

Mikrosize®

uRocky-A

Auto Digital Rockwell Hardness Tester



Video



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Product Feature&Application

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)



uRocky-150A



uRocky-45A



URocky-150/45A

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.

Touch Screen Interface

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

Tester

Product Name

Radius of Curvature

Range To

Hardness Type

Conversion Type Conversion Value

Dwell Time(S)

Hardness Value

Calibration

Start

Data

Calibration

Scale:

Standard Hardness Value : Measured:

Low

Medium

High

Save

Calibration

Language

Return

Force Calibration

Standard: kg

Measured: kg

Enter

Return

Measurement Scale

Calibration

HRB/100/1.588

HRC/150/D

HRD/100/D

HRE/100/3.175

HRF/60/1.588

HRG/150/1.588

HRH/60/3.175

HRK/150/3.175

HRL/60/6.35

HRM/100/6.35

HRP/150/6.35

HRR/60/12.7

HRS/100/12.7

HRV/150/12.7

Please choose the right indenter for the scale you choosed.

Explanation

HRA/60/D

Return

Scale/Force/Indenter

uRocky-150A

Measurement Scale

Calibration

HRB/100/1.588

HRC/150/D

HRD/100/D

HRE/100/3.175

HRF/60/1.588

HRG/150/1.588

HRH/60/3.175

HRK/150/3.175

HRL/60/6.35

HRM/100/6.35

HRP/150/6.35

HRR/60/12.7

HRS/100/12.7

HRV/150/12.7

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

uRocky-150/45A

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

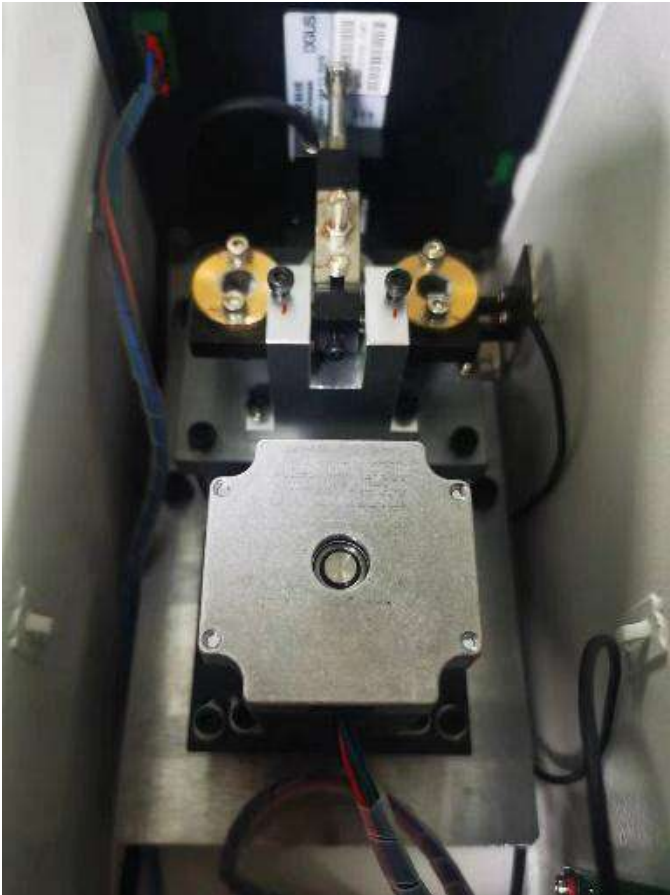
HR15N/D

Return

Scale/Force/Indenter Scale/Force/Indenter

uRocky-45A

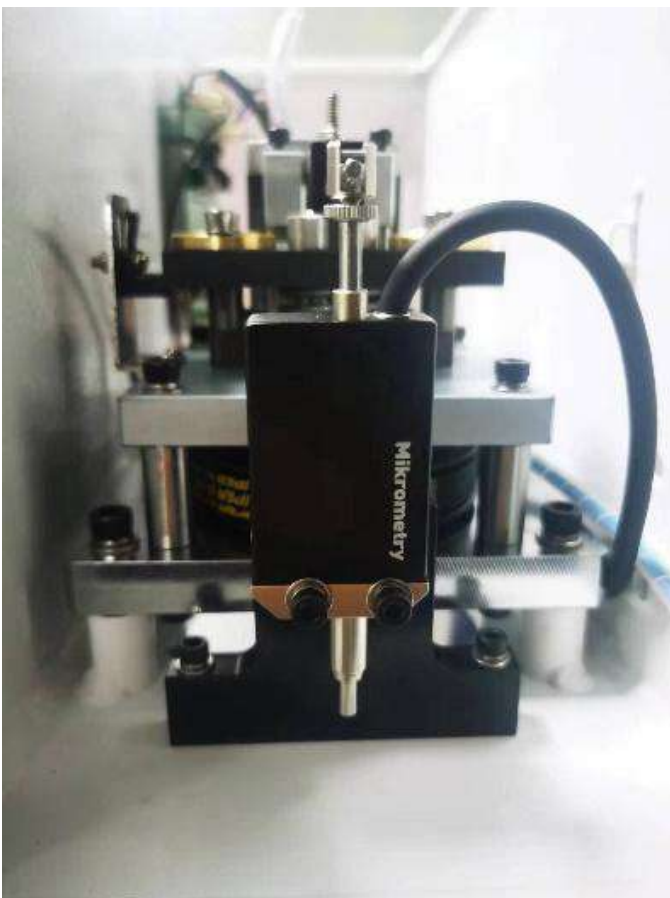
uRocky-A is with Closed loop control system, high precision load cell structure. Automatically apply the initial test force and the main test force. Automatic testing process: Automatic loading - Dwell - Unloading.



Electronic Motorized Loading



Load Cell



Displacement Sensor



Displacement Sensor

Data Output

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



USB/RS232 Interface

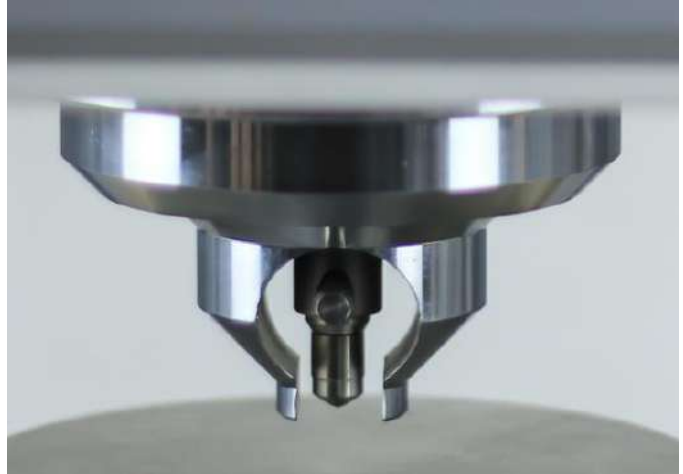


USB/RS232 Interface

Indenter Protective

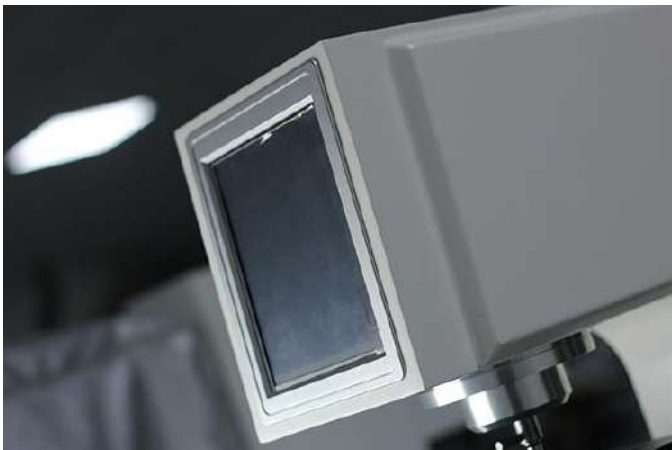


Indenter Protective Device



Indenter Protective Device

More Detailed Photos





Technical Specification

Model	uRocky-150A	uRocky-45A	uRocky-150/45A
Product Name	Auto Digital Rockwell	Auto Digital Superficial	Auto Digital Twin
Initial Test Force	Hardness Tester	Rockwell Hardness Tester	Rockwell Hardness Tester
(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)	15kgf(147.1N)	15kgf(147.1N) ,30kgf(249.2N),
	100kgf(980N)	30kgf(249.2N)	45kgf(441.3N)
	150kgf(1471N)	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
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		
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		

Machine Real Photos at Factory





Ordering Information



**uRocky-150A Auto Digital
Rockwell Hardness Tester**



**uRocky-45A Auto Digital
Superficial Rockwell
Hardness Tester**



**uRocky-150A/45A Auto
Digital Twin Rockwell
Hardness Tester**

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Packing List

uRocky-150A

Item	Qty	Item	Qty
Diamond Rockwell Indentor	1	Diameter 1.5875mm ball head	1
Regulating Screw	4	150mm Test Anvil	1
HRC High Hardness Block	1	55mm Test Anvil	1
HRC Low Hardness Block	1	40mm V-shaped Test Anvil	1
HRB Hardness Block	1	USB Flash Disk	1
Power Line	1	Touch Pen	1
Product Certificate	1 copy	Instruction Manual	1 copy
2A Fuse	2	Dust-proof Plastic Cover	1

uRocky-45A

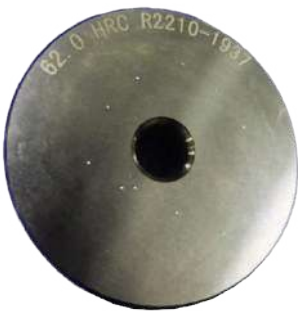
Item	Qty	Item	Qty
Diamond Rockwell Indenter	1	1.5875 mm Ball Indenter	1
Regulating Screw	4	150mm Test Anvil	1
HR15N Hardness Block	1	55mm Test Anvil	1
HR30N Hardness Block	1	40mm V-type Test Anvil	1
HR30T Hardness Block	1	Dust-proof Plastic Cover	1
Power Line	1	Instruction Manual	1 Copy
USB Flash Disk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

uRocky-150A/45A

Item	Qty	Item	Qty
Diamond Rockwell Indentor	1	1.5875mm Ball Indentor	1
Regulating Screw	4	150mm Test Anvil	1
Hardness Block (HRC high and low, HRB)	3	55mm Test Anvil	1
Hardness Block (HR15, HR30N, HR30T)	3	40mm V-type Test Anvil	1
2A Fuse	2	V-shaped Test Anvil	1
USB Flash Disk	1	Dust-proof Plastic Cover	1
Power Line	1	Product Certificate	1
Touch Pen	1	Instruction Manual	1



HRB Hardness Block



HRC Hardness Block(High)



HRC Hardness Block(Low)



150mm Flat Test Anvil



55mm Flat Test Anvil



40mm V-shape Test Anvil



Superficial Rockwell Block



USB Flash Disk



Touch Pen