NG-RockGen Analogue Series – Rockwell Hardness Tester

Standards: ASTM E18

- ULTIMATE USER-FRIENDLINESS
- LEADING DEPENDABILITY AND RELIABILITY
- STRICT COMPLIANCE WITH INDUSTRY STANDARDS
- STOCKED CONSUMABLES AND SPARES
- TRUSTED AFTER SALES TECHNICAL SUPPORT
- LIFETIME PRODUCT SUPPORT ADVANTAGE



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Description

The NG-RockGen Analogue is the dial-gauge machine in the Rockwell range. The indenter is pressed into the specimen under a preload and then under the major load, and the difference in penetration depth is read straight off the dial. It covers the Rockwell regular scales HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH and HRK, and the superficial scales HR15N, HR30N, HR45N, HR15T, HR30T and HR45T.

Two versions are available. The MR is manually operated and needs no electrical supply at all, which makes it the economical choice for a workshop that tests occasionally. The ER adds an electronically controlled cycle: force, dwell and release are automated, which is what takes operator timing out of the result and makes it the version for thin parts and surface layers..



NG-RockGen Analogue: the value is read from the dial.

NG-RockGen Analogue Features

Both versions share the frame and the reading system; the difference is what happens during the load cycle.

Direct dial reading	The dial gauge reads the hardness value directly, and the indicator responds sensitively enough to be read without interpolation.
Three test forces	The loading wheel selects between the three test forces according to the scale being used.
Cast shell	A cast moulded shell with a stable structure stands up to knocks in a workshop.
Durable finish	The high gloss, scratch-resistant surface keeps the machine looking new after years of use.
MR: no power needed	The manual version runs without electricity, which keeps it economical and usable anywhere.
ER: automated cycle	The electronic version automates test force, dwell time and load release, which removes operator timing from the result.
ER: thin work	The electronic version is the one to use on thin parts and on metal surfaces where the load has to be applied cleanly.

Materials the RockGen Analogue Tests

Chilled steel, hardened and tempered steel, annealed steel, casting, malleable cast, hard alloy, hardened steel plate, aluminum alloy and bearing steel. The scale is chosen for the material and the section: the regular scales for bulk parts, the superficial scales where the case or the sheet is too thin to carry a 331 lbs (150 kg) load.

NG-RockGen Analogue Technical Specifications

Both models share the frame, so the dimensions and the accessory set are the same; dwell time and power are what separate them. The machines are built to ASTM E18.

Specification	RockGen-MR and 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	10 kg (98 N)
Total Test Force	60 kg (588 N), 100 kg (980 N), 150 kg (1471 N)
Hardness Data Read	Dial gauge
Hardness Value Range	HRA: 20-88, HRB: 20-100, HRC: 20-70
Maximum Specimen Height	6.7″ (17 cm)
Throat Depth	5.315″ (13.5 cm)
Dwell Time	RockGen-MR: none | RockGen-ER: 1-60 s
Power Supply	RockGen-MR: none | RockGen-ER: 110V/60Hz or 220V/50Hz
Instrument Size (L × W × H)	18 × 6.18 × 25.90″ (45.7 × 15.7 × 66 cm)
Instrument Weight	187 lbs (85 kg)
Executive Standard	ASTM E18

Specification	RockGen-MR and RockGen-ER
Standard Accessories	Diamond Rockwell indenter, 1.588 mm diameter hard alloy steel ball indenter, 1.588 mm diameter steel ball ×5, large testing flat anvil, medium testing table, V-shaped testing anvil (medium sized), standard hardness blocks ×3, accessory case, dust-proof cover, instruction, certification and warranty card

Tell us whether you test occasionally or in batches, and how thin your parts are, and we will confirm whether the manual MR or the electronic ER is the right machine.

For Laboratories

Need Additional Quality Control Equipment to Build Your Laboratory?

Rockwell hardness testing is only one part of a complete quality control laboratory. NextGen can help you equip your entire lab with impact testers, notching and broaching systems, cooling chambers, tensile testers, hardness testers, specimen preparation equipment, and other supporting solutions, all coordinated as one complete project.

- One partner to equip your complete laboratory
- Installation, training, calibration
- Support for the life of the equipment

GET A QUOTE