



MOTORIZED BRINELL HARDNESS TESTER

QHB-3000E

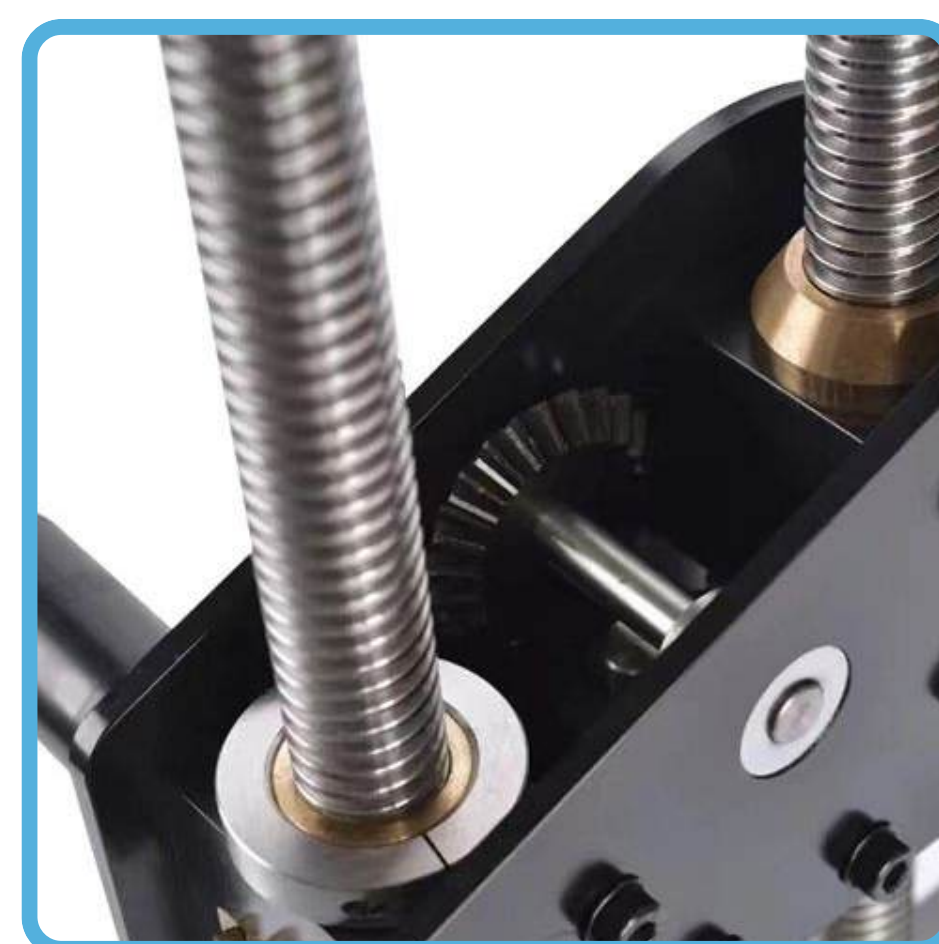
Motorized Brinell Hardness Tester

QHB-3000E

The QHB-3000E is a patented, motorized Brinell hardness tester built for efficiency, accuracy, and ease of use in demanding environments. It applies a 3000 kg test force through a 10 mm carbide ball using a reliable hydraulic system, all in one automated operation—eliminating manual effort and reducing operator fatigue.

Compliant with **ASTM E10** and **ISO 6506** standards, the QHB-3000E ensures precise, repeatable results on steel, non-ferrous metals, castings, forgings, and heat-treated parts. Ideal for large components that can't fit on a desktop unit, it outperforms Leeb testers with greater accuracy and reliability.

Features include a built-in lithium-powered electric test head, lifting support, Brinell test block, flat/V/dome anvils, 20X reading microscope, spare 10 mm carbide ball, and recharger. Compatible with Brinell indentation measurement systems for direct hardness value display.



FEATURES/ADVANTAGES

Automatic Test Force Application

A single-button operation manages both the loading and holding process, ensuring full compliance with Brinell testing standards while improving measurement accuracy.

Effortless Operation

The motorized system removes the need for manual loading, significantly reducing operator fatigue and making the testing process more efficient and user-friendly.

Customizable Test Configuration

Test force and ball indenter type can be pre-configured and calibrated before delivery to meet specific testing needs across various industries.

Clear Status Indicators

An integrated indicator light displays real-time status updates, giving operators immediate feedback on the tester's working condition for smooth operation.

Versatile Field Testing

Engineered for workshop environments, this tester supports hardness inspection of large or fixed components and is suitable for on-site, piece-by-piece testing.

Permanent Indentation Visibility

With a 3000 kgf test force and a 10 mm ball indenter, the resulting Brinell impression remains clearly visible for post-test inspection and quality verification

Reliable Performance

Built on the same principles as benchtop Brinell testers, the unit delivers dependable results for a wide range of metals and industrial applications.

High Measurement Precision

Test force accuracy meets ASTM E10 and ISO 6506 standards, ensuring results that are consistent and comparable to those from laboratory-grade equipment.

TECHNICAL SPECIFICATIONS

SPECIFICATIONS	DETAILS
Test Force	3000 kgf (Optional: 1000 kgf, 750 kgf, 500 kgf)
Indenter	10 mm carbide ball (Optional: 5 mm)
Test Range	95–653 HBW
Capacity	350 mm (Height) × 100 mm (Depth)
Indication Error	Complies with ASTM E10 and ISO 6506-2
Repeatability	Complies with ASTM E10 and ISO 6506-2
Test Force Error	Complies with ASTM E10 and ISO 6506-2
Battery Life	Approx. 450 tests
Weight	13.7 kg/30,3 Lbs

ACCESSORIES	DESCRIPTION
Brinell Hardness Test Block	Available in high or low value types
Carbide Ball	5 mm and 10 mm
Spare Parts Maintenance Kit	Includes hydraulic oil, oil sac, O-ring, etc.
Maintenance Tool Kit	
Brinell Indentation Measurement System	
Spare Lithium Battery Pack	





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Toll-Free: 1.877.884.TEST (8378) | Fax: 954.697.8211
E-mail: info@qualitest-inc.com
Corporate Address: 8201 Peters Rd., #1000,
Plantation, FL 33324, USA.

Qualitest Canada & International

Tel: +1.905.944.9825 | Fax: +1.905.944.0304
E-mail: sales@qualitest-inc.com
Address: 70 East Beaver Creek Rd., #9, Richmond Hill,
Ontario L4B 3B2, Canada.

Qualitest Latin America (Mexico and LATAM Region)

E-mail: ventas@qualitest-inc.com

Qualitest FZE (Regional GCC/ME Office)

Tel: +971 4 8819252 | Fax: +971 4 8819262
Email: gcc@qualitest-inc.com
Address: Jafza One, BB 1610, Jebel Ali Free Zone,
PO Box 261440, Dubai, UAE.

Qualitest Singapore (ASIA PACIFIC Regional Office)

Tel: +65 6393 5480 | E-mail: singapore@qualitest-inc.com
Address: 50 Raffles Place, Singapore Land Tower,
Level 46, Singapore, 048623.

Qualitest Indonesia (Representative Office)

Tel: +62 21 2985 9522 | Fax: +62 21 2985 9889
E-mail: indonesia@qualitest-inc.com
Address: One Pacific Place Level 11, Jl. Jend. Sudirman,
Kav. 52-53, SCBD Area, Jakarta 12190, Indonesia.

Qualitest India

E-mail: india@qualitest-inc.com
15th Floor, Dev Corpora, Pokhran Road No.1,
Eastern Express Highway, Thane, Maharashtra,
Mumbai, 400601, India

