



ELASTEK ElaTek Products
by CCSi

The Bradnick–Warner Specimen Support Fixture is designed for use with the dimensional measuring instruments described in [ASTM D3767](#) Procedures A, A1, and A2. It is specifically mentioned in the method and shown in Figure 3.

D3767 Specimen Support Fixture

This device is designed to accommodate specimens which are small, thin, or irregularly shaped. It is placed over the instrument platform and is secured with a standard ¼-20 hexagonal bolt.

The fixture's base has a centrally located orifice to accept various inserts, either the 3 standard inserts (included), those which are designed for special use (available on request), or those designed for use with other instruments, such as the Shore® Type M MicroHardness Durometer (also available from CCSi).



Standard Base Insert



Standard Cylindrical Insert



Standard Domed Insert

The *Standard Base Insert* has a 4–40 threaded hole at its center. It is designed to accept guide pins or customized fixtures, which can be manufactured to virtually any configuration.

The *Standard Cylindrical Insert* has a Ø 10 mm post that is 13 mm in height. It is used to position a wide range of oddly shaped specimens that are flat and have parallel sides.


The *Standard Domed Insert* has a Ø 12.5 mm post that is 25 mm in height. It is used to position specimens having hemispherical configurations, such as diaphragms, gloves, condoms, etc.

Specially Designed Inserts can be manufactured to attach to the Standard Base Insert, or as separate inserts. They can be manufactured to accommodate virtually any specimen configuration, such as:

- The double guide pin insert. These are used to measure small, difficult to handle, o-rings or other solid tubular specimens. The height, and the distance between the posts, being specific to an o-ring size.
- The mandril insert. A vertical post (spindle) supports a horizontal rod (mandril) of a specified length and diameter. The mandril inserts are used to measure the wall thickness of tubing, hose, and other hollow tubular specimens.

The Bradnick–Warner Specimen Support Fixture features:

- High carbon content steel for durability;
- CAD designed for engineering quality;
- CAM manufactured for precision;
- Innovative concept directly from the originators!
- Perfectly matches the ElaTek™ [Digital](#) and [Analog](#) ASTM D3767 Thickness Gauges.

 Index Terms: dimension; measurement; 83.060; specimen support fixture; thickness gage; thickness gauge; dimensional measurement; ASTM D3767; dial indicators; digital indicators; Bradnick-Warner.

Copyright © 2006 CCSi, Inc. • All Rights Reserved • Published February, 2006

Corporate Consulting, Service & Instruments, Incorporated
221 Beaver Street • Akron, Ohio 44304 USA
Telephone: 800.742.8535 / 330.376.3600 • Facsimile: 800.229.9329 / 330.376.8500
• WWW.CCSI-INC.COM • WWW.ORECOZONE.NET •