

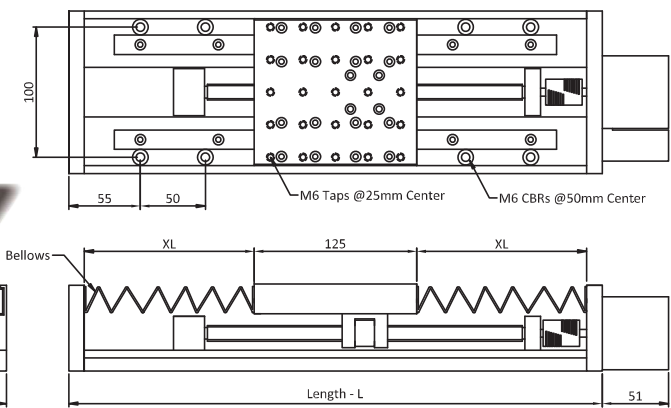
**RCMTS-125 Series**

**Travel: 100 to 500 mm**  
**Carriage Size : 125mm X 125mm**  
**Load Capacity :Up to 90kg vertical position**

RCMTS-125 series stages are designed to carry heavy loads, yet to move and position precisely. Re-circulating type ball bearing linear ways are used as guides. Drive is provided by a combination of ball screw and stepper motor.

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

Controller sold separately please refer page 183



- ▶ Straight line Accuracy : 20 Micron
- ▶ Drive : Precision Lead / 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

#### 4mm 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 kg weight at oil condition)		X Axis	Z Axis
Model No	Kg	Kg	Model No	Kg	Kg
RCMTS125-100-2	50	15	RCMTS125-100-F	90	70
RCMTS125-150-2	50	15	RCMTS125-150-F	90	70
RCMTS125-200-2	50	15	RCMTS125-200-F	86	62
RCMTS125-300-2	45	15	RCMTS125-300-F	85	60
RCMTS125-500-2	45	15	RCMTS125-500-F	80	55

**Customization**  
HOLMARC's experienced support engineers will be glad to help you.  
  
Call us at +91 484 2540075 or send us a mail to [mail@holmarc.com](mailto:mail@holmarc.com) or [sales@holmarc.com](mailto:sales@holmarc.com)

Travel	Length	Accessories		
		Vertical Bracket	Horizontal Bracket	Base Plate
50	155	VAB-RCMTS125-100		BP-RCMTS125-100
100	205	VAB-RCMTS125-150	HAB-RCMTS-125	BP-RCMTS125-150
150	280	VAB-RCMTS125-200	Size : 125X125mm	BP-RCMTS125-200
150	280	VAB-RCMTS125-300		BP-RCMTS125-300
150	280	VAB-RCMTS125-500		BP-RCMTS125-500

**◀ 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.