Translation Stages
*Precision Stainless-Steel Translation Stages*
Models 9066 and 9067
Warranty

New Focus guarantees its products to be free of defects for one year from the date of shipment. This is in lieu of all other guarantees, expressed or implied, and does not cover incidental or consequential loss.

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Introduction

The ½” Model 9066 and 1” Model 9067 Precision Stainless-Steel Translation Stages reflect New Focus’ dedication to Simply Better™ photonics tools.

The crossed-roller bearing design with hardened and polished stainless-steel races provides smooth and precise positioning. We hope that you will find these stages to be a valuable and dependable tool in your laboratory.
Two Sizes – Same Features

Micrometer tightening screw accepts 5/64" (2-mm) ball driver.

LOCKING SCREWS
Locking screws accept 5/64" (2-mm) ball driver.

Model 9066-X

Micrometer Clamp accepts 3/8" (9.5-mm) actuators.


Base Plate accepts ¼-20 (M6) screws for mounting to optical tables.

Model 9067-X

Micrometer tightening screw accepts 5/64" (2-mm) ball driver.

Micrometer Clamp accepts 3/8" (9.5-mm) actuators.


Base Plate accepts ¼-20 (M6) screws for mounting to optical tables.

Locking screws accept 5/64" (2-mm) ball driver.
Adding and Reconfiguring Stages

Installing or Moving Locks

1. Align the Locking Plate with the four screw holes on the bottom of the stage.

2. Add the Locking Plate Cover followed by hardware (included) as shown.

- #2 Nylon washer
- #2 Steel washer
- #2 Socket head cap screw
Adding or Reconfiguring an Axis

3. Insert two 0.125" dia. x 0.25" long dowel pins (included).

4. Align the top stage to the dowel pins and install two socket head cap screws (included - see table below for screw size).

5. Slide the stage to the end of its travel and stop the stage by inserting a 5/64" (2-mm) ball driver.

6. Secure the stage with two socket head cap screws.

7. Attach the micrometer clamp using two #3-48 x 5/8" socket head cap screws (included).

<table>
<thead>
<tr>
<th>Socket Head Cap Screw Size</th>
</tr>
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<tbody>
<tr>
<td>9066</td>
</tr>
<tr>
<td>#4-40 x 3/8&quot;</td>
</tr>
</tbody>
</table>
Configurations

Model 9066-COM and 9067-COM

Model 9066-X and 9067-X

Model 9066-XY-L and 9067-XY-L

Model 9066-XY-R and 9067-XY-R

Model 9066-XYZ-L and 9067-XYZ-L

Model 9066-XYZ-R and 9067-XYZ-R

Model 9066-XZ and 9067-XZ
Accessories For Model 9066

90° Angle Plate Model 9041

Base Plate Model 9042

½" Screw Set Model 9301

½" Picomotor™ actuators Model 8301

13-mm Micrometer Model 9352

½" Closed-Loop Picomotor™ actuators Model 8310

Accessories For Model 9067

90° Angle Plate Model 9161

Base Plate Model 9160

1" Screw Set Model 9302

1" Picomotor™ actuators Model 8302

25-mm Micrometer Model 9353
Attaching the Stage to an Optical Table

Attach the stage to an optical table using four ¼-20 (M6) screws.

Adding a 90° Angle Plate

1. Insert two 0.125” dia x 0.25” dowel pins.
2. Secure with four socket head cap screws.
Adding Actuators

The micrometer clamps provided with the stages accept all actuators with standard 3/8” (9.5mm) barrel sizes, including micrometers, fine-pitched screw sets, and Picomotor™ actuators from New Focus.
## Specifications

<table>
<thead>
<tr>
<th></th>
<th>9066 Series</th>
<th>9067 Series</th>
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<tbody>
<tr>
<td>Maximum travel</td>
<td>0.53” (13mm)</td>
<td>1.03” (25mm)</td>
</tr>
<tr>
<td>Angular Deviation, maximum</td>
<td>100 µrad</td>
<td>150 µrad</td>
</tr>
<tr>
<td>Straightness</td>
<td>3 µm</td>
<td>3 µm</td>
</tr>
<tr>
<td>Flatness</td>
<td>3 µm</td>
<td>3 µm</td>
</tr>
<tr>
<td>Load Capacity, centered</td>
<td>25 lbs (111 N)</td>
<td>50 lbs (222 N)</td>
</tr>
<tr>
<td>Load Capacity, vertical</td>
<td>10 lbs (44.5 N)</td>
<td>18 lbs (80 N)</td>
</tr>
<tr>
<td>Bearing Type</td>
<td>Thermally-matched crossed-roller</td>
<td>Thermally-matched crossed-roller</td>
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Customer Service

Technical Support

Information and advice about the operation of any New Focus product is available from our technical support engineers. Engineers are on duty from 8:00–5:00 PST, Monday through Friday (excluding holidays). For quickest response, ask for “Technical Support” and know the model number of your translation stage.

Phone: (408) 919-1500
Fax: (408) 987-3178
Support is also available by email: techsupport@newfocus.com
We typically respond to email within one business day.

Service

In the event that your translation stage malfunctions or becomes damaged, please contact New Focus for a return authorization number and instructions on shipping the unit back for evaluation and repair.
Model 9067-XYZ-L(-M)