

Brinell Calibrator

MODEL 6BC SPECIFICATIONS :

Overall Dimensions : 6" High x 5-1/4" x 2"

Accuracy : Better than 1/10 of 1%

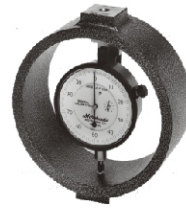
Calibration : Certificate of Calibration with statement of traceability to the United States National Institute of Standards & Technology (NIST)

Approx : deflection at capacity in inches : .060"

Approx : deflection at capacity in divisions : 600 division

Sensitivity : 1/10 Division

Readability : 1/10 Division



Model 6BC Morehouse
Brinell Calibrator

MOREHOUSE BRINELL CALIBRATORS

The ever increasing emphasis on product quality control demands inspection and test equipment be maintained at peak performance levels. To achieve this condition, standards used to check performance of quality control equipment must have unquestionable accuracy.

Further, because technology is demanding more and more lightweight components made from heat-treated metal, it becomes increasingly important the highest attainable degree of accuracy in hardness measurement and control be maintained to assure maximum product quality and reliability, and thereby greatly reduce cost incurred by rejections, or perhaps complete product failure.

For many years the world-famous Morehouse Proving Ring, which fully meets the exacting requirements of the National Institute of Standards & Technology specifications has been recognized as the premier standard for calibration of materials testing machines and Brinell Hardness testers. Because the Morehouse Proving Ring is an expensive instrument to make, its use may be economically impractical where only one or two Brinell hardness testers must be calibrated.

To offset this problem, Morehouse Instrument Company offers Morehouse Brinell Calibrators. These instruments operate on the same time proven principles as the Proving Ring, and are produced with the same care.

Morehouse offers two models of Brinell Calibrators. The Model 6BC is a high deflection ring which optimizes resolution and readability. The Model 7BC is designed to deflect approximately .030" at capacity and is ideal for calibrating Brinell Hardness Testers which have total indenter travel less than .060".

All Morehouse Brinell Calibrators are machined from specially alloyed steel and manufactured to the same exacting, closely controlled specifications as Morehouse Proving Rings. To further insure the desired high degree of accuracy and reliability, a special indicator is used to measure ring deflection under load.

The assembled Morehouse Brinell Calibrators are calibrated in accordance with ASTM E74. This is required by ASTM E10, the specifications governing test methods for Brinell hardness.

Only after Brinell Calibrations have been proven to meet the required accuracy a Certificate of Calibration issued. The Certificate of Calibration issued for each approved Morehouse Brinell Calibrator shows the actual deflection of each load for three runs at each load.

The calibration is performed by Morehouse using dead weights that have been calibrated and certified to the United States National Institute of Standards & Technology. This unbroken chain of traceability is essential to comply with quality assurance requirements.

All Morehouse Brinell Calibrators are supplied complete with calibration by Morehouse certified traceable to the United States National Institute of Standards & Technology at loads of 500 kgf; 1000 kgf; 1500 kgf; 2000 kgf; 2500 kgf, and 3000 kgf. A 10 mm load ball and a padded instrument case are included.

MODEL 7BC SPECIFICATIONS :

Overall Dimensions : 4-3/8" High x 6" x 1-7/8"

Accuracy : Better than 1/10 of 1%

Calibration : Certificate of Calibration with statement of traceability to the United States National Institute of Standards & Technology (NIST)

Approx : deflection at 3000 kgf in inches : .030"

Approx : deflection 3000 kgf in divisions : 300 division

Sensitivity : 1/10 Division

Readability : 1/10 Division



MODEL 7BC Morehouse
Low Profile Brinell Calibrator