

Translation Stages

Linear Manual

Crossed Roller Stages

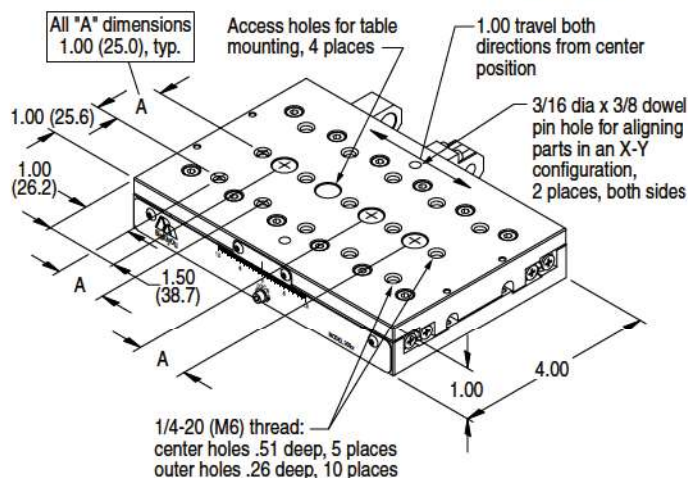
2 inch Travel / 200cr

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

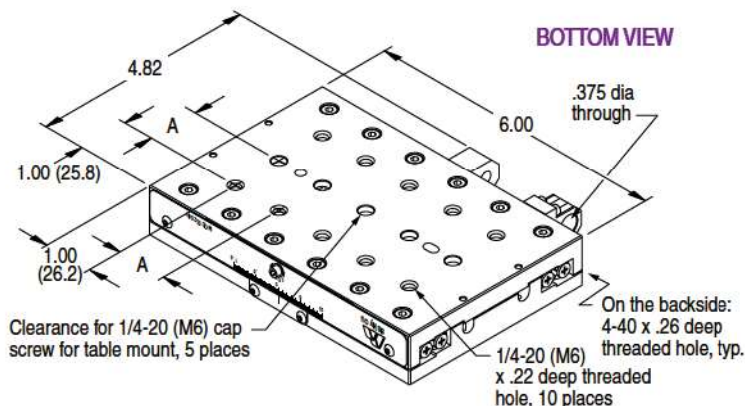


Model 200cr

TOP VIEW



BOTTOM VIEW



Crossed Roller Translation Stage

The 200cr 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 200cr 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 200cr stage is stackable for XY positioning requirements and is compatible with our MX-AB2 for Z-axis applications.

Product Features

- Integrated scale / lock
- Right and left hand drive adjustable
- Compatible with standard micrometers
- Vacuum compatible versions available upon request

Performance Specifications

| | |
|------------------------------|------------------|
| Maximum horizontal axis load | 70 lbs, centered |
| Maximum vertical axis load | 10 lbs, centered |
| Travel | 2.0 inch (50 mm) |
| Minimum controllable motion | |
| 20TPI | 20 μ m |
| 40TPI | 10 μ m |
| 80TPI | submicron |
| 100TPI | submicron |
| 127TPI | submicron |

Related Products

| | |
|-----------------------|--------------|
| TPI adjustment screws | beginning 84 |
| 842 actuator | 93 |
| 422 actuator | 90 |
| motorized version | 64 |

Order Information

crossed roller stage, 2.0 inch travel 200cr

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