

LMA38 Series

Miniature Stages

The LMA38 Miniature Stage by Han's Motor is a compact, high-precision positioning platform offering rapid response, smooth motion, and excellent repeatability for precision automation applications.



Features

- Open structure for easy disassembly and maintenance
- Built-in grating or magnetic grating feedback with 0.1 μm , 0.5 μm , 1 μm , 5 μm resolution options
- Moving magnet flat linear motor
- Repeat accuracy up to $\pm 1 \mu\text{m}$
- Small size and simple structure, which is suitable for light load and high precision occasions
- Quickly assemble to XY cross stages

Applications

- 3C Devices
- Display Panels
- Semiconductors
- PCB Equipment
- Precision Machine Tools
- Industrial Automation and Other Applications

Parameter

HAN'S MOTOR

LMA38-10-□□□-A	G01	G05
Feedback system	Grating Feedback, Resolution 0.1 μm	Grating Feedback, Resolution 0.5 μm

Motor Model / Parameter

Mover Model	Mover Length	M
Continuous Force (Tmax)	N	0.6
Peak Force	N	3
Motor Constant	N√W	0.5
Max.Continuous Power Dissipation	W	1.42
Continuous Current (Tmax)	Arms	0.15
Peak Current (1 S)	Arms	0.8
Force Constant (25 °C, ± 5 %)	N / Arms	4
Back EMF Constant (25 °C, ± 5 %)	Vrms / m / s	1.3
Electrical Resistance (25 °C, ± 5 %) P-P	Ω	30
Inductance (25°C, ± 20 %) P-P	μm	0.25
Max Coil Temperature	°C	120
Polar Distance (N-N) (360 °C Electrical Cycle)	mm	24
Magnetic Attraction	N	11

* All specifications are typical data and subject to change without notice due to product improvements.

Stator Dimension

Stator Model	Unit	Data
Max. Load	kg	1
Effective Stroke	mm	10
Resolution	μm	0.1
Max.Speed (1)	mm / s	200
Repeat Accuracy	μm	± 0.5
Weight	kg	0.1
Working Environment Temperature and Humidity	0 - 40 °C, 20 - 80 % RH	

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* According to the actual load, the maximum speed maybe cannot be reached, so the specific speed should be communicated with the engineer..

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