	270
XGT2 - 68C	35	65	130	9000	3.5×10^{-5}	4500	0.2	1.5	± 0.3	482

- All products are provided with hex socket head cap screw.
- Recommended dimensional allowances of applicable shaft diameter are H6 and H7
- The performance and finished bores of XGS2, XGL2 and XGT2 models are the same

XGHW-C

Combination of rigidity and vibration absorption

NBK's new XGHW-C coupling allows for vibration absorption and the use of higher gain levels compared to standard rigid couplings, which also allows for a shorter settling time.



Dimensions

Type	A	A1	L1	L2	W	E	H	F1	F2	G	M	Screw Tightening Torque (N·m)
XGHW- 27C	19	27	9.2	13.2	29.7	8.5	10	2.6	6.6	7	M2	0.5
XGHW- 36C	27	36	11	16	37.2	14.5	15	3.3	8.3	10.25	M2.5	1
XGHW- 41C	34	41	12.5	18.5	42.8	16.5	18	3.75	9.75	13	M3	1.5
XGHW- 49C	39	49	15.5	22.5	53.6	20.5	22	4.5	11.5	14.5	M4	3.5

Performance

Type	Max. Bore (mm)	Rated Torque (N·m)	Max. Rotational Frequency (min^{-1})	Moment of inertia ($\text{kg}\cdot\text{m}^2$)	Static Torsional Stiffness (N·m/rad)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment ($^\circ$)	Max. Axial Misalignment (mm)	Mass (g)
XGHW- 27C	8	1.5	23000	4.6×10^{-6}	300	0.12	2	± 0.2	45
XGHW- 36C	14	3.3	17000	1.8×10^{-5}	1400	0.15	2	± 0.4	97
XGHW- 41C	16	6.3	15000	3.4×10^{-5}	2500	0.2	2	± 0.5	144
XGHW- 49C	20	12	12000	8.9×10^{-5}	4700	0.25	2	± 0.5	260

POWER TRANSMISSION

Special features	Jaw Type			Oldham Type				Cross Joint Type
	MJC	MJS	MJB	MOC	MOL	MOM	MOR	XUT
								
Page	21-26	27	28	29	30-31	32-33	34	35
Zero Backlash	●	●	●					●
High Gain Supported					●	●	●	○
High Torque	○	○	○	○	○	●	●	●
Allowable Misalignment	●	●	●	○	○	○	○	●
Vibration Absorption	●	●	●		●	●	●	●
Electrical Insulation	○				○		○	

○ Excellent ● Very good



Nabeya Bi-tech Kaisha (JAPAN)



MJC (GS)

MJC

Miniature Curved Jaw Type Flexible Coupling



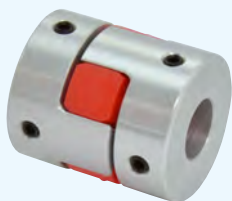
Characteristics

- Coupling without clearance consisting of one polyurethane star and two cubes
- Transmission with zero backlash at low torque
- Can be used as a flexible coupling in high torque applications
- Great absorption of angular and parallel misalignment
- Excellent fixability and vibration absorption
- Four types of sleeve hardness
- Oli and electric environment insulation
- Identical rotational features at both sides
- Operational temperature: -20°C to 60°C
- Finished bores available in stock

Structure and material

Set screw type

MJC



Clamping type

MJC-C



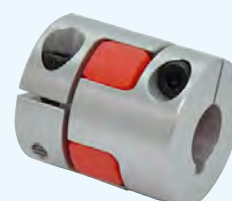
Key type

MJC-K



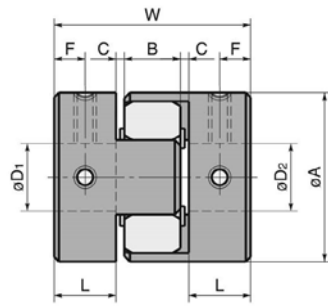
Clamping + key type

MJC-CK

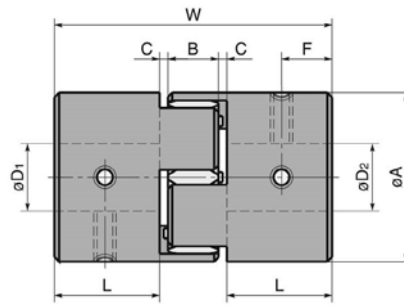


Finish	Material	
	Hub	Sleeve
MJC / MJC-C MJC-K / MJC-CK	A2017 Aluminium alloy Anodized	Polyurethane

MJC (GS) Set Screw



Finished ext. diam. Ø14 - Ø30



Finished ext. diam. ext. Ø40

Dimensions

Type	Ref. GS	A	L	W	B	C	F	M	Screw Tightening Torque (N·m)
MJC - 14	GS 7	14	7	22	6	1	3.5	M3	0.7
MJC - 20	GS 9	20	10	30	8	1	5	M3	0.7
MJC - 30	GS 14	30	11	35	10	1.5	5.5	M4	1.7
MJC - 40	GS 19/24	40	25	66	12	2	12.5	M5	4
MJC - 55	GS 24/32	55	30	78	14	2	15	M6	7
MJC - 65	GS 28/38	65	35	90	15	2.5	17.5	M8	15
MJC - 80	GS 38/45	80	45	114	18	3	22.5	M8	15
MJC - 95	GS 42/55	95	50	126	20	3	25	M8	15

Standard metric bore diameter

Type	Standard bore diameter D1 X D2																															
	3	4	4.5	5	6	6.35	7	8	9.525	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55
MJC - 14	●	●	●	●	●	●	●																									
MJC - 20		●	●	●	●	●	●	●	●	●	●																					
MJC - 30					●	●	●	●	●	●	●	●	●	●	●																	
MJC - 40								●	●	●	●	●	●	●	●	●	●	●	●	●	●											
MJC - 55										●	●	●	●	●	●	●	●	●	●	●	●	●	●	●								
MJC - 65													●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
MJC - 80																		●	●	●	●	●	●	●	●	●	●	●	●	●		
MJC - 95																					●	●	●	●	●	●	●	●	●	●	●	●

- All the products are provided with the hex socket set screw
- Hex socket, clamping type and others are available upon request
- Non-standard hubs and keyways are mechanised upon request

MJC (GS) SLEEVE



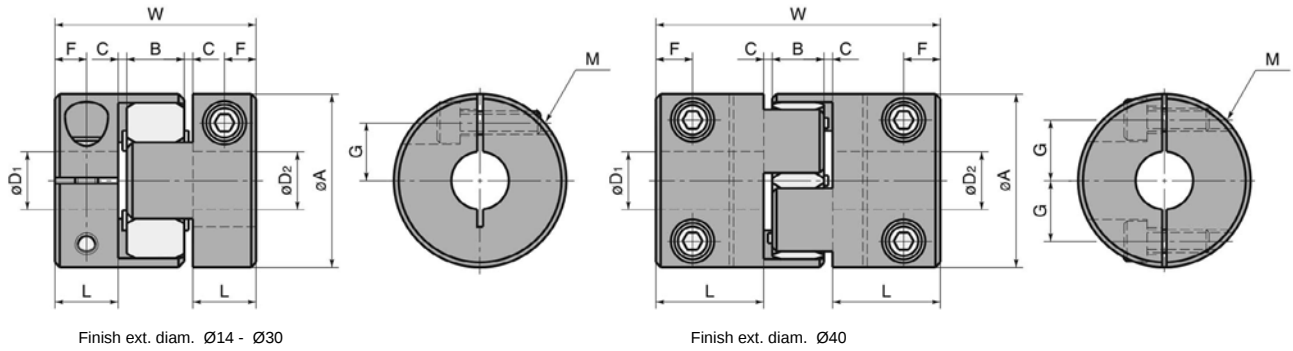
Sleeve		Reference
Hardness	Color	
80ShA	Blue	MJC-**- BL
92ShA	White	MJC-**- WH
98ShA	Red	MJC-**- RD
64ShD	Green	MJC-**- GR

Performance

Type	Ref	Max. Bore (mm)	Rated Torque (N·m)	Max. Torque (N·m)	Max. Rotational Frequency (min ⁻¹)	Moment of inertia* (kg·m ²)	Static Torsional Stiffness (N·m/rad)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment (°)	Max. Axial Misalignment (mm)	Mass*
MJC - 14	BL	7	0.7	1.4	45000	2.0 x 10 ⁻⁷	8	0.15	1.0	+0.6 0	6.6
MJC - 20	BL	11	1.8	3.6	31000	1.1 x 10 ⁻⁶	16	0.20	1.0	+0.8 0	17
MJC - 30	BL	16	4	8	21000	6.2 x 10 ⁻⁶	46	0.20	1.0	+1.0 0	44
MJC - 40	BL	25	4.9	9.8	15000	3.7 x 10 ⁻⁵	380	0.15	1.0	+1.2 0	130
MJC - 55	BL	32	17	34	11000	1.6 x 10 ⁻⁴	1400	0.20	1.0	+1.4 0	320
MJC - 65	BL	38	46	92	9000	3.6 x 10 ⁻⁴	2800	0.20	1.0	+1.5 0	520
MJC - 80	BL	45	95	190	7000	1.1 x 10 ⁻³	3200	0.20	1.0	+1.8 0	1000
MJC - 95	BL	55	130	260	6000	2.3 x 10 ⁻³	3600	0.20	1.0	+2.0 0	1500
MJC - 14	WH	7	1.2	2.4	45000	2.1 x 10 ⁻⁷	14	0.10	1.0	+0.6 0	6.6
MJC - 20	WH	11	3	6	31000	1.1 x 10 ⁻⁶	29	0.15	1.0	+0.8 0	17
MJC - 30	WH	16	7.5	15	21000	6.2 x 10 ⁻⁶	73	0.15	1.0	+1.0 0	44
MJC - 40	WH	25	10	20	15000	3.7 x 10 ⁻⁵	570	0.10	1.0	+1.2 0	130
MJC - 55	WH	32	35	70	11000	1.6 x 10 ⁻⁴	1600	0.15	1.0	+1.4 0	320
MJC - 65	WH	38	95	190	9000	3.6 x 10 ⁻⁴	3000	0.15	1.0	+1.5 0	520
MJC - 80	WH	45	190	380	7000	1.1 x 10 ⁻³	5300	0.15	1.0	+1.8 0	1000
MJC - 95	WH	55	265	530	6000	2.3 x 10 ⁻³	6200	0.15	1.0	+2.0 0	1500
MJC - 14	RD	7	2	4	45000	2.1 x 10 ⁻⁷	22	0.10	1.0	+0.6 0	6.6
MJC - 20	RD	11	5	10	31000	1.1 x 10 ⁻⁶	55	0.10	1.0	+0.8 0	17
MJC - 30	RD	16	12.5	25	21000	6.2 x 10 ⁻⁶	130	0.10	1.0	+1.0 0	44
MJC - 40	RD	25	17	34	15000	3.7 x 10 ⁻⁵	1200	0.10	1.0	+1.2 0	130
MJC - 55	RD	32	60	120	11000	1.6 x 10 ⁻⁴	2600	0.10	1.0	+1.4 0	320
MJC - 65	RD	38	160	320	9000	3.6 x 10 ⁻⁴	4900	0.10	1.0	+1.5 0	520
MJC - 80	RD	45	325	650	7000	1.1 x 10 ⁻³	6500	0.10	1.0	+1.8 0	1000
MJC - 95	RD	55	450	900	6000	2.3 x 10 ⁻³	8900	0.10	1.0	+2.0 0	1500
MJC - 14	GR	7	2.4	4.8	45000	2.1 x 10 ⁻⁷	66	0.08	1.0	+0.6 0	6.6
MJC - 20	GR	11	6	12	31000	1.1 x 10 ⁻⁶	87	0.08	1.0	+0.8 0	17
MJC - 30	GR	16	16	32	21000	6.2 x 10 ⁻⁶	200	0.08	1.0	+1.0 0	44
MJC - 40	GR	25	21	42	15000	3.7 x 10 ⁻⁵	3000	0.08	1.0	+1.2 0	130
MJC - 55	GR	32	75	150	11000	1.6 x 10 ⁻⁴	9000	0.08	1.0	+1.4 0	320
MJC - 65	GR	38	200	40	9000	3.6 x 10 ⁻⁴	13000	0.08	1.0	+1.5 0	520
MJC - 80	GR	45	405	810	7000	1.1 x 10 ⁻³	14000	0.08	1.0	+1.8 0	1000
MJC - 95	GR	55	560	1120	6000	2.3 x 10 ⁻³	15000	0.08	1.0	+2.0 0	1500

*These are values with max. bore diameter.

MJC-C (GS) Clamping



Dimensions

Type	GS Ref.	A	L	W	B	C	F	G	M	Screw Tightening Torque (N·m)
MJC - 14C	GS 7	14	7	22	6	1	3.5	4	M2	0.5
MJC - 20C	GS 9	20	10	30	8	1	5	6.5	M2.5	1
MJC - 30C	GS 14	30	11	35	10	1.5	5.5	10	M4	2.5
MJC - 40C	GS 19/24	40	25	66	12	2	8.5	14	M5	4
MJC - 55C	GS 24/32	55	30	78	14	2	10.5	20	M6	8
MJC - 65C	GS 28/38	65	35	90	15	2.5	13	24	M8	16
MJC - 80C	GS 38/45	80	45	114	18	3	15	30	M8	16
MJC - 95C	GS 42/55	95	50	126	20	3	18	34	M10	40

Standard metric bore diameter

Type	Standard bore diameter D1 X D2																															
	3	4	4.5	5	6	6.35	7	8	9.525	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55
MJC - 14C	●	●	●	●	●	●	●																									
MJC - 20C		●	●	●	●	●	●	●	●	●	●																					
MJC - 30C					●	●	●	●	●	●	●	●	●	●	●																	
MJC - 40C								●	●	●	●	●	●	●	●	●	●	●	●	●												
MJC - 55C										●	●	●	●	●	●	●	●	●	●	●	●	●	●	●								
MJC - 65C													●	●	●	●	●	●	●	●	●	●	●	●	●	●						
MJC - 80C																			●	●	●	●	●	●	●	●	●	●	●	●		
MJC - 95C																					●	●	●	●	●	●	●	●	●	●	●	●

- All the products are provided with the hex socket set screw
- Hex socket, clamping type and others are available upon request
- Non-standard hubs and keyways are mechanised upon request

MJC-CS (GS) SLEEVE



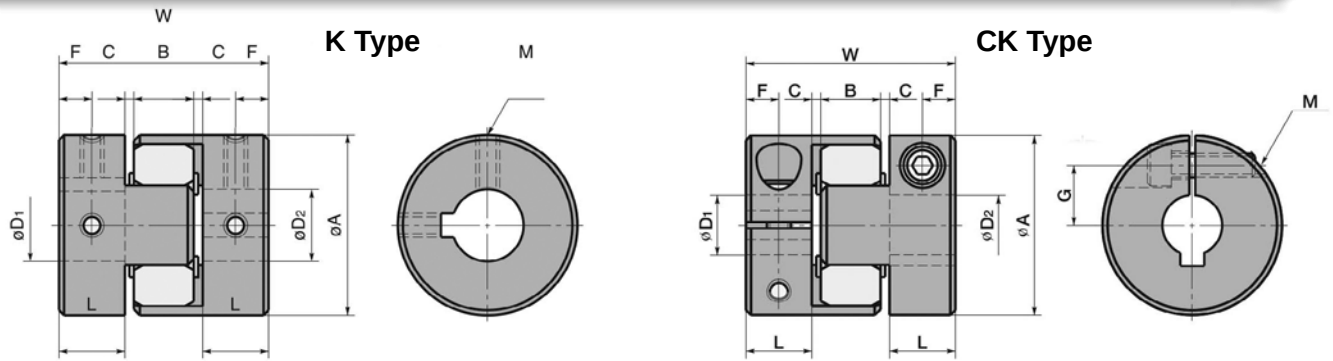
Sleeve		Reference
Hardness	Color	
80ShA	Blue	MJC-**C- BL
92ShA	White	MJC-**C- WH
98ShA	Red	MJC-**C- RD
64ShD	Green	MJC-**C- GR

Performance

Type	Ref	Max. Bore (mm)	Rated Torque (N·m)	Max. Torque (N·m)	Max. Rotational Frequency (min ⁻¹)	Moment of inertia* (kg·m ²)	Static Torsional Stiffness (N·m/rad)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment (°)	Max. Axial Misalignment (mm)	Mass*
MJC - 14C	BL	7	0.7	1.4	45000	1.9 x 10 ⁻⁷	8	0.15	1.0	+0.6 0	6.2
MJC - 20C	BL	11	1.8	3.6	31000	1.0 x 10 ⁻⁶	16	0.20	1.0	+0.8 0	16
MJC - 30C	BL	16	4	8	21000	6.0 x 10 ⁻⁶	46	0.20	1.0	+1.0 0	42
MJC - 40C	BL	25	4.9	9.8	15000	3.6 x 10 ⁻⁵	380	0.15	1.0	+1.2 0	130
MJC - 55C	BL	32	17	34	11000	1.6 x 10 ⁻⁴	1400	0.20	1.0	+1.4 0	310
MJC - 65C	BL	38	46	92	9000	3.5 x 10 ⁻⁴	2800	0.20	1.0	+1.5 0	500
MJC - 80C	BL	45	95	190	7000	1.0 x 10 ⁻³	3200	0.20	1.0	+1.8 0	1000
MJC - 95C	BL	55	130	260	6000	2.3 x 10 ⁻³	3600	0.20	1.0	+2.0 0	1600
MJC - 14C	WH	7	1.2	2.4	45000	1.9 x 10 ⁻⁷	14	0.10	1.0	+0.6 0	6.2
MJC - 20C	WH	11	3	6	31000	1.0 x 10 ⁻⁶	29	0.15	1.0	+0.8 0	16
MJC - 30C	WH	16	7.5	15	21000	6.0 x 10 ⁻⁶	73	0.15	1.0	+1.0 0	42
MJC - 40C	WH	25	10	20	15000	3.6 x 10 ⁻⁵	570	0.10	1.0	+1.2 0	130
MJC - 55C	WH	32	35	70	11000	1.6 x 10 ⁻⁴	1600	0.15	1.0	+1.4 0	310
MJC - 65C	WH	38	95	190	9000	3.5 x 10 ⁻⁴	3000	0.15	1.0	+1.5 0	500
MJC - 80C	WH	45	190	380	7000	1.0 x 10 ⁻³	5300	0.15	1.0	+1.8 0	1000
MJC - 95C	WH	55	265	530	6000	2.3 x 10 ⁻³	6200	0.15	1.0	+2.0 0	1600
MJC - 14C	RD	7	2	4	45000	1.9 x 10 ⁻⁷	22	0.10	1.0	+0.6 0	6.2
MJC - 20C	RD	11	5	10	31000	1.0 x 10 ⁻⁶	55	0.10	1.0	+0.8 0	16
MJC - 30C	RD	16	12.5	25	21000	6.0 x 10 ⁻⁶	130	0.10	1.0	+1.0 0	42
MJC - 40C	RD	25	17	34	15000	3.6 x 10 ⁻⁵	1200	0.10	1.0	+1.2 0	130
MJC - 55C	RD	32	60	120	11000	1.6 x 10 ⁻⁴	2600	0.10	1.0	+1.4 0	310
MJC - 65C	RD	38	160	320	9000	3.5 x 10 ⁻⁴	4900	0.10	1.0	+1.5 0	500
MJC - 80C	RD	45	325	650	7000	1.0 x 10 ⁻³	6500	0.10	1.0	+1.8 0	1000
MJC - 95C	RD	55	450	900	6000	2.3 x 10 ⁻³	8900	0.10	1.0	+2.0 0	1600
MJC - 14C	GR	7	2.4	4.8	45000	1.9 x 10 ⁻⁷	66	0.08	1.0	+0.6 0	6.2
MJC - 20C	GR	11	6	12	31000	1.0 x 10 ⁻⁶	87	0.08	1.0	+0.8 0	16
MJC - 30C	GR	16	16	32	21000	6.0 x 10 ⁻⁶	200	0.08	1.0	+1.0 0	42
MJC - 40C	GR	25	21	42	15000	3.6 x 10 ⁻⁵	3000	0.08	1.0	+1.2 0	130
MJC - 55C	GR	32	75	150	11000	1.6 x 10 ⁻⁴	9000	0.08	1.0	+1.4 0	310
MJC - 65C	GR	38	200	40	9000	3.5 x 10 ⁻⁴	13000	0.08	1.0	+1.5 0	500
MJC - 80C	GR	45	405	810	7000	1.0 x 10 ⁻³	14000	0.08	1.0	+1.8 0	1600
MJC - 95C	GR	55	560	1120	6000	2.3 x 10 ⁻³	15000	0.08	1.0	+2.0 0	1500

*These are values with max. bore diameter

MJC-K / MJC-CK (GS) Keyway



Dimensions

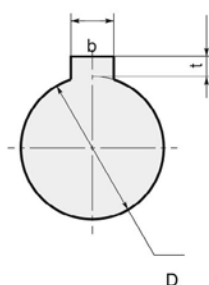
Type	Ref. GS	A	L	W	B	C	F	G	M	Screw Tightening Torque (N·m)
MJC - 30K	GS 14	30	11	35	10	1.5	5.5	-	M4	1.7
MJC - 40K	GS 19/24	40	25	66	12	2	12.5	-	M5	4
MJC - 55K	GS 24/32	55	30	78	14	2	15	-	M6	7
MJC - 65K	GS 28/38	65	35	90	15	2.5	17.5	-	M8	15
MJC - 80K	GS 38/45	80	45	114	18	3	22.5	-	M8	15
MJC - 95K	GS 42/55	95	55	126	20	3	25	-	M8	15
MJC - 30CK	GS 14	30	11	35	10	1.5	5.5	10	M4	2.5
MJC - 40CK	GS 19/24	40	25	66	12	2	8.5	14	M5	4
MJC - 55CK	GS 24/32	55	30	78	14	2	10.5	20	M6	8
MJC - 65CK	GS 28/38	65	35	90	15	2.5	13	24	M8	16
MJC - 80CK	GS 38/45	80	45	114	18	3	15	30	M8	16
MJC - 95CK	GS 42/55	95	50	126	20	3	18	34	M10	40

Standard metric bore diameter

Type	Standard bore diameter D1 X D2																			
	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45
MJC - 30K / MJC - 30CK	●	●	●	●	●	●														
MJC - 40K / MJC - 40CK	●	●	●	●	●	●	●	●	●	●	●	●								
MJC - 55K / MJC - 55CK	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
MJC - 65K / MJC - 65CK				●	●	●	●	●	●	●	●	●	●	●	●	●				
MJC - 80K / MJC - 80CK									●	●	●	●	●	●	●	●	●	●	●	●
MJC - 95K / MJC - 95CK												●	●	●	●	●	●	●	●	●

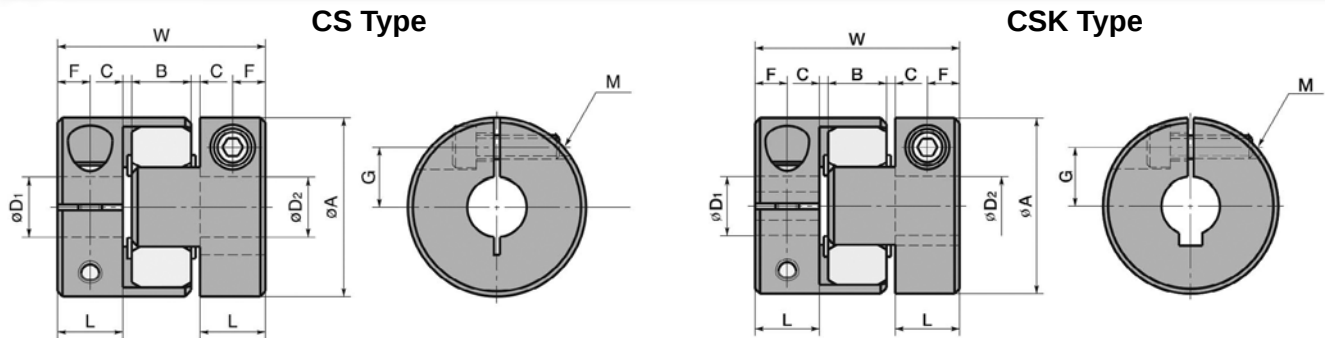
- All the products are provided with the hex socket set screw
- In a case where the bore diameter is less than 4mm, the set screw is used in only one place
- Hex socket, clamping type and others are available upon request
- Non-standard hubs and keyways are mechanised upon request

Keyway



Standard bore diameter D	Keyway				b h
	b mm	Allowance (JS9)	t mm	Allowance	
10 · 11 · 12	4	± 0.0150	1.8	+0.1 0	4x4
14 · 15 · 16	5		2.3		5x5
18 · 19 · 20	6		2.8		6x6
25 · 28 · 30	8	± 0.0180	3.3	+0.2 0	8x7
32 · 35 · 38	10		3.3		10x8
40 · 42	12	± 0.0215	3.3		12x8
45	14		3.8		14x9

MJS (GS) Clamping



Dimensions

Type	Ref. GS	A	L	W	B	C*1	F	M
MJS - 40C	GS 19/24	40	17	50	12	2	8.5	M5
MJS - 55C	GS 24/28	55	18	54	14	2	9	M6
MJS - 65C	GS 28/38	65	21	62	15	2.5	10.5	M8

Instal with C*1 dimension

Standard metric bore diameter CS type

Type	Standard bore diameter D ₁ X D ₂																		
	8	9.525	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38
MJS - 40CS	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
MJS - 55CS			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
MJS - 65CS						●	●	●	●	●	●	●	●	●	●	●	●	●	●

Standard metric bore diameter CSK type

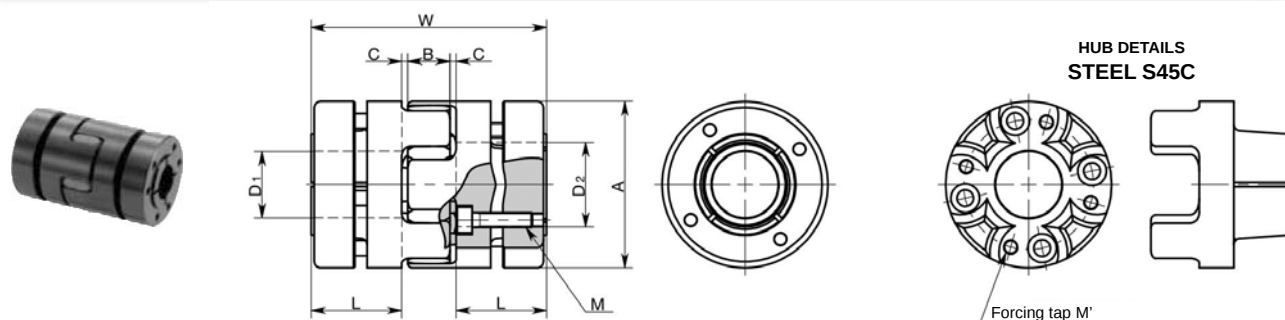
Type	Standard bore diameter D1 X D2																	
	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	
MJS - 40CSK	●	●	●	●	●	●	●	●	●	●	●	●						
MJS - 55CSK	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
MJS - 65CSK				●	●	●	●	●	●	●	●	●	●	●	●	●	●	

- All products are provided with hex socket head cap screw
- Recommended dimensional allowances of applicable shaft diameter are h6 and h7

Performance

Type	Ref	Max. Bore (mm)	Rated Torque (N·m)	Max. Torque (N·m)	Max. Rotational Frequency (min ⁻¹)	Moment of inertia (kg·m ²)	Static Torsional Stiffness (N·m/rad)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment (°)	Max. Axial Misalignment (mm)	Mass (g)
MJS-40	BL	25	4.9	9.8	15000	2.7 x 10 ⁻⁵	380	0.15	1.0	+1.2 0	100
MJS-55	BL	32	17	34	11000	1.1 x 10 ⁻⁴	1400	0.20	1.0	+1.4 0	210
MJS-65	BL	38	46	92	9000	2.4 x 10 ⁻³	2800	0.20	1.0	+1.5 0	340
MJS-40	WH	25	10	20	15000	2.7 x 10 ⁻⁵	570	0.10	1.0	+1.2 0	100
MJS-55	WH	32	35	70	11000	1.1 x 10 ⁻⁴	1600	0.15	1.0	+1.4 0	210
MJS-65	WH	38	95	190	9000	2.4 x 10 ⁻³	3000	0.15	1.0	+1.5 0	340
MJS-40	RD	25	17	34	15000	2.7 x 10 ⁻⁵	1200	0.10	1.0	+1.2 0	100
MJS-55	RD	32	60	120	11000	1.1 x 10 ⁻⁴	2600	0.10	1.0	+1.4 0	210
MJS-65	RD	38	160	320	9000	2.4 x 10 ⁻³	4900	0.10	1.0	+1.5 0	340
MJS-40	GR	25	21	42	15000	2.7 x 10 ⁻⁵	3000	0.08	1.0	+1.2 0	100
MJS-55	GR	32	75	150	11000	1.1 x 10 ⁻⁴	9000	0.08	1.0	+1.4 0	210
MJS-65	GR	38	200	400	9000	2.4 x 10 ⁻³	13000	0.08	1.0	+1.5 0	340

MJB (GS) Jaw (bushing)



Dimensions

Type	A	L	W	B	C*1	M	Number of screws	M' Screw extractor	Forcing tap Torque (N·m)
MJB - 40	40	66	66	12	2	M4	6	M4	4
MJB - 55	55	78	78	14	2	M5	4	M5	8.5
MJB - 65	65	90	90	15	2.5	M5	8	M5	8.5
MJB - 80	80	114	114	18	3	M6	8	M6	14
MJB - 95	95	126	126	20	3	M8	8	M8	35

Instal with C*1 dimension

Standard metric bore diameter

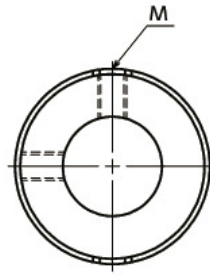
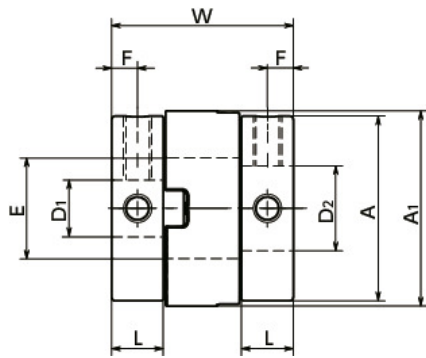
Type	Standard bore diameter D1 X D2																			
	8	9.525	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40
MJB - 40	●	●	●	●	●	●	●	●	●	●	●									
MJB - 55			●	●	●	●	●	●	●	●	●	●	●	●	●					
MJB - 65						●	●	●	●	●	●	●	●	●	●	●	●	●	●	
MJB - 80											●	●	●	●	●	●	●	●	●	●
MJB - 95														●	●	●	●	●	●	●

- All products are provided with hex socket head cap screw
- Recommended dimensional allowances of applicable shaft diameter are H6 and H7

Performance

Type	Max. Bore (mm)	Rated Torque (N·m)	Max. Torque (N·m)	Max. Rotational Frequency (min ⁻¹)	Moment of inertia (kg·m ²)	Static Torsional Stiffness (N·m/rad)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment (°)	Max. Axial Misalignment (mm)	Mass (g)
MJB-40-BL	20	4.9	9.8	23000	3.9 × 10 ⁻⁵	380	0.15	1.0	+1.2 0	400
MJB-55-BL	28	17	34	17000	1.6 × 10 ⁻⁴	1400	0.2	1.0	+1.4 0	800
MJB-65-BL	38	46	92	14000	3.8 × 10 ⁻⁴	2800	0.2	1.0	+1.5 0	1100
MJB-80-BL	45	95	190	11000	1.0 × 10 ⁻³	3200	0.2	1.0	+1.8 0	2300
MJB-95-BL	50	130	260	10000	2.3 × 10 ⁻³	3600	0.2	1.0	+2.0 0	4000
MJB-40-WH	20	10	20	23000	3.9 × 10 ⁻⁵	570	0.1	1.0	+1.2 0	400
MJB-55-WH	28	35	70	17000	1.6 × 10 ⁻⁴	1600	0.15	1.0	+1.4 0	800
MJB-65-WH	38	95	190	14000	3.8 × 10 ⁻⁴	3000	0.15	1.0	+1.5 0	1100
MJB-80-WH	45	190	380	11000	1.0 × 10 ⁻³	5300	0.15	1.0	+1.8 0	2300
MJB-95-WH	50	265	530	10000	2.3 × 10 ⁻³	6200	0.15	1.0	+2.0 0	4000
MJB-40-RD	20	17	34	23000	3.9 × 10 ⁻⁵	1200	0.1	1.0	+1.2 0	400
MJB-55-RD	28	60	120	17000	1.6 × 10 ⁻⁴	2600	0.1	1.0	+1.4 0	800
MJB-65-RD	38	160	320	14000	3.8 × 10 ⁻⁴	4900	0.1	1.0	+1.5 0	1100
MJB-80-RD	45	325	650	11000	1.0 × 10 ⁻³	6500	0.1	1.0	+1.8 0	2300
MJB-95-RD	50	450	900	10000	2.3 × 10 ⁻³	8900	0.1	1.0	+2.0 0	4000
MJB-40-GR	20	21	42	23000	3.9 × 10 ⁻⁵	3000	0.08	1.0	+1.2 0	400
MJB-55-GR	28	75	150	17000	1.6 × 10 ⁻⁴	9000	0.08	1.0	+1.4 0	800
MJB-65-GR	38	200	400	14000	3.8 × 10 ⁻⁴	13000	0.08	1.0	+1.5 0	1100
MJB-80-GR	45	405	810	11000	1.0 × 10 ⁻³	14000	0.08	1.0	+1.8 0	2300
MJB-95-GR	50	560	1120	10000	2.3 × 10 ⁻³	15000	0.08	1.0	+2.0 0	4000

MOC



Dimensions

Type	A	A1	L	W	E	F	M	Screw Tightening Torque (N·m)
MOC-12	12	12	3.9	14.4	5.2	1.9	M3	0.7
MOC-17	15	16.5	4.4	16	8.2	2.2	M3	0.7
MOC-23	20	22.5	5.8	21.6	12.2	2.9	M4	1.7
MOC-28	26	27.5	7.3	25.6	14.2	3.7	M4	1.7
MOC-33	30	32.5	10	32.6	15.2	5	M4	1.7
MOC-41	38	41	12.1	40.1	18.3	6.1	M4	4

Type	Standard bore diameter D ₁ X D ₂											
	3	4	5	6	8	10	12	14	15	16	18	20
MOC-12	●	●	●									
MOC-17		●	●	●	●							
MOC-23			●	●	●	●	●					
MOC-28				●	●	●	●	●				
MOC-33					●	●	●	●	●	●		
MOC-41						●	●	●	●	●	●	●

Performance

Type	Max. Bore (mm)	Rated Torque (N·m)	Max. Torque (N·m)	Max. Rotational Frequency (min ⁻¹)	Moment of inertia (kg·m ²)	Static Torsional Stiffness (N·m/rad)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment (°)	Mass (g)
MOC-12	5	1.2	2.1	3000	6.8 × 10 ⁻⁸	25	1	3	3
MOC-17	8	1.8	3.6	3000	2.0 × 10 ⁻⁷	50	1	3	5
MOC-23	12	4	8	3000	8.1 × 10 ⁻⁷	150	1.2	3	11
MOC-28	14	8	14	3000	2.6 × 10 ⁻⁶	350	1.5	3	24
MOC-33	16	16	25	3000	6.1 × 10 ⁻⁶	450	2	3	39
MOC-41	20	30	46	3000	1.9 × 10 ⁻⁵	1100	2.5	3	77

Set Screw Type



Clamping Type

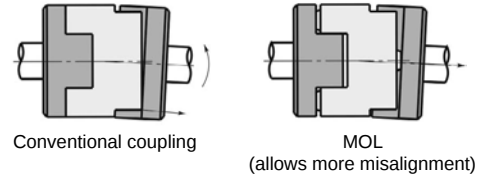


Finish	Material		
	Hub	Spacer	Screw
MOC MOC-C	Aluminium (A2017)	Polyacetal	SCM435

Ask for more technical specifications of other models

Characteristics

- Oldham type flexible coupling
- High torsional stiffness
- Slippage of hubs and a spacer allows large eccentricity and angular misalignment to be accepted
- It has electrical insulation
- Allowable operating temperature: -20 C to 80C
- Finished bores available in stock



The load on the shaft generated by misalignment is small and the burden on the shaft is reduced

Structure and material

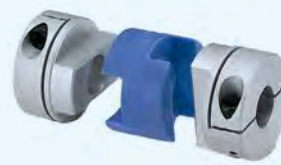
Set Screw Type

MOL



Clamping Type

MOL-C



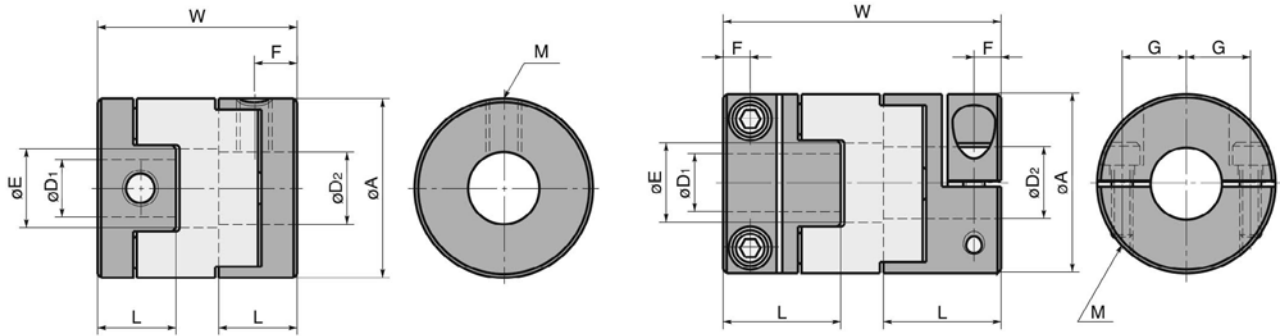
Finish	Material	
	Hub	Spacer
MOL / MOL-C	Clamping Type Anodized (A2017)	Polyacetal

Performance

Type	Max. Bore (mm)	Rated Torque (N·m)	Max. Torque* (N·m)	Max. Rotational Frequency (min ⁻¹)	Moment of inertia** (kg·m ²)	Static Torsional Stiffness (N·m/rad)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment (°)	Mass** (g)
MOL -16	6.35	0.7	1.4	39000	3.2 x 10 ⁻⁷	31	1.0	3	7
MOL -20	8	1.2	2.4	31000	1.0 x 10 ⁻⁶	60	1.5	3	14
MOL -25	10	2	4	25000	3.0 x 10 ⁻⁶	140	2.0	3	27
MOL -32	14	4.5	9	19000	9.5 x 10 ⁻⁶	280	2.5	3	50
MOL -40	16	9	18	15000	2.3 x 10 ⁻⁵	540	3.0	3	80
MOL -50	20	18	36	12000	6.7 x 10 ⁻⁵	820	3.5	3	150
MOL -63	25	36	72	10000	2.2 x 10 ⁻⁴	1900	4.0	3	300
MOL -16C	6	0.7	1.4	39000	5.8 x 10 ⁻⁷	31	1.0	3	12
MOL -20C	8	1.2	2.4	31000	1.5 x 10 ⁻⁶	60	1.5	3	19
MOL -25C	10	2	4	25000	4.4 x 10 ⁻⁶	140	2.0	3	36
MOL -32C	14	4.5	9	19000	1.4 x 10 ⁻⁵	280	2.5	3	69
MOL -40C	16	9	18	15000	4.1 x 10 ⁻⁵	540	3.0	3	130
MOL -50C	20	18	36	12000	1.2 x 10 ⁻⁴	820	3.5	3	230
MOL -63C	25	36	72	10000	3.7 x 10 ⁻⁴	1900	4.0	3	450

*Values with no load fluctuation and rotation in a single direction. If there is large load fluctuation, or both normal and reverse rotation, select a size with some margin. If ambient temperature exceeds 30 C, be sure to correct the rated torque and max. torque with temperature correction factor shown in the above table. The allowable operating temperature of MOL and MOL-C is -20 C to 80 C

** These are values with max. bore diameter



Dimensions

Type	A	L	W	E	F	G	M	Screw Tightening Torque (N·m)
MOL -16	16	7	18	7	3.5	-	M3	0.7
MOL -20	20	9	23	9	4.5	-	M4	1.7
MOL -25	25	11	28	11	5.5	-	M5	4
MOL -32	32	13	33	14.5	6.5	-	M6	7
MOL -40	40	14	32	17	7	-	M6	7
MOL -50	50	17	38	23	8.5	-	M8	15
MOL -63	63	21	47	28	10.5	-	M10	30
MOL -16C	16	13	29	7	3	5	M2.5	1
MOL -20C	20	14	33	9	3	6.5	M2.5	1
MOL -25C	25	17	39	11	3.8	9	M3	1.5
MOL -32C	32	19	45	14.5	4.5	11	M4	2.5
MOL -40C	40	23	50	17	7	13	M5	4
MOL -50C	50	27	58	23	8	16	M6	8
MOL -63C	63	33	71	28	10	21	M8	16

Standard bore diameter

Type	Standard bore diameter D1 X D2															
	3	4	5	6	6.35	8	9.525	10	11	12	14	15	16	18	20	25
MOL -16	●	●	●	●	●											
MOL -20		●	●	●	●	●										
MOL -25			●	●	●	●	●	●								
MOL -32						●		●		●	●					
MOL -40								●		●	●	●	●			
MOL -50										●	●	●	●	●	●	
MOL -63													●	●	●	●
MOL -16C			●	●												
MOL -20C				●	●	●										
MOL -25C					●	●		●								
MOL -32C						●		●	●	●	●					
MOL -40C										●	●	●	●			
MOL -50C													●	●	●	
MOL -63C														●	●	●

- All products are provided with hex socket set screws (MOL) and with hex socket head cap screws (MOL-C)
- Tolerance of shaft bore on set screw type MOL is H8
- Recommended tolerance for shaft diameters is H6 and H7
- A set of hubs with set screw type for one side and clamping type for other side is available upon request

Characteristics

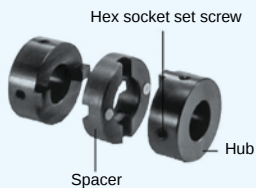
- Oldham type flexible coupling
- FCD 400 is adopted in the spacer
- Allowable operating temperature from -20°C to 120°C
- Slippage of hubs and a spacer allows large eccentricity and angular misalignment to be accepted
- A projection placed in the spacer (resin pin) allows angular misalignment to be effortlessly accepted
- Suitable for low-speed and high-torque specification
- Finished bores available in stock



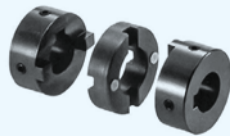
Structure and material

Set Screw Type

MOM



MOM-K

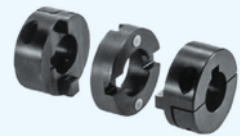


Clamping Type

MOM-C



MOM-CK

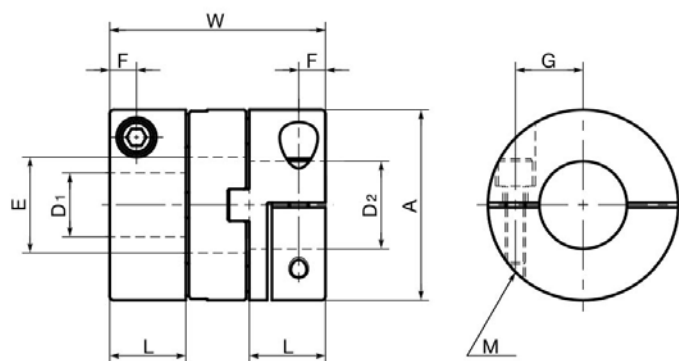


Finish	Material		
	Hub	Spacer	Screw
MOM / MOM-K MOM-C / MOM-CK	S45C	FCD400 (Steel GGG40)	SCM435

Performance

Type	Max. Bore (mm)	Rated Torque (N·m)	Max. Torque (N·m)	Max. Rotational Frequency (min ⁻¹)	Moment of inertia (kg·m ²)	Static Torsional Stiffness (N·m/rad)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment (°)	Mass (g)
MOM -15C	6	3.3	6.6	2000	6.2 × 10 ⁻⁷	870	0.3	2	19
MOM -17C	6.35	5.5	11	2000	1.4 × 10 ⁻⁶	1300	0.3	2	34
MOM -20C	10	7.7	15.4	2000	3.0 × 10 ⁻⁶	1700	0.4	2	47
MOM -26C	12	11	22	2000	9.6 × 10 ⁻⁶	3200	0.5	2	92
MOM -30C	14	26	52	2000	1.8 × 10 ⁻⁵	4600	0.6	2	131
MOM -34C	16	35	70	2000	3.1 × 10 ⁻⁵	6000	0.7	2	173
MOM -38C	20	55	110	2000	5.5 × 10 ⁻⁵	7400	0.8	2	235
MOM -45C	22	66	132	2000	1.2 × 10 ⁻⁴	16000	1	2	387
MOM -55C	25	99	198	2000	3.4 × 10 ⁻⁴	30000	1.2	2	752
MOM -70C	35	176	352	2000	1.0 × 10 ⁻³	46000	1.4	2	1370

Ask for more technical specifications of other models



Dimensions

Type	A	L	W	E	F	G	M	Screw Tightening Torque (N·m)
MOM -15C	15	6.6	19	6.9	2.15	5.2	M1.6	0.25
MOM -17C	17	9	25	7.3	2.65	5.5	M2	0.5
MOM -20C	20	10	28	11.1	3.25	7.25	M2.5	1
MOM -26C	26	11.5	31.6	13.3	4	9	M3	1.5
MOM -30C	30	12	34	15.5	4	11	M3	1.5
MOM -34C	34	13	35	17.5	4.5	12	M4	3.5
MOM -38C	38	15	40.5	21.5	4.75	14	M4	3.5
MOM -45C	45	16.2	47.6	24.3	6.2	16	M5	8
MOM -55C	55	20.8	58.6	27.7	7.9	20	M6	13
MOM -70C	70	25	68.6	38.5	8.9	26	M6	13

Standard bore diameter

Type	Standard bore diameter D1 X D2																		
	3	4	5	6	6.35	8	10	12	14	15	16	18	20	22	24	25	28	30	35
MOM -15C	●	●	●	●															
MOM -17C		●	●	●															
MOM -20C			●	●	●	●	●												
MOM -26C				●	●	●	●	●											
MOM -30C						●	●	●	●										
MOM -34C							●	●	●	●	●								
MOM -38C							●	●	●	●	●	●	●						
MOM -45C								●	●	●	●	●	●	●					
MOM -55C										●	●	●	●	●	●	●			
MOM -70C												●	●	●	●	●	●	●	●

- All products are provided with hex socket set screws.
- Recommended tolerance for shaft diameters is H6 and H7

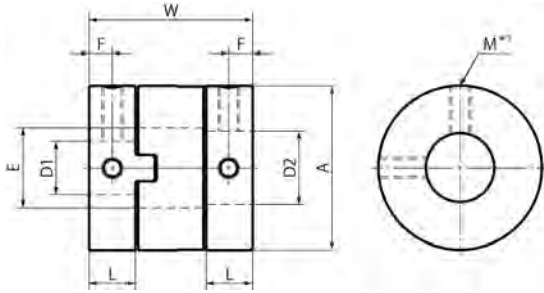


GREASE HOLE

GREASE HOLE

- No maintenance needed over long periods of time.
- The grease accumulated in a grease hole will gradually seep out during operation, thereby maintaining the lubrication property over a long period.

MOR



Characteristics

- Slippage of hubs and a spacer allows large eccentricity and angular misalignment to be accepted.
- Allowable operating temperature from -20°C to 80°C

Structure and material

Set Screw Type

MOR



MOR-K



Clamping Type

MOR-C



MOR-CK



Material

Hub	Aluminium alloy (A2017)
Spacer	Polyacetal
Screw	SCM435

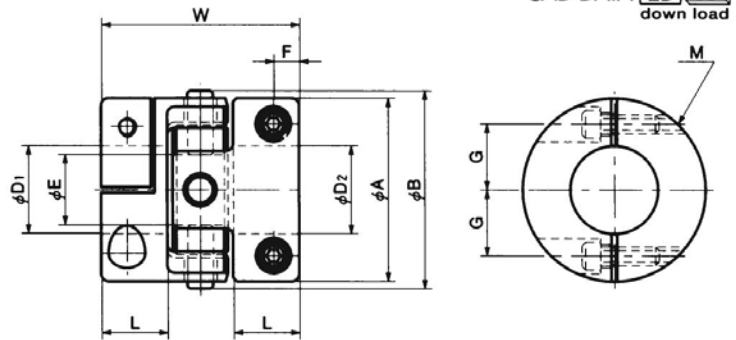
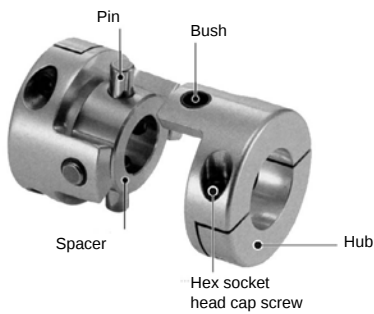
Performance and dimensions

Type	Max. Bore (mm)	Rated Torque (N·m)	Max. Torque (N·m)	Max. Rotational Frequency (min ⁻¹)	Moment of inertia (kg·m ²)	Static Torsional Stiffness (N·m/rad)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment (°)	Mass (g)
MOR-12C	5	1	2	52000	6.6×10 ⁻⁸	60	1	3	3
MOR-15C	6	1.6	3.2	42000	1.7×10 ⁻⁷	80	1	3	5
MOR-17C	6.35	2.2	4.4	37000	3.8×10 ⁻⁷	120	1.2	3	9
MOR-20C	10	3.2	6.4	31000	8.0×10 ⁻⁷	120	1.2	3	13
MOR-26C	14	6	12	24000	2.5×10 ⁻⁶	300	1.5	3	24
MOR-30C	14	15	30	21000	5.3×10 ⁻⁶	530	2	3	39
MOR-34C	16	16	32	18000	8.6×10 ⁻⁶	1000	2.5	3	50
MOR-38C	20	28	56	16000	1.5×10 ⁻⁵	1500	2.5	3	67
MOR-45C	20	30	60	14000	3.2×10 ⁻⁵	2400	3	3	110
MOR-55C	25	45	90	11000	1.0×10 ⁻⁴	4100	4	3	230
MOR-68C	35	80	160	9000	3.3×10 ⁻⁴	6400	4.5	3	440

Type	A	L	W	E	F	G	M	Screw Tightening Torque (N·m)	Standard bore diameter D1 X D2																		
									3	4	5	6	6.35	8	9.525	10	12	14	15	16	18	19	20	22	25	28	30
MOR-12C	12	6.2	19	5.2	3.1	4	M2	0.5	●	●	●																
MOR-15C	15	7	21.2	8.2	3.5	5	M2.5	1		●	●	●															
MOR-17C	17	7.3	24.5	8.2	3.7	6	M2.5	1			●	●	●														
MOR-20C	20	8.8	27.6	12.2	4.4	7.5	M3	1.5			●	●	●	●	●												
MOR-26C	26	9.7	30.4	14.2	4.9	9.5	M3	1.5				●	●	●	●	●											
MOR-30C	30	10	32.6	16.2	5	11.1	M4	2.5						●	●	●											
MOR-34C	34	11.1	34	16.2	5.6	12.6	M4	2.5							●	●	●	●	●								
MOR-38C	38	12.1	40.1	20.3	6	14.2	M5	4							●	●	●	●	●	●	●	●					
MOR-45C	45	13.8	46	22.3	6.9	16	M5	4								●	●	●	●	●		●					
MOR-55C	55	18.7	57	26.5	9.4	20	M6	8									●	●	●	●	●	●	●	●			
MOR-68C	68	24	77	38.5	12	26	M8	16														●	●	●	●	●	●

Characteristics

- Slippage of the bush built in the hubs and the pins of the spacer allows eccentricity and angular misalignment to be accepted
- The high accuracy fitting of pin and bush allows for extremely small backlash
- The load on the shaft generated by misalignment is small and the burden on the shaft is reduced
- Identical rotational features on both sides
- Vibration absorption



Dimensions

Type	A	B	L	W	E	F	G	M	Screw Tightening Torque (N·m)
XUT-15C	15	16	6	18	4	2.5	5.2	M2	0.5
XUT-20C	20	22	7	20	7	2.7	6.5	M2	0.5
XUT-25C	25	27	9	27	10	3.5	9	M2.5	1
XUT-30C	30	32	9.5	30	10	4	10.5	M3	1.5
XUT-35C	35	37	11.5	35	13	5	12.5	M4	2.5
XUT-40C	40	42	12.5	40	15	5.5	15	M4	2.5

Type	Standard bore diameter D1 X D2													
	3	4	5	6	8	10	11	12	14	15	16	18	19	20
XUT-15C	●	●	●	●										
XUT-20C		●	●	●	●									
XUT-25C			●	●	●	●	●	●						
XUT-30C					●	●	●	●	●					
XUT-35C					●	●	●	●	●	●	●			
XUT-40C					●	●	●	●	●	●	●	●	●	●

- All products are provided with hex socket head cap screw
- Recommended dimensional allowances of applicable shaft diameter are H6 and H7

Performance

Type	Max. Bore (mm)	Rated Torque (N·m)	Max. Torque (N·m)	Max. Rotational Frequency (min ⁻¹)	Moment of inertia (kg·m ²)	Static Torsional Stiffness (N·m/rad)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment (°)	Mass (g)
XUT-15C	6	0.3	0.6	42000	2.3 × 10 ⁻⁷	200	0.2	1	8
XUT-20C	8	0.6	1.2	31000	8.1 × 10 ⁻⁷	400	0.2	1	16
XUT-25C	12	1.2	2.4	25000	2.7 × 10 ⁻⁶	900	0.2	1	33
XUT-30C	14	2.4	4.8	21000	6.2 × 10 ⁻⁶	1300	0.2	1	53
XUT-35C	16	4	8	18000	1.3 × 10 ⁻⁵	2200	0.2	1	81
XUT-40C	10	6	12	15000	2.6 × 10 ⁻⁵	2300	0.2	1	120

RIGID SERIE

MRG / MRGS



MLR / MLRS

