



**NSIC**  
Registered Firm



## Automatic Rockwell Hardness Tester

**Precision Measuring Instruments Co.**



# Automatic Rockwell Hardness Tester

Model: PG-RS

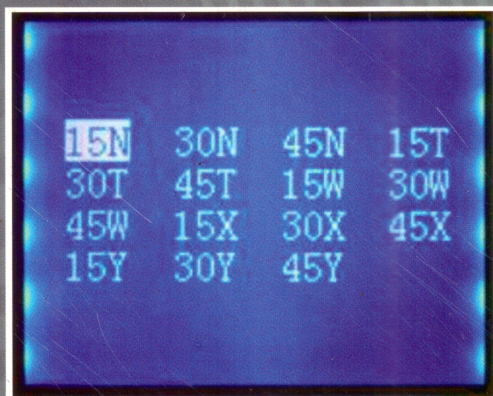


## New features:

- The test force are applied via a closed-loop control unit with a load cell, a DC motor and an electronic measurement and control unit instead of traditional dead weights. The result is highly accurate measurements at all test loads up to 0.5%.
- PnP tech. Simple plug - and - play tech allows for much more quick and easy installation than traditional weights type machine.
- Automatic testing. Just press START key once, whole process will be finished automatically. No matter the size of the sample, the position of the sample, the distance between the indenter and sample surface. The sample will be auto-lifted to approach the indenter and finishing testing automatically.
- More testing precision than handle wheel lifting type machine which effected by human factors.
- More long nose make more testing space up to 300mm\*220mm( vertical\*throat)
- Integrated casting body with more wide basement leads to permanent stability.
- With integrated micro-printer.

## Basic functions:

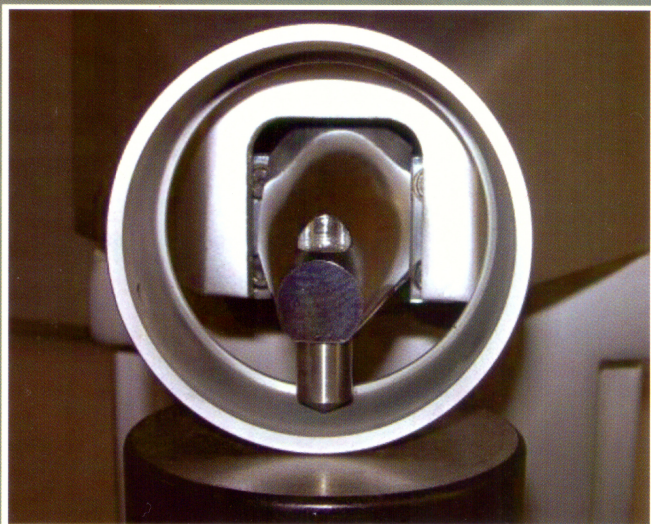
- Twin tester-Regular Rockwell & Rockwell Superficial hardness for metal and plastic material.
- Horizontal protrudent Indenter Design, suitable also for internal and external testing.
- Testing on Surfaces difficult to reach. Testing internal surface of rings and tubes.
- Provided with many features such as high measuring precision, wide measuring range with 15 Rockwell scales.
- The tester is suitable for testing of carbon steel, alloy steel, cast iron, non ferrous metal.
- Automatic testing cycle: Approaching, pre-loading, loading, dwell, unloading, result reading will be finished automatically.
- Measuring results digitally displaying and can be printed, or transmitted to external computer automatically by USB port.
- Test HR value can be convert to the value of HB, HV, HK and  $\alpha b$  value.
- The tester meets all the following standard such as ISO 6508-2, ASTM E18.



## Parameters:

- Preload: 29.4N (3kgf), 98.1N (10kgf)
- Total test force: 147.1N(15kgf), 294.3N(30kgf), 441.3N(45kgf), 588.4N (60kgf), 980.7N (100kgf), 1471N (150kgf)
- Scales: HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y  
HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV
- Load dwell duration: 2~50s, can be set and stored
- Resolution: 0.1HR
- Display: High definition backlight LCD
- Operation: Menu selectable, Membrane keypad
- Upper/lower limits setting & alarming
- Data statistics: Avg., Max., Min., S, R available
- Curved surface correcting automatically
- Memory: Max 400 items of test results stored automatically
- Testing space: 300mm in vertical, 220mm in horizontal

- Dimensions: 690mm×280mm×860mm
- supply: AC, 220V/110V, 50~60Hz, 4A
- Net weight: 86kg
- Gross weight: 120kg



### Standard configuration:

● Host machine	1	● 120° cone diamond indenter	1
● Standard hardness block for A scale	1	● Mounting screws for indenter	2
● Standard hardness block for B scale	1	● Flat anvil	1
● Standard hardness block for C scale	3	● "V" shape anvil	1
● Standard hardness block for 30N scale	1	● Power supply wire	1
● Standard hardness block for 30T scale	1	● Screwdriver for indenter mounting	1
● ball indenter (1/16")	1	● Dust cover	1



## **Precision Measuring Instruments Co.**

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