



BrinGen – 3000 Series – Digital Brinell and Automatic Brinell Hardness Tester – Closed Loop System

Standards: [ISO 6506](#), [ASTM E10](#)



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Description

[BrinGen 3000](#) - Digital Brinell Hardness Tester is designed to test the resistance of a metal specimen for indentation. A fixed force (load) is applied against the specimen by an indenter to determine the material hardness. The smaller the indentation, the stronger the specimen is. According to the ASTM E-10 BrinGen - Digital Brinell Hardness Tester is commonly used on surfaces of materials that are too rough to be tested by any other test method. [Learn all about the Brinell Hardness Testing System here.](#)

Operational Video: <https://youtu.be/2KMi77KxJG8>

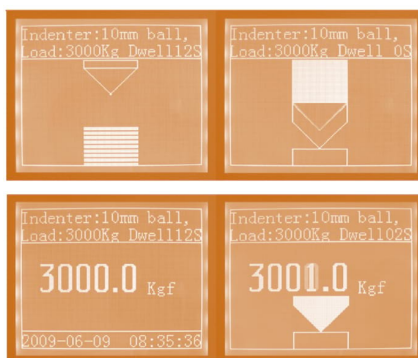
The test load ranges are from 62.5kgf to 3000kgf. BrinGen 3000 Series - Digital Brinell Hardness Testing system is equipped with a **closed loop system** for the absolute highest accuracy load control. Closed loop driven system provides precise control of test force application. BrinGen 3000 Series - Digital Brinell Hardness Testing systems are standalone units that can easily be upgraded to include the NG-Scope - Brinell Hardness Image Automatic Measuring system - for the most accurate results through an optical Analysis Software.

Digital Brinell and Automatic Brinell Hardness Tester Features

- BrinGen is engineered to obtain highly sensitive and accurate readings
- Direct Digital Reading
- Perfect for laboratories, workshops, tool rooms, inspection labs, etc.
- BrinGen's test process eliminates room for all human error for maximum accuracy.
- It is equipped with a large LCD display screen with a user friendly interface.
- Most commonly, BrinGen is used to test the hardness of unquenched steel, cast iron, non-ferrous metals, soft bearing alloys, etc.
- Equipped with a 20X optical microscope to measure the diameter of Brinell indentation
- Resolution capability of the microscope: 0.005mm
- The tester weight is 50% less than the traditional dead weights type tester
- Test load selection by keyboard and LCD screen



- Fully automatic test cycles. The Brinell hardness Tester features a fully automatic test cycle, load application, holding, and unloading, is performed fully automatically. This greatly improves reproducibility of test results since operator influence is eliminated
- Selectable dwell times by screen. The indenter, load, and other test information are shown clearly on the large LCD screen
- Brinell Hardness Calculator (BHC) make the hardness value calculation easier and convenient



Digital Brinell and Automatic Brinell Hardness Tester Technical Specifications

Model	BrinGen – 3000M
Brinell Scale	HBW2.5/62.5, HBW2.5/187.5, HBW5/62.5, HBW5/125, HBW5/250, HBW5/750, HBW10/100, HBW10/1500, HBW10/3000, HBW10/250, HBW10/500, HBW10/1000
Test Force	62.5kgf(612.9N), 100kgf(980.7N), 125kgf(1226N), 187.5kgf(1839N), 250kgf(2452N), 500kgf(4903N), 750kgf(7355N), 1000kgf(9807N), 1500kgf(14710N), 3000kgf(29420N)
Test Space (HxD)	9x6.1" (230x155mm)
Measure Resolution	0.5%
Test Force Accuracy	62.5-250Kgf ≤ 1%; 500-3000Kgf ≤ 0.5%
Dwell Time	1-60s
Test Range	8-650HBW
Microscope	20x
Standard	BSEN 6506, ISO 6505, ASTM E10, GB/T231



Data Display	LCD touch screen
Power Supply	AC110 V or AC220 \pm 5%, 50-60Hz
Dimension	Machine: 21.6x7.5x29.5" (540x190x750mm); Shipping Package: 28.7x17.7x38.6" (730x450x980mm)
Weight	Net weight: 220lbs (100kg) Gross weight 286lbs (130kg)

Hardness Value Reference for Various Materials

Material	Hardness
Softwood (e.g., pine)	1.6 HBS 10/100
Hardwood	2.6-7.0 HBS 1.6 10/100
Lead	5.0 HB (pure lead; alloyed lead typically can range from 5.0 HB to values in excess of 22.0 HB)
Pure Aluminum	15 HB
Copper	35 HB
Mild steel	120 HB
18-8 (304) stainless steel annealed	200 HB
Glass	1550 HB
Hardened tool steel	600-900 HB (HBW 10/3000)
Rhenium diboride	4600 HB

NOTE: Based on standard test conditions unless otherwise stated

* Request a [formal quotation](#) or send an e-mail to sales@nextgentest.com for the most up-to-date pricing and applicable discounts and incentives.