

Touch Screen Rockwell Hardness Tester

Features:

- Semi-Automatic hardness tester features fast operation
- Touch screen display loading force, indenter type, dwell time and conversion scales.
- Motorized control of loading, dwell and unloading, eliminates operator error
- Built-in microprocessor auto compute max, min, average and deviation value, resolution is 0.1HR
- Auto hardness conversion to other scales to improve efficiency
- Support multiple languages
- Save 2000 single testing results and 1000 group results for reviewing and analysis
- Optional Bluetooth mini printer is available



Standard Configuration

Description	Code #	Description	Code #
Instrument Main Body	811-130	Diamond Indenter	811-401
Hardness Block (57-70) HRC	811-641C	Ø150mm Flat Anvil	811-541
Hardness Block (20-33) HRC	811-611C	Ø60mm Flat Anvil	811-521
Hardness Block (85-100) HRB	811-641B	Ø40mm V-grooved Anvil	811-511
1/16" Ball Indenter	811-411	Weight A	811-711
1/16" Ball	811-421	Weight B	811-721
Accessory Box	811-901	Weight C	811-731
Power Cable	811-801	Instrument Manual	DR3

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Optional Accessories

Description	Code #	Description	Code #
1/8" Steel ball indenter	811-431	1/8" Steel ball	811-441
1/4" Steel ball indenter	811-451	1/4" Steel ball	811-561
1/2" Steel ball indenter	811-471	1/2" Steel ball	811-481
Ø100mm Flat Anvil	811-531	Small Anvil	811-501

Specifications:

Description	Touch Screen Rockwell Hardness Tester
Model	TF-DR2
Code#	811-130
Rockwell Scales	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV
Preload	98.1N (10kgf)
Total test force	60Kgf (588.4N), 100Kgf (980.7N), 150Kgf (1471N)
Dwell Time	Adjustable 1-60s
Display	5.2" touch screen; Resolution: 640*480
Resolution	0.1HR
Loading Control	Auto loading/dwell/unloading
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, increment 0.1HR
Max Height of Specimen	175mm
Throat	165mm
Dimensions	546mm×182mm×755mm
Packing Dimensions	620 x 460 x 870mm
Net weight	90Kg
Gross weight	120Kg
Power Supply	AC 240V/50Hz

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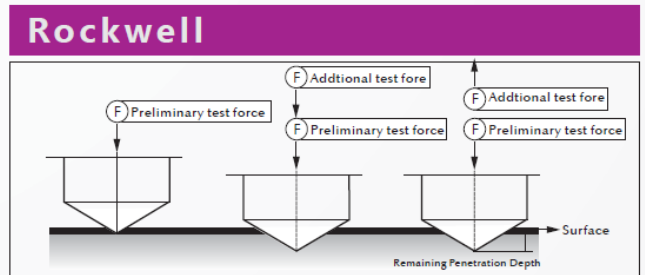
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Table 1 Appliation Rockwell Hardness Scales

ROCKWELL (R) REGULAR SCALE APPLICATIONS			
Scale Symbol	Penetrator	Major (Minor) Load	Typical Application
A	cone diamond	60 kgf (10 kgf)	<ul style="list-style-type: none"> cemented carbides thin steel shallow case hardened steel
B	1/16" Ball	100 kgf (10 kgf)	<ul style="list-style-type: none"> cooper alloys soft steel aluminum alloys malleable iron
C	cone diamond	150 kgf (10 kgf)	<ul style="list-style-type: none"> steel hard cast iron perlitic malleable iron titanium deep case hardened steel
D	cone diamond	100 kgf (10 kgf)	<ul style="list-style-type: none"> thin steel medium case hardened steel perlitic malleable iron
E	1/8" Ball	100 kgf (10 kgf)	<ul style="list-style-type: none"> cast iron aluminum alloys magnesium alloys bearing metals
F	1/16" Ball	60 kgf (10 kgf)	<ul style="list-style-type: none"> annealed copper alloys thin soft sheet metal
G	1/16" Ball	150 kgf (10 kgf)	<ul style="list-style-type: none"> phosphor bronze beryllium cooper malleable iron(G92+ will damage penetrator)
H	1/8" Ball	60 kgf (10 kgf)	<ul style="list-style-type: none"> zinc lead aluminum
K	1/8" Ball	150 kgf (10 kgf)	
L	1/4" Ball	60 kgf (10 kgf)	<ul style="list-style-type: none"> bearing metals relatively soft thin materials
M	1/4" Ball	100 kgf (10 kgf)	<ul style="list-style-type: none"> plastics (refer to ASTM D7851)
P	1/4" Ball	150 kgf (10 kgf)	
R	1/2" Ball	60 kgf (10 kgf)	
S	1/2" Ball	100 kgf (10 kgf)	Use the smallest ball and highest force that do not give "anvil" effect
V	1/2" Ball	150 kgf (10 kgf)	

Table 2 Appliation Rockwell Superficial Scales

ROCKWELL (S) SUPERFICIAL SCALE APPLICATIONS			
Scale Symbol	Penetrator	Major (Minor) Load	Typical Application
15N	cone diamond	15 kgf (3 kgf)	Superficial scale is ideal for testing materials that do not have sufficient width or thickness to be tested on the Regular (R) Rockwell Hardness Scale, these are typically: <ul style="list-style-type: none"> very thin sheet metal strip metal wire small rounds nitride steel lightly carburized steel heavily cyanided steel tin plate other similarly configured specimens or materials.
30N	cone diamond	30 kgf (3 kgf)	
45N	cone diamond	45 kgf (3 kgf)	
15T	1/16" Ball	15 kgf (3 kgf)	
30T	1/16" Ball	30 kgf (3 kgf)	
45T	1/16" Ball	45 kgf (3 kgf)	
15W	1/8" Ball	15 kgf (3 kgf)	
30W	1/8" Ball	30 kgf (3 kgf)	
45W	1/8" Ball	45 kgf (3 kgf)	
15X	1/4" Ball	15 kgf (3 kgf)	
30X	1/4" Ball	30 kgf (3 kgf)	
45X	1/4" Ball	45 kgf (3 kgf)	
15Y	1/2" Ball	15 kgf (3 kgf)	
30Y	1/2" Ball	30 kgf (3 kgf)	
45Y	1/2" Ball	45 kgf (3 kgf)	



Accessories

