

Translation Stages

Linear Manual

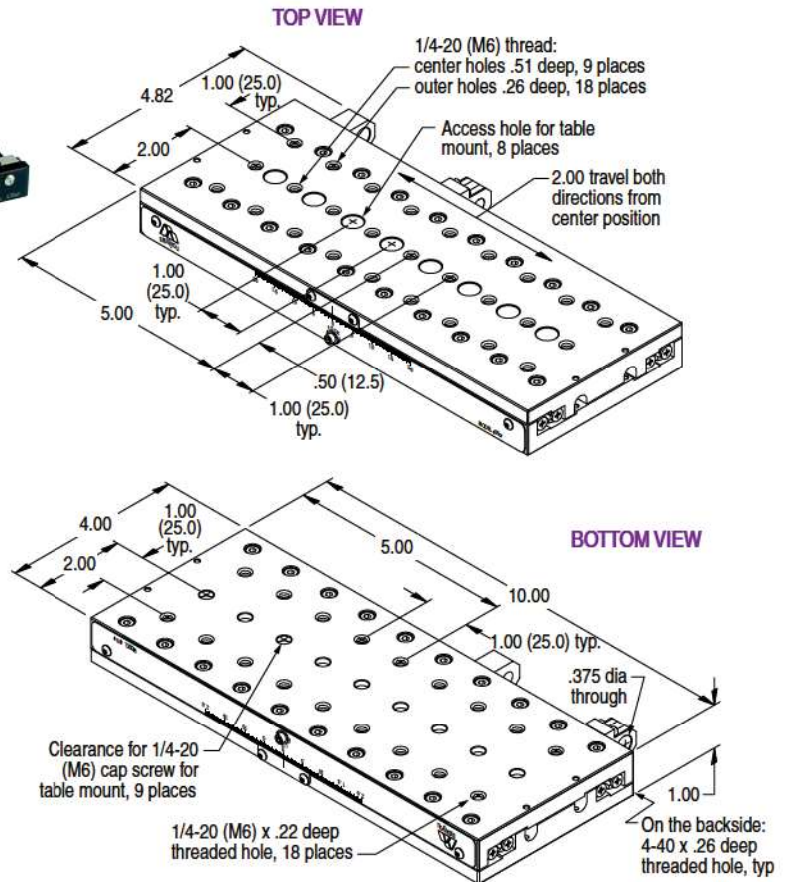
Crossed Roller Stages

4 inch Travel / 400cr

Note that dimensions in parentheses (mm) reflect metric assembly features



Model 400cr
shown with long travel adjustment screw,
not included



Product Features

- Integrated scale / lock
- Right and left hand drive adjustable
- Compatible with Lt series long travel adjustment screws
- Vacuum compatible versions available upon request

Performance Specifications

Maximum horizontal axis load	90 lbs, centered
Maximum vertical axis load	20 lbs, centered
Travel	4.0 inch (100 mm)
Minimum controllable motion	
20TPI	20 μ m
40TPI	10 μ m
80TPI	submicron
100TPI	submicron

Related Products

long travel adjustment screws	59
842 actuator	93
422 actuator	90

Order Information

crossed roller stage, 4.0 inch travel **400cr**

Metric Option — for metric assembly features on this product, add '-M' after model number.

Crossed Roller Translation Stage

The 400cr precision crossed roller bearing translation stage offers exceptionally smooth linear travel. The time-tested design has been improved with the addition of more bearing area than similar stages. The increased bearing surface reduces non-linear motion when changing directions, and maximizes linearity towards the end of travel.

The 400cr has a side located non-influencing lock that is integrated with a graduated scale for position readout of 0.04 inches (1 mm). The actuator mounting block and stop block are designed to enable either right or left hand mounting of the drive device. The actuator mounting block is compatible with our TPI series adjustment screws, 400 and 800 series actuators, as well as standard micrometers.

The spring-loaded 400cr stage is stackable for XY positioning requirements and is compatible with our MX-AB2 for XZ, YZ or XYZ applications.