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Find the *Diagnostic Instruments / SPOT Imaging Solutions SMS25* at our website: *Click HERE*

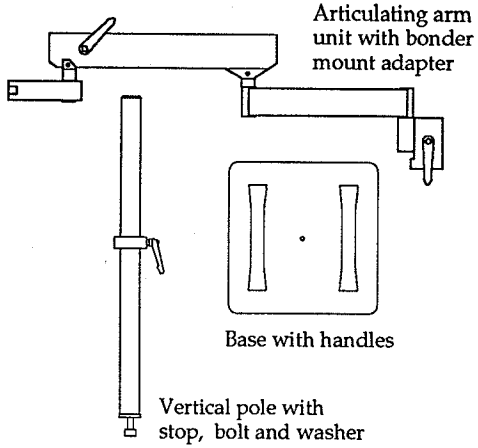
assembly

After removing the SMS25 Articulating Arm Stand from the crate, you will have the following three units:
1 Base with handles.
1 Vertical pole with safety stop, washer and bolt.
1 Articulating arm unit with 5/8" bonder mount adapter.

You will also have one accessory pack containing the following items:
1 Lever handle.
3 Allen wrenches.

1. Attach the Vertical pole to the base.
A. Remove the large bolt and washer from the bottom of the vertical pole.
B. Place the vertical pole over the hole in the middle of the base plate and re-insert the bolt up through the washer and into the tapped hole in the bottom of the vertical pole. Tighten this bolt very securely with the large 3/8" allen wrench provided. (fig 1). Note: The washer must be used to insure the proper seating of the bolt.
C. Adjust the safety stop on the vertical pole by gently unscrewing the lever handle until the stop can be moved and slide it half-way down the vertical pole. Tighten the safety stop securely with the lever handle. Note: The rotational position of the lever handle can be adjusted by placing your thumb on the stud and gently pulling the handle toward you with your four fingers. This action releases a rachet mechanism in the stud allowing you to turn the handle 360 degrees. Release the handle at the desired position to lock it back in place. (See insert in fig. 1).

2. Adjust the articulating arm unit.
A. Use the 1/8" and 3/16" allen wrenches provided to loosen the joint friction adjustment scews. (See fig. 2). These screws are tightened down for shipping and must be adjusted before use.
B. To adjust the vertical tension of the articulating arm, remove the screw and end cap from the back of the counterbalanced



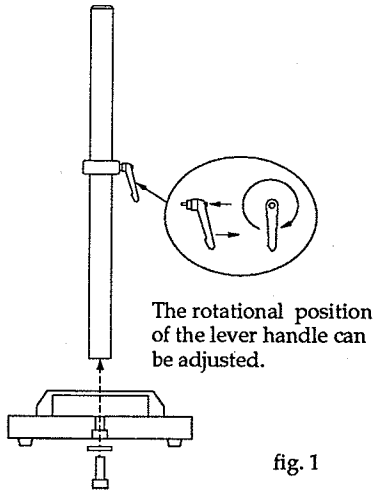


fig. 1

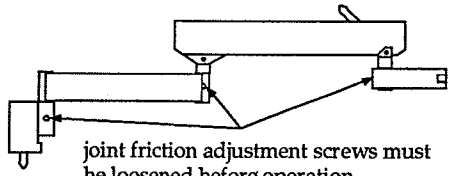


fig. 2

section to access the counterbalance adjustment nut. (See fig. 3). This 1/2" nut adjusts clockwise for more tension and counterclockwise for less tension. The adjustment range on the counter-balanced section is from 4 lbs. to 20 lbs.

3. Attach the Articulating arm to the Vertical pole and base unit.
A. Make sure that the safety stop on the vertical pole is tight.
B. Slip the articulating arm and slider unit over the top of the vertical pole and gently rest it on the safety stop. (fig. 4). Install the lever handle from the accessory pack into the side of the slider block and tighten.

3A. Attach the Articulating arm to the wall mount plate (option #SMS25W).
A. Before attempting to mount the SMS25W, all walls should be tested for suitable thickness and soundness. The advise of a professional may be necessary. Please also note that because of the wide range of wall thickness and material possibilities, the buyer is responsible for supplying all wall mounting hardware.
B. After the plate is securely mounted to the wall, slip the articulating arm unit into the wall mount plate. (See insert fig. 4).

4. Mount the microscope to the SMS25 Articulating Arm Stand.
A. Loosen delrin retaining yoke screws with a flat blade screw driver.
B. Slip the microscope mounting dowel up through the opening and tighten the screws until the desired swivel tension is achieved. A light grease has been applied to the inside of the microscope mounting hole to prevent galling of aluminum parts.

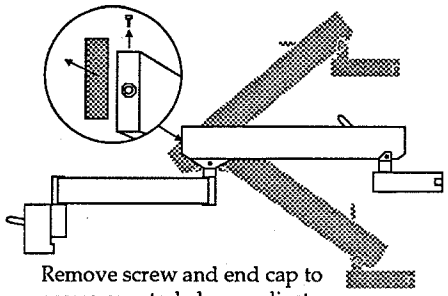


fig. 3

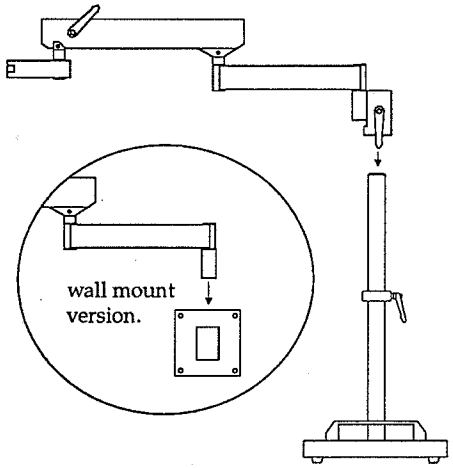


fig. 4

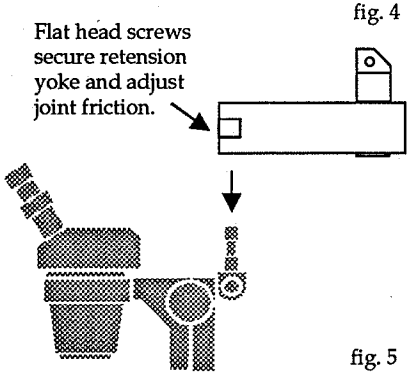


fig. 5

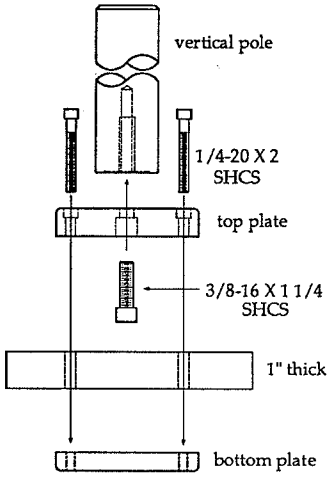
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TM-1 option

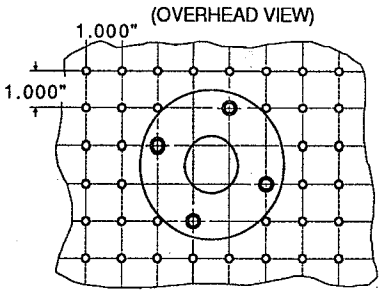
TM-1 Top Plate

Parts List:
1 Top plate.
1 Bottom plate.
1 3/8-16 x 1 1/4 alloy SHCS.
1 3/16" hex key, long arm, ball end.
4 1/4-20 x 7/8 stainless steel SHCS.
4 1/4-20 x 2 stainless steel SHCS.
4 1/4-20 x 2 3/4 stainless steel SHCS.
1 5/16" hex key, long arm.

1. To install the TM-1 onto a lab table:
A. Using the top plate as a template, mark the positions for the four holes.
B. Center punch these marks. Use a 5/16" drill to make four holes through the table, keeping the drill as perpendicular to the table as possible.
C. Attach the top plate to the vertical pole with the 3/8-16 x 1 1/4 alloy (black) socket head cap screw. Tighten the bolt securely using the 5/16" hex key provided.
D. Place the top plate and vertical pole unit on the table top, lining up the top plate holes with the holes drilled in the table. Slip a 1/4-20 socket head cap screw of the appropriate length (see note) through one of the holes in the top plate, through the drilled hole in the table, and thread it into one of the holes in the bottom plate, leaving it a little bit loose. The bottom plate should be oriented with the rounded edge facing down. Repeat this procedure with the other three cap screws and tighten them all securely with the 3/16" hex key provided.
Note: Selection of the length of socket head cap screws depends on the table thickness. The length of the screw is measured from the bottom of the head to the ends of the threads (called length under head). The 7/8" cap screws are used only for machine mounting and for anti-vibration tables. The 2" long cap screws are used for tables between 5/8" and 1" thick. The 2 3/4" long cap screws are used for tables between 1 1/8" and 1 3/4" thick. Tables thicker than 1 3/4" will require longer cap screws. These are special order items.



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PLACEMENT OF PEDESTAL ON GRID OF TAPPED HOLES

application

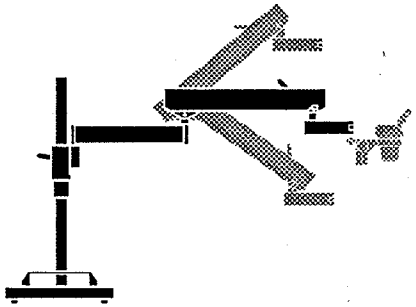
- **Adjustable counter-balanced arm allows easy, hand guided up and down movement.**
- **Works in spaces where a conventional boom stand will not fit.**
- **Heavy base ensures stability.**

SMS25 Boom Stand

The SMS25 is a light duty, articulating arm boom stand designed for use with smaller microscopes without camera systems. Ideal for small labs or any crowded area, the articulating arm gives free range of motion without the clearance behind the base that a standard boom arm requires.

The adjustable, counter-balanced, articulating arm, moves easily up and down through 14.5" of vertical travel while stretching over 31" from vertical pole center to mount socket center. The vertical slider that the arm is attached to can be adjusted from 2" (measured from table top) to 24". When combined with the vertical travel of the counter-balanced arm, the total vertical travel for the SMS25 stand is 0" to 32". The adjustment range on the counter-balanced section is from 4 lbs. to 20 lbs., allowing the user to set the most optimum tension for his or her microscope.

The "Bonder Mount Adapter" at the end of the articulating arm accepts the industry standard 5/8" diameter microscope mounting dowel. Focus mounts that have this 5/8" dowel are:
Bausch & Lomb "E" and "ER" arms
Nikon SMZ-1 76316 focus mount
Unitron 15320 focus mount
American Optical 562 "A" focus mount
Olympus SZ-STB1 focus mount
Zeiss 47 50 94 focus mount
Meiji bonder focus mount



Tilting and non-tilting adapters are available for microscopes that do not have the 5/8" diameter dowel mount.

SMS25W Wall Mount Stand

The SMS25W is an SMS25 mounted to a 6" X 6" steel wall mount plate rather than a weighted base. Please note that because of the wide range of wall thickness and material possibilities, the buyer will be responsible for supplying all wall-mounting hardware.

Worst case position tip-over = 17 lbs.
Total product weight = 97 lbs.
Approximate shipping weight = 130 lbs
Crate dimensions = 12" x 15" x 34"

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warranty

Diagnostic Inst. Limited Warranty
Diagnostic Instruments Inc. warrants to the original user, each new product, excluding electronics, to be free of defects in material and workmanship for a period of one year from the date of purchase by such user. Diagnostic warrants all electrical work for a period of 90 days. Diagnostic shall, at its option, either repair or replace, free of charge, any product found, upon the company's inspection, to be so defective. For this warranty to be effective: The product must not have been abused, misused or improperly maintained and/or repaired during such period and such defect must not have been caused by ordinary wear and tear. In no event shall the company be liable for any consequential, indirect, incidental or special damages of any nature arising from the sale or use of this product.

CAUTION
All Diagnostic products are manufactured to the highest industrial standards but in any application where the stand is to be placed in a flammable, anesthetic or surgical environment or in an environment where even a single instance of failure to support a load might result in personal injury or loss of life, we do not approve of the use of any product manufactured by Diagnostic Instruments Incorporated.

Please fill out and return the top portion of the enclosed card to validate your warranty. Keep the bottom portion for your records.

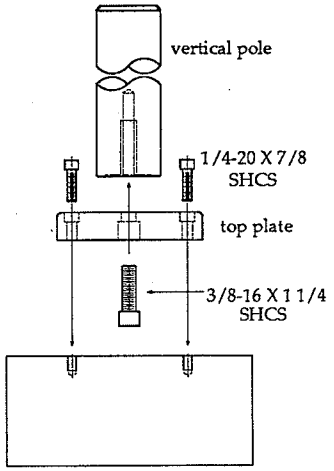
maintenance

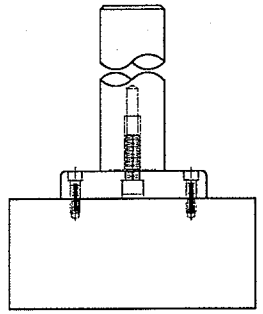
To clean the SMS25 Boom Stand, use a solution of mild detergent and water on the painted surfaces. Mineral spirits may be used to clean the metal poles.

It is suggested that the poling be sprayed with a dry silicone spray lube once monthly.

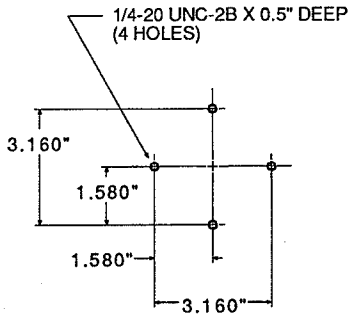
2. To attach the TM-1 to an anti-vibration table.
A. Attach the top plate to the vertical pole, using the 3/8-16 x 1 1/4 alloy (black) socket head cap screw. Tighten securely with the 5/16" hex key provided.
B. Place the top plate and vertical pole unit on the table top, lining up the top plate holes with the tapped holes in the table. Slip a 1/4-20 x 7/8" long (length under head) socket head cap screw through one of the holes in the top of the plate, and thread it into one of the tapped holes in the table, leaving it a little bit loose. Repeat this procedure with the other three cap screws. Now tighten all the screws securely using the 3/16" hex key provided.

3. To attach the TM-1 to a machine.
A. Drill and tap the "Bolt Hole Pattern" into the machine on a flat surface at the desired location.
B. Attach the top plate to the vertical pole, using the 3/8-16 x 1 1/4 alloy (black) socket head cap screw. Tighten securely with the 5/16" hex key provided.
C. Place the top plate and vertical pole unit on the machine, lining up the top plate holes with the tapped holes of the "Bolt Hole Pattern". Slip a 1/4-20 x 7/8" long (length under head) socket head cap screw through one of the holes in the top plate, and thread it into one of the tapped holes, leaving it a little bit loose. Repeat this procedure with the other three cap screws. Now tighten them all securely using the 3/16" hex key provided.





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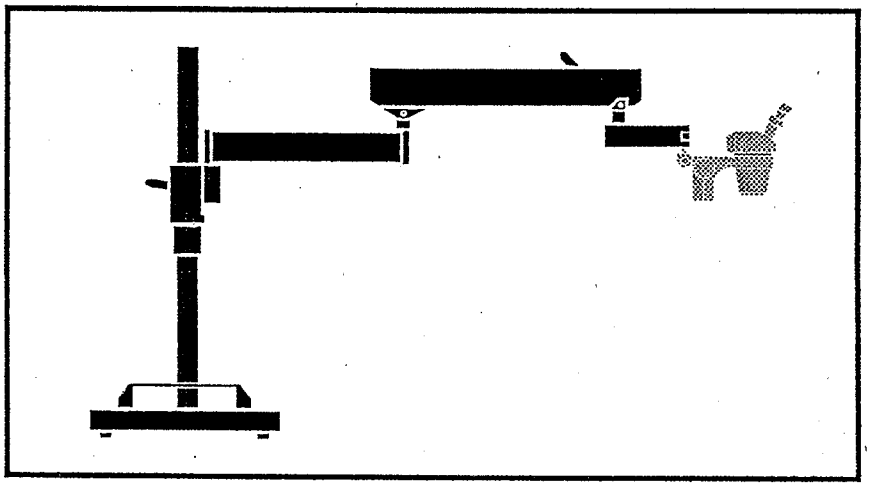


BOLT HOLE PATTERN FOR TAPPED HOLES

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SMS25 boom stand

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INSTRUCTIONS FOR ASSEMBLY AND USE

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