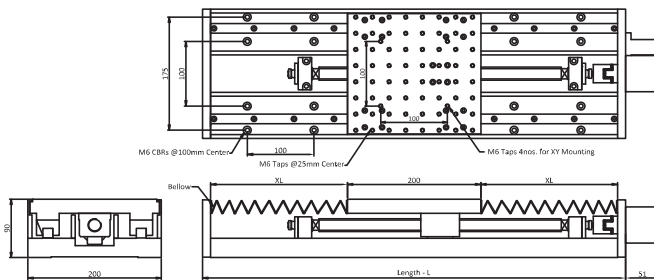


RCMTS-200 Series

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

RCMTS-200 series stages have 200 mm width and carriages (load bearing moving surface) have 200 mm x 200 mm size. Drive is by ball screw-stepper motor combination. Re-circulating type linear ways are used as guides (two linear ways per stage). These stages are available up to travel of 750 mm as standard products. More traverse, please contact us.

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.



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

Controller sold separately please refer page 183

- ▶ Straight line Accuracy : 20-50 Micron
- ▶ Drive : Precision Lead screw
- ▶ Construction : Aluminum 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 - Multi axis

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 : 5mm/sec (4RPS)

4mm Pitch Ball Screw

Positioning Accuracy : 0.05mm
Repeatability : 0.05mm
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 weight at off condition)		X Axis	Z Axis
Model No	Kg	Kg	Model No	Kg	Kg
RCMTS200-100-2	100	15	RCMTS200-100-F	150	120
RCMTS200-200-2	100	15	RCMTS200-200-F	150	120
RCMTS200-300-2	100	15	RCMTS200-300-F	150	115
RCMTS200-500-2	95	15	RCMTS200-500-F	140	110
RCMTS200-750-2	90	15	RCMTS200-750-F	135	105

XYZ & Rotation Assembly
Using RCMTS series.
These are specially manufactured for vacuum application.

Travel	Length	Accessories		
		Vertical Bracket	Horizontal Bracket	Base Plate
100	390	VAB-RCMTS200-100		BP-RCMTS200-100
150	440	VAB-RCMTS200-150		BP-RCMTS200-200
200	490	VAB-RCMTS200-200	HAB-RCMTS-150	BP-RCMTS200-200
300	590	VAB-RCMTS200-300	Size : 150x150mm	BP-RCMTS200-300
500	670	VAB-RCMTS200-500		BP-RCMTS200-500
750	1120	VAB-RCMTS200-750		BP-RCMTS200-750

◀ Angle Brackets :
It is used to transform horizontal translators into 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.