



NextGen Rockwell Regular Analog Hardness Tester NG-RockGen AGEN Series – Manual and Electronic Models



Standards

ASTM E18

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.

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.



Technical Specifications

Model	RockGen-MR AGEN	RockGen-ER AGEN
Rockwell Scale	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK
Preliminary Test Force	10kg (98N)	10kg (98N)
Total Test Force	60kg (588N), 100kg (980N), 150kg (1471N)	60kg (588N), 100kg (980N), 150kg (1471N)
Hardness Data Read	Dial Gauge	Dial Gauge
Maximum Specimen Height	17cm	17cm
Throat Depth	13.5cm	13.5cm
Dwell Time	None	1 – 60 sec
Power Supply	None	110V/60Hz or 220V/50Hz
Instrument Size	45.7 x 15.7 x 66 cm (L x W x H)	45.7 x 15.7 x 66 cm (L x W x H)
Instrument Weight	85kg	85kg
Hardness Value Range	HRA: 20-88 HRB:20-100 HRC:20-70	HRA: 20-88 HRB:20-100 HRC:20-70
Executive Standard	ASTM E18	ASTM E18
Standard Accessories	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.	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.

