PWA120

Ø1.5" Accessory Adapter for Breadboard Frames

Installation Manual



Original Instructions

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Chapter 1 Safety

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.



Warning
Given when there is a risk of injury to the user.



Caution
Given when there is a possibility of damage to the product.

Note
Clarification of an instruction or additional information.

1.1. General Warnings and Cautions

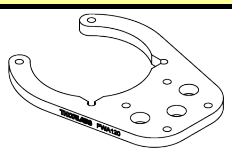
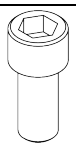
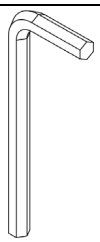


Warning:
If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired. In particular, excessive moisture may impair operation.

The equipment is for indoor use only. The equipment is not designed for use in an explosive atmosphere.

Chapter 2 Installation

2.1. Parts Included

Description	Qty	Image
Accessory Adapter Plate	1	
M16 x 35 mm Socket Head Cap Screw	2	
M6 x 15 mm Socket Head Cap Screw	4	
M6 x 18 mm Socket Head Cap Screw	4	
M6 Form B Flat Washer	4	
M14 Short Arm Hex Wrench	1	
M5 Stubby Ball End Hex Wrench	1	

2.1.1. Load Capacity

Once installed, each PWA120 adapter plate can accommodate up to 40 kg (88 lbs) of vertical load.

Warning
Do not exceed the 40 kg (88 lbs) maximum vertical load capacity for each adapter plate.

2.2. Fitting to a PFR Series Rigid Mount Frame

1. Slide the adapter into place over the mount.

2. Align the four outer holes on frame top plate with the holes in the adapter plate. The adapter plate can be rotated 90 degrees if a different orientation is required.

3. Using the included 5 mm hex key, M6 washers and M6 x 15 mm screws, attach adapter plate to the breadboard frame.

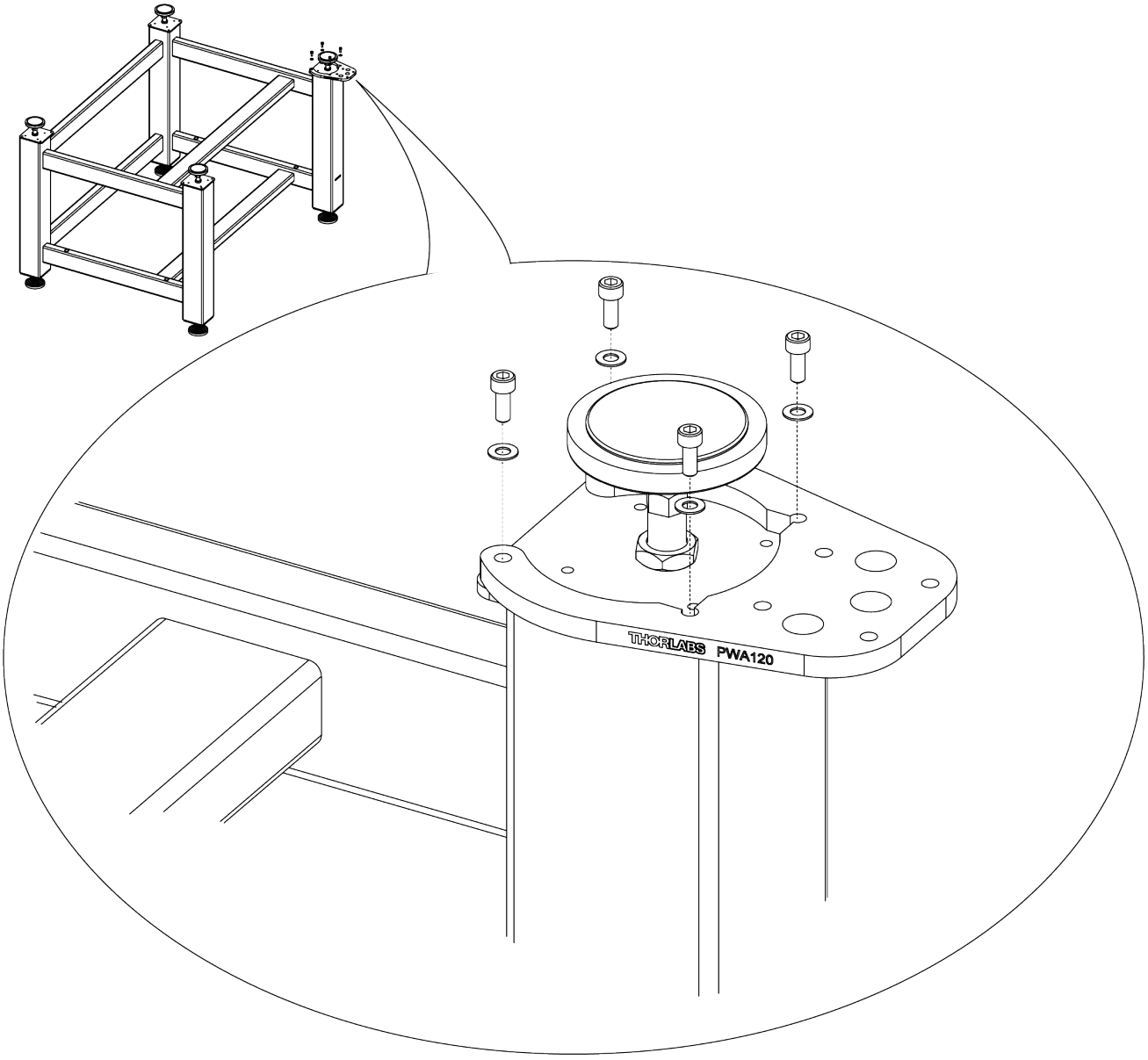


Figure 1 Installation – PFR Series Frame

2.3. Fitting to a PFP Series Standard Passive Mount Frame

1. Slide the adapter into place over the body of the passive mount.

2. Align the four outer holes on frame top plate with the holes in the adapter plate. The adapter plate can be rotated 90 degrees if a different orientation is required.

3. Using the included 5 mm hex key, M6 washers and M6 x 15 mm screws, attach adapter plate to the breadboard frame.

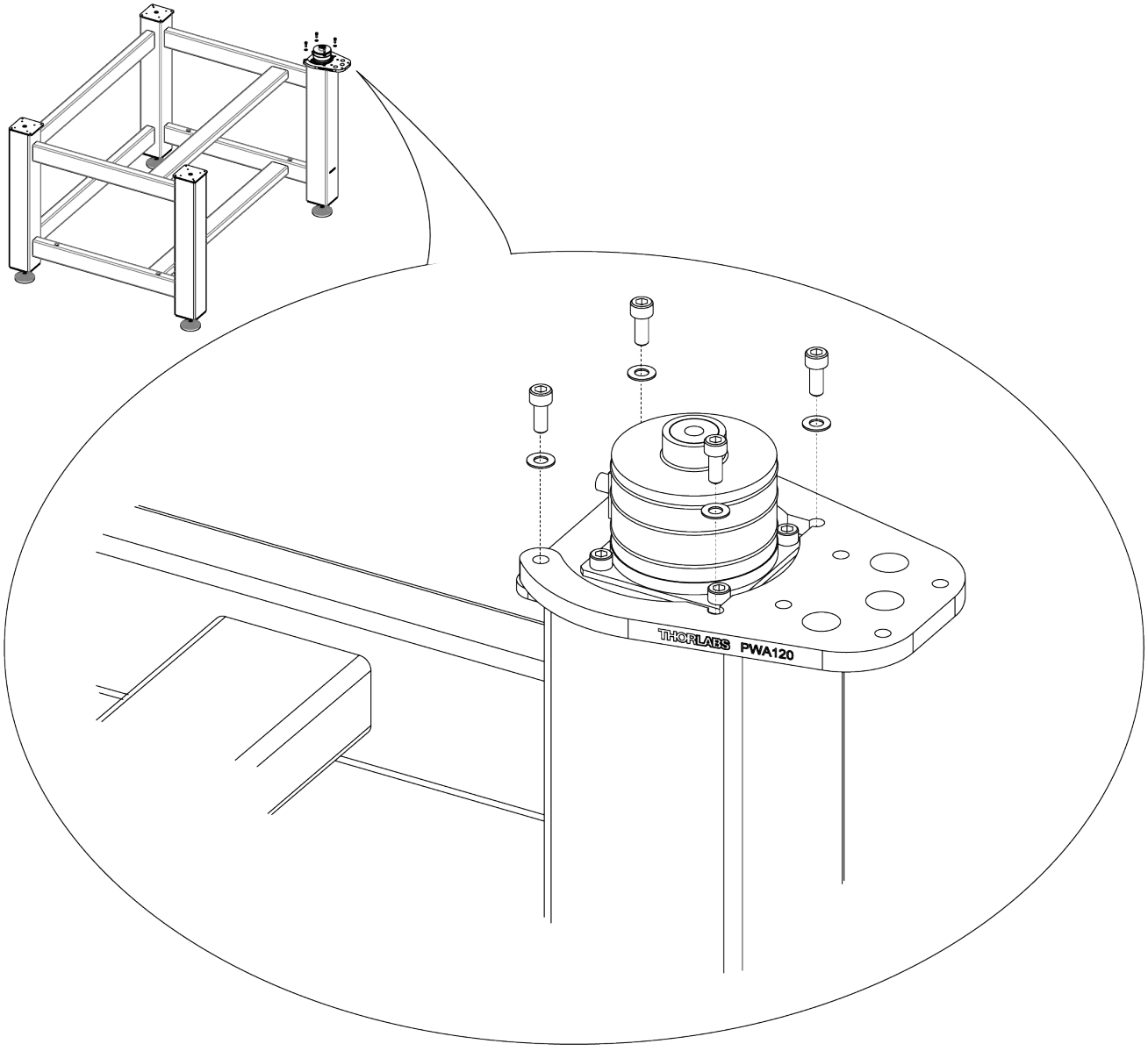


Figure 2 Installation – PFP Series Frame

2.4. Fitting to a PFH Series Heavy Duty Passive Mount Frame

1. Remove and discard the screws from the passive mount, but leave the mount in place.
2. Slide the adapter into place over the body of the passive mount.
3. Align the four outer holes on frame top plate with the holes in the adapter plate. The adapter plate can be rotated 90 degrees if a different orientation is required.
4. Using the included 5 mm hex key, M6 washers and M6 x 18 mm screws, attach adapter plate to breadboard frame.

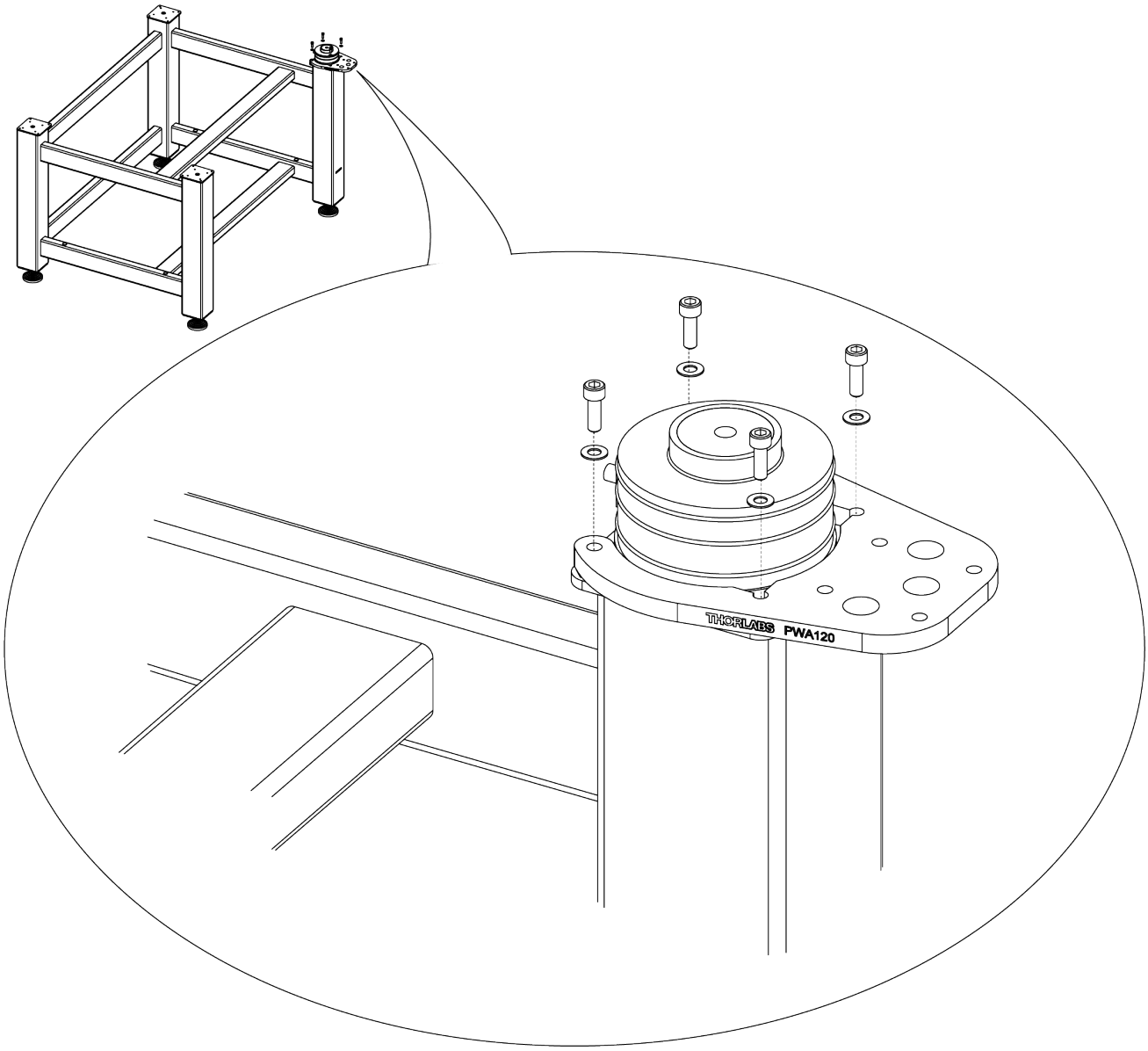


Figure 3 Installation – PFH Series Frame

2.5. Installing a 1.5” Post

1. If fitted, remove and discard the long M16 bolt from the base of the 1.5” post but retain the washers.
2. Align the post with one of the three post holes on the adapter plate (central hole recommended).
3. Using the washers removed at item (1), and the included M16 x 35 mm bolt and 14 mm hex key, attach the post to the adapter plate.

Note
If using 2 posts on 1 adapter plate, use the two outer mounting holes.

It is not possible to use 3 posts on a single adapter plate.

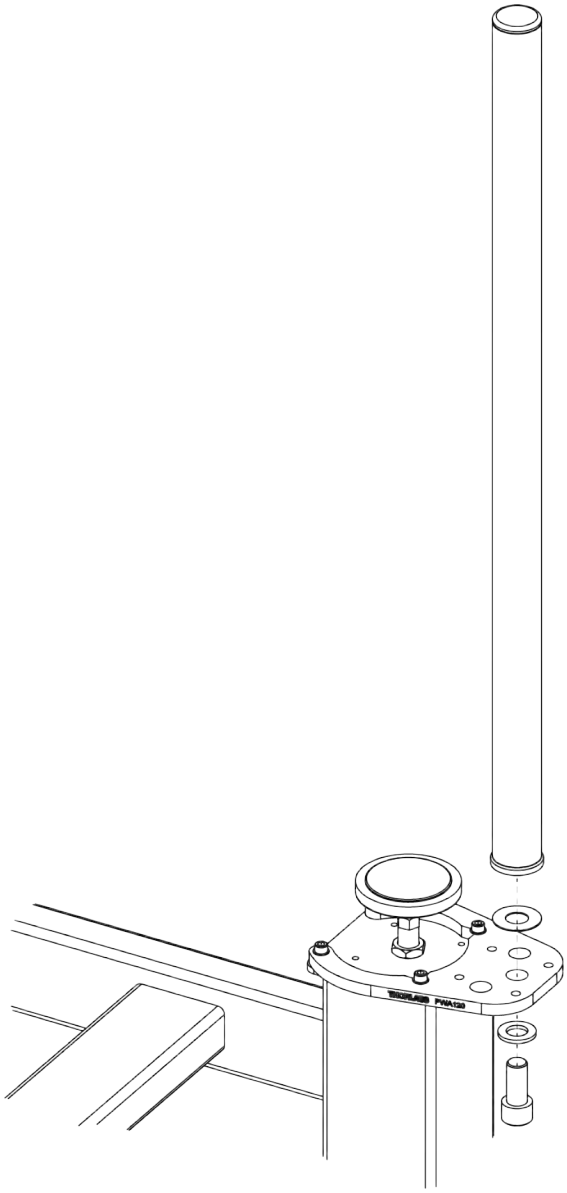


Figure 4 Installation – 1.5” Post

2.6. Installing Two 1.5” Posts and a Shelf

Breadboard frames with a length or width of 900 mm or 1200 mm are compatible with the overhead shelves (PSY221, PSY223, PSY222 and PSY224). This configuration requires 2 posts and 2 adapters.

⚠	**Caution:** To avoid a risk of tipping the frame… Do not push/pull laterally on the posts as this may cause the table frame to tip over. High loads should be placed on a shelf in a lower position, otherwise the stability of the frame could be affected. The center-of-mass of the experimental setup as a whole, should remain within the frame area. Do not exceed the vertical load capacity of 40 kg (88 lbs) for each adapter plate.

1. Following the procedure detailed in sections 2.2 to 2.4, fit the adapters in the orientation shown below, i.e. on opposite frame legs, facing away from each other.

2. Using the central hole, fit one post to each adapter plate as detailed in section 2.5.

3. Fit the shelf to the posts in accordance with the instructions supplied with the shelf.

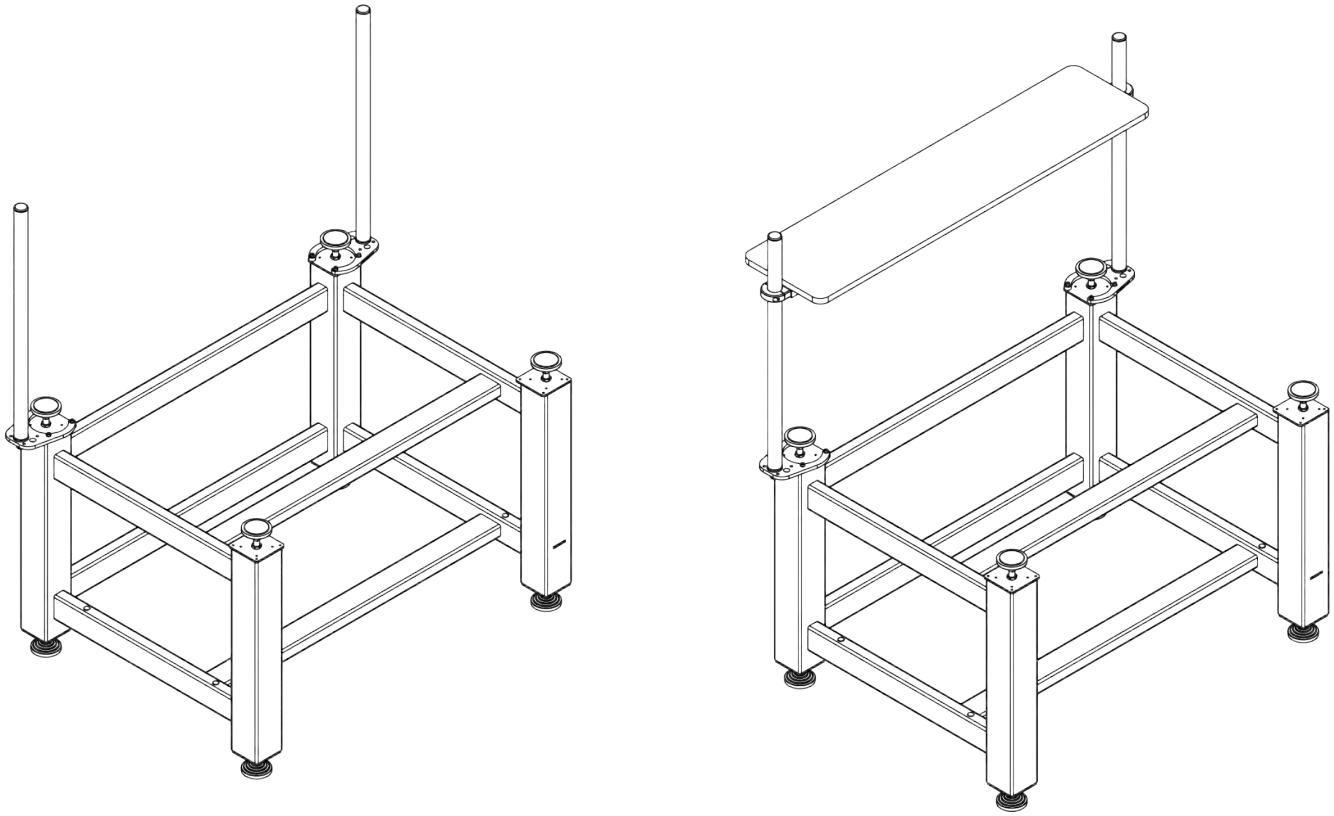


Figure 5 Installation – Two 1.5” Posts

2.7. Installing Other Accessories

Caution: To avoid a risk of tipping the frame…
Do not push/pull laterally on the posts as this may cause the table frame to tip over.

High loads should be placed in a low position, otherwise the stability of the frame could be affected.

The center-of-mass of the experimental setup as a whole, should remain within the frame area.

Do not exceed the vertical load capacity of 40 kg (88 lbs) for each adapter plate.

The adapter plates can also be used to fit both imperial and metric breadboards or other accessories, using the 4 M6 (1/4") clearance holes shown below.

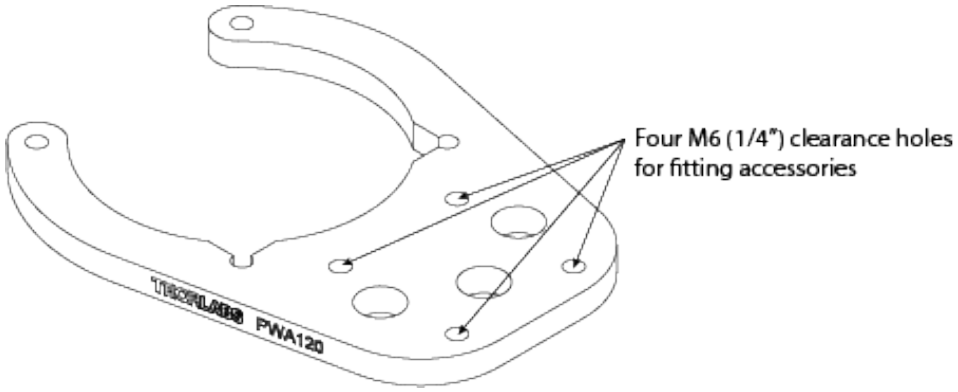


Figure 6 Clearance Holes in Adapter Plates

Chapter 3 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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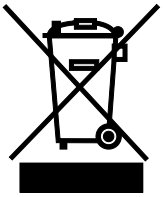
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Annex I



THORLABS

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