

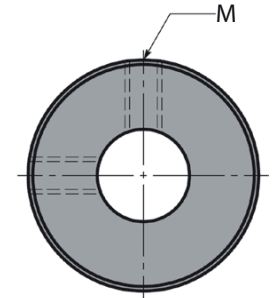
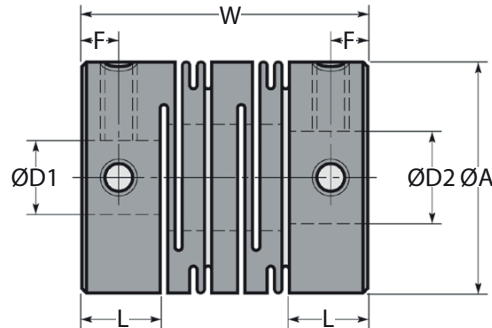
MST

COUPLINGS

MST

Miniature 8 Slit Flexible Shaft Coupling

Aluminium with Set Screw : 0.1 - 40Nm, 2 - 35mm Bores



| Part Number | Wrench Torque Nm | Rated Torque Nm | Max. Torque Nm | Max. rpm | Moment of Inertia* kg-m ² | Static Torsional Stiffness Nm/rad | Errors of Eccentricity mm | Errors of Angularity | Errors of Shaft End-Play mm |
|-------------|------------------|-----------------|----------------|----------|--------------------------------------|-----------------------------------|---------------------------|----------------------|-----------------------------|
| MST-8 | 0.3 | 0.1 | 0.2 | 78,000 | 1.2×10^{-8} | 25 | 0.10 | 2° | ± 0.2 |
| MST-12 | 0.5 | 0.2 | 0.4 | 52,000 | 8.3×10^{-8} | 45 | 0.10 | 2° | ± 0.3 |
| MST-16 | 0.7 | 0.3 | 0.6 | 39,000 | 3.3×10^{-7} | 80 | 0.10 | 2° | ± 0.4 |
| MST-20 | 0.7 | 0.5 | 1.0 | 31,000 | 9.0×10^{-7} | 170 | 0.10 | 2° | ± 0.4 |
| MST-25 | 1.7 | 1.0 | 2.0 | 25,000 | 2.6×10^{-6} | 380 | 0.15 | 2° | ± 0.5 |
| MST-32 | 1.7 | 2.0 | 4.0 | 19,000 | 9.6×10^{-6} | 500 | 0.15 | 2° | ± 0.5 |
| MST-40 | 4.0 | 5.0 | 10.0 | 15,000 | 3.2×10^{-5} | 700 | 0.20 | 2° | ± 0.5 |
| MST-50 | 7.0 | 10.0 | 20.0 | 12,000 | 1.0×10^{-4} | 1,800 | 0.20 | 2° | ± 0.5 |
| MST-63 | 15.0 | 20.0 | 40.0 | 10,000 | 3.2×10^{-4} | 3,100 | 0.20 | 2° | ± 0.5 |

| Part Number | Min. Bores ØD1 | Min. Bores ØD2 | Max. Bores ØD1 ØD2 | ØA | L | W | F | M | Mass* g |
|-------------|----------------|----------------|--------------------|----|------|------|------|------|---------|
| MST-8 | 2 | 2.00 | 4 | 8 | 3.5 | 14.0 | 1.7 | M2 | 1.4 |
| MST-12 | 3 | 3.00 | 6 | 12 | 5.0 | 18.5 | 2.5 | M2.5 | 3.7 |
| MST-16 | 4 | 4.00 | 8 | 16 | 6.5 | 23.0 | 3.0 | M3 | 8.1 |
| MST-20 | 5 | 5.00 | 10 | 20 | 7.5 | 26.0 | 3.0 | M3 | 14.0 |
| MST-25 | 5 | 6.00 | 12 | 25 | 8.5 | 31.0 | 4.0 | M4 | 27.0 |
| MST-32 | 6 | 8.00 | 16 | 32 | 12.0 | 41.0 | 6.0 | M4 | 60.0 |
| MST-40 | 8 | 9.53 | 20 | 40 | 17.0 | 56.0 | 8.5 | M5 | 130.0 |
| MST-50 | 12 | 12.00 | 25 | 50 | 21.0 | 71.0 | 10.5 | M6 | 260.0 |
| MST-63 | 14 | 14.00 | 35 | 63 | 36.0 | 90.0 | 13.0 | M8 | 490.0 |

The maximum torque of the miniature coupling is two-fold of the rated torque.

Select a type in which torque generated during continuous operation does not exceed the rated torque of the miniature coupling.

* Moment of Inertia and mass figures based on the maximum shaft bores.

Materials

Coupling: Anodized Aluminium alloy A2017.

Setscrew: SCM435, Black oxide coated (may be replaced with Stainless Steel).

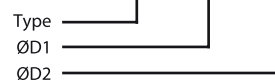
Performance

Maximum Operating Temperature: 100°C. (approx.)

Ordering

e.g.

MST-25 - 8 - 10



Options

MST couplings can be bored out, but not keywayed.

Keywayed (MST-K) couplings are available on request by special order but a minimum order quantity may apply. P.O.A.

Finished products with two different end-bore diameters available.

Other Info

All sizes are supplied with setscrews (2 per hub except hubs with bore diameters of 4mm or less which have 1 setscrew).

Recommended tolerance on shaft diameters is h6 and h7.

Non-standard bores and keyways machined on request.

Important: Couplings and other rotational parts should be protected by covers for safety operation. Also, take note that operation under misalignment exceeding maximum values and excessive torque may result in shorter life of the coupling due to plastic deformation.

Features

- Suitable for stepper motors
- One-piece metallic spring coupling
- Zero backlash
- Absorption of angular misalignment and shaft end-play by spring action
- High torsional stiffness and response
- Identical clockwise & anti-clockwise rotational characteristics
- Maintenance-free, oil and chemical resistant.

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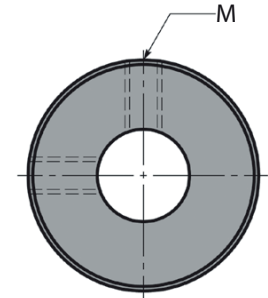
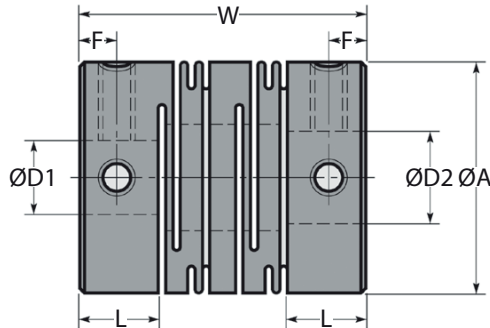
MSTS

COUPLINGS

MSTS

Miniature 8 Slit Flexible Shaft Coupling

Stainless Steel with Set Screw : 0.2 - 70Nm, 2 - 35mm Bores



| Part Number | Wrench Torque Nm | Rated Torque Nm | Max. Torque Nm | Max. rpm | Moment of Inertia* kg-m ² | Static Torsional Stiffness Nm/rad | Errors of Eccentricity mm | Errors of Angularity | Errors of Shaft End-Play mm |
|-------------|------------------|-----------------|----------------|----------|--------------------------------------|-----------------------------------|---------------------------|----------------------|-----------------------------|
| MSTS-8 | 0.3 | 0.2 | 0.4 | 78,000 | 3.1×10^{-8} | 50 | 0.10 | 2° | ± 0.2 |
| MSTS-12 | 0.5 | 0.3 | 0.6 | 52,000 | 2.1×10^{-8} | 64 | 0.10 | 2° | ± 0.3 |
| MSTS-16 | 0.7 | 0.5 | 1.0 | 39,000 | 8.4×10^{-7} | 85 | 0.10 | 2° | ± 0.3 |
| MSTS-20 | 0.7 | 1.0 | 2.0 | 31,000 | 2.4×10^{-6} | 250 | 0.10 | 2° | ± 0.3 |
| MSTS-25 | 1.7 | 2.0 | 4.0 | 25,000 | 6.8×10^{-6} | 330 | 0.15 | 2° | ± 0.4 |
| MSTS-32 | 1.7 | 3.5 | 7.0 | 19,000 | 2.6×10^{-5} | 850 | 0.15 | 2° | ± 0.5 |
| MSTS-40 | 4.0 | 8.0 | 16.0 | 15,000 | 8.7×10^{-5} | 1,000 | 0.20 | 2° | ± 0.5 |
| MSTS-50 | 7.0 | 15.0 | 30.0 | 12,000 | 2.7×10^{-4} | 1,400 | 0.20 | 2° | ± 0.5 |
| MSTS-63 | 15.0 | 35.0 | 70.0 | 10,000 | 8.4×10^{-4} | 1,800 | 0.20 | 2° | ± 0.5 |

| Part Number | Min. Bores ØD1 | Min. Bores ØD2 | Max. Bores ØD1 ØD2 | ØA | L | W | F | M | Mass* g |
|-------------|----------------|----------------|--------------------|----|------|------|------|------|---------|
| MSTS-8 | 2 | 2.00 | 4 | 8 | 3.5 | 14.0 | 1.7 | M2 | 3.0 |
| MSTS-12 | 3 | 3.00 | 6 | 12 | 5.0 | 18.5 | 2.5 | M2.5 | 9.3 |
| MSTS-16 | 4 | 4.00 | 8 | 16 | 6.5 | 23.0 | 3.0 | M3 | 21.0 |
| MSTS-20 | 5 | 5.00 | 10 | 20 | 7.5 | 26.0 | 3.0 | M3 | 38.0 |
| MSTS-25 | 5 | 6.00 | 12 | 25 | 8.5 | 31.0 | 4.0 | M4 | 71.0 |
| MSTS-32 | 6 | 8.00 | 16 | 32 | 12.0 | 41.0 | 6.0 | M4 | 160.0 |
| MSTS-40 | 8 | 9.53 | 20 | 40 | 17.0 | 56.0 | 8.5 | M5 | 350.0 |
| MSTS-50 | 12 | 12.00 | 25 | 50 | 21.0 | 71.0 | 10.5 | M6 | 700.0 |
| MSTS-63 | 14 | 14.00 | 35 | 63 | 36.0 | 90.0 | 13.0 | M8 | 1,300.0 |

The maximum torque of the miniature coupling is two-fold of the rated torque.

Select a type in which torque generated during continuous operation does not exceed the rated torque of the miniature coupling.

* Moment of Inertia and mass figures based on the maximum shaft bores.

Materials

Coupling: Stainless Steel (SUS303).

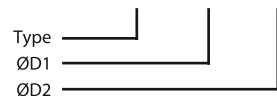
Setscrew: Stainless Steel (SUSXM7).

Performance

Maximum Operating Temperature: 100°C. (approx.)

Ordering

e.g. MSTS-25 - 8 - 10



Options

MSTS couplings can be bored out, but not keywayed.

Finished products with two different end-bore diameters available.

Clean washed SUS304 Stainless Steel for special environment use available, P.O.A.

Other Info

All sizes are supplied with setscrews (2 per hub except hubs with bore diameters of 4mm or less which have 1 setscrew).

Recommended tolerance on shaft diameters is h6 and h7.

Non-standard bores and keyways machined on request.

Important: Couplings and other rotational parts should be protected by covers for safety operation. Also, take note that operation under misalignment exceeding maximum values and excessive torque may result in shorter life of the coupling due to plastic deformation.

Features

- Suitable for stepper motors
- One-piece metallic spring coupling
- Zero backlash
- Absorption of angular misalignment and shaft end-play by spring action
- High torsional stiffness and response
- Identical clockwise & anti-clockwise rotational characteristics
- Maintenance-free, oil and chemical resistant.

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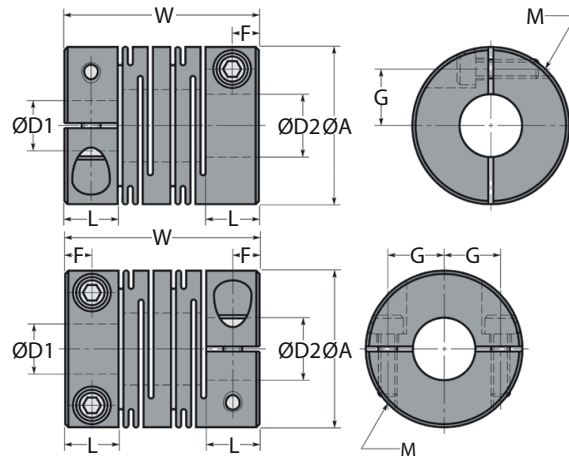
MST-C

COUPLINGS

MST-C

Miniature 8 Slit Flexible Shaft Coupling

Aluminium Clamp Fixing : 0.2 - 40Nm, 4 - 30mm Bores

MST-12C
to
MST-32CMST-40C
to
MST-63C

| Part Number | Wrench Torque Nm | Rated Torque Nm | Max. Torque Nm | Max. rpm | Moment of Inertia* kg-m ² | Static Torsional Stiffness Nm/rad | Errors of Eccentricity mm | Errors of Angularity | Errors of Shaft End-Play mm |
|-------------|------------------|-----------------|----------------|----------|--------------------------------------|-----------------------------------|---------------------------|----------------------|-----------------------------|
| MST-12C | 0.5 | 0.4 | 0.8 | 52,000 | 7.8×10^{-8} | 45 | 0.10 | 2° | ± 0.3 |
| MST-16C | 1.0 | 0.5 | 1.0 | 39,000 | 3.4×10^{-7} | 80 | 0.10 | 2° | ± 0.4 |
| MST-20C | 1.0 | 1.0 | 2.0 | 31,000 | 9.1×10^{-7} | 170 | 0.10 | 2° | ± 0.4 |
| MST-25C | 1.5 | 2.0 | 4.0 | 25,000 | 2.6×10^{-6} | 380 | 0.15 | 2° | ± 0.5 |
| MST-32C | 2.5 | 4.0 | 8.0 | 19,000 | 9.7×10^{-6} | 500 | 0.15 | 2° | ± 0.5 |
| MST-40C | 4.0 | 8.0 | 16.0 | 15,000 | 3.3×10^{-5} | 700 | 0.20 | 2° | ± 0.5 |
| MST-50C | 8.0 | 16.0 | 32.0 | 12,000 | 1.0×10^{-4} | 1,800 | 0.20 | 2° | ± 0.5 |
| MST-63C | 16.0 | 32.0 | 64.0 | 10,000 | 3.2×10^{-4} | 3,100 | 0.20 | 2° | ± 0.5 |

| Part Number | Min. Bores ØD1 | Min. Bores ØD2 | Max. Bores ØD1 ØD2 | ØA | L | W | F | G | M | Mass* g |
|-------------|----------------|----------------|--------------------|----|------|------|-------|------|------|---------|
| MST-12C | 4.0 | 4 | 5 | 12 | 5.0 | 18.5 | 2.50 | 4.0 | M2 | 3.6 |
| MST-16C | 4.5 | 5 | 6 | 16 | 6.5 | 23.0 | 3.25 | 5.0 | M2.5 | 9.2 |
| MST-20C | 5.0 | 6 | 8 | 20 | 7.5 | 26.0 | 3.75 | 6.5 | M2.5 | 16.0 |
| MST-25C | 5.0 | 6 | 10 | 25 | 8.5 | 31.0 | 4.25 | 9.0 | M3 | 28.0 |
| MST-32C | 8.0 | 8 | 14 | 32 | 12.0 | 41.0 | 6.00 | 11.0 | M4 | 64.0 |
| MST-40C | 8.0 | 8 | 18 | 40 | 17.0 | 56.0 | 8.50 | 14.0 | M5 | 140.0 |
| MST-50C | 12.0 | 14 | 22 | 50 | 21.0 | 71.0 | 10.50 | 18.0 | M6 | 270.0 |
| MST-63C | 14.0 | 14 | 30 | 63 | 26.0 | 90.0 | 13.00 | 24.0 | M8 | 530.0 |

The maximum torque of the miniature coupling is two-fold of the rated torque.

Select a type in which torque generated during continuous operation does not exceed the rated torque of the miniature coupling.

* Moment of Inertia and mass figures based on the maximum shaft bores.

Materials

Coupling: Anodized Aluminium alloy A2017.

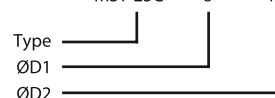
Setscrew: SCM435, Black oxide coated (may be replaced with Stainless Steel).

Performance

Maximum Operating Temperature: 100°C. (approx.)

Ordering

e.g. MST-25C - 8 - 10



Options

MSTs couplings can be bored out, but not keywayed.

Finished products with two different end-bore diameters available.

Other Info

All sizes are supplied with cap screws.

Recommended tolerance on shaft diameters is h6 and h7.

Non-standard bores and keyways machined on request.

Important: Couplings and other rotational parts should be protected by covers for safety operation. Also, take note that operation under misalignment exceeding maximum values and excessive torque may result in shorter life of the coupling due to plastic deformation.

Features

- Suitable for stepper motors
- One-piece metallic spring coupling
- Zero backlash
- Absorption of angular misalignment and shaft end-play by spring action
- High torsional stiffness and response
- Identical clockwise & anti-clockwise rotational characteristics
- Maintenance-free, oil and chemical resistant.

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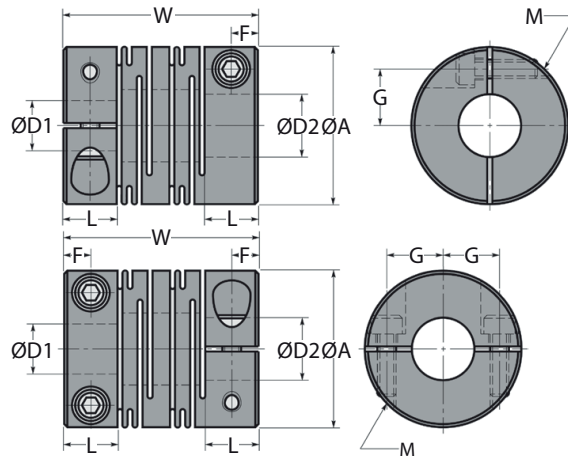
Miniature 8 Slit Flexible Shaft Coupling

Stainless Steel Clamp Fixing : 0.3 - 35Nm, 4 - 30mm Bores



MSTS-12C
to
MSTS-32C

MSTS-40C
to
MSTS-63C



| Part Number | Wrench Torque Nm | Rated Torque Nm | Max. Torque Nm | Max. rpm | Moment of Inertia* kg-m ² | Static Torsional Stiffness Nm/rad | Errors of Eccentricity mm | Errors of Angularity | Errors of Shaft End-Play mm |
|-------------|------------------|-----------------|----------------|----------|--------------------------------------|-----------------------------------|---------------------------|----------------------|-----------------------------|
| MSTS-12C | 0.5 | 0.3 | 0.6 | 52,000 | 2.2×10^{-7} | 64 | 0.10 | 2° | ± 0.2 |
| MSTS-16C | 1.0 | 0.5 | 1.0 | 39,000 | 9.0×10^{-7} | 85 | 0.10 | 2° | ± 0.3 |
| MSTS-20C | 1.0 | 1.0 | 2.0 | 31,000 | 2.5×10^{-6} | 250 | 0.10 | 2° | ± 0.3 |
| MSTS-25C | 1.5 | 2.0 | 4.0 | 25,000 | 7.1×10^{-6} | 330 | 0.15 | 2° | ± 0.4 |
| MSTS-32C | 2.5 | 3.5 | 7.0 | 19,000 | 2.7×10^{-5} | 850 | 0.15 | 2° | ± 0.5 |
| MSTS-40C | 4.0 | 8.0 | 16.0 | 15,000 | 9.0×10^{-5} | 1,000 | 0.20 | 2° | ± 0.5 |
| MSTS-50C | 8.0 | 15.0 | 30.0 | 12,000 | 2.8×10^{-4} | 1,400 | 0.20 | 2° | ± 0.5 |
| MSTS-63C | 16.0 | 35.0 | 70.0 | 10,000 | 8.8×10^{-4} | 1,800 | 0.20 | 2° | ± 0.5 |

| Part Number | Min. Bores ØD1 | Min. Bores ØD2 | Max. Bores ØD1 ØD2 | ØA | L | W | F | G | M | Mass* g |
|-------------|----------------|----------------|--------------------|----|------|------|-------|------|------|---------|
| MSTS-12C | 4.0 | 4 | 5 | 12 | 5.0 | 18.5 | 2.50 | 4.0 | M2 | 10 |
| MSTS-16C | 4.5 | 5 | 6 | 16 | 6.5 | 23.0 | 3.25 | 5.0 | M2.5 | 25 |
| MSTS-20C | 5.0 | 6 | 8 | 20 | 7.5 | 26.0 | 3.75 | 6.5 | M2.5 | 43 |
| MSTS-25C | 5.0 | 6 | 10 | 25 | 8.5 | 31.0 | 4.25 | 9.0 | M3 | 78 |
| MSTS-32C | 8.0 | 8 | 14 | 32 | 12.0 | 41.0 | 6.00 | 11.0 | M4 | 170 |
| MSTS-40C | 8.0 | 8 | 18 | 40 | 17.0 | 56.0 | 8.50 | 14.0 | M5 | 370 |
| MSTS-50C | 12.0 | 14 | 22 | 50 | 21.0 | 71.0 | 10.50 | 18.0 | M6 | 750 |
| MSTS-63C | 14.0 | 14 | 30 | 63 | 26.0 | 90.0 | 13.00 | 24.0 | M8 | 1,400 |

The maximum torque of the miniature coupling is two-fold of the rated torque.

Select a type in which torque generated during continuous operation does not exceed the rated torque of the miniature coupling.

* Moment of Inertia and mass figures based on the maximum shaft bores.

Materials

Coupling: Stainless Steel (SUS303).

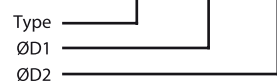
Setscrew: Stainless Steel (SUSXM7).

Performance

Maximum Operating Temperature: 100°C. (approx.)

Ordering

e.g. MSTS-25C - 8 - 10



Options

MSTS-C couplings can be bored out, but not keywayed.

Finished products with two different end-bore diameters available.

Clean washed SUS304 Stainless Steel for special environment use available, P.O.A.

Other Info

All sizes are supplied with cap screws.

Recommended tolerance on shaft diameters is h6 and h7.

Non-standard bores and keyways machined on request.

Important: Couplings and other rotational parts should be protected by covers for safety operation. Also, take note that operation under misalignment exceeding maximum values and excessive torque may result in shorter life of the coupling due to plastic deformation.

Features

- Suitable for stepper motors
- One-piece metallic spring coupling
- Zero backlash
- Absorption of angular misalignment and shaft end-play by spring action
- High torsional stiffness and response
- Identical clockwise & anti-clockwise rotational characteristics
- Maintenance-free, oil and chemical resistant.