

Mikrosize®

uRocky-45

Digital Superficial Rockwell Hardness Tester



Video



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Product Feature&Application

Product Features

- uRocky-45CL Close loop system, high accuracy load cell instead of dead weights.
- 8" inch touch screen interface for user directly select the hardness scale and test force and displays hardness value, conversion scale, test force, dwell time, etc.
- Automatic correction of high, medium and low hardness numbers.
- Automatically apply the initial test force and the main test force.
- Automatic testing process: Automatic loading - Dwell - Unloading, and automatic display hardness value.
- Curve display: test force, displacement depth change curve, real-time test force value curve.
- Powerful data processing function, including: HR, HB, HV and other hardness scale conversion.
- Qualified range can be set, automatic alarm over the limit, tester's name, sample name and other information can be input.
- With USB interface, test data can be saved in U-flash directly in Excel format. easy to edit and process.
- Indenter protective device for optional purchase (testing sample size should over 15mm)



**uRocky-45WL
(Weights Loading)**



**uRocky-45CL
(Closed Loop)**

Product Application

Industrial production, Inspection of product quality on processing technology. Ferrous and nonferrous metals, Hardened steel, tempered steel, annealed steel, hardened steel, sheet of various thicknesses, carbide materials, powder metallurgy materials, hardness and thermal spray coating.

Operation Interface

Tester

Product Name

Radius of Curvature

Range

To

Hardness Type

Conversion Type

Conversion Value

Dwell Time(S)

Hardness Value

Calibration

Start

Data

Measurement Scale

HR15N/D

HR30N/D

HR45N/D

HR15T/1.588

HR30T/1.588

HR45T/1.588

HR15W/3.175

HR30W/3.175

HR45W/3.175

HR15X/6.35

HR30X/6.35

HR45X/6.35

HR15Y/12.7

HR30Y/12.7

HR45Y/12.7

Please choose the right indenter for the scale you choosed.

Explanation

HRA/60/D

HR15N/D

Return

Scale/Force/Indenter

Scale/Force/Indenter

Calibration

Scale:

Standard Hardness Value : Measured:

Low

Medium

High

Save

Calibration

Language

Return

Force Calibration

Standard:

kg

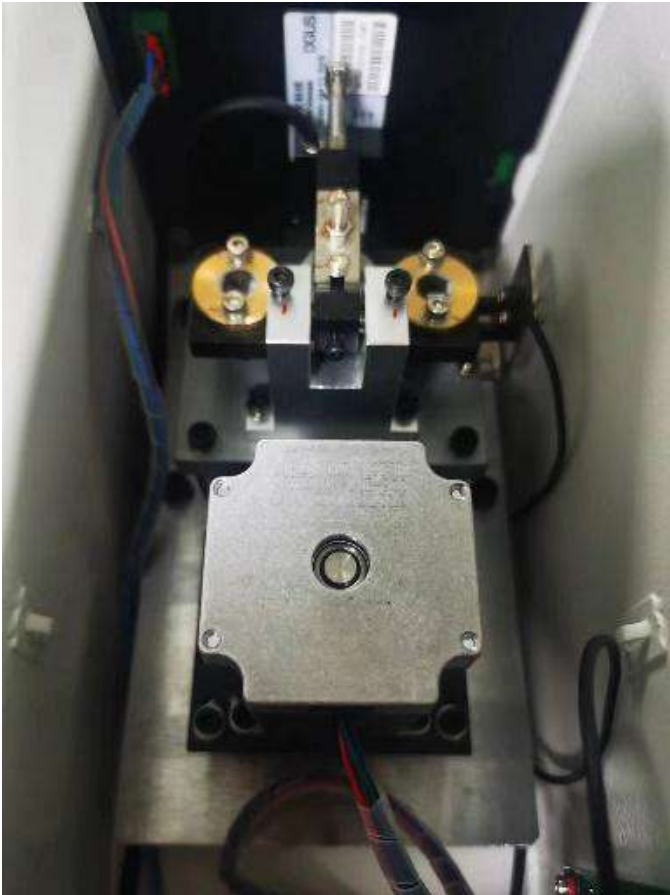
Measured:

kg

Enter

Return

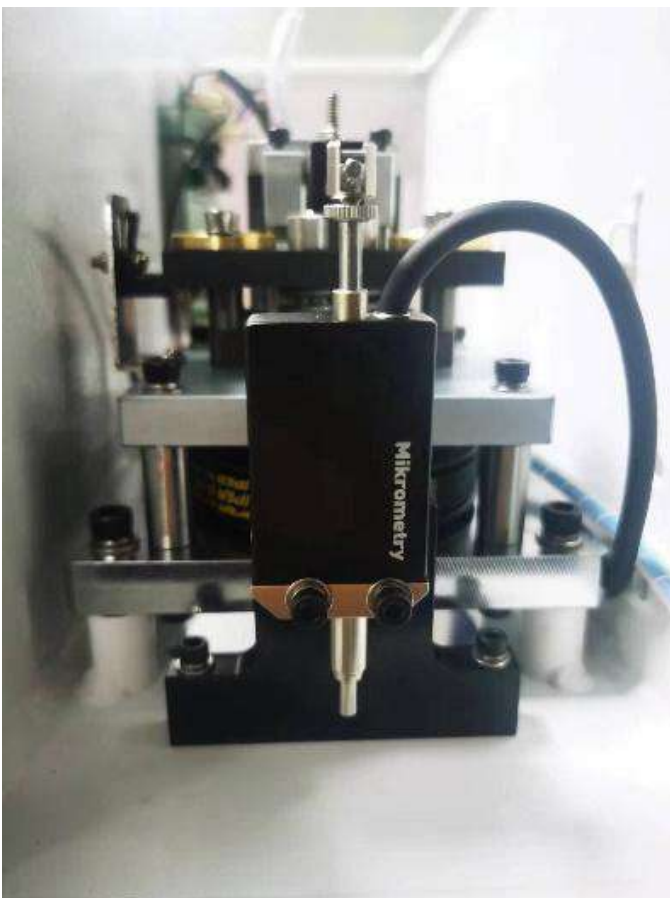
uRocky-150CL is with Closed loop control system, high precision load cell structure. Automatically apply the initial test force and the main test force. Automatic testing process: Automatic loading - Dwell - Unloading.



Electronic Motorized Loading



Load Cell



Displacement Sensor



Displacement Sensor

Data Output & Indenter Protective

With USB interface, test data can be saved in U-flash directly in Excel format. easy to edit and process. Indenter protective device for optional purchase.



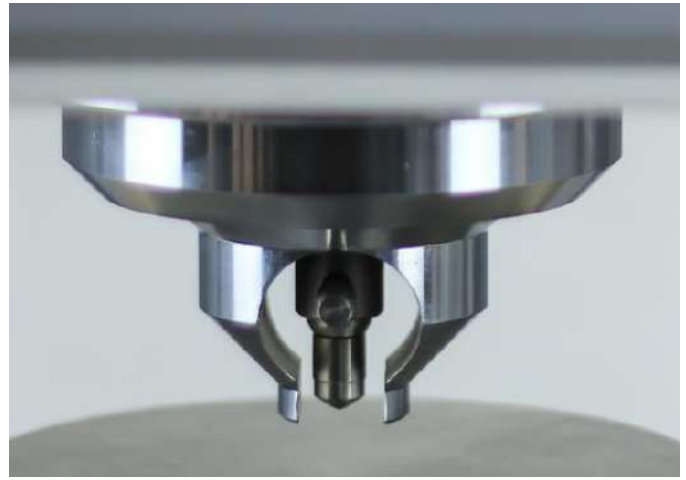
USB Interface



USB Interface



Indenter Protective Device



Indenter Protective Device



More Detailed Photoes





Ordering Information



**uRocky-45WL Weights Loading
Superficial Rockwell Hardness Tester**



**uRocky-150CL Closed Loop
Superficial Rockwell Hardness Tester**



Technical Specification

Model	uRocky-45WL	uRocky-45CL
Loading Method	Weights Loading	Closed Loop
Initial Test Torce	3.0Kgf(29.4N)	
Main Test Torce	15kgf(147.1N) 30kgf(294.2N) 45kgf(441.3N)	
Hardness Scale	HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y	
Conversion scale	HRA, HRB, HRC, HRD, HRE, HRF, HV, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T	
Rockwell Test Range	HR15N:70-94 HR30N:42-86 HR45N:20-77 HR15T:67-93 HR30T:29-82 HR45TW:10-72	
Executive Standards	BSEN 6508, ISO 6508, ASTM E18, GB/T230	
Dwell time	0-99s	
Hardness Resolution	0.1 HR	
Error of Test Force	< 1%	
Data Reading	LCD Touch Screen	
Data Output	USB-flash in Excel Format	
Conversion Scale	Rockwell, Brinell and Vickers	
Test Height	220mm	
Test Throat	200mm	
Machine Dimensions	560 * 220 * 750 mm	
Net Weight	70kg	
Gross Weight & Packing Size	780x470x940mm / 90kg	
Power Supply	AC220 + 5%, 50 ~ 60 HZ	

Packing List

Name	Quantity	Name	Quantity
Diamond Rockwell Indenter	1	1.5875 mm Ball Indenter	1
Regulating Screw	4	150mm Test Anvil	1
HR15N Hardness Block	1	55mm Test Anvil	1
HR30N Hardness Block	1	40mm V-type Test Anvil	1
HR30T Hardness Block	1	Dust-proof Plastic Cover	1
Power Line	1	Instruction Manual	1 Copy
USB Flash Disk	1	Product Certificate	1 Copy
Touch Pen	1	2A Fuse	2



1.5875mm Ball Indentor



Diamond Rockwell Indentor



150mm Flat Test Anvil



Hardness Block



55mm Flat Test Anvil



40mm V-shape Test Anvil