Mikrosize®

MBrin-3000G

Digital Display Gate-Type Brinell Hardness Tester

Video

Contact us

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Product Features

1.The fuselage and workbench are processed by precision machining technology, featuring a solid structure, good rigidity, high precision, reliability, and durability.
2.The testing mechanism is equipped with a high-precision spoke-type pressure sensor. The loading device has a built-in precision pressure sensor, ensuring accurate, stable, and reliable test force values. It also has an automatic test force compensation function.
3.The gate-type frame is combined with a large movable workbench, with a maximum movable distance of 1000mm.
4.It can automatically switch between the Brinell indenter and the objective lens.
5.It adopts a self-developed special control system for gate-type electronic Brinell hardness testers, which runs fast. The test force is applied in a full closed-loop manner with a gradient from fast to slow, ensuring smooth and impact-free application of the test force.
6.It uses a contemporary advanced high-speed microprocessor with a fast instant response, ensuring that the test force accuracy remains stable within ±1%.
7.The test force and loading saturation time can be manually adjusted and controlled.
8.The servo motor, high-precision ball screw, and linear guide rail ensure accurate positioning and easy maintenance.
9.The entire test process is automated, eliminating human operation errors.
10.The image processing system can capture the indentation, automatically display the Brinell hardness value, save the test data, and generate and print the hardness test report. It can also automatically convert hardness values, and the test data is automatically saved in the database.
11.The accuracy complies with GB/T231.2, ISO 6506-2, and American ASTM E10.

Application Scope

This hardness tester can be used to measure the hardness of cast iron, non-ferrous metals, various annealed and quenched and tempered steels, as well as most of the steel products supplied from the factory.
It is also suitable for testing softer metals such as pure aluminum, copper, lead, tin, zinc, and their alloys.
Brinell hardness measurement has high accuracy, good reproducibility, and representativeness. It is an indispensable hardness measuring instrument for mechanical metallurgy and metrology departments.

Technical Parameters

Name	Specification
Test Force	750, 1000, 3000 kgf (optional 187.5, 250, 500 kgf)
Test Range	5 - 650 HBW
Hardness Value Resolution	0.1 HBW
Test Height	950 mm (customizable)
Lateral Movement Distance	650 mm
Longitudinal Movement Of Workbench	1000 mm (customizable)
Workbench Size (Length * Width)	1500 * 1000 mm (customizable)
Distance Between Two Columns	Automatic
Indenter - Objective Lens Conversion	2000 * 1500 * 2000 mm (subject to the actual situation)
Overall Dimensions	2000 * 1500 * 2000 mm (subject to the actual situation)
Power Supply Voltage	220V, 50 - 60 Hz

Standard Configuration

Project	Detail	Specification	Quantity	
	Serial Number	Name		
Main Unit	1	Host of Gate-Type Electronic Brinell Hardness Tester		1set
Accessories	2	Ball Indenters	φ10, φ5	1piece each
	3	Cantilever-Type Control Console		1set
	4	Accessory Box		1piece
	5	Hard Alloy Steel Balls	φ10, φ5	1piece each
	6	Power Cord		1piece
	7	Fuses	2A	2piece
	8	Brinell Hardness Block (150 - 250) HBW3000/10		1piece
	9	Brinell Hardness Block (150 - 250) HBW750/5		1piece
	10	Brinell Measurement Software		1set
	11	Product Certificate of Conformity		1cpoy
Documentation	12	Product Instruction Manual		1cpoy