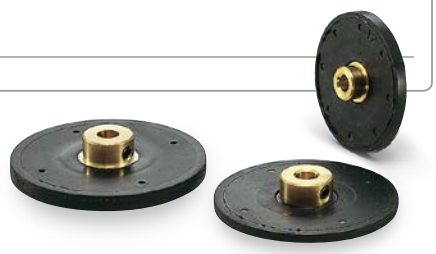
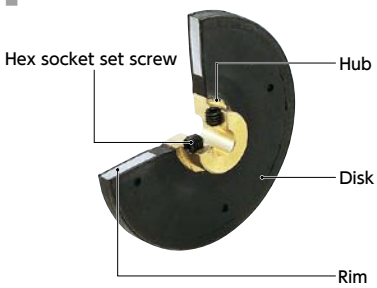
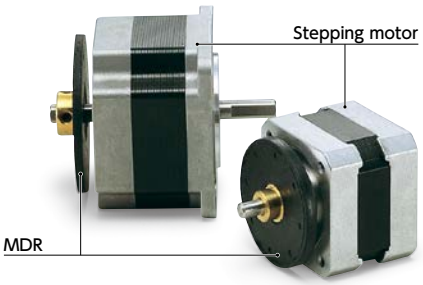
MDR Damper Rolls



Structure



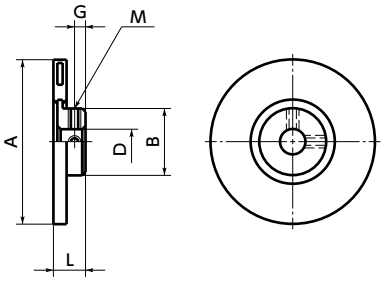


- This reduces the vibration in the resonance area of a stepping motor.
- This supports the follow - up to pulse speed of a stepping motor in high speed zone to improve the max. rotational frequency.
- Allowable operating temperature: - 10℃ to 40℃
- Bore - completed products. Special processing is not required.

- Material/Finish

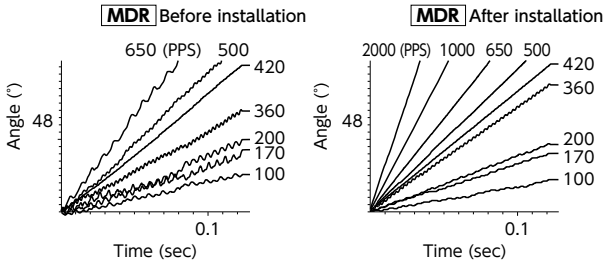
RoHS

	MDR
Hub	C3604
Disk	NBR
Rim	SPCC
Hex Socket Set Screw	SCM435 Ferrosoferric Oxide Film (Black)



- **Vibration control effect**

Below is a figure that shows the measurement of vibration control effect of **MDR** by stepping motor speed (pulse).
Vibration is reduced by attachment of **MDR**.



Selection

From the moment of inertia of the rotor of the stepping motor to use, select the applicable part number of **MDR** according to the following table.

Part Number	Moment of Inertia of Stepping Motor's Rotor
MDR-41	5×10^{-6}kg・m² or Less
MDR-52	1.5×10^{-5}kg・m² or Less
MDR-57	2.5×10^{-5}kg・m² or Less

Dimensions

Unit : mm

Part Number 1	A	L	B	M	G	Moment *1 of Inertia (kg・m²)	Mass *1 (g)	Standard Bore Diameter (Dimensional Allowance H8) D 2			
								5	6	6.35	8
MDR-41	41	8	10	1 - M3	3	4.8×10^{-6}	23	●			
MDR-52	52	9.5	15	2 - M4	3.5	1.39×10^{-5}	46	●	●	●	
MDR-57	57	12	15	2 - M4	3.5	2.7×10^{-5}	70		●	●	●

*1 : These are values with max. bore diameter.
- All products are provided with hex socket set screws.
- Recommended tolerance for shaft diameters is h6 and h7.

- Part number specification

MDR-41 - 5
1 2

Additional Keyway at Shaft Hole ➡ P.xxxx	Cleanroom Wash & Packaging ➡ P.xxxx	Change to Stainless Steel Screw ➡ P.xxxx
Please feel free to contact us	Please feel free to contact us	Available / Add'l charge