

## Model 316 Portable Steel Hardness Tester



**Range of 20HRC to 65HRC on the equivalent Rockwell C Scale  
Accuracy of  $\pm 1.5$  points.**

**Model 316 includes Indenter, Microscope, Test Block, Conversion  
Calculator and Carrying Case.**

PTC®'s Model 316 **Portable** Steel Hardness Tester measures the hardness of metals in the range of 20 to 65 HRC on the equivalent Rockwell C Scale. The instrument is fully portable and easy to use. It can easily be carried anywhere an accurate hardness test is required. It is exceptionally useful where the test piece is too large or heavy to test on a bench-type tester.

This high quality, affordable, portable tester is a must for large work pieces, small machine shops, heat treaters, quality control personnel, and engineers. PTC®'s Model 316's illumination system has been completely redesigned for optimal performance. The new light source is an aircraft grade aluminum flashlight with a fiber optic light pipe. The new slim design of the microscope light which allows the user to test in tight spaces which are not accessible to bench testers.

The unit consists of two major components. A calibrated indenter and a direct reading microscope. The hand held automatic indenter is used to make a small indentation in the piece to be tested. The microscope is used to directly "read" the hardness from the size of the impression on its equivalent Rockwell C Scale. The Model 316 is used by heat treaters, engineers, quality control inspectors and shop personnel to test the hardness of metals in such industrial equipment as dies and punches, gears, cutting teeth, welds, hardened way, bars, rods, nuts, bolts, rivets, etc... PTC®'s Model 316 Steel hardness Tester comes complete with a calibrated impact indenter, illuminated microscope, calibrated test blocks, conversion calculator, and carrying case.

The hand held indenter features a 1/16-inch diameter tungsten carbide ball tip. This makes a small spherical indentation in the material being tested. The 60x microscope features a direct reading reticule. The illumination system features a Maglite® flashlight. The fiber optic light pipe directs the light to the focus of the microscope. The calibrated test block can be furnished with certification to ASTM E18 Specification.

#### Available Calibrated Test Blocks

316.29H Test Block (50 thru 65HRC)

316.29L Test Block (40 thru 49HRC)

316.29S Test Block (30 thru 39HRC)

316.8 Fiber Optic Light Kit

Certification in Accordance to ASTM E18 is available; see current price list.

1. Range 20HRC to 65HRC (equivalent Rockwell C Scale)

2. Accuracy  $\pm 1.5$  points

3. Weight 2 lbs. 2 oz. (1 kg)

4. Shipping Weight 4 lbs. (1.8 kg)

**Distributed in Canada by:  
QPC Instruments Inc.**