Durometer Operating Stand 7000A
ASTM Type 2 Indenter to Specimen

The 7000 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.

Durometer 306L Classic Style ASTM Type A

(sold separately)

- Hydraulically Controlled Rate of Descent
- Cam Actuated Raise and Lower
- Adjustable Specimen Support Table
- Eliminates User Error
- Increases Accuracy
- NIST Certification Included
- Compatible with ASTM Type A | B | E | O & Asker®C Durometers

After 2 years of extensive research and testing on medical grade silicone, 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 elastomeric materials 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.

The specimen support table is adjusted to test materials of various thicknesses. An O-ring fixture can also be used when testing O-rings. Custom fixtures are also available, please contact PTC.®

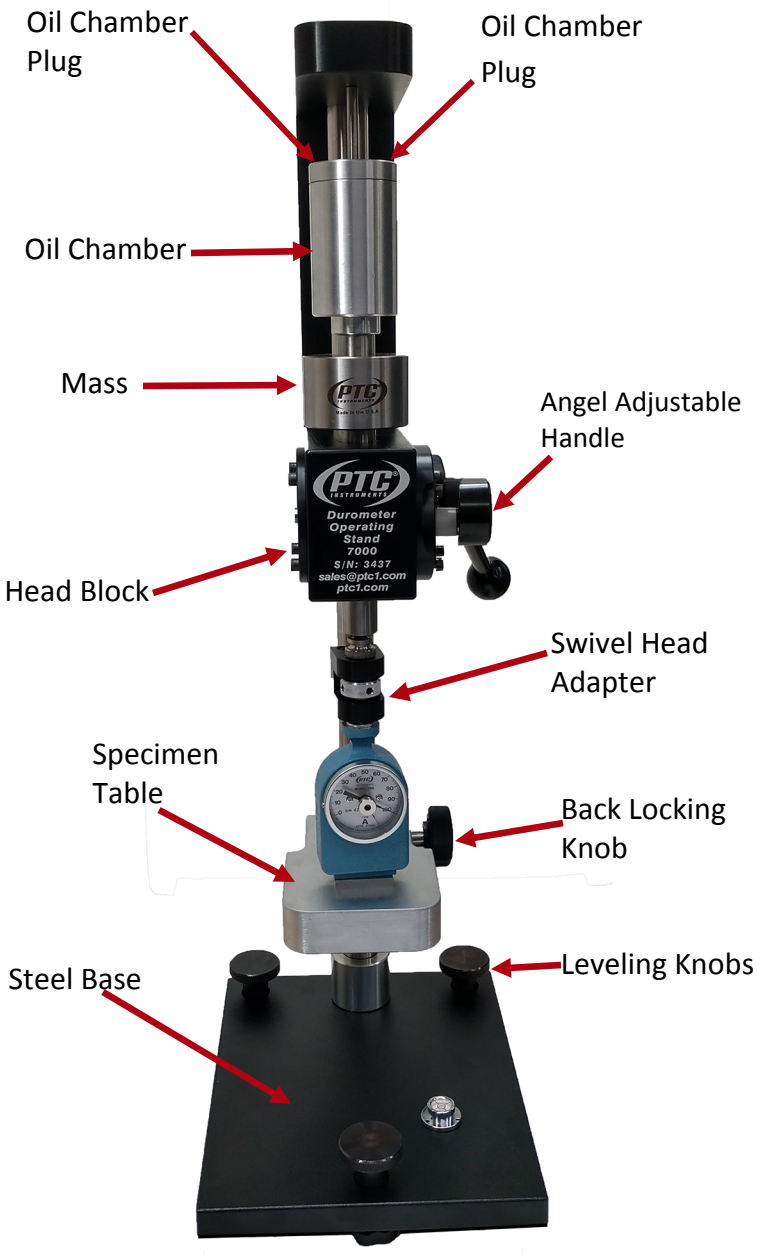
This heavy duty stand features a solid base for stability and a one inch diameter Stainless Steel Precision Ground Support Shaft for accurate alignment. It will accommodate both standard and pencil length durometers. It is made with high precision components throughout. Including ball bearings, sintered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

The stand will accept sample materials up to 3” (76mm) thick depending on the height of the durometer used.

SPECIFICATIONS	
Weight	36lb (16.33kg)
Height	27 in (68.58 cm)
Base Dimensions	9.75 in x 8 in (234mm x 203mm
Specimen Table	6 in x 4 in (152mm x 101mm)
Shipping Weight	46lb (20.87kg)

Durometer Operating Stand 7000A

Set-up and Instructions



Durometer 306L Classic Style ASTM Type A (sold separately)

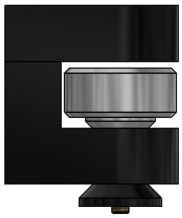
Accessories

- Hex Key
- Mounting Knob for 200 and 500 series PTC Durometers
- Swivel Head Adapter
- Setting Block for Truncated Indenters ASTM A|B|E|O
- Bubble Level

PTC Metology™ is the calibration lab for PTC® Instruments and is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.

The Operating Stand should be placed on a solid level work surface and checked with the bubble level provided. Adjust the base using the 3 leveling knobs.

Remove both plugs from the top of the oil chamber with the hex key. Fill the oil chamber with hydraulic oil (45 ml) using the syringe. Replace the plugs and snug with hex key. (See Video)



Swivel Head Adapter

Lower the specimen table down to the lowest position.

Mount the swivel head adapter to the 8-32“ screw by turning 3 or 4 turns and tighten the thumb screw. Use the mounting knob for Durometers without a threaded hole.

Place the setting block on the specimen table.

Release the operating handle allowing the durometer to settle on the setting block. 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.

Tighten the swivel head thumb screw while holding the durometer body in position. The Durometer should read between 99 and 100 on the dial.

Return the handle to the forward position and remove the setting block. Adjust the specimen table to accommodate the material thickness.

Place the specimen on the table.

Begin testing by releasing the handle. The test specimen shall be at least 6.0 mm (0.24”) in thickness unless it is known that results equivalent to the 6.0 mm values are obtained with a thinner specimen.

The durometer presser foot parallelism should be verified every time a durometer is mounted.