

MBV SERIES

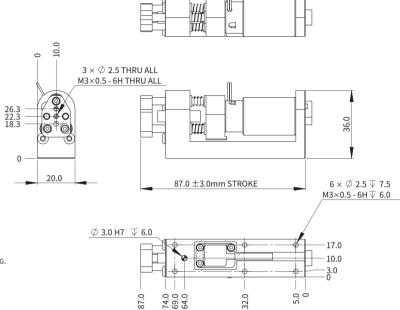
- ▶ Direct drive linear mechanism by voice coil motor
- ► Zero cogging effect, zero backlash
- Suitable for short stroke, high speed, and high acceleration application

MBV20

Specifications	Unit	Value
Stroke ⁰	mm	6.0
Motor	-	AVM20-HF-6-C28-3.0A
Continuous Force	N	5.69
Peak Force	N	17.06
Resolution	um	ABI21: 1.0/0.5/0.2
Resolution	μm–	AT2: 0.2/0.1
Bidirectional Repeatability	μm	±2.5
Straightness	μm	±5.0
Flatness	μm	±5.0
Rated Payload [®]	Kg	0.3
No-load Moving Mass	Kg	0.035
No-load Total Mass	Kg	0.14
Max. Allowable Payload	Kg	0.4
Max. Allowable Roll Moment Load	Nm	*8
Max. Allowable Pitch Moment Load	Nm	*8
Max. Allowable Yaw Moment Load	Nm	* 6

- Stroke refers to hardstop-to-hardstop mechanical stroke. Effective stroke equals to mechanical stroke for this short-stroke stage.
- 2 The rated load is based on the load in which the acceleration of the mass is at least 1G.
- 3 This stage is not suitable for moment load, please contact us for more details.

■ Dimension Drawing

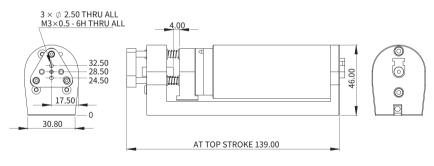


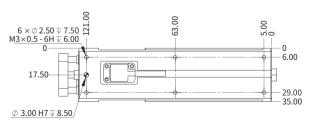
MBV35

Specifications	Unit	Value
Stroke ¹	mm	8.0
Motor	-	AVM35-HF-8-C35-3.0A
Continuous Force	N	27.43
Peak Force	N	137.16
Resolution	μm-	ABI21: 1.0/0.5/0.2
Resolution		AT2: 0.2/0.1
Bidirectional Repeatability	μm	±2.5
Straightness	μm	±5.0
Flatness	μm	±5.0
Rated Payload	Kg	2.0
No-load Moving Mass	Kg	0.14
No-load Total Mass	Kg	0.65
Max. Allowable Payload	Kg	3.0
Max. Allowable Roll Moment Load	Nm	*8
Max. Allowable Pitch Moment Load	Nm	*8
Max. Allowable Yaw Moment Load	Nm	*8

- ① Stroke refers to hardstop-to-hardstop mechanical stroke. Effective stroke equals to
- 2 The rated load is based on the load in which the acceleration of the mass is at least 1G.
- On This stage is not suitable for moment load, please contact us for more details.

■ Dimension Drawing





Ordering Part Number (OPN)

	MBV1 E V	/08 E0E	1 A 1	
Model:				nation: ng Leads
MBV1: MBV20 MBV2: MBV35			Cable I	ength: A: 0.5m
Cover Type: E: EN			Scal 1: Steel tape, 1	e Type: I1ppm/K
Coil Type: V08: AVM20-HF-6-0.5A-C28 (Peak Force: 17.06N) V23: AVM35-HF-8-0.5A-C35 (Peak Force: 137.16N)			Encode E0E: ABI-21 E0F: ABI-21 E0G: ABI-21	L (1.0μm) L (0.5μm)

