

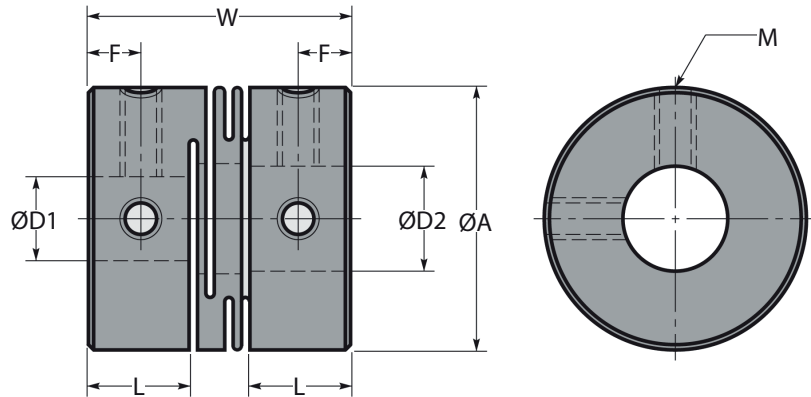
MWS

# COUPLINGS

MWS

## Miniature 4 Slit Flexible Shaft Coupling

Aluminium with Set Screw : 0.1 - 8Nm, 2 - 16mm Bores



Part Number	Wrench Torque Nm	Rated Torque Nm	Max. Torque Nm	Max. rpm	Moment of Inertia* kg-m <sup>2</sup>	Static Torsional Stiffness Nm/rad	Errors of Angularity	Errors of Shaft End-Play mm
MWS-8	0.3	0.1	0.2	78,000	1.0 x 10 <sup>-8</sup>	24	1°	± 0.1
MWS-12	0.5	0.4	0.8	52,000	7.0 x 10 <sup>-8</sup>	80	1°	± 0.1
MWS-16	0.7	0.5	1.0	39,000	2.8 x 10 <sup>-7</sup>	180	1°	± 0.2
MWS-20	0.7	1.0	2.0	31,000	7.5 x 10 <sup>-7</sup>	200	1°	± 0.2
MWS-25	1.7	2.0	4.0	25,000	2.3 x 10 <sup>-6</sup>	780	1°	± 0.2
MWS-32	1.7	4.0	8.0	19,000	8.0 x 10 <sup>-6</sup>	1,110	1°	± 0.2

Part Number	Min. Bores ØD1	Min. Bores ØD2	Max. Bores ØD1 ØD2	ØA	L	W	F	M	Mass* g
MWS-8	2.0	2	4	8	3.40	10	1.7	M2	1.0
MWS-12	4.0	4	6	12	5.20	14	2.5	M2.5	3.1
MWS-16	4.5	5	8	16	6.80	18	3.0	M3	7.4
MWS-20	5.0	6	10	20	7.65	20	3.0	M3	12.0
MWS-25	5.0	6	12	25	9.60	25	4.0	M4	24.0
MWS-32	8.0	8	16	32	12.60	32	6.0	M4	50.0

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.

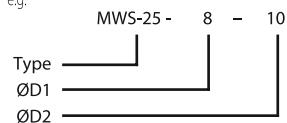
Set screw: SCM435, Black oxide coated (may be replaced with Stainless Steel).

### Performance

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

### Ordering

e.g.



### Ordering

MWS couplings can be bored out.

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
- Parallel misalignment not absorbed
- High torsional stiffness and response
- Identical clockwise & anti-clockwise rotational characteristics
- Maintenance-free, oil and chemical resistant.

**ondrives.us**

1-888-260-7466

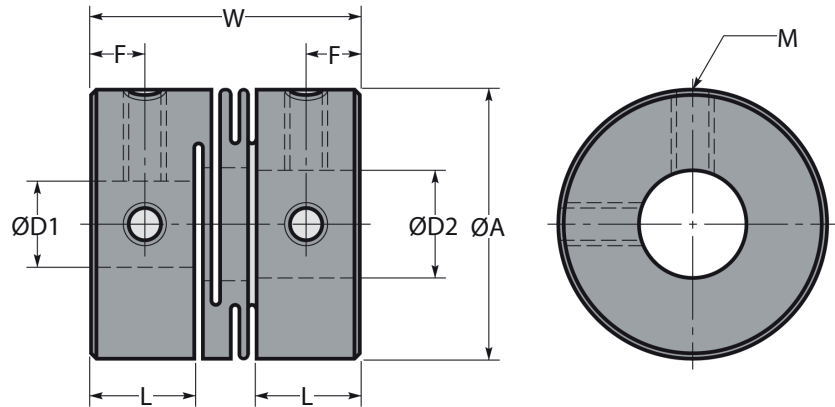
516-771-6444

sales@ondrivesus.com

www.ondrivesus.com

## Miniature 4 Slit Flexible Shaft Coupling

Stainless Steel with Set Screw : 0.2 - 7Nm, 2 - 16mm Bores



Part Number	Wrench Torque Nm	Rated Torque Nm	Max. Torque Nm	Max. rpm	Moment of Inertia* kg-m <sup>2</sup>	Static Torsional Stiffness Nm/rad	Errors of Angularity	Errors of Shaft End-Play mm
MWSS-8	0.3	0.2	0.4	78,000	$2.4 \times 10^{-8}$	49	1°	± 0.1
MWSS-12	0.5	0.3	0.6	52,000	$1.8 \times 10^{-7}$	140	1°	± 0.1
MWSS-16	0.7	0.5	1.0	39,000	$7.2 \times 10^{-7}$	240	1°	± 0.1
MWSS-20	0.7	1.0	2.0	31,000	$2.0 \times 10^{-6}$	330	1°	± 0.1
MWSS-25	1.7	2.0	4.0	25,000	$6.1 \times 10^{-6}$	720	1°	± 0.2
MWSS-32	1.7	3.5	7.0	19,000	$2.1 \times 10^{-5}$	1,300	1°	± 0.2

Part Number	Min. Bores ØD1	Min. Bores ØD2	Max. Bores ØD1 ØD2	ØA	L	W	F	M	Mass* g
MWSS-8	2.0	2	4	8	3.40	10	1.7	M2	2.7
MWSS-12	4.0	4	6	12	5.20	14	2.5	M2.5	7.8
MWSS-16	5.0	5	8	16	6.80	18	3.0	M3	18.0
MWSS-20	5.0	6	10	20	7.65	20	3.0	M3	32.0
MWSS-25	5.0	6	12	25	9.60	25	4.0	M4	63.0
MWSS-32	8.0	8	16	32	12.60	32	6.0	M4	130.0

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).

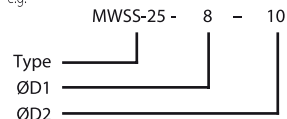
Set screw: Stainless Steel (SUSXM7).

### Performance

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

### Ordering

e.g.



### Ordering

MWSS couplings can be bored out.

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.

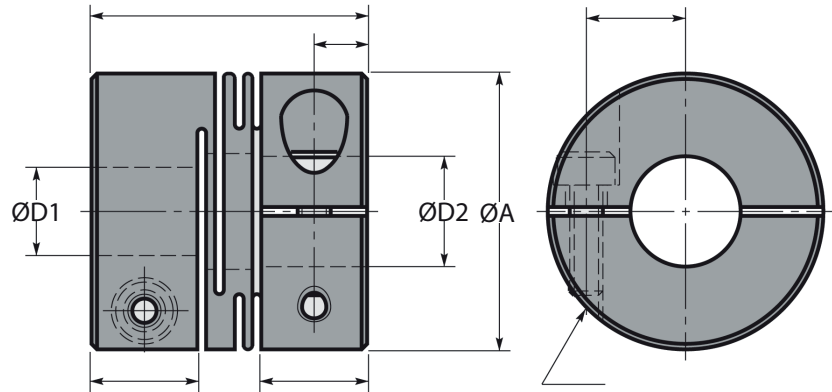
**Important:** Couplings and other rotational parts should be protected by covers for safety operation. Also, take note that operation under misalignment exceeding maximum values and excessive torque may result in shorter life of the coupling due to plastic deformation.

### Features

- Suitable for stepper motors
- One-piece metallic spring coupling
- Zero backlash
- Absorption of angular misalignment and shaft end-play by spring action
- Parallel misalignment not absorbed
- High torsional stiffness and response
- Identical clockwise & anti-clockwise rotational characteristics
- Maintenance-free, oil and chemical resistant.

## Miniature 4 Slit Flexible Shaft Coupling

Aluminium Clamp Fixing : 0.4 - 8Nm, 4 - 14mm Bores



Part Number	Wrench Torque Nm	Rated Torque Nm	Max. Torque Nm	Max. rpm	Moment of Inertia* kg-m <sup>2</sup>	Static Torsional Stiffness Nm/rad	Errors of Angularity	Errors of Shaft End-Play mm
MWS-12C	0.5	0.4	0.8	52,000	$6.4 \times 10^{-8}$	80	1°	± 0.1
MWS-16C	1.0	0.5	1.0	39,000	$2.9 \times 10^{-7}$	180	1°	± 0.2
MWS-20C	1.0	1.0	2.0	31,000	$7.5 \times 10^{-7}$	200	1°	± 0.2
MWS-25C	1.5	2.0	4.0	25,000	$2.3 \times 10^{-6}$	780	1°	± 0.2
MWS-32C	2.5	4.0	8.0	19,000	$8.1 \times 10^{-6}$	1,100	1°	± 0.2

Part Number	Min. Bores ØD1	Min. Bores ØD2	Max. Bores ØD1 ØD2	ØA	L	W	F	G	M	Mass* g
MWS-12C	4.0	4	5	12	5.20	14	2.6	4.0	M2	3
MWS-16C	4.5	5	6	16	6.80	18	3.4	5.0	M2.5	8
MWS-20C	5.0	6	8	20	7.65	20	3.8	6.5	M2.5	13
MWS-25C	5.0	6	10	25	9.60	25	4.8	9.0	M3	25
MWS-32C	8.0	8	14	32	12.60	32	6.3	11.0	M4	53

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.

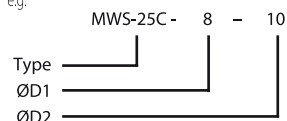
Setscrew: SCM435, Black oxide coated (may be replaced with Stainless Steel).

### Performance

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

### Ordering

e.g.



### Ordering

MWSS couplings can be bored out.

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.

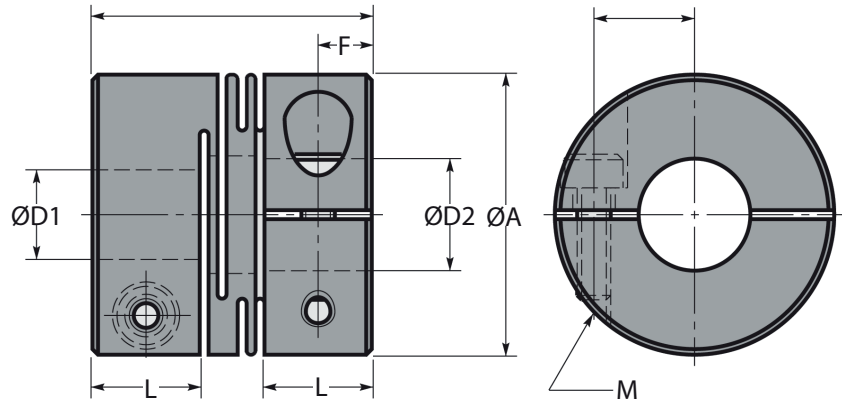
**Important:** Couplings and other rotational parts should be protected by covers for safety operation. Also, take note that operation under misalignment exceeding maximum values and excessive torque may result in shorter life of the coupling due to plastic deformation.

### Features

- Suitable for stepper motors
- One-piece metallic spring coupling
- Zero backlash
- Absorption of angular misalignment and shaft end-play by spring action
- Parallel misalignment not absorbed
- High torsional stiffness and response
- Identical clockwise & anti-clockwise rotational characteristics
- Maintenance-free, oil and chemical resistant.

## Miniature 4 Slit Flexible Shaft Coupling

Stainless Steel Clamp Fixing : 0.3 - 7Nm, 4 - 14mm Bores



Part Number	Wrench Torque Nm	Rated Torque Nm	Max. Torque Nm	Max. rpm	Moment of Inertia* kg-m <sup>2</sup>	Static Torsional Stiffness Nm/rad	Errors of Angularity	Errors of Shaft End-Play mm
MWSS-12C	0.5	0.3	0.6	52,000	$1.8 \times 10^{-7}$	140	1°	± 0.1
MWSS-16C	1.0	0.5	1.0	39,000	$7.8 \times 10^{-7}$	240	1°	± 0.2
MWSS-20C	1.0	1.0	2.0	31,000	$2.1 \times 10^{-6}$	330	1°	± 0.2
MWSS-25C	1.5	2.0	4.0	25,000	$6.3 \times 10^{-6}$	720	1°	± 0.2
MWSS-32C	2.5	3.5	7.0	19,000	$2.2 \times 10^{-5}$	1,300	1°	± 0.2

Part Number	Min. Bores ØD1	Min. Bores ØD2	Max. Bores ØD1 ØD2	ØA	L	W	F	G	M	Mass* g
MWSS-12C	4.0	4	5	12	5.20	14	2.6	4.0	M2	8.5
MWSS-16C	4.5	5	6	16	6.80	18	3.4	5.0	M2.5	21.0
MWSS-20C	5.0	6	8	20	7.65	20	3.8	6.5	M2.5	36.0
MWSS-25C	5.0	6	10	25	9.60	25	4.8	9.0	M3	69.0
MWSS-32C	8.0	8	14	32	12.60	32	6.3	11.0	M4	150.0

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).

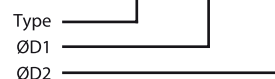
### Performance

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

### Ordering

e.g.

MWSS-25C - 8 - 10



### Ordering

MWSS-C couplings can be bored out.

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
- Parallel misalignment not absorbed
- High torsional stiffness and response
- Identical clockwise & anti-clockwise rotational characteristics
- Maintenance-free, oil and chemical resistant.