TBB0606, TBB1212
TBB1515/M, TBB3030/M
Large Area Translation Stage

Original Instructions

Contents

Chapter 1 Overview

This Large Area Translation Stage is available in two imperial sizes, 6" x 7.66" (TBB0606) and 12" x 13.66" (TBB1212), and two metric sizes, 150 x 191.7 mm (TBB1515/M) and 300 x 341.4 mm (TBB3030/M). It has been designed for use in applications requiring adjustable positioning of a complete experiment. Coarse positioning is achieved simply by pushing the moving platform. Fine positioning is achieved by adjustment of the rack and pinion using a hex key. The TBB0606 provides 2.5" (60 mm) of travel, whereas the TBB1212 provides 5" (120 mm) of travel. The position can be locked by tightening the M2 set screw.

Note. The set screw should be tightened just sufficiently to lock the platform. The screw may shear if it is over tightened.

The working height of the breadboard is 12.7mm, making them compatible with the mating height of our standard MB series breadboards. They are through-drilled with a standard 1" (25 mm) offset hole pattern, and feature a 1/2" (12.5 mm) border. The finish is a black, low reflective anodized coating.

Chapter 2 Safety

2.1 Safety Information

For the continuing safety of the operators of this equipment, and the protection of the equipment itself, the operator should take note of the **Warnings, Cautions** and **Notes** throughout this handbook and, where visible, on the product itself.

The following safety symbols may be used throughout the handbook and on the equipment itself.

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Warning: Risk of Electrical Shock

Given when there is a risk of injury from electrical shock.

Warning

Given when there is a risk of injury to users.

Caution

Given when there is a risk of damage to the product.

Note

Clarification of an instruction or additional information.

Chapter 3 Installation

The outer rails are through-drilled with four 0.45” (11.5 mm) counterbored holes (two on each rail), to allow the stage to be bolted to the work surface - see below.

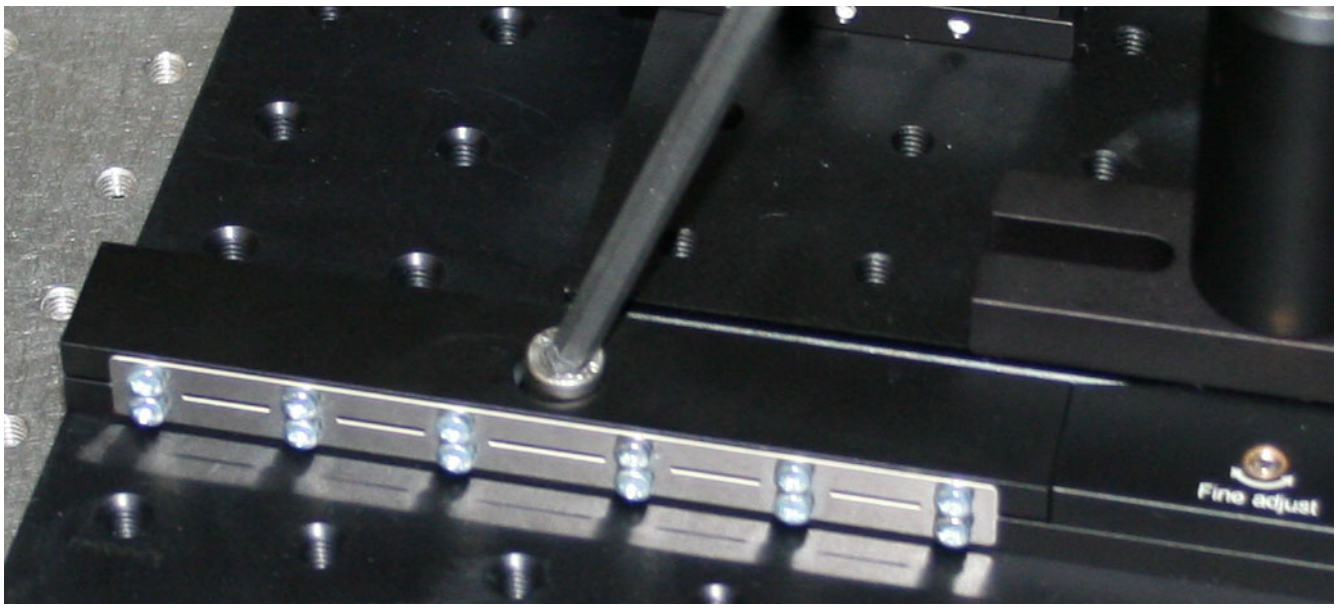

Fig. 3.1 Installation

A typical application is to build several separate set ups on the stage, and manually adjust the position to place the different set ups into the path of the laser beam - see Fig 1.3 for a typical image.

Fig. 3.2 Typical Application

Chapter 4 Specifications

Parameter	PIA13VF
Travel Range	TBB0606 (TBB1515/M) - 2.5" (60 mm) TBB1212 (TBB3030/M) - 5.0" (120 mm)
Working Height	0.5 " (12.7 mm)
Rack & Pinion Adjustment Ratio	31.4mm per rev of hex screw
Run Out over Full Travel Range	<50 µm
Dimensions (W x D)	TBB0606(/M) - 6" x 7.66" (150 x 191.7) mm TBB1212(/M) -12" x 13.66" (300 x 341.4 mm)
Weight	TBB0606 - 1.7 lb (780 g) TBB1212 - 6.7 lb (3.06 kg)
Construction	Solid Aluminum
Finish	Black Anodized

Chapter 5 Thorlabs Worldwide Contacts

For technical support or sales inquiries, please visit us at www.thorlabs.com/contact for our most up-to-date contact information.

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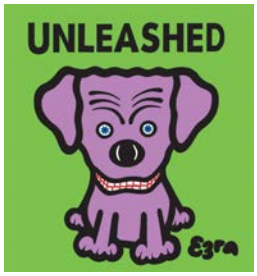

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