



KING BRINELL TESTER

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STANDARDS

ASTM E110

The King Portable Brinell Tester is the most reliable, user-friendly, and affordable portable Brinell tester and the ONLY portable Brinell tester on the market that is Directly Verifiable.

APPLICATIONS



Versatile enough to test virtually any size and shape of metal specimen, these testers are easy to use. The operator simply places the specimen between the anvil and the test head, cranks the test head down onto the specimen, locking the tester in place, closes the pressure release valve, and pulls the hydraulic lever until desired load is reached.

The tester applies up to a 3,000 kg load on a 10mm ball, making a lasting impression, which is available for re-reading at any time. A by-pass valve is automatically activated at the calibrated load, eliminating the chance of overloading.

The impression is then read and recorded by the operator using a Brinell microscope such as "Deep reading microscope" or KingScan®IV automatic Brinell microscope. This [portable Brinell hardness tester](#) meets all international standards for Brinell testing including ASTM E-110, British Standard #240, Pt.2, Sect.1 and JIS Standards, and is calibrated to 1/2 of 1% of load on equipment traceable to NIST Standards.

Optional Adapters and Component Parts



[KING Portable Brinell Testers](#) are versatile enough to test any size and shape of metal.

Long Ram Test Head for easy access into recessed areas or over raised edges.

Low Pressure Test Head for softer metals, can be calibrated to release loads of 62.5 kgf, 125 kgf, 250 kgf, 500 kgf, 750 kgf or 1000 kgf.

Chain Adapter for testing an unlimited range of differently sized parts. Comes with 4' of chain. Longer lengths available.

KING Tester Bases allow testing of your tallest and widest metal pieces.

C-1 Standard Base - 13 1/2" Gap with 4" Throat for metal or round parts with a max. dia. of 8".

C-5 Base - 13 1/2" Gap with 6" Throat for wide parts including pipes with a max. dia. of 12".

C-6 Base - 20" Gap with 4" Throat for tall parts, such as pipes with large openings.

C-7 Base - 20" Gap with 6" Throat for your largest parts on the shop floor or in the field.



KING Tester microscopes and automatic readers fit your every need.

KingScope requires less surface preparation because of the nose piece design.

KingScope 100 rugged, portable ASTM Type A scope with 0.01 mm accuracy. LED illumination allows for easy and quick focus.

KingScope automatic digital microscope, reads impressions to within 0.001 mm accuracy. Uses digital camera and computer software to record and save data.

KING Tester Test Blocks are traceable, serialized, affordable and meet ASTM E-10 standards of 1% tolerance. Our patented, etched, crosshair design improves test accuracy.

KING Master Test Block (2" x 6") is available in multiple formats including HB 30, HB 15, HB 10, and HB 5.

KING Master Test Block (4" x 4") is available for all Brinell scales. The larger block size reduces your cost per indent. The etched alphanumeric grid improves record keeping accuracy



FEATURES

King Brinell Tester Features:

ACCURATE

- Manufactured to the most exacting tolerances ensuring consistent, repeatable results
- Certifications/Standards ASTM E-10, ASTM E-110, ISO 17025
- Calibrated with traceability to NIST
- Calibrated to build, then release, a load of 3000 kgf of pressure
- Permanent impression can be checked and rechecked
- Has a 360° orientation and is self-aligning

DURABLE

- Tungsten carbide ball certified for density and roundness
- Stroke limiter for reduced operator error and provides consistent performance between operators
- One-year Limited Warranty
- Calibration and service plans available

VERSATILE

- Can be used in virtually any position; right side up, upside down, or even sideways.
- Portable so either the part can be moved to the tester or you can take the tester to the part
- Lightweight and easy to maneuver
- Fully interchangeable with multiple bases
- Only one operator required
- Flat, dome and “V” anvils supplied as standard equipment

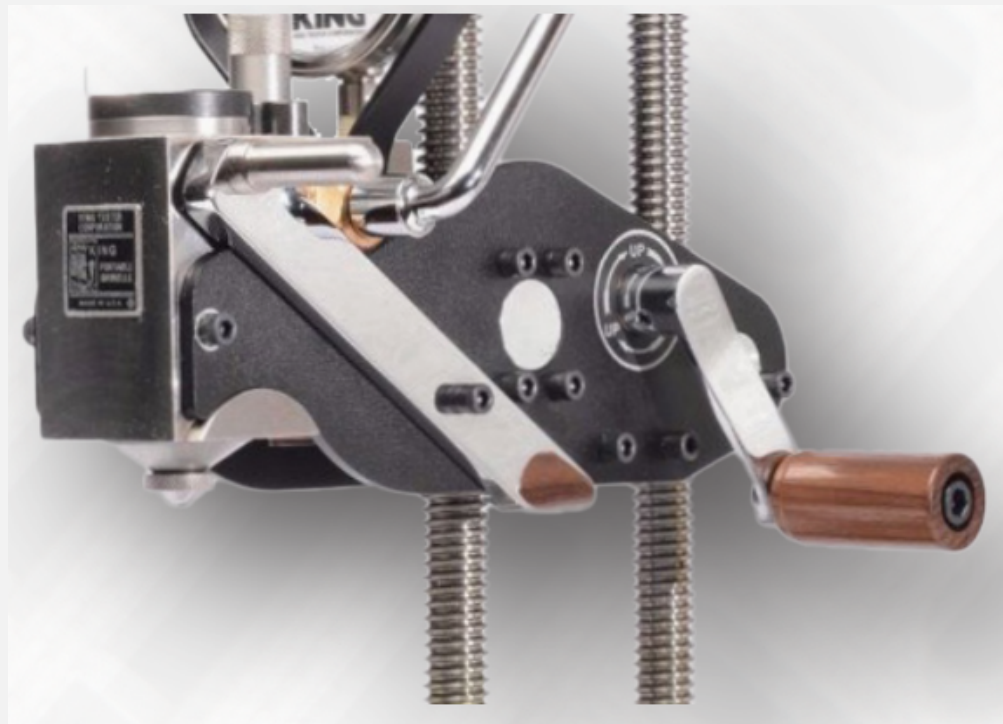
THEORY & METHOD

This test method includes requirements for the use of portable Brinell hardness testing machines that measure Brinell hardness by the Brinell hardness test principle and can meet the requirements of this test method, including the direct and indirect verifications of the testing machine.

TECHNICAL SPECIFICATIONS

Operation Method/Principle	Brinell (Tungsten Carbide ball with a manual hydraulic applied load)
Certifications/Standards	ASTM E-10, ASTM E-110, ISO 17025

Dimensions & Weight	23.5" x 11" x 12"; 38 lbs.
Scales	HB30, HB15
Loads	3000 kgf, 1500 kgf
Load Application	Manual
Tester Base Capacity	4" horizontal reach and 13.5" vertical (larger bases available)





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