

Gate Type Brinell Hardness Tester

Model: JG-115B



(For reference only)

Equipment Usage

It can be used for determination of Brinell hardness of black metal, non-ferrous metal and bearing alloys. It is suitable for the precision measurement of flat plane, and the surface measurement is stable and reliable.

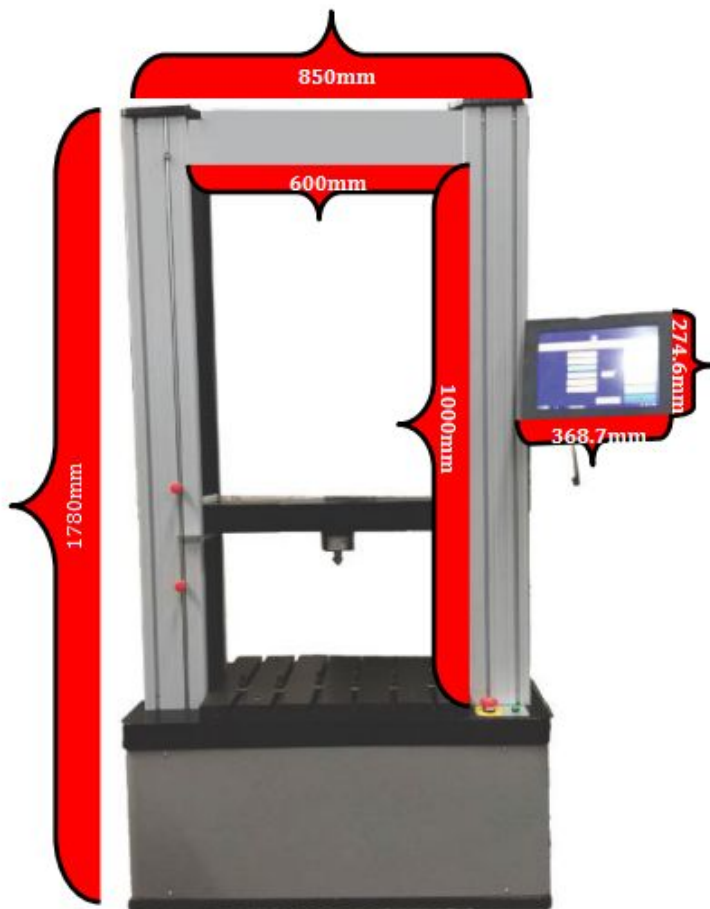
Features

- Gate-type structure, which can control precisely the rising, falling as well as the loading and unloading process of the crossbeam;
- Spindle parts and load cell are equipped on the cross beam;



- It adopts ball screw drive and can realize no clearance transmission, ensuring the precision control of the test force and deformation speed. Closed-loop loadcell technology to ensure accurate and safe load applications;
- Test forces from 62.5kgf to 3000kgf
- New and concise structure, with load cell equipped on top of indenters and large work platform at the bottom; which is convenient to test large work pieces. Put the work piece on the platform and press "START", the crossbeam can move to the work piece automatically, load, dwell and unload and then measure.
- Gate-type structure is more reasonable than the traditional bow-type structure;
- The machine adopts high-tech servo motor, which is very durable and has low failure rate.
- The machine is made of aluminium alloy
- Conformity: ASTM

Product Details



Dimension

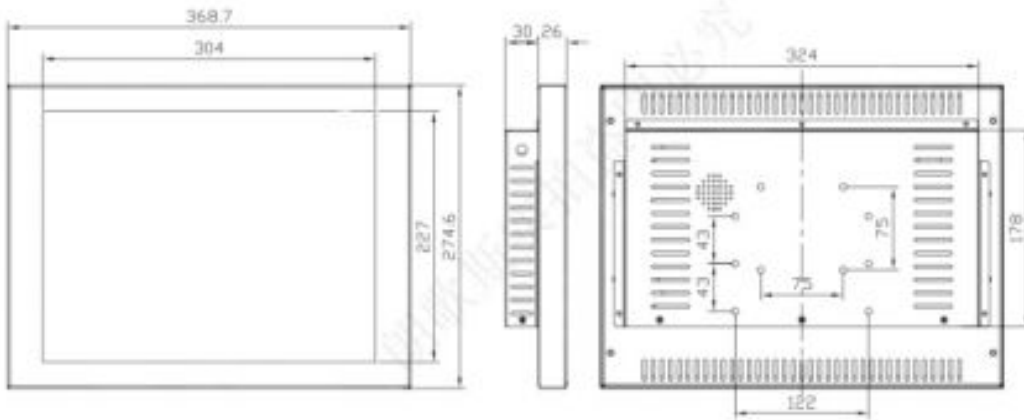
- Total Height: 1780mm
- Total Width: 850mm
- Effective test height: 1000mm
- Width between two column: 600mm
- Weight (approx...): 400kg

Description of the computer

- Industrial Precise resistance type high sensitive touch screen
- Metal appearance design
- Anti-rust
- Anti high and low temperature
- HD quality LCD screen



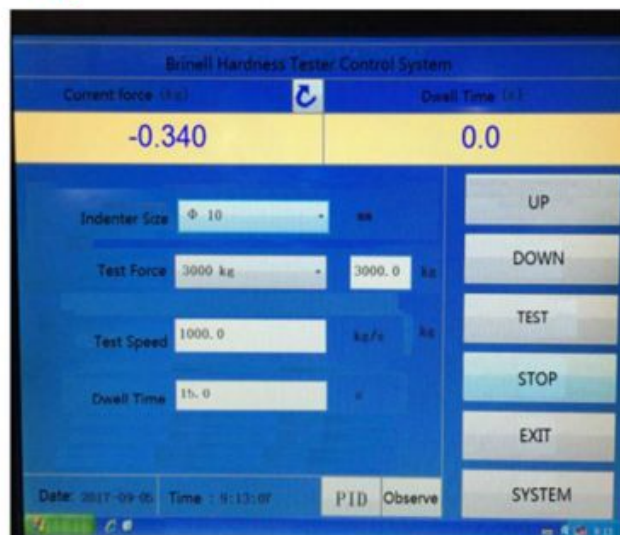
Computer Dimension



Computer and Software Interface



Computer interface:



- Software can run under Windows 7 system.
- Computer and software can control the up and down of the crossbeam, control the loading, dwell and unloading of the test forces;
- Test forces can show on the interface real time.
- Test force, test speed and dwell time can be adjustment and shown on the interface.
- Other parameters, and programme recalling, password protection can be customized per requirement.

Main Structure

- Loading system: Adopts closed-loop loadcell technology; no load impact difference. The monitoring frequency is 100HZ, and the internal control accuracy can reach 0.5%. Loading system and load sensor connect directly, without any intermediate structure; load sensor can directly measure and adjust indenter load. System adopts coaxial load technology and no leverage structure, thus it is not influenced by any friction and other traditional screw lifting system, so there is no need to consider the aging and error caused by any screw system.
- Safety protection device: Adopts limit switches to ensure the machine operating safely. All parts are equipped with ladle cover except those which are necessarily exposed outside.
- Industrial controlled computer. LCD display screen; with ergonomic design, beautiful and practical.
- Indentation measuring adopts the readout microscope or Brinell automatic measuring system.

Measuring Process

- Put the work piece on the test area, start the testing procedure; the crossbeam moves down automatically via the screw ball and guide pillar driven by motor. The system enters loading, dwell and unloading process.



Technical Specifications

Model	JG-115B
Measuring range	4-650HBW
Test force	62.5, 187.5, 250, 500, 750, 1000, 1500, 3000kgf
Max. height of work piece	1000mm
Motor type	Servo motor
Transmission type	Screw ball
Loading time	1 ~ 99s

Main Accessories

Description of Goods	Quantity
Main machine	1 unit
Indenter	2.5, 5, 10mm (1 Pc each)
20x readout microscope	1 Pc
Brinell standardized block	2 Pcs
Industrial control computer	1 Set
Accessories box	1 Set

Note: Dimension, test force; measuring system (readout microscope or automatic measuring system; power supply can be customized per customer requirements.

Installation complete at customer's site.



