



Features

- High dynamic response, non-contact, direct drive voice coil motor
- High-precision optical linear encoder
- Excellent positioning accuracy and dynamic performance
- Modularized design, customized requirements accepted

Description

This module adopts modularized design with direct-drive cylindrical voice coil motor. Combined with high-precision linear guides, high-precision dynamic performance and positioning accuracy can be achieved.

Applications

- Healthcare
- Semiconductor equipment
- Automotive

Technical Specifications

	MVA35	MVA50	MVA60	MVA108
Travel range	7 mm	10 mm	25 mm	32 mm
Unidirectional repeatability	±1 μm	±1 μm	±1 μm	±1 μm
Straightness	±3 μm/25 mm	±3 μm/25 mm	±3 μm/25 mm	±3 μm/25 mm
Flatness	±3 μm/25 mm	±3 μm/25 mm	±3 μm/25 mm	±3 μm/25 mm
Continuous force	20.2 N	50 N	19.8 N	283 N
Mechanical properties				
Dimensions	260 mm x 120 mm x 130 mm	150 mm x 60 mm x 65 mm	165 mm x 60 mm x 73.5 mm	260 mm x 120 mm x 130 mm
Max. load	0.8 Kg	1.3 Kg	2 Kg	8 Kg
Total mass	0.8 Kg	1.55 Kg	1.85 Kg	12 Kg
Material	Aviation aluminum, black anodized			
Electrical properties				
Drive type	Voice coil motor			
Force constant	12.89 N/A	37.21 N/A	13.3 N/A	72.2 N/A
Peak force	75.5 N	120.1 N	69.8 N	1296 N

Technical Specifications(Continued from previous page)

	MVA35	MVA50	MVA60	MVA108
Peak current	5.86 A	3.22 A	5.25 A	17.96 A
Continuous current	1.57 A	1.34 A	1.48 A	3.93 A
Electrical resistance	4.65 ohms	7.12 ohms	6.42 ohms	6.27 ohms
Electrical inductance	2.37 mH	7.57 mH	3.43 mH	6.2 mH
Feedback	Incremental optical linear encoder			
Resolution	0.1 μ m			
Electrical limit	Optical sensor			