

uRocky-A

Auto Digital Rockwell Hardness Tester



Video



Contact us

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Features and Applications

Product Features

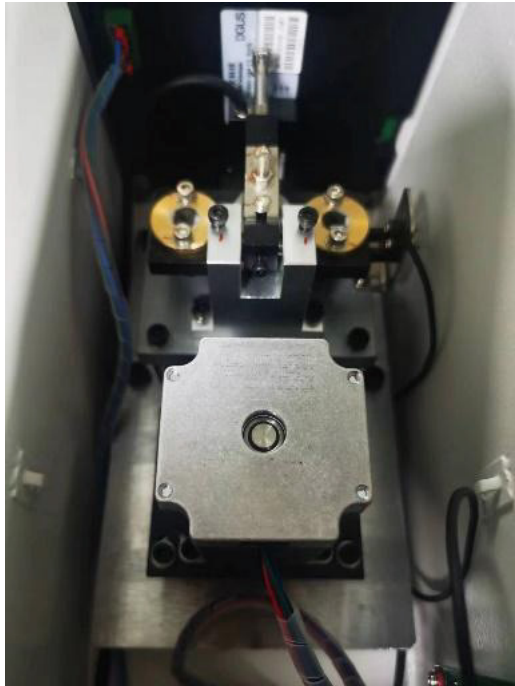
- Test Anvil automatic lifting, without manual rotation of hand-wheel.
- Press the start button, the test anvil will rise automatically, test sample will be loaded and unloaded automatically, and the hardness value will be displayed automatically.
- Closed loop control system, high precision load cell in stead of dead weights.
- 8" touch screen for user directly select the hardness scale and test force and displays hardness value, conversion scale, test force, dwell time, etc.
- With all kinds of rockwell hardness scales HRA HRB HRC etc and high resolution 0.1HR.
- Automatic correction of high, medium and low hardness numbers.
- Automatic correction of load, with the force accuracy increased by dynamometer.
- 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. Curve display: force, displacement depth change curve, real-time 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/RS232 interface, test data can be saved in U-flash directly in Excel format. easy to edit and process.
- Indenter protective device equipped (testing sample size should over 15mm).

Product Applications

- 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.



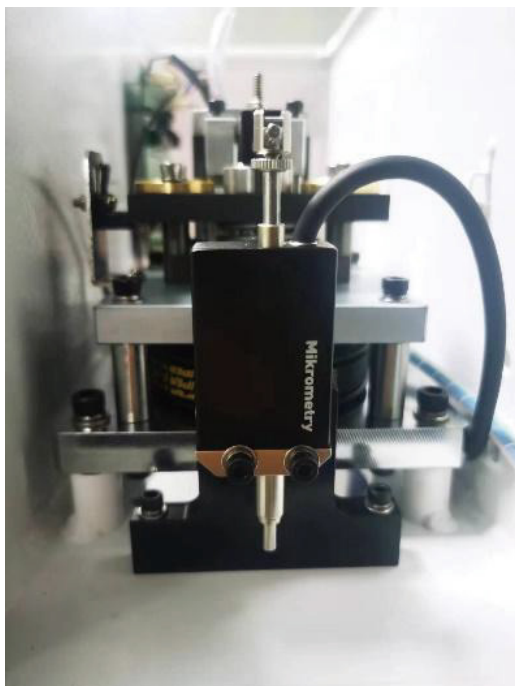
Product Details



Electronic Motorized Loading



Load Cell



Electronic Motorized Loading



Electronic Motorized Loading

- uRocky-A 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.

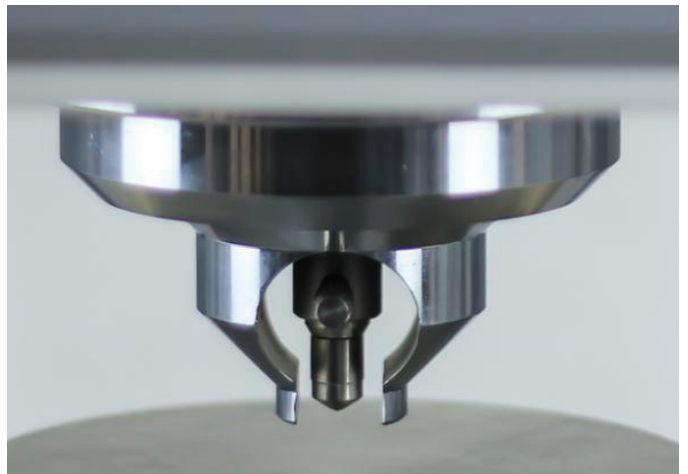
Product Details

Data Output



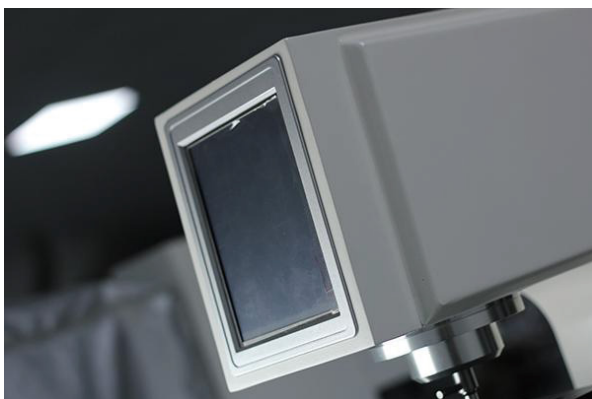
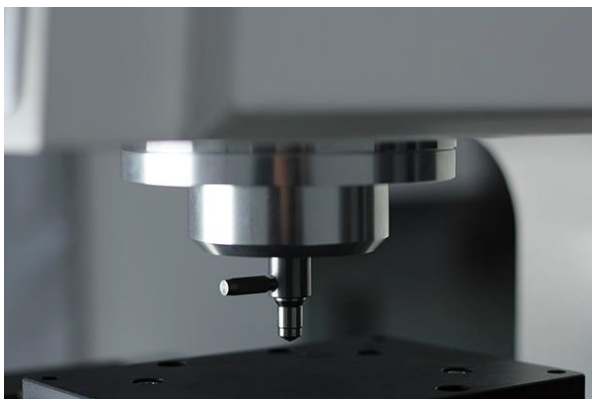
- With USB/RS232 interface, test data can be saved in U-flash directly in Excel format. easy to edit and process.

Indenter Protective Device



Product Details

More Detailed Photos



Operation Interface

Scale Selection

Tester

Product Name

Radius of Curvature

Range To

Hardness Type

Conversion Type Conversion Value

Dwell Time(S)

Hardness Value

Calibration

Scale:

Standard Hardness Value : Measured:

Low

Medium

High

Force Calibration

Standard: kg

Measured: kg

Measurement Scale

Please choose the right indenter for the scale you choosed.
Explanation

Scale/Force/Indentor

uRocky-150A

Measurement Scale

Please choose the right indenter for the scale you choosed.
Explanation

Scale/Force/Indentor Scale/Force/Indentor

uRocky-150/45A

Measurement Scale

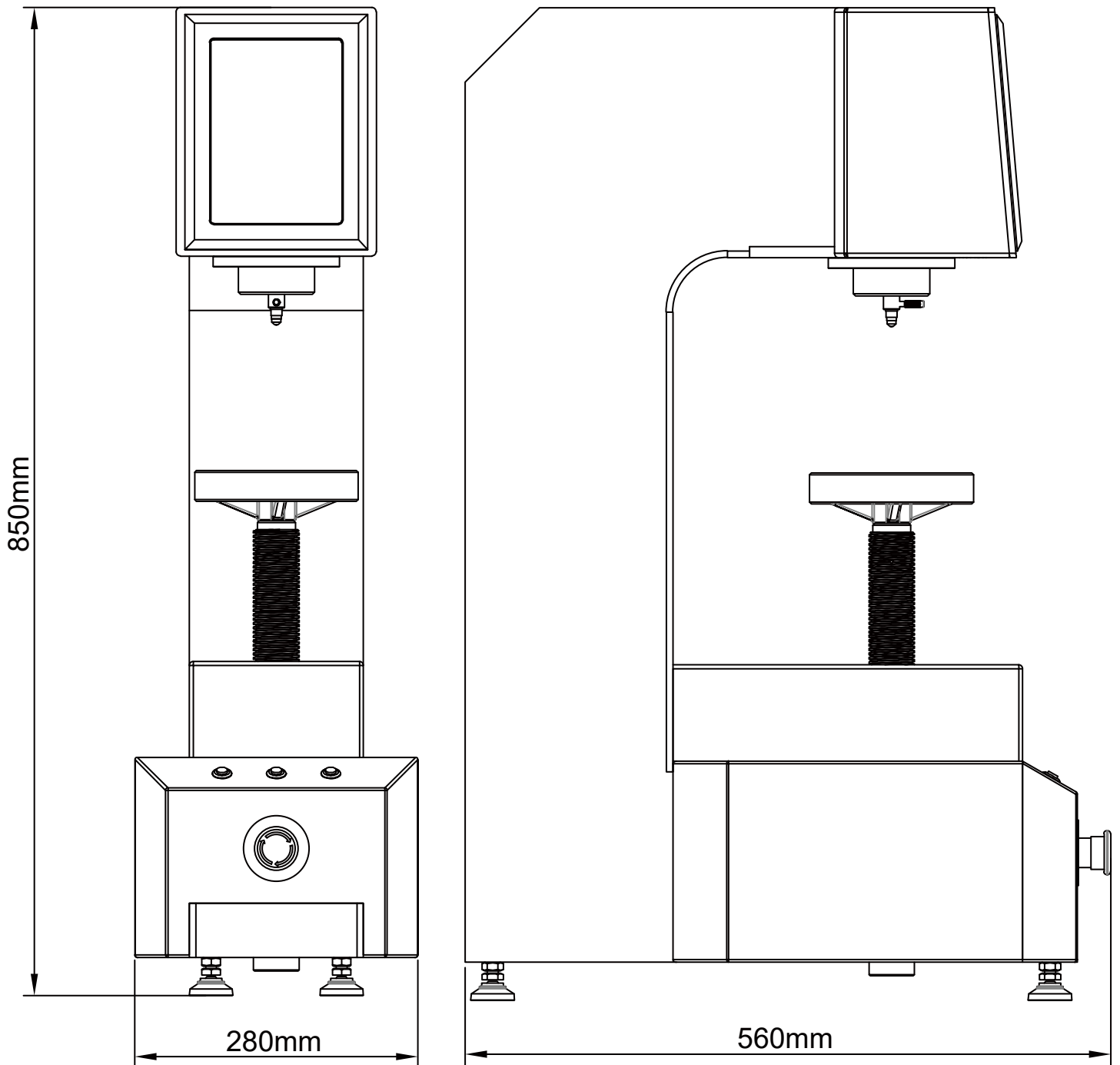
Please choose the right indenter for the scale you choosed.
Explanation

Scale/Force/Indentor Scale/Force/Indentor

uRocky-45A

- 8" touch screen for user directly select the hardness scale and test force and displays hardness value, conversion scale, test force, dwell time, etc.

Instrument Dimension



Technical Specification

Model	uRocky-150A	uRocky-45A	uRocky-150/45A
Name	Auto Digital Rockwell	Auto Digital Superficial	Auto Digital Twin
Product Name	Hardness Tester	Rockwell Hardness Tester	Rockwell Hardness Tester
Initial Test Force (error < 0.5%)	10 Kgf (98.07N)	3.0kgf(29.4N)	Rockwell: 10 Kgf (98.07N)
			Superficial Rockwell: 3.0kgf(29.4N)
Main Test Force (error < 0.5%)	60kgf(588N) 100kgf(980N) 150kgf(1471N)	15kgf(147.1N) 30kgf(249.2N) 45kgf(441.3N)	15kgf(147.1N) , 30kgf(249.2N), 45kgf(441.3N)
			60kgf(588N), 100kgf(980N), 150kgf(1471N)
Hardness Scale	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRR, HRP, HRS, HRV	15N, 15T, 15W, 15X, 15Y, 30N30T, 30W, 30X, 30Y, 45N, 45T, 45W, 45X, 45Y	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRR, HRP, HRS, HRV
			15N, 15T, 15W, 15X, 15Y, 30N,30T, 30W, 30X, 30Y, 45N, 45T,45W, 45X, 45Y




Technical Specification

Conversion scale	HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T		
Hardness Test Range	HRA:20-95, HRB:20-100, HRC:20-70, HRD:40-77, HRE:70-100, HRF:60-100, HRG:30-94, HRH:80-100, HRK:40-100, HRL:100-120, HRM:85-115, HRR:114-125	HR15N: 70-94 HR30N: 42-86 HR45N: 20-77 HR15T: 67-93 HR30T: 29-82 HR45T: 1-72	HRA:20-88, HRB:20-100, HRC:20-70,HRD:40-77, HRE:70-100,HRF:60-100, HRG:30-94, HRH:80-100, HRK:40-100,HRL:100-120 HRM:85-115,HRR:114-125 HR15N: 70-94, HR30N: 42-86 HR45N: 20-77, HR15T: 67-93 HR30T: 29-82, HR45T: 1-72
Executive Standards	BSEN 6508, ISO 6508, ASTM E18, GB/T230, JJG112		
Dwell Time	0-99s		
Hardness Resolution	0.1 HR		
Hardness Reading	LCD Touch Screen		
Data Output	USB Flash Disk		

Technical Specification

Data Save	The measured values are saved in USB flash in Excel format		
Conversion Scale	Brinell, Vickers, Superficial Rockwell	Brinell, Vickers, Rockwell	Brinell, Vickers, Rockwell
Test Height	300mm		
Test Throat	200mm		
Machine Dimension	560 * 280 * 850 mm		
Net Weight	80kg		
Power Supply	AC220 + 5%, 50 ~ 60 hz		

Standard Delivery

Name	Qty	Photo
Diamond Rockwell Indentor	1 pc	
Regulating Screw	4 pcs	/
USB Flash Disk	1 pc	
Power Line	1 pc	/
Touch Pen	1 pc	
2A Fuse	2 pcs	/
Diameter 1.5875mm ball head	1 copy	/
Dust-proof Plastic Cover	1 pc	/

Standard Delivery

Name	Qty	Photo
150mm Test Anvil	1 pc	
55mm Test Anvil	each1	
40mm V-shaped Test Anvil	1 pc	
HRC High Hardness Block	1 pc	
HRC Low Hardness Block	1 pc	
HRB Hardness Block	1 pc	
HR15N Hardness Block	1 pc	/

Standard Delivery

Name	Qty	Photo
HR30N Hardness Block	1 pc	/
HR30T Hardness Block	1 pc	/
Hardness Block (HRC high and low, HRB)	3 pcs	/
Hardness Block (HR15, HR30N, HR30T)	3 pcs	/
V-shaped Test Anvil	1 pc	/
Product Certificate	1 copy	/
Instruction Manual	1 copy	/