

Mikrosize®

iBrin-3000SA

**Image Processing Semi-auto Brinell
Hardness Tester**



Video



Contact us

Mikrosize Precision Instrument Co.,Ltd

A-4035 RuiFeng Business Expo, Wuhu City, China , 241000.

Web: www.mikrosize.com

Email: mikrosize@mikrosize.com



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Email: Mikrosize@Mikrosize.com

Features and Applications

Product Features

- Closed loop loading, ready to use upon startup
- 10-inch touch screen, easy to use and operate
- CMOS directly captures indentation images
- 10-level test force with 15 brinell hardness test scales for flexible selection
- Automatic turret simultaneously installs indenter and objective lens, both automatically engaged in testing
- Automatically switches objective lens and indenter based on selected scale
- Pre-sets test force holding time and adjusts indentation measurement light intensity
- Real-time display of loading time
- Displays indentation length, hardness value, measurement count, etc
- Test results convertible between common hardness scales
- Hardness test results printable
- Multiple communication interfaces: USB, RS232, wlan, RJ45LAN



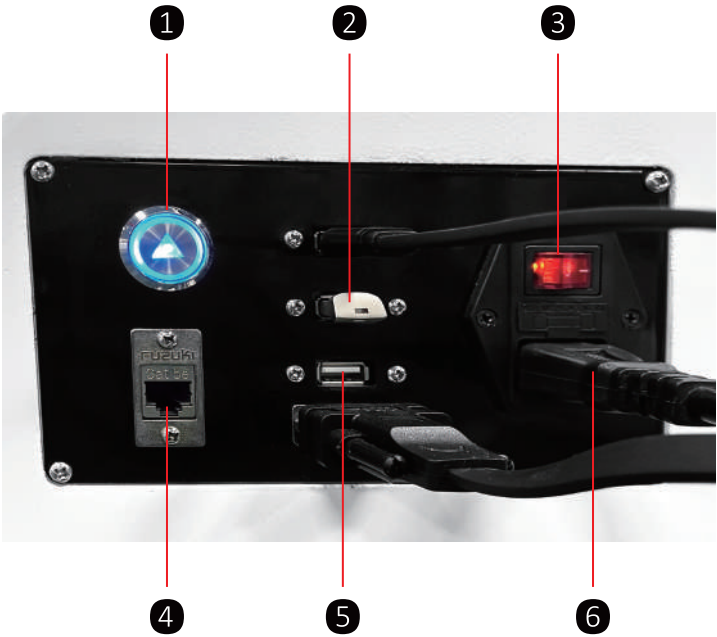
Product Application

- Detects Raw Material Hardness During Machining To Select Suitable Processes And Tools
- Inspects Hardness Of Mechanical Parts (Gears, Bearings, Bolts, Etc.) To Ensure Compliance With Design And Performance Requirements

Product Details



1. Display Screen 2. Indenter 3. Test Table 4. Lifting Column 5. Handwheel
6. Interfaces And Switches



1. Start Button 2. Security Dongle Interface 3. Power Switch 4. Power Cord Interface
5. USB Interface 6. RJ45LAN Interface

Product Details

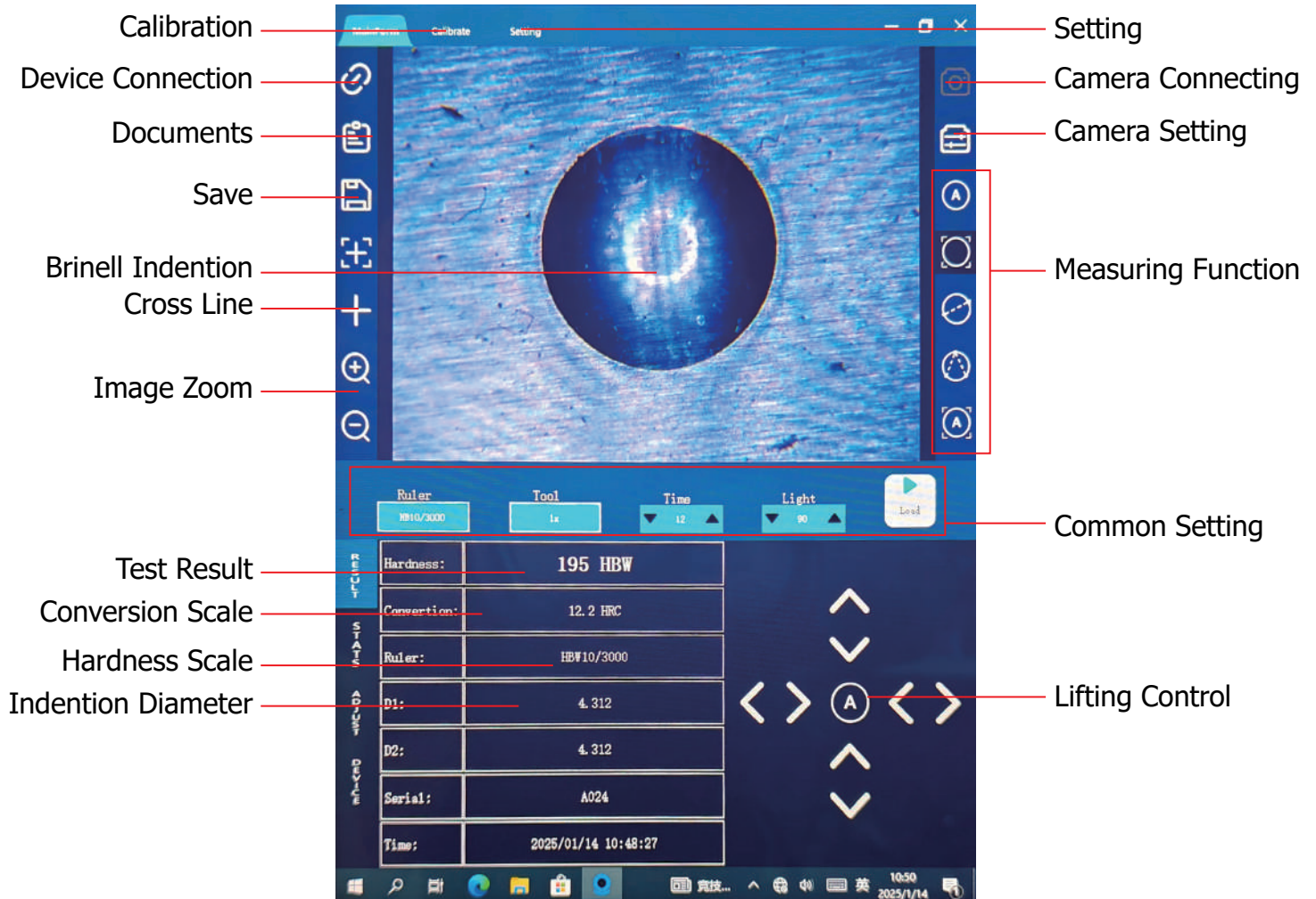


Automatic Turret Has 2 Stations For Simultaneous Installation Of Indenter And Objective Lens. Turret Automatically Switches To Lens After Testing For Indentation Observation.



Multiple Communication Interfaces: RS232, USB, RJ45LAN.

Product Functions



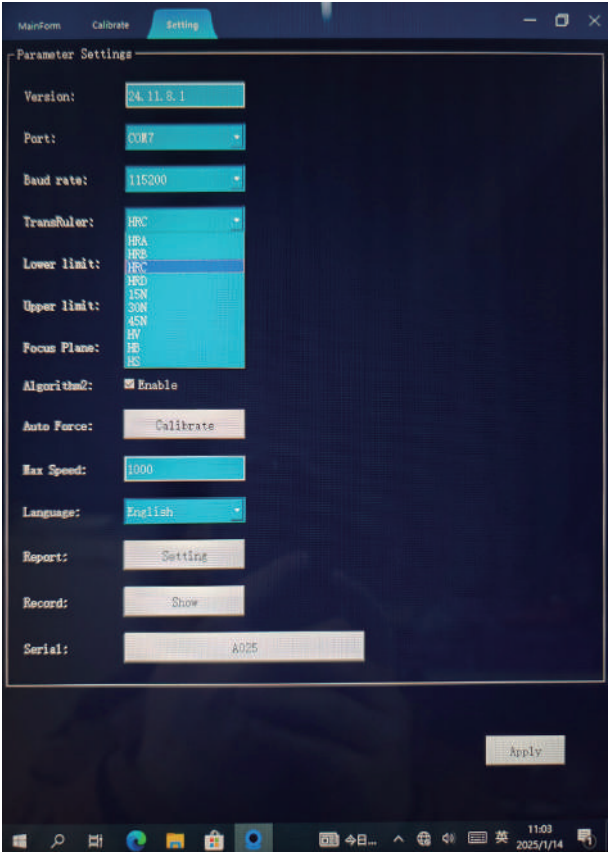
Operation Interface



Scale Selection

Three Indenter Sizes With Different Test Forces Offer 15 Test Scales

HBW2.5/31.25、HBW2.5/62.5、HBW2.5/187.5、HBW5/31.25、HBW5/62.5、HBW5/125、HBW5/250、HBW5/750、HBW10/100、HBW10/125、HBW10/250、HBW10/500、HBW10/1000、HBW10/1500、HBW10/3000

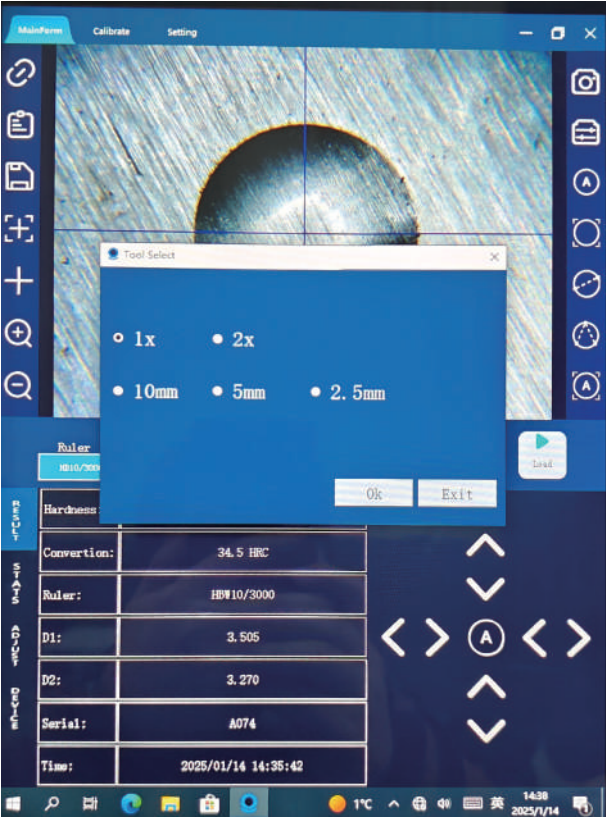


Scale Selection

Convertible To Common Rockwell And Vickers Scales

HRA、HRB、HRC、HRD、HS、HV、HK、HBW、HR15N、HR30N、HR45N

Operation Interface



Turret Selection

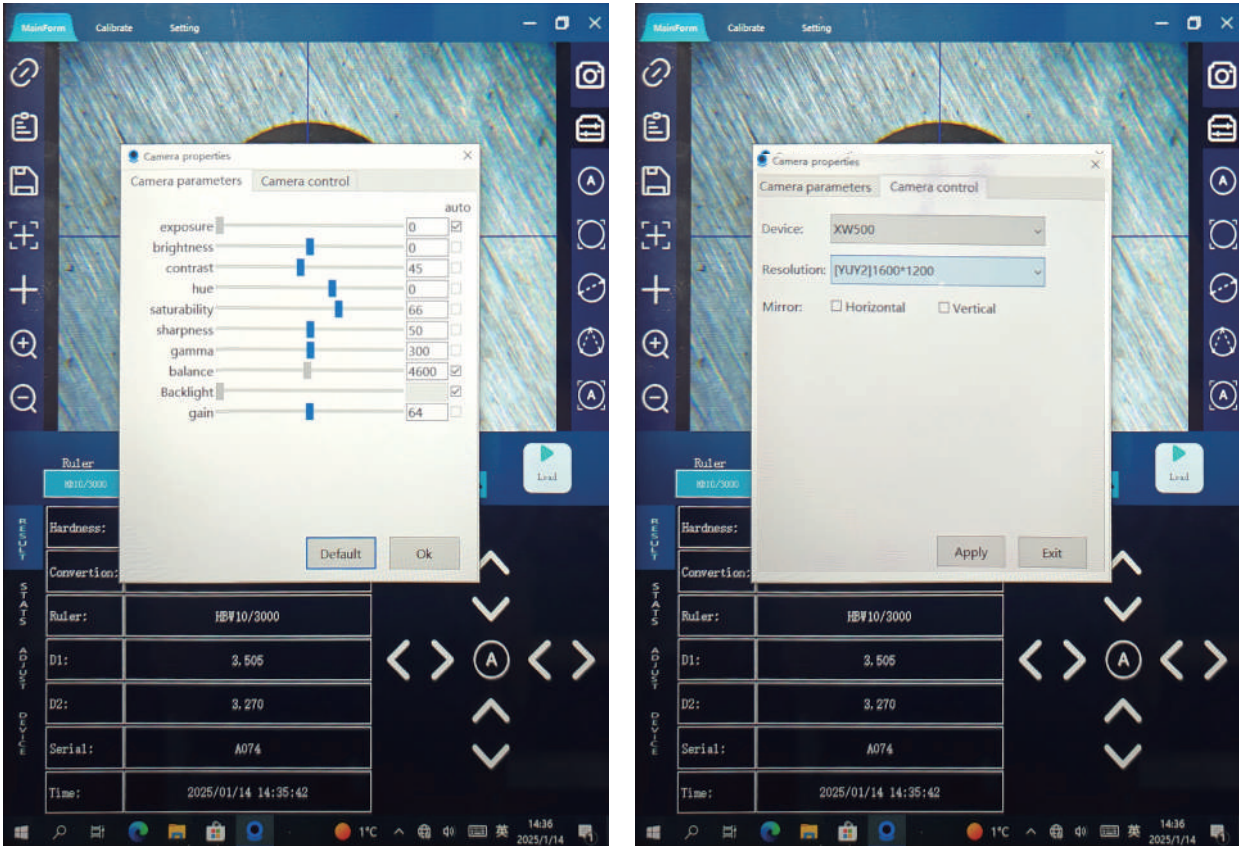
Indenter And Objective Lens Are Pre-Installed. Turret Automatically Rotates To Selected Position When Clicking Corresponding Indenter/Lens Icon.



Lifting Column Control

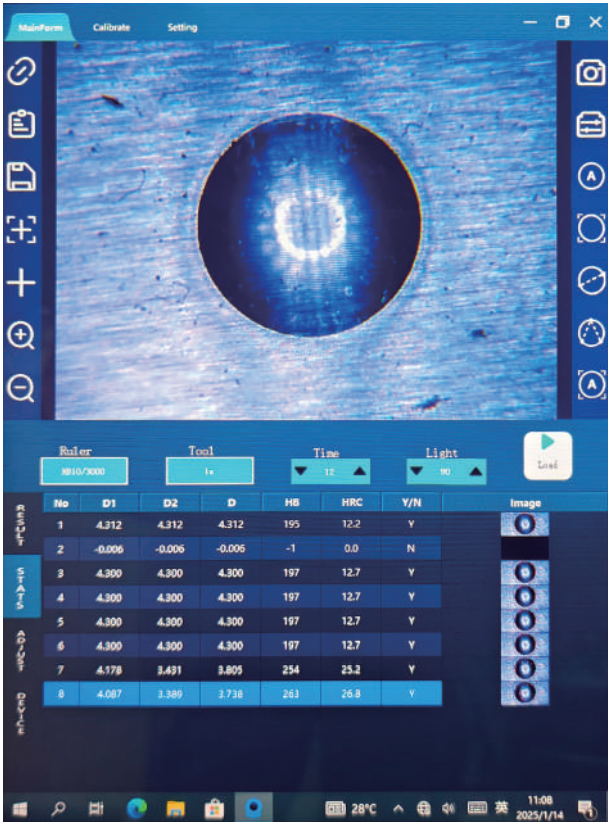
Controls Lifting/Stopping With Adjustable Speed

Operation Interface



Camera Settings

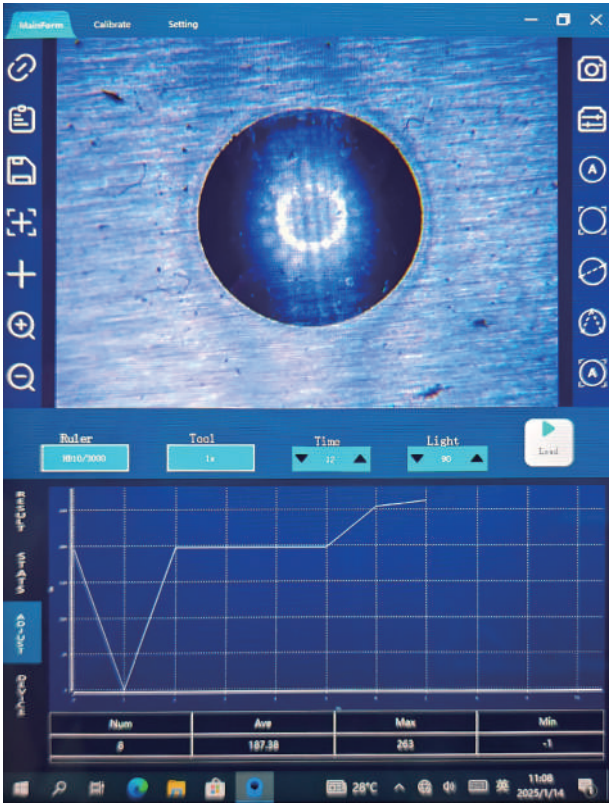
Users Can Adjust Gain, Exposure, Etc. To Optimize Image Quality



Data Statistics

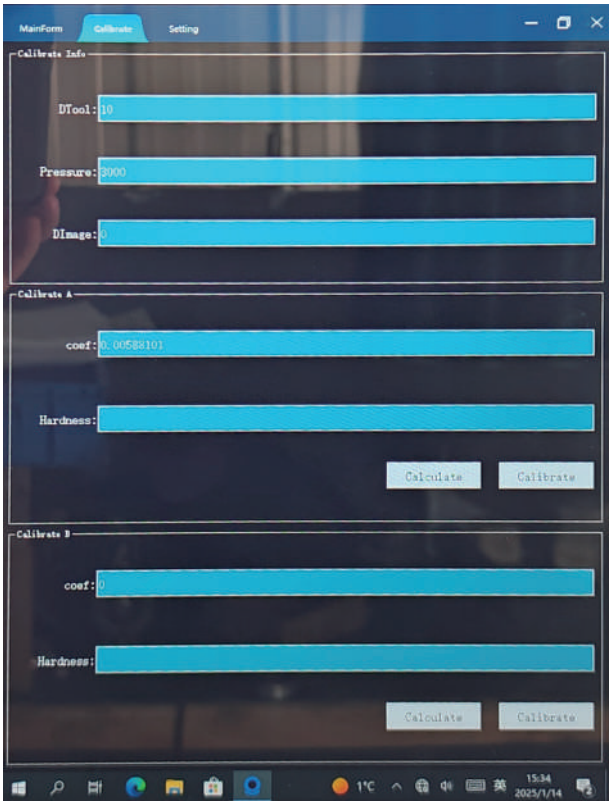
Records Test Data Including Indentation Size, Hardness Value, Converted Hardness Value, And Indentation Images

Operation Interface



Graphs

Generates Data Graphs For Intuitive Result Visualization



Calibration

Calibrate Using Standard Hardness Blocks. Must Calibrate The Currently Used Objective Lens; Otherwise Invalid

Operation Interface



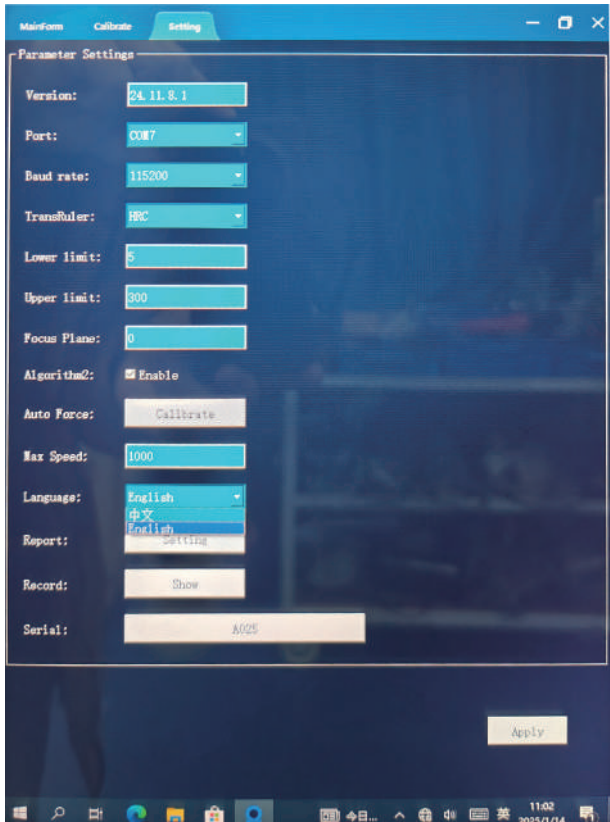
Settings

- Device Serial Port Selection
- Conversion Scale Selection
- Upper/Lower Limit Setting
- Lifting Column Speed Setting
- Display Language Selection



Report Settings

Customize Report Content (May Include Indentation Images And Data Graphs)



Language Selection

Supports Chinese/English. Other Languages Customizable.

Technical Specification

Name	Image Processing Semi-auto Brinell Hardness Tester	
Model	iBrin-3000SA2	iBrin-3000SA3
Turret Position	1 Indenter + 1 Lens	1 Indenter + 2 Lenses
Measurement Range	8~650HBW	
Test Force	62.5kgf、100kgf、125kgf、187.5kgf、250kgf、500kgf、750kgf、1000kgf、1500kgf、3000kgf	
	612.9N、980.7N、1226N、1839N、2452N、4903N、7355N、8907N、14710N、29420N	
Test Scales	HBW2.5/31.25、HBW2.5/62.5、HBW2.5/187.5、HBW5/31.25、HBW5/62.5、HBW5/125、HBW5/250、HBW5/750、HBW10/100、HBW10/125、HBW10/250、HBW10/500、HBW10/1000、HBW10/1500、HBW10/3000	
Conversion Scales	HRA、HRB、HRC、HRD、HRF、HV、HK、HBW、HR15N、HR30N、HR45N、HR15T、HR30T、HR45T	
Indenter Specifications	Φ2.5mm、Φ5mm、Φ10mm	
Camera Lens	20X	
Objective Lens	1X	1X、2X
Test Height	280mm	
Test Throat	150mm	
Dwell Time Range	0~99s	
Hardness Readout	Digital touchscreen LCD	
Indenter/Lens Switching	Automatic	
Communication Interfaces	USB、RJ45LAN、WLAN、RS232	
Power Supply	AC220V, 50Hz	
Dimensions (mm)	230*600*920mm	
Net Weight	130kg	

Standard Delivery

Name	Qty	Photo
Machine Mainframe	1	
230mm Test Anvil	1	
78mm Test Anvil	1	
60×90mm V-block Test Anvil	1	
Φ2.5mm Brinell Indenter	1	
Φ5mm Brinell Indenter	1	
Φ10mm Brinell Indenter	1	
Φ2.5/5/10mm Tungsten Carbide Balls	each 1	
(150~250) HBW10/3000 Hardness Block (150~250) HBW10/3000	1	
(80~110) HBW10/1000 Hardness Block (80~110) HBW10/1000	1	
Objective Lens	1	
2X Objective Lens	1	
Software USB	2	
Security Dongle	1	
Dust Cover	1	
Hex Key	1	
Power Cord	1	
Fuse	1	
Product Certificate	1	
User Manual	1	



Optional Delivery

Optional Accessories

Tungsten carbide balls

Various work tables

Hardness test blocks

Internal machine parts

Various indenters