

Universal Manipulator Stand

Warranty

WPI (World Precision Instruments, Inc.) warrants to the original purchaser that this equipment, including its components and parts, shall be free from defects in material and workmanship for a period of one year* from the date of receipt. WPI's obligation under this warranty shall be limited to repair or replacement, at WPI's option, of the equipment or defective components or parts upon receipt thereof f.o.b. WPI, Sarasota, Florida U.S.A. Return of a repaired instrument shall be f.o.b. Sarasota.

The above warranty is contingent upon normal usage and does not cover products which have been modified without WPI's approval or which have been subjected to unusual physical or electrical stress or on which the original identification marks have been removed or altered. The above warranty will not apply if adjustment, repair or parts replacement is required because of accident, neglect, misuse, failure of electric power, air conditioning, humidity control, or causes other than normal and ordinary usage.

To the extent that any of its equipment is furnished by a manufacturer other than WPI, the foregoing warranty shall be applicable only to the extent of the warranty furnished by such other manufacturer. This warranty will not apply to appearance terms, such as knobs, handles, dials or the like.

WPI makes no warranty of any kind, express or implied or statutory, including without limitation any warranties of merchantability and/or fitness for a particular purpose. WPI shall not be liable for any damages, whether direct, indirect, special or consequential arising from a failure of this product to operate in the manner desired by the user. WPI shall not be liable for any damage to data or property that may be caused directly or indirectly by use of this product.

Claims and Returns

• Inspect all shipments upon receipt. Missing cartons or obvious damage to cartons should be noted on the delivery receipt before signing. Concealed loss or damage should be reported at once to the carrier and an inspection requested. All claims for shortage or damage must be made within 10 days after receipt of shipment. Claims for lost shipments must be made within 30 days of invoice or other notification of shipment.

Please save damaged or pilfered cartons until claim settles. In some instances, photographic documentation may be required. Some items are time sensitive; WPI assumes no extended warranty or any liability for use beyond the date specified on the container.

• WPI cannot be held responsible for items damaged in shipment en route to us. Please enclose merchandise in its original shipping container to avoid damage from handling. We recommend that you insure merchandise when shipping. The customer is responsible for paying shipping expenses including adequate insurance on all items returned.

• Do not return any goods to WPI without obtaining prior approval and instructions (RMA#) from our returns department. Goods returned unauthorized or by collect freight may be refused. The RMA# must be clearly displayed on the outside of the box, or the package will not be accepted. Please contact the RMA department for a request form.

• Goods returned for repair must be reasonably clean and free of hazardous materials.

• A handling fee is charged for goods returned for exchange or credit. This fee may add up to 25% of the sale price depending on the condition of the item. Goods ordered in error are also subject to the handling fee.

• Equipment which was built as a special order cannot be returned.

• Always refer to the RMA# when contacting WPI to obtain a status of your returned item.

• For any other issues regarding a claim or return, please contact the RMA department

Warning: This equipment is not designed or intended for use on humans.

* Electrodes, batteries and other consumable parts are warranted for 30 days only from the date on which the customer receives these items.



Universal Manipulator Stand

501622, 501623

www.wpiinc.com

ASSEMBLY GUIDE

Serial No. _____

030510



World Precision Instruments, Inc.

USA

International Trade Center, 175 Sarasota Center Blvd., Sarasota FL 34240-9258
Tel: 941-371-1003 • Fax: 941-377-5428 • E-mail: sales@wpiinc.com

UK

Astonbury Farm Business Centre • Aston, Stevenage, Hertfordshire SG2 7EG
Tel: 01438-880025 • Fax: 01438-880026 • E-mail: wpiuk@wpi-europe.com

Germany

Zossener Str. 55, 10961 Berlin
Tel: 030-6188845 • Fax: 030-6188670 • E-mail: wpide@wpi-europe.com

China & Hong Kong

WPI Shanghai Trading Co., Ltd.
Rm 20A, No. 8 Dong Fang Lu, Lu Jia Zui Financial District, Shanghai, P.R.China 200120
Tel: +86 21 68885517 • E-mail: chinasaless@china.wpiinc.com

Internet

www.wpiinc.com

World Precision Instruments

INTRODUCTION

The Universal Manipulator Stands allow you to mount a variety of manual and motorized micromanipulators at a range of heights and angles. The base is solid aluminum, and it is configured with industry standard, pre-bored holes (1/4 x 20 x 1" or M6 x 25mm). This allows for direct mounting to any type of vibration-free table or optical bench. The extruded tower is either 30cm (WPI #501622) or 45cm (WPI #501623). The height of the mounted micromanipulator may be set to any height along the entire length of the stand. Each stand includes one rotation clamp. With the purchase of extra rotation clamps (WPI #501624), additional micromanipulators may be mounted on the stand.

Parts List

After unpacking, verify that there is no visible damage. Verify that all items are included (Fig. 1):

- (1) Base plate
- (1) Post (30mm or 45mm)
- (1) Rotation clamp with handle
- (5) M8 Base assembly screws
- (2) M4 Manipulator mounting screws
- (2) 1/4"x20 Thumb screws with washers for English tables (SAE)
- (2) M6x1 Thumb screws with washers for metric tables
- (1) 3.0mm Hex wrench
- (1) 6.0mm Hex wrench

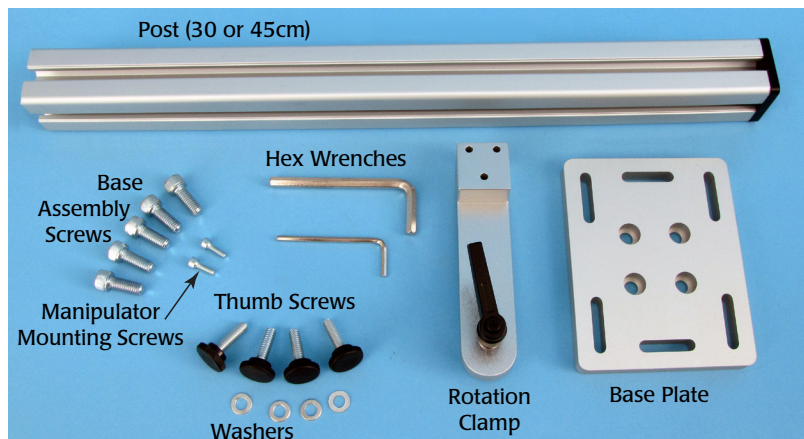


Fig. 1—Parts of the unassembled Universal Manipulator Stand

ASSEMBLY INSTRUCTIONS

- Disassemble the rotation clamp assembly by rotating the handle counter clockwise. Remove the insert (Fig. 2).

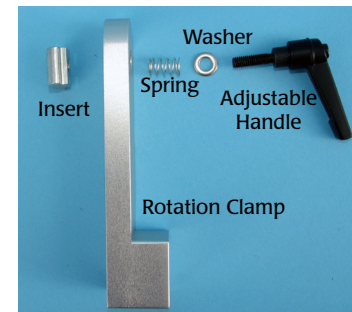


Fig. 2—Rotation clamp and handle disassembled

- Slide the insert from the rotation clamp assembly into the extrusion channel at the bottom of the post (Fig. 3).



Fig. 3—Insert is oriented so the screw hole is facing out

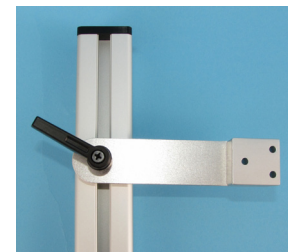


Fig. 4—Position rotation clamp

- Reposition the washer, spring and rotation clamp on the adjustable handle and screw the handle back into the insert. Before tightening the handle, slide the rotation clamp up the manipulator stand to the desired position.
- Turn the post upside down. Align the holes on the base plate with the holes in the bottom of the post. The flat side of the base plate faces the post so that when the base assembly screws are installed, the screw heads are flush with the bottom of the base plate (Fig. 5). Insert four base assembly screws and use the 6mm hex wrench to tighten them securely.

NOTE: Hold the rotation clamp securely as you unscrew the handle. The spring can cause the pieces to fly apart.

TIP: Always put the washer on the handle before the spring. The washer insures that the rotation clamp does not slip when it is loaded.



Fig. 5—Secure the base to the post

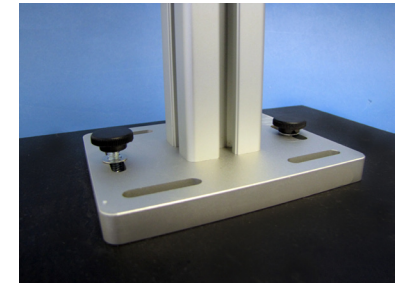


Fig. 6—Base mounted to table

- Use the appropriate two thumb screws (with washers) to secure the manipulator stand to the table (Fig. 6). The two 1/4" x 20 thumb screws are for use with English tables (SAE), and the two M6 x 1 thumb screws are for use with metric tables.

ADJUSTING THE HANDLE

The spring-loaded handle can be disengaged from the clamping screw and rotated to 16 different positions. Lift the handle, rotate it to the desired position and release the handle to re-engage the clamping screw.

MOUNTING A MICROMANIPULATOR

Use the two M4 manipulator mounting screws to secure the micromanipulator to the rotation clamp (Fig. 7).

NOTE: Three holes are available on the rotation clamp, but only two are used to secure a micromanipulator. The KITE, Märzhäuser and SM325 use two holes set on the diagonal (~19.5mm apart). The PPM5000 uses the two vertical holes, (~16mm apart). M325 will not mount on this stand

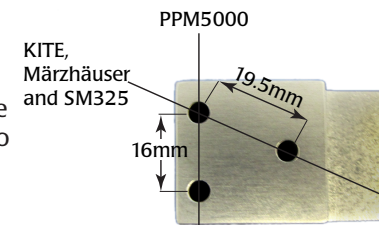


Fig. 7—Choose two holes to mount the micromanipulator

SPECIFICATIONS

	501622	501623
Base Plate Dimensions	10.0 x 12.2 x 1.5cm	10.0 x 12.2 x 1.5cm
Post Dimensions	4.0 x 4.0 x 30cm	4.0 x 4.0 x 45cm
Shipping Weight	4kg (9 lb.)	5kg (11 lb.)
Mounting Screws	English: 1/4 x 20 x 1"	
	Metric: M6 25mm grid	