



Durometer Operating Stand 7000D ASTM D2240 Type 2



Hydraulic Operating Test Stand #7000D

The 7000A and 7000D durometer operating stands were engineered to fit all PTC® durometer styles.

The Classic Style and the Ergo Style mount right on the stand. For the e2000™ and Pencil Style Durometers, a small mounting knob is included.

Specifications

Base	9 7/8" x 8"
Specimen Table	4" x 4"
Weight	45 lbs
Height	27 inches
Shipping Weight	60 lbs

- Hydraulically Controlled Rate of Descent
- Cam Actuated Raise and Lower
- Adjustable Specimen Support Table
- Eliminates User Error
- Increases Accuracy
- NIST Certification Included
- Indenter to Specimen

PTC® has developed the first mechanical operating stand that delivers a load sufficient to overcome the spring force of the durometer smoothly and without shock in approximately 1 second from contact. Most other mechanical stands apply an increasing load over time which gives inconsistent and inaccurate readings. Since rubber and plastics creep over time, it is essential that the load be applied promptly.

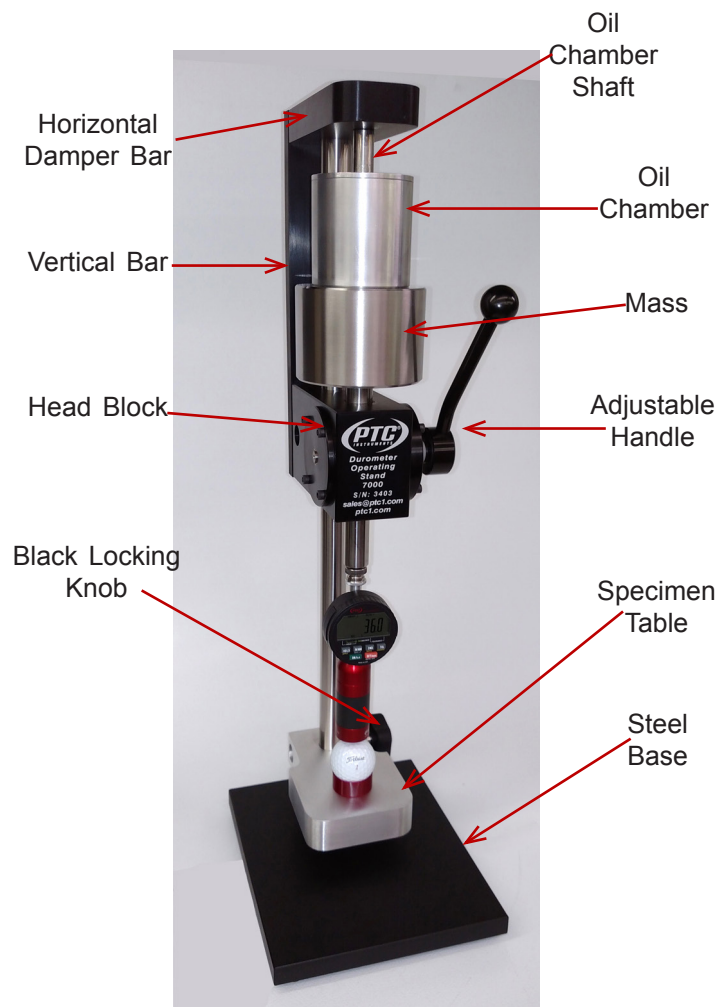
This precisely engineered durometer stand has a hydraulic damper controlling the rate of descent smoothly, without jump or stutter. The unit is activated with a simple smooth lever control. This stand is designed for serious testing, eliminating operator variability and increased accuracy and repeatability. Whether in the lab or in a production environment you will get accurate and repeatable readings you can trust.

This heavy duty stand features a solid base for stability and a one inch diameter Stainless Steel Precision Ground Support Shaft for accurate alignment. It will accommodate both standard and pencil length durometers. It is made with high precision components throughout. Including ball bearings, sintered bronze bushings and precision machined components.

The stand will accept test specimens up to 3 inches (76mm) depending on the overall height of the durometer.

Please call Tech Support for assistance.





Care should be exercised to assure that the indenter never makes contact to the specimen support table as this can result in damage to the indenter.

Accessories Included

7000.82 9/64" Hex Key

7000.84 1/4" Hex Key

7000.89 Mounting Knob for 200 and 500 Series Durometers

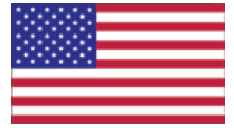
7000.9 Swivel Head Adapter

7000.98 Setting Block for ASTM Type B and D Indenters.



Durometer Operating Stand 7000D

Instructions for Swivel Head Adapter



Operating Instructions for Pressor Foot Alignment ASTM Type B and D

1. Lower the specimen table down to the lowest position.
2. Mount the durometer on the Swivel Head Adapter (Part # 7000.9) by gently threading it on the 8-32 threaded screw.

Conical indenters (ASTM Type B and D) are easily damaged by making contact directly to the specimen table without a test specimen. Exercise caution when leveling the table.

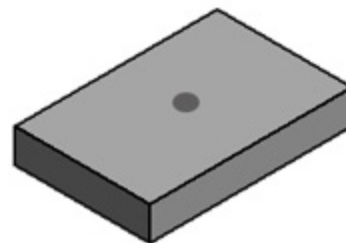
3. Place the setting block (Part # 7000.98) with 3/16" hole on the specimen table. Be sure to use the side with the .025" chamfer facing up.
4. Position the Durometer within 1/4" above the setting block
5. Release the operating handle allowing the durometer to settle on the setting block with the indenter placed in the 3/16" hole of the setting block. This protects the tip of the indenter from damage.
6. Grasp the lower portion of the durometer body with the thumb and index finger and adjust the pressor foot so that it is flush with the setting block.
7. Tighten the swivel head screw while holding the durometer body in position.
8. Return the handle to the starting position.
9. Remove the setting block.
10. Set table height about 3/8" below durometer pressor foot.

Note: The durometer pressor foot parallelism to the specimen table should be verified before each series of hardness testing.

To Adjust the Swivel Head

1. Position the Durometer within 1/4 "of the setting block.
2. Place the setting block (Part # 7000.98) on the specimen table.
3. Release the operating handle allowing the durometer to settle on the setting block.
4. Grasp the lower portion of the durometer body with the thumb and index finger and adjust the pressor foot so that it is flush with the setting block. The Durometer Indenter should be in the 3/16" hole.
5. Tighten the swivel head screw while holding the durometer body with the maximum dial reading position.
6. Return the operating handle to the starting position.
7. Remove the setting block
8. Place the test specimen on the table.
9. Begin testing. The test specimen shall be at least 6.0 mm (0.24 in.) in thickness unless it is known that results equivalent to the 6.0-mm (0.24-in.) values are obtained with a thinner specimen.

Setting Block 1 1/2" x 1" Part #7000.98 3/16" Hole



Swivel Head Adapter Part # 7000.9

