

## 415B Equivalent Rockwell B Scale



**Model 415B Steel Hardness Tester**

**Range of 40HRB to 100HRB on the equivalent Rockwell B Scale Accuracy of  $\pm 1\frac{1}{2}$  points**

Metal Hardness Tester

Model 415B for fast HRB testing.....

The Model 415B comes complete with test block, conversion calculator, and carrying case. The unit is mounted in a stationary mill, drill press or lathe in use.

The instrument consists of a completely redesigned chassis made from aerospace aluminum, which houses a high quality displacement gauge. The upper end (the shank) is the gripping area for insertion into a milling machine, drill press, or lathe. The lower end is the load cell. It extends up into the body of the hardness tester and houses a center less ground precision spring, which preloads the hardened steel indenter.

The total force required to move the indenter through its full travel of 0.025" (0.64 mm) is 85 pounds (38.55 kgf). The hardened steel indenter has been ground to an included angle of 30° and polished to a spherical radius of 0.012". The impression made by the indenter in the metal being tested is a very small hemisphere and is equivalent in size to a superficial examination in size. The resistance of the metal sample surface to the indenter results in the gauge pointer being moved to a corresponding hardness reading. Minimum sample thickness is 0.025" for most materials. If the indenter does not make a dimple on the opposite side, the material is thick enough for accurate testing. The Model 415B is designed for use by inspection and quality control personnel, heat treaters, tool and die makers, mechanics, welders, etc. This unique instrument is the handiest and the most economical way of grading and checking various metals in equivalent Rockwell B range of 40HRB to 100HRB.

### **Specifications:**

1. Range 40 HRB to 100 HRB (equivalent Rockwell B Scale)
2. Accuracy  $\pm 1.5$  points.
3. Weight (instrument only) 12-oz. (340 g).  
(with case & block) 1 lb. 1 5 oz. (. 9 kg).
4. Shipping weight 4 lbs. (1.8 kg)
5. Length 6-3/4 in. (17.2 cm).

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