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# PORTAL BRIDGE GANTRY TYPE BRINELL HARDNESS TESTER



## STANDARDS

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ASTM E18

ISO 6508

## APPLICATIONS

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### **Portal Bridge Gantry Type Brinell Hardness Tester - EP-3000**

Portal Bridge Gantry Type Brinell Hardness Tester - EP-3000 is a fully automated Brinell hardness tester featuring integrated Brinell milling surface preparation, indentation, and measurement—all housed within a smart rotating turret. A robotic system controls the turret, allowing movement in multiple directions (XYZR) across various frame sizes.

The fixed, stable table (6,000 mm long) accommodates samples of any weight or size without restrictions. A bridge structure moves along the XYR axis to access multiple test points with exceptional precision. The software controls turret movements, enabling automated sequences for milling, indentation, and measurement.



**Test loads:** From 10 kgf to 3000 kgf (98.07 to 29421 N).

**BRINELL HBWT ISO 6506 / ASTM E-10:** HBW 1/10 - HBW 1/30 - HBW 2.5/15.625 - HBW 2.5/31.25 - HBW 2.5/62.5 - 2.5/187.5 - 5/25 - 5/62,5 - 5/125 - 5/250 - 5/750 - 10/100 - 10/250 - 10/500 - 10/1000 - 10/1500 - 10/3000

**Rockwell and superficial Rockwell ASTM E-18 / ISO 6508 :** HRA - HRB - HRC - HRD - HRF - HRG - HRL - HRM - HRR / HRN - HRT



## Open space samples everywhere

Our design team develops tailored solutions for any application, utilizing the latest technologies for maximum efficiency.

- Length: 16 meters or more
- Height: 5 meters or more
- Width: 4 meters or more
- Laser pointer for precise test point alignment
- Testing load accuracy of 0.05% with Closed Loop system
- Clamping system to secure samples before testing
- Adjustable-depth milling tool with variable RPM for surface preparation
- Brinell measurement with camera and autofocus
- Data acquisition and automated hardness calculation
- On-screen display of results
- Image and result archiving with statistical analysis



The entire test cycle is completed in under one minute, with milling, indenting, and reading controlled by a single input. Surface preparation is fully programmable, allowing adjustments to milling depth (up to 5 mm) and RPM based on the material being tested.

Our portals feature motorized axes for precise movement of the stand, crossbar, and head. The advanced mechanical design of the measuring head enables the EP-3000 to test small parts and surfaces near edges with ease.

### **Press start and get the result**



**MILLING**



**INDENTING**



**REA**

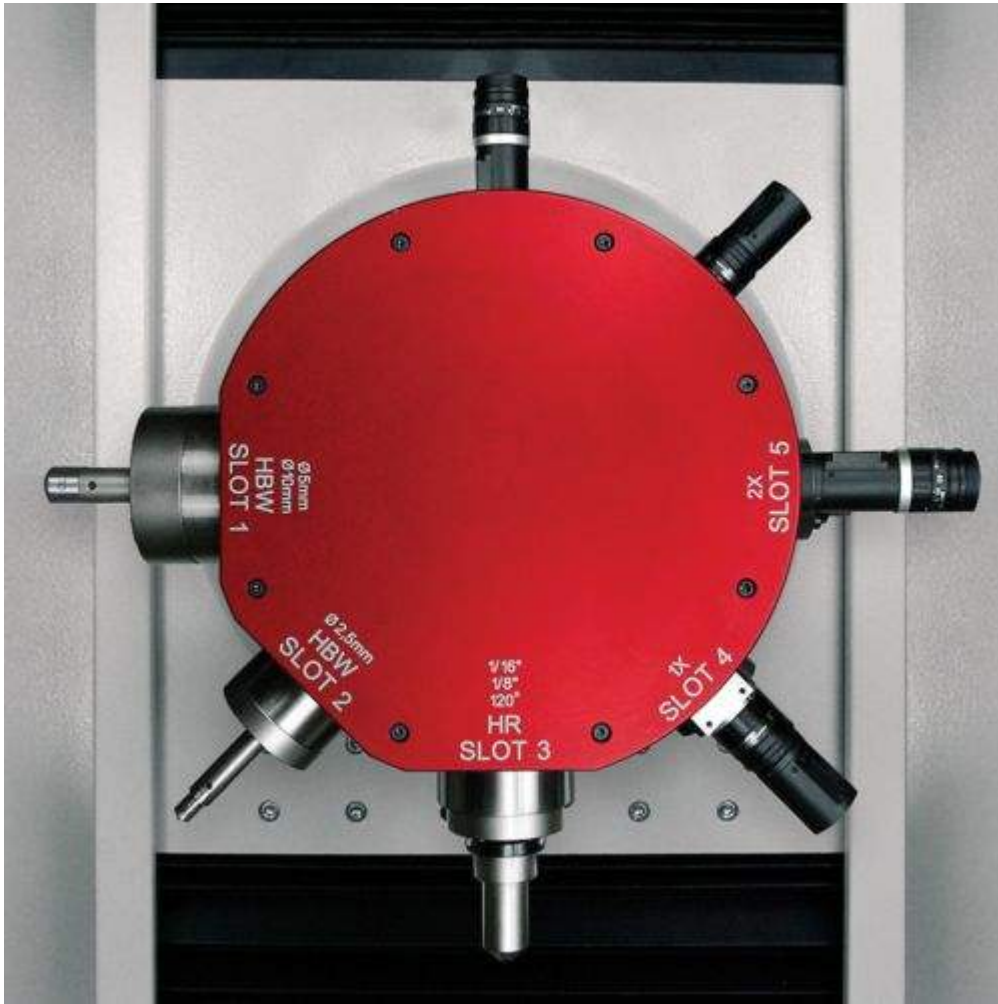
**Save time, money and increase Accuracy!**

- Complete test cycle in just 45 seconds, including surface preparation
- 100% production testing with maximum Brinell accuracy
- Fully automated quality inspection process
- Free up personnel for other tasks
- Consistent surface roughness with no risk of damage or heat effects
- Full return on investment within one year

## **FEATURES**

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# **Portal Bridge Gantry Type Brinell Hardness Tester - EP-3000 Features**



### MOTORIZED TURRET

The system supports up to 8 slots (or more) for different hardness scale indenters, optical lenses, a laser, and a milling surface preparation tool. With fully automated tool switching and turret rotation, it ensures a seamless and efficient measurement cycle. Designed for both single and multi-hardness testing, this all-in-one solution delivers precision and versatility in every application.

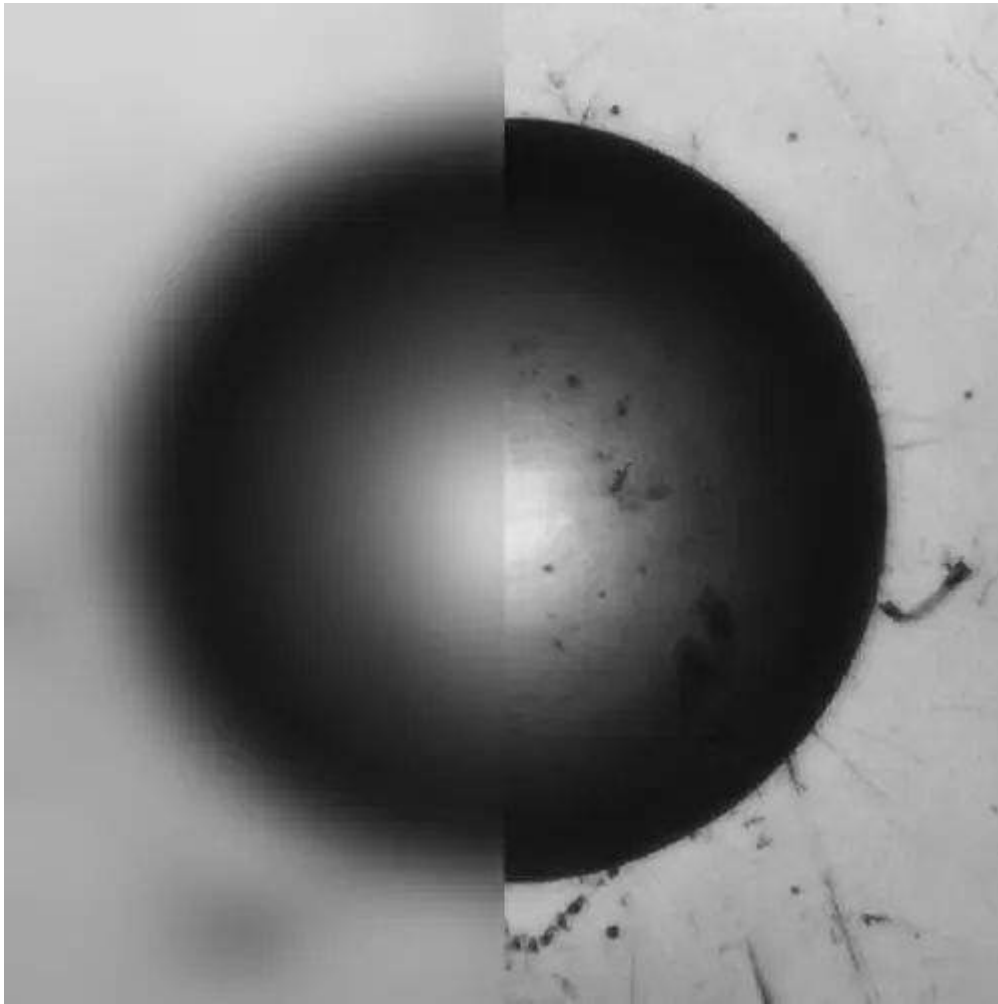


### CLAMPING SYSTEM

The system ensures continuous and secure contact with the specimen, even if movement occurs during the operation cycle. The clamping system provides complete stability for any test piece, regardless of surface conditions, including oil, rust, or dirt, guaranteeing accurate and reliable results.

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### **AUTOFOCUS**

The system features automatic focus adjustment for each optic, ensuring precise positioning at any magnification through real-image scanning brightness. With continuous step adjustments for infinite accuracy, it maintains high reading standards, delivers reproducible focus values, and significantly reduces reading time. This eliminates subjectivity, ensuring consistent and reliable hardness measurements.



### **CAMERA AUTO-READING**

The software automatically measures indents on any surface, from perfectly polished to rough and etched samples. It features automatic light regulation, adjusting brightness and contrast for dark, opaque, or polished surfaces. This ensures optimal visibility and precise indent measurement without manual adjustments.

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### EASY COMMANDS

The system features an easy-to-use joystick, button controls, and a touchscreen interface. A high-capacity hard disk and PC ensure seamless performance, with remote access for assistance from anywhere. Equipped with USB and Ethernet outputs, it connects to database networks, PCs, and printers for data transfer and custom report generation.



### DATA IMPORT / EXPORT

The universal hardness tester allows data entry via barcode scanning, enabling test cycles or sample drawings to be loaded directly from a central system. All information is processed automatically, ensuring a seamless workflow. After the test is completed, the barcode data is updated with results and instantly sent back to the order management system.

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