

THBS-3000-XP-AZF Automatic Brinell Hardness Tester

Specification V1.01

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Advanced Lab Instruments

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THBS-3000-XP-AZF Automatic Brinell Hardness Tester

Description:

THBS-3000XP-AZF is an smart automatic Brinell hardness tester. When customers setup all testing parameters, you only need single press testing button, the machine will automatic complete: raise testing sample, automatic loading testing force, automatic unloading test sample, lower down test sample, automatic rotating sample stage, automatic focus optical testing system, automatic measure the trace and get sample hardness testing data.

Feature:

1. Large sample space design – can process large sample hardness testing;
2. Dual path optical testing design, build-in CCD camera. The system can connect both eye micrometer and CCD camera for manual testing automatic testing;
3. Electrical drive samples loading system, high accuracy sensor system, unique automatic loop back control, and each scale testing force automatic calibration compensation ;
4. Professional optical testing design: guaranty to get clear board Brinell press images;
5. Smart and powerful software testing function: single piece sample testing function, lots samples testing function, hardness exchange form, datas and images saving and store function, data base function, failure data alarm function;
6. Loading standard sample testing software, the system can performance automatic testing;
7. The system can performance hardness with setup standard length calibration;
8. The testing force can be calibrated with standard force loading;

Specification:

Model #	THBS-3000XP-AZF
Hardness Machine Main Body Specification	
Brinell Hardness Scale	HBW2.5/62.5 HBW2.5/187.5 HBW5/62.5 HBW5/125 HBW5/250 HBW5/750 HBW10/100 HBW10/250 HBW10/500 HBW10/1000 HBW10/1500 H BW10/3000
Testing Force (Kgf)	62.5kgf(612.9N) 100kgf(980.7N) 125kgf(1226N) 187.5kgf(1839N) 250kgf(2452N) 500kgf(4903N) 750kgf(7355N) 1000kgf(9807N) 1500kgf(14710N) 3000kgf(29420N)
Testing Standard	BSEN 6506, ISO 6506, ASTM E10, GB/T231
Testing Force Accuracy	62.5~250kgf≤1% 500~3000kgf≤0.5%
Testing Resolution	0.5%
Testing Accuracy	±0.5%
Force Loading Time	1~99S
Data Output	LCD 显示
Data Format	Testing data will be saved in EXCEL format in USB driver
Maximum Sample High	350mm
Force Head to Machine Inside Wall Distance	250mm
Dimension	700×340×970mm
Net Weight	160kg
Power	AC220+5%,50~60Hz
Software Specification	
Brinell Hardness Scale	HBW2.5/62.5 HBW2.5/187.5 HBW5/62.5 HBW5/125 HBW5/250 HBW5/750 HBW10/100 HBW10/250 HBW10/500 HBW10/1000 HBW10/1500 H BW10/3000
Testing Standard	BSEN 6506, ISO 6506, ASTM E10, GB/T231
Measurement Range	15.9-650HBW (ASTM E10 推荐的有效硬度值)
Measurement Resolution	0.5%
Measurement Accuracy	±0.5%
Digital Camera	130 万工业级数字摄像头
Testing Method	Manual、Automatic (design for standard sample)
Calibration Mathode	Standard Hardness Block/Length Standard Rule
Support Language	English/Chinese (Selectable)

Operation Interface:

Main Operation Interface Page

测试员

样品名称

合格范围 至

直径和力 保载时间

转动塔台

亮度

D1 D2

HBW

转换

12 scale selectable Brinness Scale

测量标尺

<input type="button" value="2.5/62.5"/>	<input type="button" value="2.5/187.5"/>	<input type="button" value="5/62.5"/>
<input type="button" value="5/125"/>	<input type="button" value="5/250"/>	<input type="button" value="5/750"/>
<input type="button" value="10/100"/>	<input type="button" value="10/250"/>	<input type="button" value="10/500"/>
<input type="button" value="10/1000"/>	<input type="button" value="10/1500"/>	<input type="button" value="10/3000"/>

请选择你需要测量的标尺

Hardness Calibration

标定

放大倍数:

力值:

脉冲数: X Y

硬度值

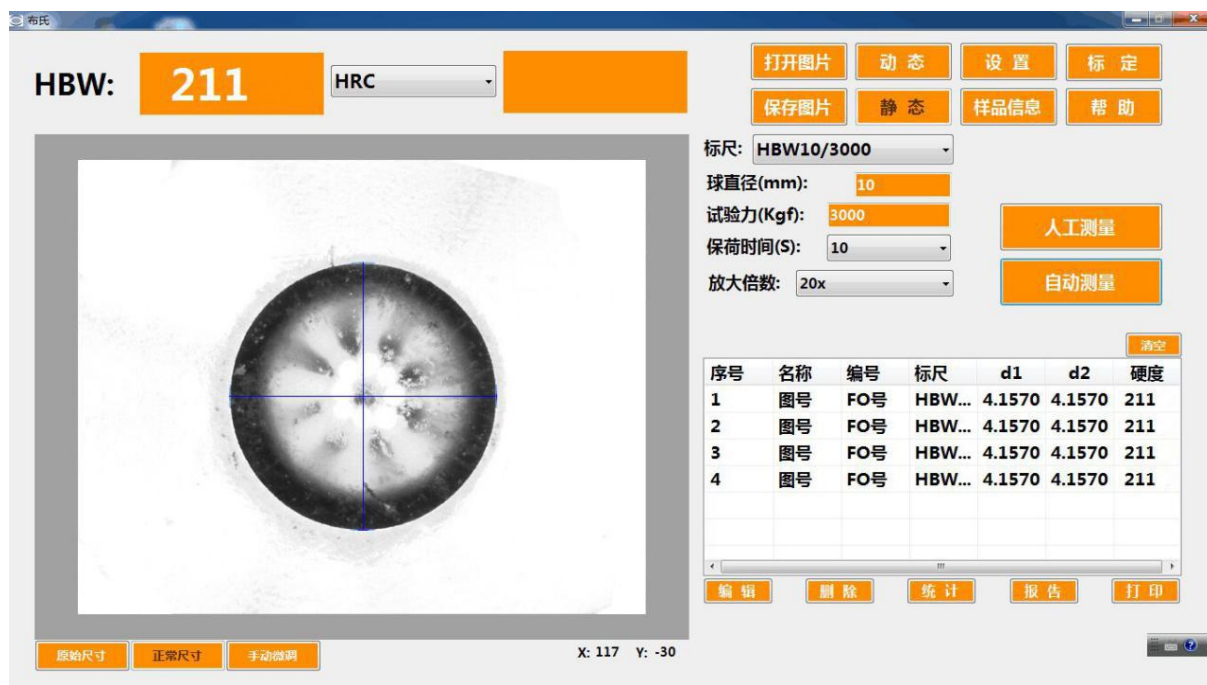
Force Calibration

力值标定

标准值: kg

实测值: kg

Software Interface:



Accessories:

Items	Qty	Description	Qty
Digital Micrometer Testing Eye Piece	1 pc	Large/Middle V Testing stage	1 each
Hard Alley Ball Head (Dia. 2.5、5、10mm)	3 units	Standard Hardness Block (HBW10/3000, HBW10/1000, HBW2.5/187.5)	3 pcs
Touch Screen Computer (Desktop Computer Selectabl)	1 unit	CCD Camera	1 unit
Data Cable	1	Touch Screen Pen	1
USB Driver	1	Terminator Dongle	1
Power Cable	1	2A Fuse	2
Quality Assurance Card	1	User Manual	1

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Product specifications and descriptions in this documentation subject to change without notice.

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