



4025 Dorchester Road, Suite 303 Niagara Falls, ON L2E 6N1 Canada

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NG-RockGen DGEN Series – Rockwell Regular, Superficial and TWIN Digital Hardness Testers

Standards

ASTM E18 and ISO 6508

Description

The [NG-RockGen](#) is designed to test the hardness of metals by determining the depth of penetration of an indenter under a large load compared to the penetration made by a preload according to the Rockwell scale. There are variations of the RockGen DGEN system for Rockwell Regular scales, Superficial Scales as well as a TWIN DGEN system capable of both regular and superficial scales. With an easy to navigate operational menu, the RockGen DGEN provides the solution for any Rockwell testing requirements. With a resolution of 0.001, the system will provide you with the absolute highest accuracy on the market.



Main Function and Features of RockGen DGEN

- High gloss and scratch resistance surface allows the unit to maintain a brand new look even after many years of use
- Large LCD Display for clear visibility of your hardness readings. Removes all aspects of human error.
- Automatic Testing procedures. System will make the indentation and provide the reading automatically.
 - The DGEN system provides a high level of repeatability when testing any parts for Rockwell hardness.

Main Application

Chilled steel, hardened and tempered steel, annealed steel, casting, malleable cast, hard alloy, hardened steel plate, aluminum alloy, bearings steel.

Technical Specifications

Model	RockGen R-DGEN Regular Scales	RockGenS-DGEN Superficial Scales	RockGen TWIN-DGEN Regular and Superficial Scales
Rockwell Scales	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRR, HRL, HRM and HRK.	HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HRD, HRE, HRF, HRG, HRH, HRR, HRL, HRM and HRK	HRA,HRB,HRC,HRD,HR E,HRF,HRG,HRH, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
Conversion Scales	HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, H15N, H30N, H45N, H15T, H30T, H45T	HRA, HRB, HRC, HRD , HRF, HV, HK, HBW , H15N, H30N, H45N, H15T, H30T and H45T	HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, H15N, H30N, H45N, H15T, H30T, H45T
Preliminary Test Force	10kg (98N)	3Kg (29.42N)	10Kg(98.0N), 3Kg (29.42N)
Total Test Force	60kg (588N), 100kg (980N), 150kg (1471N)	15Kg(147.1N),30Kg(294.2 N),45Kg(441.3N)	60Kg (588N), 100Kg (980N), 150Kg (1471N), 15Kg(147.1N),30Kg(294.2 N),45Kg(441.3N)
Hardness Data Read	Digital LCD Display		
Data Output	Built in Printer and RS-232 Port		
Maximum Specimen Height	8.5" (21.6cm) Extension Model Available upon Request up to 15.5" (40cm)		
Throat Depth (cm)	15		
Dwell Time (sec)	1 – 60		
Power Supply	110V/60Hz or 220V/50Hz		



NEXTGEN
MATERIAL TESTING

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Instrument Size (cm) (L x W x H)	18 x 6.2 x 26" (45.7 x 15.7 x 66cm)		
Instrument Weight	188 lbs (85 kgs)		
Hardness Value Range	HRA: 20-88, HRB:20100, HRC:20-70	HR15N:70-91, HR30N:42-80, HR45N:20-70, HR15T:73-93, HR30T:43-82, HR45T:12-72	HRA:20-88 HRB:20-100 HRC:20-70 HR15N:7091 HR30N:42-80 HR45N:20-70 HR15T:73-93 HR30T:43-82 HR45T:12-72
Reference Standard	ASTM E18 and ISO 6508		
Standard Accessories	Main Hardness Tester, Diamond HRC Rockwell Indenter, HRB 1/16" Diameter Hard Alloy Steel Ball Indenter, Large Testing Flat Anvil, Medium Testing Anvil and Vshaped Testing Anvil (Medium sized), Standard Hardness Blocks x3, Accessory Case, Dust-Proof Cover, Instruction Manual and Certification/Warranty card		

Main Interface

Tester

Product Name

Radio of Curvature

Range To

Hardness type

Conversion type Conversion Value

Dwell Time(S)

Hardness value

Calibration

StartReturn

Full Rockwell Scales, 30 in Total

Measurement Scale

HRA /60 /D 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



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Automatic Correction of High, Medium
Hardness Numbers

Automatic Load Correction and Low

Calibration

Scale:

Standard hardness value: Measured:

Low

Medium

High

Save Calibration

Return

Test Force Calibration

Standard kg

Mmeasured kg

Confirm Return

Data Transfer Software (Optional)

1) Setting interface

EXPORT DETAILS CLEAR LIST SETTINGS SHOW CHART ABOUT

Setting

Tester

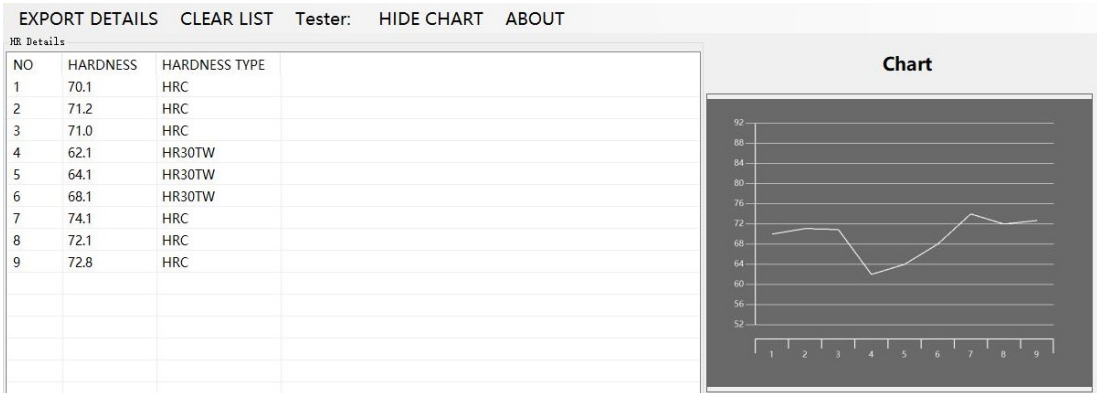
Part Name Part

Part Size Test Standard

Quality UL Quality LL

Save Cancel

2) Test result interface with chart





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3) Test report interface

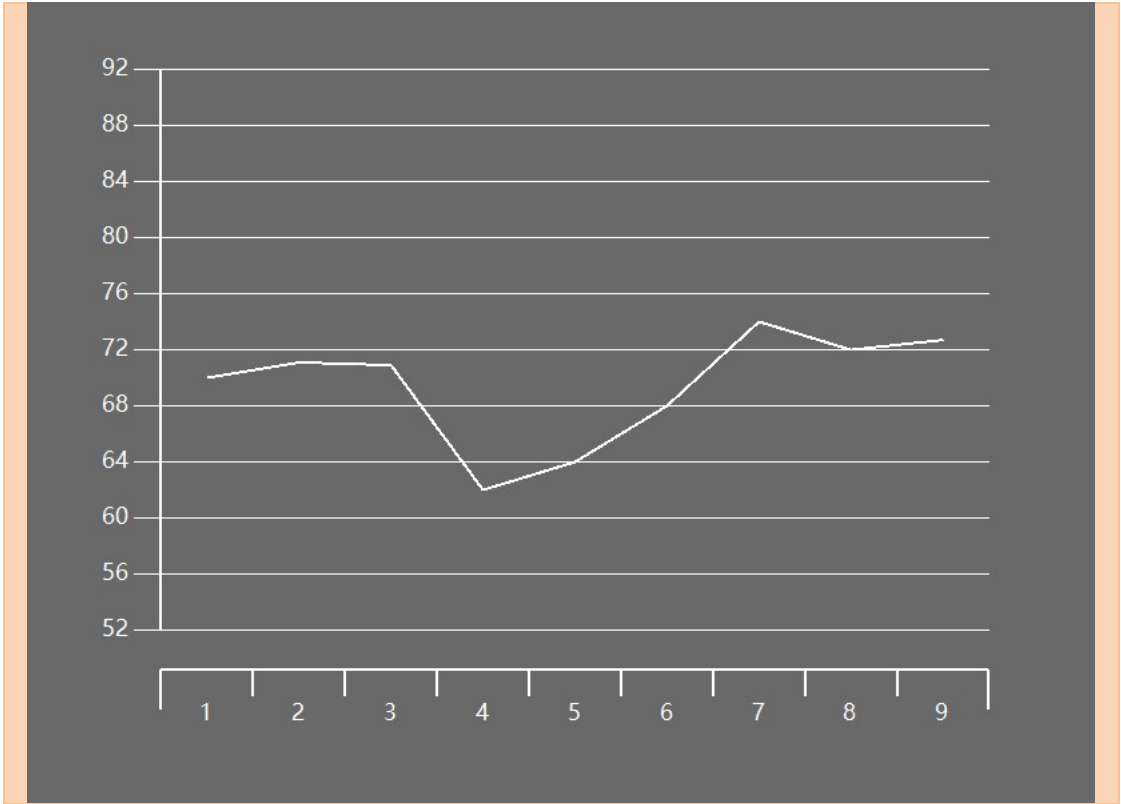
Hardness Test Report

Tester		Date	2019/09/05
Part Name		Part #	
Part Size		Test Standard	
Quality UL		Quality LL	
Test Result			
#	Hardness	Hardness Type	
1	70.1	HRC	
2	71.2	HRC	
3	71.0	HRC	
4	62.1	HR30TW	
5	64.1	HR30TW	
6	68.1	HR30TW	
7	74.1	HRC	
8	72.1	HRC	
9	72.8	HRC	



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Optional Consumables and Spare Parts

Part Number	Description of Part #
NG-101	Standard C Rockwell Diamond Penetrator Certified
NG-102	Standard N Rockwell Diamond Penetrator Certified
NG-103	Versitron' - Type C Rockwell Diamond Penetrator Certified
NG-104	Versitron' - Type N Rockwell Diamond Penetrator Certified
NG-105	Indentron' - Type C Rockwell Diamond Penetrator Certified
NG-106	Indentron' - Type N Rockwell Diamond Penetrator Certified
NG-107	C & N Combo Scale Rockwell Diamond Penetrator Certified
NG-108	C & N Combo Versitron Scale Rockwell Diamond Penetrator Certified
NG-109	C & N Combo Versitron Scale Rockwell Diamond Penetrator Certified
NG-601	1/16-inch Rockwell Ball Penetrator Unit Indentron Certified
NG-616	1/16-inch Rockwell Ball Penetrator Unit Versitron Certified
NG-618	1/16-inch Rockwell Carbide Ball Certified
NG-602	1/8-inch Rockwell Ball Penetrator Unit Indentron Certified
NG-617	1/8-inch Rockwell Ball Penetrator Unit Versitron Certified
NG-619	1/8-inch Rockwell Carbide Ball Certified
NG-603	1/4-inch Rockwell Carbide Ball Certified
NG-604	1/2-inch Rockwell Carbide Ball Certified
NG-606	1/16" BP Ames Portable



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Optional Test Blocks – Rockwell

Part Number	Description of Part #
NG-811	Rockwell Test Block, Any Scale – Any Hardness N.I.S.T Traceable Certificate, ASTM E18 and ISO 6508 Please specify your Rockwell scale as well as your desired hardness upon ordering.

Lead Time:

3-8 Weeks Depending on when the PO is placed

Special Features:

The system comes standard with the a NIST Traceable Indenter and 3x NIST Traceable Test Blocks of your desired value. Elongated throat height and depth option available on request.

*** Request a [formal quotation](#) or send an e-mail to sales@nextgentest.com for the most up-to-date pricing and applicable discounts and incentives**