



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

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



ULTIMATE USER-FRIENDLINESS



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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.](#)

The test load ranges are from 62.5kgf to 3000kfg. 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.

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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



Watch Video



Watch the BrinGen – 3000 Series – Digital Brinell and Automatic Brinell Hardness Tester – Closed Loop System product video.

[WATCH ON YOUTUBE](#)



Digital Brinell and Automatic Brinell Hardness Tester Technical Specifications

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 6506, ASTM E10, GB/T231
Data Display	LCD touch screen
Power Supply	AC110 V or AC220 ±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 Aluminium	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	

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