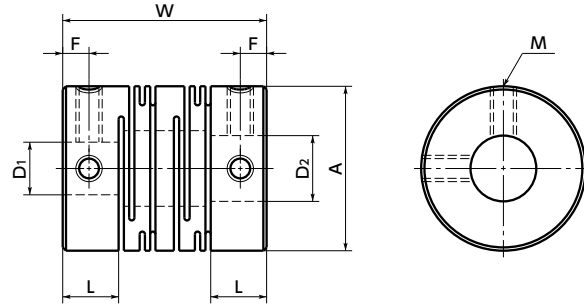


MST/MSTS Flexible coupling - Slit - type - Set screw type

WEB Selection Tool | WEB CAD Download | Zero Backlash | SUS Stainless steel

MST Made of aluminum alloy
MSTS Made of all stainless steel



Dimensions

Unit : mm

Part Number	A	L	W	F	M	Screw Tightening Torque (N·m)
MST-8	8	3.5	14	1.7	M2	0.3
MST-12	12	5	18.5	2.5	M2.5	0.5
MST-16	16	6.5	23	3	M3	0.7
MST-20	20	7.5	26	3	M3	0.7
MST-25	25	8.5	31	4	M4	1.7
MST-32	32	12	41	6	M4	1.7
MST-40	40	17	56	8.5	M5	4
MST-50	50	21	71	10.5	M6	7
MST-63	63	26	90	13	M8	15
MSTS-8	8	3.5	14	1.7	M2	0.3
MSTS-12	12	5	18.5	2.5	M2.5	0.5
MSTS-16	16	6.5	23	3	M3	0.7
MSTS-20	20	7.5	26	3	M3	0.7
MSTS-25	25	8.5	31	4	M4	1.7
MSTS-32	32	12	41	6	M4	1.7
MSTS-40	40	17	56	8.5	M5	4
MSTS-50	50	21	71	10.5	M6	7
MSTS-63	63	26	90	13	M8	15

Part Number	Standard Bore Diameter (dimensional allowance H8) D1-D2								
MST-8	MSTS-8	2 - 2	2 - 3	3 - 3					
MST-12	MSTS-12	3 - 3	3 - 4	4 - 4	4 - 5	4.5 - 5	5 - 5	5 - 6	
MST-16	MSTS-16	4 - 4 6 - 6.35	4 - 5 6 - 7	4 - 6 6 - 8	4.5 - 5 6.35 - 8	5 - 5	5 - 6	5 - 8	6 - 6
MST-20	MSTS-20	5 - 5 6.35 - 8	5 - 6 8 - 8	5 - 8 8 - 9.525*1	6 - 6 8 - 10	6 - 6.35 10 - 10	6 - 7	6 - 8	6 - 10
MST-25	MSTS-25	5 - 6 8 - 9.525*1	6 - 6 8 - 10	6 - 6.35 8 - 12	6 - 8 9.525 - 10	6 - 10 10 - 10	6.35 - 8 10 - 11*1	6.35 - 10 10 - 12	8 - 8 12 - 12
MST-32	MSTS-32	6 - 8 10 - 12	6.35 - 8 10 - 14	8 - 8 12 - 12	8 - 10 12 - 14	8 - 12 14 - 14	9.525 - 12 14 - 16	10 - 10	10 - 11
MST-40	MSTS-40	8 - 9.525	10 - 10	12 - 12	14 - 14	15 - 15	16 - 16	16 - 18*1	18 - 18
MST-50	MSTS-50	12 - 12	14 - 14	15 - 15	16 - 18				
MST-63	MSTS-63	14 - 14							

- All products are provided with hex socket set screw.
 - In a case where the bore diameter is $\phi 4$ or less, the set screw is used in only one place.
 - Recommended dimensional allowances of applicable shaft diameter are h6 and h7.
- *1 : Only **MSTS-*** is standard product. For **MST-***, use the additional modification service **BT**. → P.803

Additional Keyway at Shaft Hole → P.803 | Cleanroom Wash & Packaging → P.807 | SUS Change to Stainless Steel Screw → P.805
 Available / Add'l charge | Available / Add'l charge | Available / Add'l charge

Performance

Part Number	Max. Bore Diameter (mm)	Rated*1 torque (N·m)	Max. Rotational Frequency (min ⁻¹)	Moment*2 of Inertia (kg·m ²)	Static Torsional Stiffness (N·m/rad)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment (°)	Max. Axial Misalignment (mm)	Mass*2 (g)
MST-8	4	0.1	78000	1.2×10 ⁻⁸	25	0.1	2	±0.2	1.4
MST-12	6	0.4	52000	8.3×10 ⁻⁸	45	0.1	2	±0.3	3.7
MST-16	8	0.5	39000	3.3×10 ⁻⁷	80	0.1	2	±0.4	8.1
MST-20	10	1	31000	9.0×10 ⁻⁷	170	0.1	2	±0.4	14
MST-25	12	2	25000	2.6×10 ⁻⁶	380	0.15	2	±0.5	27
MST-32	16	4	19000	9.6×10 ⁻⁶	500	0.15	2	±0.5	60
MST-40	20	8	15000	3.2×10 ⁻⁵	700	0.2	2	±0.5	130
MST-50	25	16	12000	1.0×10 ⁻⁴	1800	0.2	2	±0.5	260
MST-63	35	32	10000	3.2×10 ⁻⁴	3100	0.2	2	±0.5	490
MSTS-8	4	0.2	78000	3.1×10 ⁻⁸	50	0.1	2	±0.2	3
MSTS-12	6	0.3	52000	2.1×10 ⁻⁷	64	0.1	2	±0.3	9.3
MSTS-16	8	0.5	39000	8.4×10 ⁻⁷	85	0.1	2	±0.3	21
MSTS-20	10	1	31000	2.4×10 ⁻⁶	250	0.1	2	±0.3	38
MSTS-25	12	2	25000	6.8×10 ⁻⁶	330	0.15	2	±0.4	71
MSTS-32	16	3.5	19000	2.6×10 ⁻⁵	850	0.15	2	±0.5	160
MSTS-40	20	8	15000	8.7×10 ⁻⁵	1000	0.2	2	±0.5	350
MSTS-50	25	15	12000	2.7×10 ⁻⁴	1400	0.2	2	±0.5	700
MSTS-63	35	35	10000	8.4×10 ⁻⁴	1800	0.2	2	±0.5	1300

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

• Part number specification

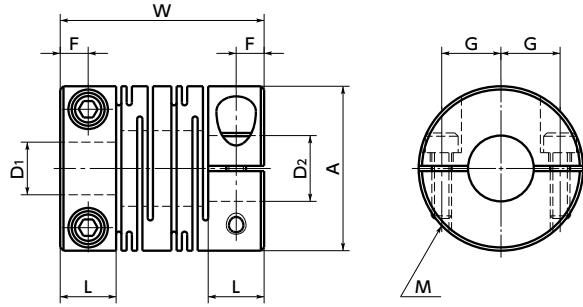
MSTS-25-9.525-10



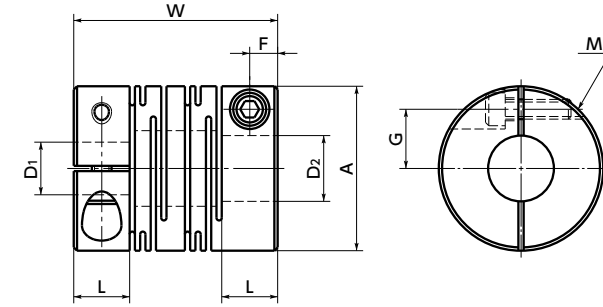
MST-C/MSTS-C Flexible coupling - Slit - type - Clamping type

WEB Selection Tool WEB CAD Download 0 Zero Backlash SUS Stainless steel

MST-C Made of aluminum alloy
MSTS-C Made of all stainless steel
 Outside diameter $\phi 40 - \phi 63$



MSTS-C Made of all stainless steel
 Outside diameter $\phi 12 - \phi 32$



Dimensions

Unit : mm

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

Part Number	Standard Bore Diameter D1-D2								
MST-12C	MSTS-12C	4 - 4	4 - 5	4.5 - 5	5 - 5				
MST-16C	MSTS-16C	4.5 - 5	4.5 - 6	5 - 5	5 - 6	6 - 6			
MST-20C	MSTS-20C	5 - 6 6.35 - 8	5 - 6.35 8 - 8	5 - 7	5 - 8	6 - 6	6 - 6.35	6 - 7	6 - 8
MST-25C	MSTS-25C	5 - 6 8 - 9.525	6 - 6 8 - 10	6 - 6.35 9.525 - 10	6 - 8 10 - 10	6 - 10	6.35 - 8	6.35 - 10	8 - 8
MST-32C	MSTS-32C	8 - 8 10 - 12	8 - 9.525 10 - 14	8 - 10 12 - 12	8 - 12 12 - 14	9.525 - 10	9.525 - 12	10 - 10	10 - 11
MST-40C	MSTS-40C	8 - 8 15 - 16	8 - 10 16 - 16	10 - 10	12 - 12	12 - 14	14 - 14	14 - 16	15 - 15
MST-50C	MSTS-50C	12 - 14	14 - 14	15 - 15	16 - 16	18 - 18			
MST-63C	MSTS-63C	14 - 14	16 - 16	18 - 18					

- All products are provided with hex socket head cap screw.
- Recommended dimensional allowances of applicable shaft diameter are h6 and h7.
- In case of mounting on D-cut shaft, be careful about the position of the D-cut surface of the shaft. → P.258
- **MST-C** has variable slit shapes depending on the size. See the Slit Details.

Performance

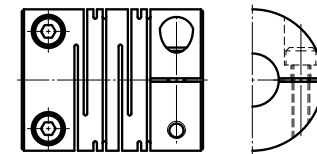
Part Number	Max. Bore Diameter (mm)	Rated*1 torque (N·m)	Max. Rotational Frequency (min ⁻¹)	Moment*2 of Inertia (kg·m ²)	Static Torsional Stiffness (N·m/rad)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment (°)	Max. Axial Misalignment (mm)	Mass*2 (g)
MST-12C	5	0.4	52000	7.8×10 ⁻⁸	45	0.1	2	±0.3	3.6
MST-16C	6	0.5	39000	3.4×10 ⁻⁷	80	0.1	2	±0.4	9.2
MST-20C	8	1	31000	9.1×10 ⁻⁷	170	0.1	2	±0.4	16
MST-25C	10	2	25000	2.6×10 ⁻⁶	380	0.15	2	±0.5	28
MST-32C	14	4	19000	9.7×10 ⁻⁶	500	0.15	2	±0.5	64
MST-40C	18	8	15000	3.3×10 ⁻⁵	700	0.2	2	±0.5	140
MST-50C	22	16	12000	1.0×10 ⁻⁴	1800	0.2	2	±0.5	270
MST-63C	30	32	10000	3.2×10 ⁻⁴	3100	0.2	2	±0.5	530
MSTS-12C	5	0.3	52000	2.2×10 ⁻⁷	64	0.1	2	±0.2	10
MSTS-16C	6	0.5	39000	9.0×10 ⁻⁷	85	0.1	2	±0.3	25
MSTS-20C	8	1	31000	2.5×10 ⁻⁶	250	0.1	2	±0.3	43
MSTS-25C	10	2	25000	7.1×10 ⁻⁶	330	0.15	2	±0.4	78
MSTS-32C	14	3.5	19000	2.7×10 ⁻⁵	850	0.15	2	±0.5	170
MSTS-40C	18	8	15000	9.0×10 ⁻⁵	1000	0.2	2	±0.5	370
MSTS-50C	22	15	12000	2.8×10 ⁻⁴	1400	0.2	2	±0.5	750
MSTS-63C	30	35	10000	8.8×10 ⁻⁴	1800	0.2	2	±0.5	1400

*1: Correction of rated torque due to load fluctuation is not required.

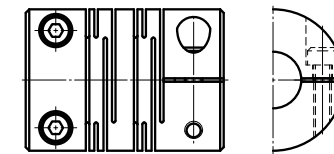
*2: These are values with max. bore diameter.

Slit Details

MST-C



Outside diameter $\phi 12 - \phi 32$



Outside diameter $\phi 40 - \phi 63$

Part number specification

MST-40C - 12-14

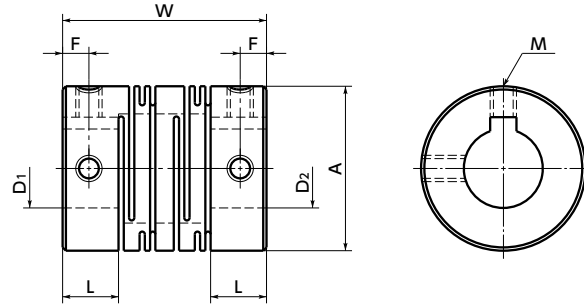


Additional Keyway at Shaft Hole → P.803 Cleanroom Wash & Packaging → P.807 SUS Change to Stainless Steel Screw → P.805
 Available / Add'l charge Available / Add'l charge Available / Add'l charge

MST-K/MSTS-K Flexible coupling - Slit - type - Set screw + Key type

WEB Selection Tool WEB CAD Download Zero Backlash SUS Stainless steel

MST-K Made of aluminum alloy
MSTS-K Made of all stainless steel



Dimensions

Unit : mm

Part Number	A	L	W	F	M	Screw Tightening Torque (N·m)
MST-32K	32	12	41	6	M4	1.7
MST-40K	40	17	56	8.5	M5	4
MST-50K	50	21	71	10.5	M6	7
MST-63K	63	26	90	13	M8	15
MSTS-32K	32	12	41	6	M4	1.7
MSTS-40K	40	17	56	8.5	M5	4
MSTS-50K	50	21	71	10.5	M6	7
MSTS-63K	63	26	90	13	M8	15

Part Number	Standard Bore Diameter (dimensional allowance H8) D1-D2	
MST-32K	12 - 12	14 - 14
MST-40K	14 - 14	16 - 16
MST-50K	16 - 16	18 - 18
MST-63K	20 - 20	25 - 25
MSTS-32K	12 - 12	14 - 14
MSTS-40K	14 - 14	16 - 16
MSTS-50K	16 - 16	18 - 18
MSTS-63K	20 - 20	25 - 25

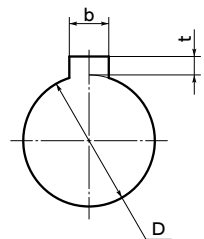
- All products are provided with hex socket set screw.
- Recommended dimensional allowances of applicable shaft diameter are h6 and h7.

Performance

Part Number	Max. Bore Diameter (mm)	Rated*1 torque (N·m)	Max. Rotational Frequency (min ⁻¹)	Moment*2 of Inertia (kg·m ²)	Static Torsional Stiffness (N·m/rad)	Max. Lateral Misalignment (mm)	Max. Angular Misalignment (°)	Max. Axial Misalignment (mm)	Mass*2 (g)
MST-32K	14	4	19000	9.6×10 ⁻⁶	500	0.15	2	±0.5	59
MST-40K	18	8	15000	3.2×10 ⁻⁵	700	0.2	2	±0.5	130
MST-50K	20	16	12000	1.0×10 ⁻⁴	1800	0.2	2	±0.5	270
MST-63K	30	32	10000	3.2×10 ⁻⁴	3100	0.2	2	±0.5	490
MSTS-32K	14	3.5	19000	2.6×10 ⁻⁵	850	0.15	2	±0.5	160
MSTS-40K	18	8	15000	8.6×10 ⁻⁵	1000	0.2	2	±0.5	340
MSTS-50K	20	15	12000	2.8×10 ⁻⁴	1400	0.2	2	±0.5	730
MSTS-63K	30	35	10000	8.5×10 ⁻⁴	1800	0.2	2	±0.5	1300

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

• Details of Shaft Hole



Unit : mm

Standard bore diameter D	Keyway				Key Nominal Dimension b×h
	Standard Dimension	Allowance (JS9)	Standard Dimension	Allowance (JS9)	
12	4	±0.0150	1.8	+0.1 0	4×4
14·16	5	±0.0150	2.3	+0.1 0	5×5
18·20	6	±0.0150	2.8	+0.1 0	6×6
25·30	8	±0.0180	3.3	+0.2 0	8×7

• Excerpt from JIS B 1301

Additional Keyway at Shaft Hole → P.803 Cleanroom Wash & Packaging → P.807 SUS Change to Stainless Steel Screw → P.805

Please feel free to contact us

Available / Add'l charge

Available / Add'l charge

• Part number specification

MST-32K-12-12

