

PRECISION MOTION ACTUATORS

We offer a range of precision motion actuator modules with integrated controller for the most demanding motion control applications.

**NEMA-8****VMA1008****NEMA-10****VMA1010****NEMA-14****VMA1014****NEMA-17****VMA1017****NEMA-23****VMA1023****Ultra High Precision****Compact****Daisy Chain Capability**

ABOUT OUR PRODUCT

Featuring our innovative motion control algorithm and enhanced encoder resolution technology, our precision motion actuator modules with integrated controller are compact and easy to use for providing smooth and precise motion, making them ideal for a variety of applications with tight spaces and ultra-high precision, including micromanipulation, laser alignment, optical focusing, automated test & measurement, robotics & machine automation, and more.

Features

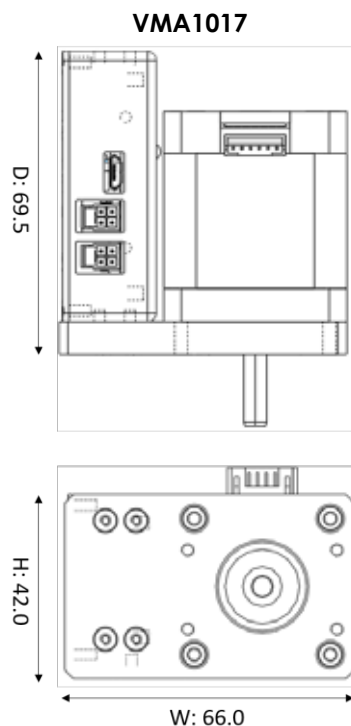
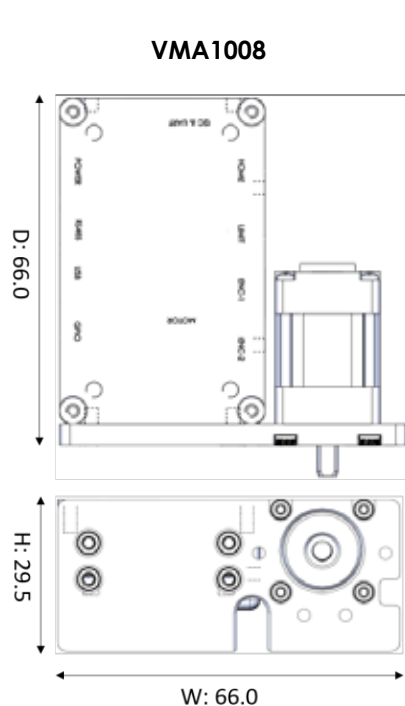
- Ultra High precision (Repeatability: $<0.02^\circ$)
- Compact with built-in motor controller
- Flexible with daisy-chain capability
- Support wide range of motorized linear and rotary stages
- Versatile to fit many applications
- Easy to use with supplied software
- Wide range of offering, with motor sizes from NEMA-8 to NEMA-23



Specifications

	VMA1008	VMA1010	VMA1014	VMA1017	VMA1023
Motor Size	NEMA-8	NEMA-10	NEMA-14	NEMA-17	NEMA-23
Motor Type	Stepper (2 phase, hybrid)				
Controller	Built In, Daisy-Chain with other V-BMB products				
Resolution	0.007°				
Accuracy (Unidirectional)	0.1°				
Repeatability	<0.02°				
Speed Resolution	0.0035°/sec				
Minimum Speed	0.0035°/sec				
Maximum Speed (No Load)	18000°/sec				
Input Voltage	24-48VDC				
Input Current	Up to 3.5A RMS/ 5A peak (programmable in software)				
Communication Interface	USB / RS-485 / TTL UART				
Daisy-Chain Capability	Yes				
Holding Torque*, Nm	0.032	0.096	0.4	0.88	2.3
Motor Rated Current, A	0.5	1.0	1.5	1.5	2.8
Weight, kg	0.090	0.188	0.202	0.444	0.85
Dimension, WxDxH, mm	66 x 66 x 29.5	57 x 67 x 42	66 x 69.5 x 42	66 x 69.5 x 42	80 x 61.5 x 71.2

*The quoted holding torque values are provided for reference only. Equivalent stepper motors from other manufacturers may be selected based on application requirements.



Part Number and Ordering Information

VMA10□□

Model ↑

Motor Size

Range from NEMA-8 to NEMA23 (08 to 23)

Motor Size	VMA10XX
NEMA-8	VMA1008 ⁺
NEMA-10	VMA1010
NEMA-14	VMA1014
NEMA-17	VMA1017 ⁺
NEMA-23	VMA1023

⁺Popular Models

VBMB PTE LTD (V-BMB)

All product specifications are subject to change without notice. Last updated: JUL-2026
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