

HST-HB3000AZF-6Z Automatic turret vision Brinell hardness tester



Product instruction

Brinell hardness test is mainly used for hardness measurement of cast iron, steel, non-ferrous metals and soft alloys, etc. In addition, it can also be used for hardness measurement of some non-metallic materials such as hard plastics and bakelite. Suitable for factories, workshops, laboratories, universities and research institutions.

- The instrument has 12 levels of test force and 16 test scales for Brinell hardness, which can be selected arbitrarily;
- With 4 sets of ball indenters, all of them can automatically participate in the test;
- Have two sets of objective lenses, and both can participate in the measurement of the indentation diameter;
- According to the selected scale, the objective lens and the indenter are automatically switched;
- Preset the test force holding time, adjust the strength of the indentation light source;
- Real-time display of loading time;

- Display the measured indentation length, hardness value, measurement times, etc.;
- Select the conversion value between the hardness scales;
- Its can be printed out.

Automatic Brinell hardness tester, unique automatic turret structure system, user-defined measurement target matching cemented carbide indenter, test force, holding time and then start the test, after the measurement is completed, no need to move the workpiece, automatic conversion , CMOS directly captures the indentation image, and uses the world's advanced digital imaging technology to automatically find the most suitable pixels for the indentation characteristics on the indentation image, high-speed analysis, and automatic reading. Automatic measurement of standard block indentation, shadow indentation, background blur indentation, and elliptical indentation.

Main Specifications

Name	Specification
Test force	29.42N(30kg) 306.45N (31.25kg) 612.9N (62.5kg) 、 980.7N (100kg) 、 1226N (125kg) 、 1839N (187.5kg) 、 2452N (250kg) 、 4903N (500kg) 、 7355N (750kg) 、 9807N (1000kg) 、 14710N (1500kg) 、 29420N (3000kg)
Convertible ruler	HB 10/3000、HB 10/1500、HB 10/1000、HB 5/750、HB 10/500、HBW 10/250、HB5/250、HB 2.5/187.5、 HB 10/125、HB5/125、HB10/100、HB 5/62.5、 HB2.5/62.5、HB5/31.25 、HB2.5/31.25、HB1/30
Measuring range	8~650HBW
Loading method	Automatic lifting, loading, loading, unloading, automatic measurement of the worktable
Max. allowable height of the test piece	280mm
The distance from the center of the indenter to the machine wall	200mm
Main test force loading time	5~8S

Dwell time	0-99S
Indenter Objective Conversion	Automatic
Dimensions	230*600*920mm
Weight	130Kg
Objective lens	1X、2X
Optical path conversion	Automatic
Indenter diameter (mm)	Φ1、Φ2.5、Φ5、Φ10 mounted on the same turret
Operating mode	One-button operation, the table automatically lifts, loads, holds, unloads, and measures CMOS
Indentation image measurement method	automatic measurement
Indentation image repeat measurement accuracy	Repeatability up to ±0.8%
Data display	12.1 inch industrial grade touch screen
Data output	Output report in WORD and EXCEL form, can be printed out; graphics engine shows more functions
Statistics	Hardness conversion: According to national standards, Brinell-Rockwell-Vickers-Knoop and other hardness value conversions are automatically performed and displayed in real time.
light source	LED
function adjustment	Stepless adjustment of the intensity of the light source
Communication Interface	USB、RJ45LAN、WLAN、RS232
Dimensions(L×W×H)	1000×595×350mm
Voltage	AC 220V/110V±5%, 50~60 Hz

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