

Motorized Translation Stages- LMS Series : Stepper motor

- ▶ Straight line Accuracy : 10 Micron
- ▶ Guide way : Precision V Grooved
- ▶ Drive : Precision Lead screw
Pitch 1mm / 2mm
- ▶ Construction : Aluminium Alloy B51S
- ▶ Finish : Black anodized
- ▶ Tapped Holes on Moving Plate : M6 Tapped Holes
- ▶ Mounting Holes on the base Plate : M6 Tapped Holes



XY Configuration



LMS series motorized stages provide travel up to 150 mm. Drive mechanism comprises of precision ground lead screw and preloaded nut. Stepper motor used is of 56 mm frame size and 10 kg-cm torque. There are limit switches for home and far end location. Electrical junction box with a 9 pin connector is also a standard feature. Linear ways using V grooved guides and crossed rollers are used for playless and stick slip free precision positioning. Standard stages are constructed in aluminium alloy and finished by black anodizing. Tapped holes are provided on top and bottom surfaces for mounting. XY and XYZ configurations can be assembled from single axis stages with the use of accessories like base plates and angle brackets.

Drive Details



1mm Pitch Lead Screw

Positioning Accuracy : 0.0025mm
 Repeatability : 0.0025mm
 Resolution : 0.0003125
 (in Micro Step Mode)

2mm Pitch Ground Lead screw

Positioning Accuracy : 0.005mm
 Repeatability : 0.005mm
 Resolution : 0.000125
 (in Micro Step Mode)

Model no:	Travel(mm)	Lead screw Pitch	Resolution (Half Step)	Load Capacity (Kg)	Size L X B (mm)	Accessories	
						Angle Bracket	Base Plate
LMS 75100 - 1	50	2 mm	0.005mm	8	100 x 75	AB - LMS 75100	BP - LMS 75100
LMS 75100 - 2		1 mm	0.0025mm	10			
LMS 75150 - 1	100	2 mm	0.005mm	9	150 x 75	AB - LMS 75150	BP - LMS 75150
LMS 75150 - 2		1 mm	0.0025mm	11			
LMS 75200 - 1	150	2 mm	0.0125mm	11	200 x 75	AB - LMS 75200	BP - LMS 75200
LMS 75200 - 2		1 mm	0.0025mm	14			
LMS 100100 - 1	50	2 mm	0.0125mm	16	100 x 100	AB - LMS 100100	BP - LMS 100100
LMS 100100 - 2		1 mm	0.0025mm	15			
LMS 100150 - 1	100	2 mm	0.0125mm	15	150 x 100	AB - LMS 100150	BP - LMS 100150
LMS 100150 - 2		1 mm	0.0025mm	17			
LMS 100200 - 1	150	2 mm	0.0125mm	17	200 x 100	AB - LMS 100200	BP - LMS 100200
LMS 100200 - 2		1 mm	0.0025mm	19			
LMS 150150 - 1	100	2 mm	0.0125mm	16	150 x 150	AB - LMS 150150	BP - LMS 150150
LMS 150150 - 2		1 mm	0.0025mm	18			
LMS 150200 - 1	150	2 mm	0.0125mm	22	200 x 150	AB - LMS 150200	BP - LMS 150200
LMS 150200 - 2		1 mm	0.0025mm	25			
LMS 200200 - 1	150	2 mm	0.0125mm	30	200 x 200	AB - LMS 200200	BP - LMS 200200
LMS 200200 - 2		1 mm	0.0025mm	35			

Angle Brackets :

It is used to transform horizontal translators into vertical ones. Horizontally fixed height platforms can be constructed by combining two angle brackets.

ACCESSORIES

Base plates :

Base plates can be used for mounting translation stages to breadboards and tables conveniently.

