



Bench top Hardness Tester



Sinowon Innovation Metrology Manufacture Limited

Company Profile

Founded in 2010, we Sinowon Innovation Metrology Manufacture Limited is National Authorized Hi-Tech Manufacturer (Certificate No.: GR201544000821), ISO9001:2015 Certified company, GuangDong Province Enterprise of Observing Contract and Valuing Credit, Shenzhen Qianhai Equity Trading Center(SEC Registration Number:666354).

So far as founded in 2010, Sinowon always consider customer as the starting point, manage corporation with motto "Satisfaction, Innovation, Norm, Obligation, Worth, Openness, Nimble". Constantly improve the management system, increase technology research and development, strengthen the company's ability to integrate production, dedicated to provide users with high-quality testing equipment and one-stop pre-sale, sale and after-sales service.

SINOWON is mainly produce, develop, integrate and sell measuring data software system, optical inspection instrument such as One Key Instant Vision Measuring System, Fully Auto Video Measuring System, Tool Microscope, Video Measuring Microscope and hardness tester such as Automatically Vickers Hardness Tester, Rockwell Hardness Tester, Brinell Hardness Tester, Micro Hardness Tester, Portable Ultrasonic Hardness Tester, Leeb Hardness Tester, etc and some other accessory products. And all of our products have passed The CE EU certification and widely used in metal, plastics, electronics, semiconductors, home appliances, telecommunications, automotive, aviation, aerospace and other industrial laboratories, production workshops, assembly line for quality control.

From the date of establishment, SINOWON is based on the Metrology industry, focused on customer and be a striver for committing to make measurement more accurate and uncomplicated and supply high cost-performance products and service for customers.

We warmly welcome you to visit our headquarter in Free Experience Center, and looking forward to further essence from you.

Sinowon is Committed to Make Measurement More Accurate and Uncomplicated!



Intermach Metal Processing Machinery Fair



CCMT China CNC Machine Tool Fair



ASEAN International Machine Tool Fair



DMP Tooling and Machining Fair



SIMM Machinery Fair



Control Stuttgart Quality Control Fair

Manual(Superficial)Rockwell Hardness Tester

DigiRock H Series

+ Features

- DigiRock HR1/HS1 Manalogue gauge resolution is 0.5HR, it is useful to improve the reading accuracy than traditional 1HR resolution.
- DigiRock HR1/HS1 force knob adopts the metal material to replace the plastic, it largely improves the instrument using-life .
- DigiRock HR1/HS1 loading, dwell and unloading is buffering by oil pump,it eliminates the operator' s tiredness.
- DigiRock HR1/HS1 interter protector is available to improve the using lifetime of indenter.

+ Applications

- Rockwell B Scale HRB: Copper alloys, soft steels, aluminum alloys, malleable iron, etc.
- Rockwell C Scale HRC: Steel, hard cast irons, pearlitic malleable iron, titanium, deep case hardened steel, and other materials harder than B100.
- Rockwell A Scale HRA: Cemented carbides, thin steel, and shallow case-hardened steel.

+ Optional Accessories



Indenter Protector Cap



Indenter



Small Flat Anvil



+ Specifications

Product Name	Manual Rockwell Hardness Tester	Manual Superficial Rockwell Hardness Tester
Model	DigiRock HR1	DigiRock HS1
Code#	811-110	811-210
Rockwell Scales	HRA,HRB,HRC	HR15N,HR30N,HR45N,HR15T,HR30T,HR45T
Preliminary Test Force	10Kgf(98.07N)	3Kgf(29.42N)
Test Force	60Kgf(588.4N),100Kgf(980.7N),150Kgf(1471N)	15Kgf(147.1N),30Kgf(294.2N),45Kgf(441.3N)
Hardness Indication	Analogue Display	
Dwell Time	Adjustable 1-60s	
Resolution	0.5HR	
Loading Control	Manual	
Max Height of Specimen	175mm	
Instrument Throat	165mm	
Dimension	546x182x755mm	
Packing Dimension	620x460x870mm	
Gross/Net Weight	120Kg/90Kg	
Execution Standard	GB/T230.2, JJS Z2245, EN-ISO 6508 , ASTM E-18	

Electronic(Superficial)Rockwell Hardness Tester

DigiRock M Series

+ Features

- DigiRock MR2/MS2 analogue gauge resolution is 0.5HR, it is useful to improve the reading accuracy than traditional 1HR resolution.
- DigiRock MR2/MS2 dwell time from 1to 60s can be setup by the “time key” on the panel , it is much convenient than the setup on the manual hardness tester.
- DigiRock MR2/MS2 force knob adopts the metal material to replace the plastic, it largely improves the instrument using-life.
- DigiRock MR2/MS2 loading, dwell and unloading is buffering by electronic motor automatically,
- DigiRock MR2/MS2 doesn't need the operator to handle it , it eliminates the human operation error maximally.
- DigiRock MR2/MS2 intenter protector is available to improve the using lifetime of indenter.

+ Applications

- Rockwell B Scale HRB: Copper alloys, soft steels, aluminum alloys, malleable iron, etc.
- Rockwell C Scale HRC: Steel, hard cast irons, pearlitic malleable iron, titanium, deep case hardened steel, and other materials harder than B100.
- Rockwell A Scale HRA: Cemented carbides, thin steel, and shallow case-hardened steel.

+ Optional Accessories



Ø150mm Flat Anvil



Ø60mm Flat Anvil



Ø40mm V-shape Anvil



+ Specifications

Product Name	Electronic Rockwell Hardness Tester	Electronic Superficial Rockwell Hardness Tester
Model	DigiRock MR2	DigiRock MS2
Code#	811-120	811-220
Rockwell Scales	HRA,HRB,HRC	HR15N,HR30N,HR45N,HR15T,HR30T,HR45T
Preliminary Test Force	10Kgf(98.07N)	3Kgf(29.42N)
Test Force	60Kgf(588.4N),100Kgf(980.7N),150Kgf(1471N)	15Kgf(147.1N),30Kgf(294.2N),45Kgf(441.3N)
Hardness Indication	Analogue Display	
Dwell Time	Adjustable 1-60s	
Resolution	0.5HR	
Loading Control	Electronic	
Max Height of Specimen	175mm	
Instrument Throat	165mm	
Dimension	546x182x755mm	
Packing Dimension	620x460x870mm	
Gross/Net Weight	120Kg/90Kg	
Execution Standard	GB/T230.2, JIS Z2245, EN-ISO 6508 , ASTM E-18	

Touch Screen Digital(Superficial)Rockwell Hardness Tester

DigiRock D Series

+ Features

- Half automatic hardness tester except for loading preliminary force and adjusting force knob. Operation is very convenient and fast.
- Color touch screen, displays loading force, indenter type, dwell time, and conversion scale.
- Motorized control of loading, dwell and unloading, eliminates error by manual operation.
- Built-in micro processor auto compute max, min, mean and deviation value, resolution is 0.1HR, largely improving accuracy.
- Auto hardness conversion to other scales, no need to check conversion table, therefore improving working efficiency.
- Support multiple languages, English, Turkish, German, etc. Convenient for local customers operation.
- Save 2000 single testing results and 1000 group results for reviewing and analysis
- Optional blue tooth mini printer is available.



+ Specifications

Product Name	Touch Screen Digital Rockwell Hardness Tester	Touch Screen Digital Superficial Rockwell Hardness Tester
Model	DigiRock DR3	DigiRock DS3
Code#	811-130	811-230
Rockwell Scales	HRA,HRB,HRC,HRD,HRE,HRF,HRG,HRH,HRK,HRL,HRM,HRP,HRR,HRS,HRV	HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
Preliminary Test Force	10Kgf(98.07N)	3Kgf(29.42N) 允差±2.0%
Test Force	60Kgf(588.4N),100Kgf(980.7N),150Kgf(1471N)	147.1N(15kg)、294.2N(30kg)、441.3N(45kg) 允差 : ±1.0%
Dwell Time	Adjustable 1-60s	
Display	5.2 " Color touch screen; Resolution : 640*480	
Resolution	0.1HR	
Loading Control	Auto loading/dwell/unloading	
Language	Chinese,English,German,Portuguese,Turkish,Czech,Korean	
Hardness Conversion	HRC, HV, HBS, HBW, HK, HRA, HRD, HR15N, HR30N, HR45N, HS, HRF, HR15T, HR30T, HR45T, HRB	
Conversion Standard	ASTM, DIN	
Correction Range	-3.0HR ~ +3.0HR, step value 0.1HR	
Data Memory	2000 group single dat, line chart of group data function; respectively provide single data viewing and group data viewing	
Print	Optional wireless printer	
Max Height of Specimen	175mm	
Instrument Throat	165mm	
Power Supply	AC 220V/50Hz;AC110V/60Hz	
Dimension	546x182x755mm	
Packing Dimension	620x460x870mm	
Gross/Net Weight	120Kg/90Kg	
Execution Standard	GB/T230.2, JIS Z2245, EN-ISO 6508 , ASTM E-18	

Electronic Twin Rockwell Hardness Tester

DigiRock SR2

+ Features

- DigiRock SR2 can test both Rockwell and Superficial Rockwell hardness scales.
- Manually switch 3kgf and 10kgf initial force, to test rockwell and superficial rockwell scales.
- Dial reading, resolution is 0.5HR.
- Motorized loading/dwelling/unloading to make precision force and excellent results.

+ Applications

- Rockwell B Scale HRB: Copper alloys, soft steels, aluminum alloys, malleable iron, etc.
- Rockwell C Scale HRC: Steel, hard cast irons, pearlitic malleable iron, titanium, deep case hardened steel, and other materials harder than B100.
- Rockwell A Scale HRA: Cemented carbides, thin steel, and shallow case-hardened steel.



+ Specifications

Product Name	Electronic Twin Rockwell Hardness Tester
Model	DigiRock SR2
Code#	811-310
Rockwell Scales	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV
Test Force	60Kgf(588.4N), 100Kgf(980.7N), 150Kgf(1471N)
Superficial Rockwell Scale	HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y
Superficial Rockwell Force	15Kgf(147.1N), 30Kgf(294.3N), 45Kgf(441.3N)
Reading	Dial Reading
Dwell Time	2~60s Adjustable
Resolution	0.5HR
Loading Control	Motorized loading/dwelling/unloading
Max Height of Specimen	175mm
Instrument Throat	165mm
Dimension	546x182x755mm
Packing Dimension	620x460x870mm
Net Weight	80Kg
Gross Weight	98Kg
Power Supply	AC 220V/50Hz; AC110V/60Hz
Execution Standard	GB/T230.2, JIS Z2245, EN-ISO 6508, ASTM E-18

Full-Auto Rockwell Hardness Tester

***iRock* Series**

One Touch
Operation

Auto
Load Change

Auto
Lifting

Auto
Loading

Auto
Measuring

Auto
Conversion

Data
Transmission



+ Features

- A kind of Full-auto Intelligent Digital Rockwell Hardness Tester, available to test Rockwell and Superficial Rockwell hardness automatically.
- One-key operation, auto lifting, auto load-change, auto loading/dwell/unloading, auto conversion, auto testing.
- Equipped with friendly operation interface, 5.2 " color touch screen directly display test force, dwell time, conversion value, indenter type, etc.
- Auto calculating and displaying test result, Max, Min, Ave, and hardness deviation. Resolution is 0.1HR.
- Available to set up upper and lower limit, with the function of over-error warning, data analysis chart, single test and group test.
- With software compensation function, available to compensate $\pm 3\text{HR}$, need not mechanical adjustment.
- With function of auto conversion according to ASTM E140, without checking hardness contrast table.
- Available to switch languages: Chinese, English, German, Portuguese, Turkish, Czech, Korean.
- Available to save 2000 single test results and 1000 group test results. Can realize data viewing and analysis
- With optional wireless Bluetooth printer, there is no need to record results and report by hand.
- With optional data analysis software and Bluetooth receiver to input and analyze data.
- Support FexQMS data analysis and control software, improve integral control and decrease material consumption.



+ Specifications

Product Name	Auto Rockwell Hardness Tester	Full-auto Superficial Rockwell Hardness Tester	Full-auto Twin Rockwell Hardness Tester
Model	iRock-DR1	iRock-SR1	iRock-TR1
Code#	811-330	811-340	811-350
Preliminary Test Force	10Kgf(98.1N)	3Kgf(29.4N)	3Kgf(29.4N);10Kgf(98.1N)
Test Force	60Kgf(588.4N),100Kgf(980.7N),150Kgf(1471N)	15Kgf(147.1N),30Kgf(294.3N),45Kgf(441.3N)	15Kgf(147.1N),30Kgf(294.3N),45Kgf(441.3N);60Kgf(588.4N),100Kgf(980.7N),150Kgf(1471N)
Rockwell Scales	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV		
Superficial Rockwell Scale	15T,30T,45T;15W,30W,45W;15X,30X,45X;15Y,30Y,45Y;15N,30N,45N		
Full Rockwell Scale	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV; 15T,30T,45T;15T,30T,45T;15W,30W,45W;15X,30X,45X;15Y,30Y,45Y;15N,30N,45N		
Display	5.2 " Color touch screen; Resolution : 640*480		
Dwell Time	Adjustable 1-60s		
Software Correction	-3.0HR ~ +3.0HR, step value 0.1HR		
Resolution	0.1HR		
Loading Control	Auto loading/dwell/unloading		
Conversion Standard	ASTM, DIN		
Conversion Scale	HRC, HRB, HRA, HV, HK, HBW, etc		
Language	Chinese, English, German, Portuguese, Turkish, Czech, Korean		
Data Processing	2000 group single dat, line chart of group data function; respectively provide single data viewing and group data viewing		
Print	Optional wireless printer		
Max Height of Specimen	280mm		
Instrument Throat	170mm		
Power Supply	AC 220V/50Hz; AC110V/60Hz		
Dimension	615x225x885mm		
Packing Dimension	670x440x1000 (mm)		
Gross/Net Weight	140Kg/125Kg		
Execution Standard	GB/T230.2, JIS Z2245, EN-ISO 6508, ASTM E-18		

Digital Twin Rockwell Hardness Tester

iRock TR2

+ Features

- Semi-automatic intelligent Digital Rockwell Hardness tester, you can automatically test the Rockwell hardness and surface Rockwell hardness measurement;
- Automatic variable load, automatic loading, automatic unloading, automatic conversion, automatic measurement;
- Friendly human-computer interaction, 5.2 "colorful LCD screen direct display test force, loading time, conversion value and indenter type etc;
- Automatically calculate and display the measured value, the maximum value, the minimum value, the average value and the hardness value deviation, the display shows the resolution 0.1HR;
- There are functions such as hardness upper and lower limit settings, tolerance alarms, data graph analysis, average and (single point) batch measurement modes ;
- Software compensation function, the machine can be $\pm 3HR$ software compensation, no need to open the top cover for mechanical adjustment;
- With automatic hardness conversion function, according to ASTM E140 conversion, no need to check the complex hardness of the table;
- Multi-language features, can switch Chinese, English, German, Portuguese, Turkish, Czech, Korean and other languages;
- Built-in 2000 single data storage function and 1000 group packet data storage function, can view a single data and data analysis;
- Optional Bluetooth wireless printer to print the measurement data, no need to manually record and write test data;
- Optional Softhard data analysis software and Bluetooth receiver on the test data for the computer into and analysis;
- Support FexQMS measurement of large data analysis and control software to enhance the whole plant process control, reduce material loss.



+ Specifications

Product Name	Digital Twin Rockwell Hardness Tester
Model	iRock TR2
Code#	811-360
Rockwell Scales	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV, HR15T, HR30T etc.
Initial Test Force	10Kgf(98.1N), 3Kgf(29.4N)
Total Test Force	15Kgf(147.1N); 30Kgf(294.3N); 45Kgf(441.3N); 60Kgf(558.4N); 100Kgf(980.7N); 150Kgf(1471N)
LCD Display Screen	5.2 " Color touch screen; Resolution : 640*480
Dwell Time	2~60s Adjustable
Resolution	0.1HR
Loading Control	Auto loading/dwell/unloading
Data Output	Optional wireless printer
Languages	Chinese, English, German, Portuguese, Turkish, Czech, Korean
Max Height of Specimen	280mm
Instrument Throat	170mm
Dimension	615 x 225x 885mm
Packing Dimension	670x440x1000mm
Net Weight	120Kg
Gross Weight	140Kg
Power Supply	AC 220V/50Hz; AC110V/60Hz/200W
Execution Standard	GB/T230.2, JIS Z2245, EN-ISO 6508, ASTM E-18

Advanced Digital Twin Rockwell Hardness Tester

SHR-N Series

+ Features

- Twin tester--Regular Rockwell & Rockwell Superficial hardness for metal and plastic material.
- Horizontal protrudent indenter design, also suitable for internal and external testing.
- Testing on surfaces difficult to reach. Testing internal surface of rings and tubes with diameters over 23mm.
- Testing force is set automatically according to testing scale.
- Provided with many features such as high measuring precision, wide measuring range with 30 Rockwell scales.
- Measuring results are digitally displayed and can be printed, or transmitted to external computer automatically by USB or RS-232 cable.
- Test value can be transformed to the value of HB, HV, HK and ob value.
- The tester meets all the following standard such as ISO 6508-2, ASTM E18.



+ Specifications

Product Name	Rockwell Hardness Tester	Superficial Rockwell Hardness Tester	Twin Rockwell Hardness Tester
Model	SHR-150N	SHR-45N	SHR-145N
Code#	811-308	811-318	811-328
Preliminary Test Force	10Kgf(98.1N)	3Kgf(29.4N)	3Kgf(29.4N);10Kgf(98.1N)
Test Force	60Kgf(588.4N),100Kgf(980.7N),150Kgf(1471N)	15Kgf(147.1N),30Kgf(294.3N),45Kgf(441.3N)	15Kgf(147.1N),30Kgf(294.3N),45Kgf(441.3N);60Kgf(588.4N),100Kgf(980.7N),150Kgf(1471N)
Rockwell Scales	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK,HRL, HRM, HRP,HRR, HRS, HRV		
Superficial Rockwell Scale	15T,30T,45T;15W,30W,45W;15X,30X,45X;15Y,30Y,45Y;15N,30N,45N		
Full Rockwell Scale	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK,HRL, HRM, HRP,HRR, HRS, HRV; 15T,30T,45T;15T,30T,45T;15W,30W,45W;15X,30X,45X;15Y,30Y,45Y;15N,30N,45N		
Data Memory	Max 400 items of test results stored automatically		
Dwell Time	Adjustable 2-60s		
Display	High definition backlight LCD		
Resolution	0.1HR		
Data Output	RS-232		
Loading Control	Auto Loading/Dwell/Unloading		
Hardness Conversion	HRC, HRB, HRA, HV, HK, HBW,etc		
Max Height of Specimen	260mm		
Instrument Throat	150mm		
Dimension	710 x210 x830mm		
Packing Dimension	820 x520 x1000mm		
Power Supply	AC 220V/50Hz;AC110V/60Hz		
Gross/Net Weight	125Kg/95Kg		
Execution Standard	GB/T230.2, JJS Z2245, EN-ISO 6508 , ASTM E-18		

Automatic Rockwell & Superficial Hardness Tester

SHR-145AN

+ Introduction

- Motor driving lifting mechanism make the testing more easily. Just press "START" key once, whole process will be finished automatically. No matter the size of the sample, the position of the sample, the distance between the indenter and sample surface. The sample will be auto-lifted to approach the indenter and finishing testing automatically.
- More testing precision than handle wheel lifting type machine which effected by human factors.
- Integrated casting body with more wide iron basement leads to more stability.

+ Features

- Twin tester--Regular Rockwell & Rockwell Superficial hardness for metal and plastic material.
- Horizontal Protrudent Indenter Design, suitable also for internal and external testing.
- Testing on Surfaces difficult to reach. Testing internal surface of rings and tubes with diameters over 23mm.
- Testing force is set automatically according testing scale.
- Provided with many features such as high measuring precision, wide measuring range with 30 Rockwell scales.
- The tester is suitable for testing of carbon steel, alloy steel, cast iron, non ferrous metal.
- Measuring results digitally displaying and can be printed, or transmitted to external computer automatically by USB or RS-232 data output port.
- Test value can be converted to the value of HB, HV, HK and σ_b value.
- Curved surface correcting automatically.
- The tester meeting all the following standard such as ISO 6508-2, ASTM E18.

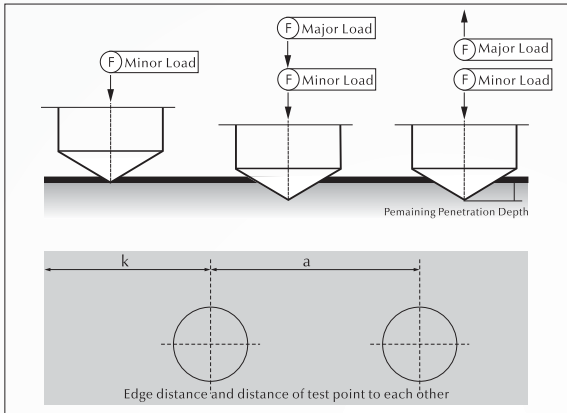


+ Specifications

Product Name	Automatic Rockwell & Superficial Hardness Tester
Model	SHR-145AN
Code#	811-358
Preliminary Test Force	29.4Nf(3kgf),98.1N (10kgf)
Total Test Force	147.1N(15kgf), 294.3N(30kgf),441.3N(45kgf),588.4N (60kgf), 980.7N (100kgf), 1471N (150kgf)
Rockwell Scales	HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HR15W, HR30W, HR45W, HR15X;HR30X, HR45X,HR15Y, HR30Y, HR45Y; HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRP,HRR, HRS, HRV
Dwell Time	Adjustable 2~60s
Resolution	0.1HR
Display	High definition backlight LCD
Operation	Menu selectable, Membrane keypad
Limitation	Upper/lower limits setting & alarming
Data Statistics	Avg., Max., Min., S, R available
Data Memory	Max 400 items of test results stored automatically
Data Output	RS-232 to micro printer, USB port to external PC
Testing Space	250mm in vertical, 150mm in horizontal
Dimension	710mm×210mm×880mm
Gross/Net Weight	155kg /125kg
Power Supply	AC, 220V/110V, 50~60Hz, 4A

Rockwell Scales

Rockwell EN ISO 6508



Method	Base
HRA, HRC, HRD	= 100 Units(1E=0.002mm)
HRB, HRE, HRF, HRG, HRH, HRK	= 130 Units(1E=0.002mm)
HRN, HRT	= 100 Units(1E=0.001mm)

Procedure	Edge Dist. K	Impression Dist. a
A, B, C, F	3mm	3mm
N	1mm	2mm
T	2mm	2mm

Table 1 Rockwell Hardness Scales

Scale Symbol	Indenter	Total Test Force(Kgf)	Dial Figures	Typical Applications of Scales
B	1/16-in(1.588mm)ball	100	Red	Copper alloys, soft steels, aluminum alloys, malleable iron, etc. Steel, hard cast irons, pearlitic malleable iron, titanium, deep case hardened steel, and other materials harder than B100. Cemented carbides, thin steel, and shallow case-hardened steel. Thin steel and medium case hardened steel, and pearlitic malleable iron. Cast iron, aluminum and magnesium alloys, bearing metals. Annealed copper alloys, thin soft sheet metals. Malleable irons, copper-nickel-zinc and cupro-nickel alloys. Upper limit G92 to avoid possible flattening of ball. Aluminum, zinc, lead. Bearing metals and other very soft or thin materials. Use smallest ball and heaviest load that does not give anvil effect.
C	Diamond	150	Black	
A	Diamond	60	Black	
D	Diamond	100	Black	
E	1/8-in(3.175mm)ball	100	Red	
F	1/16-in(1.588mm)ball	60	Red	
G	1/16-in(1.588mm)ball	150	Red	
H	1/8-in(3.175mm)ball	60	Red	
K	1/8-in(3.175mm)ball	150	Red	
L	1/4-in(6.350mm)ball	60	Red	
M	1/4-in(6.350mm)ball	100	Red	
P	1/4-in(6.350mm)ball	150	Red	
R	1/2-in(12.70mm)ball	60	Red	
S	1/2-in(12.70mm)ball	100	Red	
V	1/2-in(12.70mm)ball	150	Red	

Table 2 Rockwell Superficial Hardness Scales

Total Test Force,kgf (N)	Scale Symbols				
	N Scale, Diamond Indenter	T Scale, 1/16-in.(1.588-mm) Ball	W Scale, 1/8-in.(3.175-mm) Ball	X Scale, 1/4-in.(6.350-mm) Ball	Y Scale, 1/2-in.(12.70-mm) Ball
15(147)	15N	15T	15W	15X	15Y
30(294)	30N	30T	30W	30X	30Y
45(441)	45N	45T	45W	45X	45Y

⊕ The Contrast of Rockwell Hardness Tester

Type of Hardness Tester	Rockwell Hardness					Superficial Rockwell				Twin Rockwell					
	DigiRock HR1	DigiRock MR2	DigiRock DR3	iRock-DR1	SHR-150N	DigiRock HS1	DigiRock MS2	DigiRock DS3	SHR-45N	iRock-SR1	SHR-145N	iRock-TR1	iRock-TR2	SHR-145AN	DigiRock SR2
Model	811-110	811-120	811-130	811-330	811-308	811-210	811-220	811-230	811-318	811-340	811-328	811-350	811-360	811-358	811-310
Code#	10Kgf					3Kgf				3Kgf/10Kgf					
Preload	60Kgf, 100Kgf, 150Kgf					15Kgf, 30Kgf, 45Kgf				15Kgf, 30Kgf, 45Kgf, 60Kgf, 100Kgf, 150Kgf					
Test Force	Weight														
Loading System	Manual	Motorized				Manual	Motorized								
Loading Control	Analogue Dial Gauge		LCD Display			Analogue Dial Gauge		LCD Display			Analogue Dial Gauge				
Hardness Indication	0.5HR		0.1HR			0.5HR		0.1HR			0.5HR				
Hardness Resolution	With					With					With				
Auto-Hardness Conversion	With					With					With				
Mini-Printer	With					With					With				
PC Link	RS232					RS232					RS232				
Max. Height of Specimen	175mm		280mm		260mm		175mm		260mm		280mm		260mm		175mm
Instrument Throat	165mm		170mm		150mm		165mm		150mm		170mm		150mm		165mm
Protrudent Indenter	With					With					With				



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