



## NG-RockGen – Analogue Series Rockwell Hardness Tester – Manual and Electronic Models

Standards: [ASTM E18](#)



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### Description

The [NG-RockGen](#) Analogue Rockwell Hardness Tester 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 regular scales. TNG-RockGen Analogue Rockwell Hardness Tester is capable of testing the following Rockwell Regular Scales: HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK. The NG-RockGen Analogue Rockwell hardness tester is also capable of testing the following Rockwell Superficial Scales: HR15N, HR30N, HR45N, HR15T, HR30T and HR45T. Read more in our [MEGA BLOG!](#)



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## **Main Function and Features of Manually Operated Hardness Tester**

- High gloss and scratch resistance surface allows the unit to maintain a brand new look after many years of use
- Casted molding shell with a stable structure is resistant to minor damages
- The dial gauge reads the hardness value directly. The indicator has a sensitive response and shows the hardness value accurately
- The loading wheel is easy to adjust with the three loading test forces based on the hardness scale
- This model does not require electric power. The unit is very economical

## **Main Function and Features of the Electronically Controlled Hardness Tester**

- High gloss and scratch resistance surface allows the unit to maintain a brand new look after many years of use
- Casted molding shell with a stable structure is resistant to minor damages
- This electronic tester is utilized for thin parts and metal surfaces
- Test force load, dwell time, and load release are automated designed to eliminate human error
- The dial gauge reads the hardness value directly. The indicator has a sensitive response and shows the hardness value accurately
- The loading wheel is easy to adjust with the three loading test forces based on the hardness scale
- The machine is automated, operates with high accuracy and is designed for a long-term use



## Main Application

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

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## Technical Specifications

Model	RockGen-MR	RockGen-ER
Rockwell Regular Scales	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK	
Rockwell Superficial Scales	HR15N, HR30N, HR45N, HR15T, HR30T and HR45T	
Preliminary Test Force	10kg (98N)	
Total Test Force	60kg (588N), 100kg (980N), 150kg (1471N)	
Hardness Data Read	Dial Gauge	
Maximum Specimen Height	6.7" / 17cm	
Throat Depth	5.315" / 13.5cm	
Dwell Time	None	1 - 60 sec
Power Supply	None	110V/60Hz or 220V/50Hz
Instrument Size (L x W x H)	18 x 6.18 x 25.90" / 45.7 x 15.7 x 66 cm	
Instrument Weight	187lbs / 85kg	
Hardness Value Range	HRA: 20-88, HRB:20-100, HRC:20-70	



Model	RockGen-MR	RockGen-ER
Executive Standard	ASTM E18	
Standard Accessories	<p>Diamond Rockwell Indenter, 1.588mm diameter Hard Alloy Steel Ball Indenter, 1.588 mm diameter steel ball x5, Large Testing Flat Anvil, Medium Testing Table and V-shaped Testing Anvil (medium sized), Standard Hardness Blocks x3, accessory case, dust-proof cover, instruction, certification and warranty card.</p>	<p>Diamond Rockwell Indenter one piece, 1.588mm diameter Hard Alloy Steel Ball Indenter 1 piece, 1.588 mm diameter steel ball 5 pieces, Large Testing Table 1 piece, Medium Testing Table 1 piece and V-shaped Testing Table 1 piece, Standard Hardness Blocks 3 pieces, accessory case 1 piece, dust-proof cover 1 piece, instruction 1 piece, certification 1 piece and warranty card 1 piece.</p>