

RCMTS-150 Series

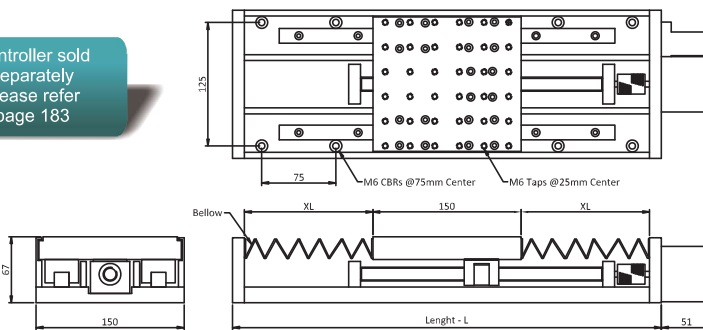
Travel: 100 to 750 mm
Carriage Size : 150mm X 150mm
Load Capacity : Up to 90kg vertical

Controller sold separately please refer page 183

RCMTS-150 series stages are available for travel upto 150 mm. Carriage size is 150 x 150 mm. Drive is by ball screw-stepper motor combination. There are bellows for dust protection. Re-circulating type linear ways are used as guides.

Z-axis: In these stages, in vertical configuration, if the load is more than 15 kgs, the carriage may come down under gravity when power to the motor is switched off. This is when ball screw is directly attached to the stepper motor. If the load to be lifted is more than 15 kgs, it is advisable to use our Z axis stages with a gear box (1:6 ratio) in between motor and ball screw. Though this reduces speed in Z axis, load capacity increases considerably. Please see the tables and chart below for details.

- ▶ Straight line Accuracy : 20-50 Micron
- ▶ Drive : Precision Lead Screw / Ball Screw
- ▶ Construction : Aluminium Alloy B51S
- ▶ Finish : Black anodized
- ▶ Tapped Holes on Carriage : M4 Tapped Holes
- ▶ Mounting Holes on the base : M6 Tap and M4 CBR
- ▶ Design : Modular Type
- ▶ Configuration : Multi axis



Engraved vernier scales are provided with all LTTs series translation stages.

Drive Details



4 mm Pitch Ball screw With Gear Box Gear Ratio- 1:8

Positioning Accuracy : 0.05mm
Repeatability : 0.05mm
Resolution : 0.010 (in Micro Step Mode)
Speed : 2mm/sec (4RPS)

4mm Pitch Ball Screw

Positioning Accuracy : 0.02mm
Repeatability : 0.04mm
Resolution : 0.00125 (in Micro Step Mode)
Speed : 16mm/sec (4RPS)

4mm Pitch Ball screw	Load Capacity		4mm Pitch Ball screw With 1:8 Gear Box	Load Capacity	
	X Axis	Z Axis (maximum holding g weight at off condition)		X Axis	Z Axis
Model No	Kg	Kg	Model No	Kg	Kg
RCMTS150-100-2	50	15	RCMTS150-100-F	90	70
RCMTS150-150-2	50	15	RCMTS150-150-F	90	70
RCMTS150-200-2	50	15	RCMTS150-200-F	86	62
RCMTS150-300-2	45	15	RCMTS150-300-F	85	60
RCMTS150-500-2	45	15	RCMTS150-500-F	80	55
RCMTS150-750-2	45	15	RCMTS150-750-F	80	50

Quality Control

We have a state of the art laboratory for quality control and inspection. We have established a fail safe inspection procedure to make sure of the quality standard of our products before shipment.

Travel	Length	Accessories		
		Vertical Bracket	Horizontal Bracket	Base Plate
100	330	VAB-RCMTS150-100		BP-RCMTS150-100
150	380	VAB-RCMTS150-150		BP-RCMTS150-150
200	430	VAB-RCMTS150-200	HAB-RCMTS-150	BP-RCMTS150-200
300	480	VAB-RCMTS150-300	Size : 150x150mm	BP-RCMTS150-300
500	790	VAB-RCMTS150-500		BP-RCMTS150-500
750	1070	VAB-RCMTS150-750		BP-RCMTS150-750



◀ Angle Brackets :

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



▶ Base plates :

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