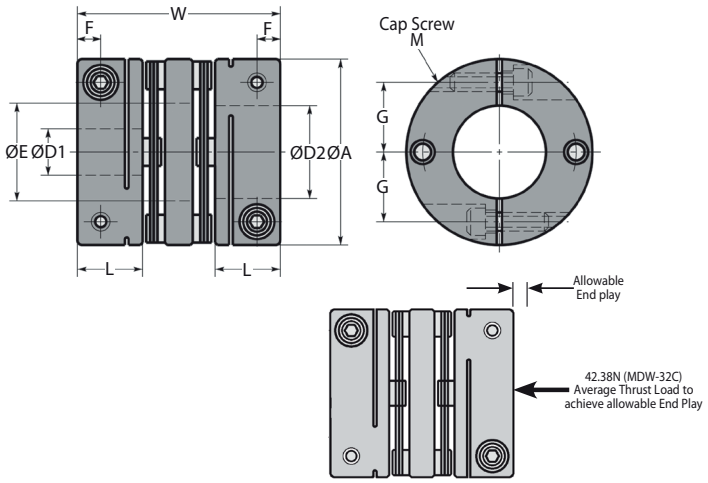
MDW

COUPLINGS

Flexible Double Disc Shaft Coupling

Backlash Free, Clamp Fixing : 0.7 - 25Nm, 5 - 30mm Bores

MDW



Part Number	Wrench Torque Nm	Rated Torque* Nm	Max. Torque* Nm	Max. Speed rpm	Moment of Inertia* kg•m²	Static Torsional Stiffness Nm/rad	Errors of Eccentricity	Errors of Angularity	Errors of Shaft End-Play mm
MDW-19C	0.5	0.7	1.5	33,000	8.7×10^{-7}	200	0.12	1.5°	± 0.5
MDW-25C	1.0	1.0	2.0	25,000	2.7×10^{-6}	450	0.12	1.5°	± 0.5
MDW-32C	1.5	2.5	5.0	19,000	9.6×10^{-6}	1,100	0.15	1.5°	± 0.5
MDW-40C	2.5	3.5	7.0	15,000	1.9×10^{-5}	1,400	0.15	1.5°	± 0.5
MDW-50C	7.0	9.0	18.0	12,000	8.1×10^{-5}	2,200	0.15	1.5°	± 0.5
MDW-63C	12.0	12.5	25.0	10,000	2.1×10^{-4}	3,000	0.15	1.5°	± 0.5

Part Number	Min. Bores ØD1 ØD2	Max. Bores ØD1 ØD2	ØA	L	W	ØE	F	G	M	Mass g
MDW-19C	4	8	19	8	27	8.5	2.5	6.5	M2	18
MDW-25C	6	12	25	10	31	12.5	3.5	9.0	M2.5	25
MDW-32C	8	15	32	12	40	16.0	4.0	11.0	M3	60
MDW-40C	8	20	40	14	44	21.0	5.0	15.0	M4	100
MDW-50C	14	25	50	18	57	26.0	6.0	18.0	M5	210
MDW-63C	15	30	63	20	61	35.0	7.0	24.0	M6	340

Materials

Hub: Anodized Aluminium A2017
Spacer: Anodized Aluminium A2017
Disc: Stainless Steel 304.
Pin: Stainless Steel 303.
Collar: Stainless Steel 303.
Cap Screw: SCM435, black oxide coating.

Performance

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

Ordering

Add bore size required to end of part number
eg. MDW-32C-8-10 (bored Ø8mm & Ø10mm).

MDW-32C- 8 – 10
Type
ØD1
ØD2

Extras

Boring Out, Pin Holes, Tapped Holes.
Keyways available subject to a minimum order quantity of 5 pieces P.O.A. due to being pre-formed prior to assembly.
Keyways may be slotted after assembly but Ondrives do not offer this service.

Features

- For use with servo motors and stepper motors.
- Zero backlash.
- High Torsional Stiffness.
- Double stainless discs absorb parallel & angular misalignment and shaft end play.
- Very good absorption of misalignment.
- Identical clockwise & counter-clockwise rotational characteristics.
- Maintenance free, excellent resistance to oil and chemicals.
- Stock cap screws may be replaced with Stainless Steel screws.
- Recommended tolerances on shaft diameters is h6 and h7.
- Minimal effect on response in static torsional stiffness caused by temperature, though operating at high temperatures may lead to misalignment due to shaft distortion or elongation from thermal expansion.

ondrives.us
1-888-260-7466
516-771-6444
sales@ondrivesus.com
www.ondrivesus.com