

HardRocker QR-670 Twin Rockwell Hardness Tester

- Measures all Standard & Superficial Rockwell hardness values
- Superior GR & R results
- Simultaneous conversion to HV, HB and other HR scales
- Rugged fine casted frame allowing large dimension work pieces
- ASTM, ISO, JIS compliant
- Our unique motorized load application system, auto selection of main loads depending on HR scale (QR-676 & QR-677 only)
- Superior depth measuring system through Heidenhain (Germany) transducer
- Advanced LCD touch screen & operator panel with user friendly menu operation in multiple languages High speed preload, loading and unloading procedure for ultra high efficiency
- Motorized elevating screw simplifies and speeds up test operation(QR-677 only)
- Automatic measurement procedure, load / dwell / unload (QR-677 only)
- Fully automatic positioning and measuring procedure (positioning, preload, load, dwell, unload (QR-676 and QR-677 models))
- Storage of 50 test programs and tester settings, allowing you to set up your tester in just seconds
- Alpha numerical data entry
- Continuous automatic "online" statistics, incl. average of readings etc.
- Storage of 20,000 single hardness values
- Go / No Go mode
- Convex and concave measuring mode
- Calibration date expired (reminder)
- Service mode including electronic linearity calibration, tests counter, maintenance system Prints statistics to built-in printer or external printer
- Connects with PC or SPC network via built-in bi-directional USB2 connector



The QR-677 model offers a fully automatic system for high speed production measurement.

Standard delivery includes:

- Main unit
- Built-in printer
- Data-output USB2 and RS-232C
- Diamond Rockwell indenter
- Rockwell ball indenter 1/16"
- Rockwell testing balls
- Flat testing anvil Ø 60mm
- Flat anvil Ø 150mm
- V-anvil 40mm
- Hardness test blocks:
- ±60 HRC, ±40 HRC, ±85 HRB
- Power cable Spare fuse
- Adjustable feet (4 Pcs)
- Spindle protection cover
- Machine cover Solid accessories case
- Certificate
- User and installation manual

Optional accessories

- Clamping and indenter protection nose
- UKAS, DKD, ASTM/NIST Certified test blocks
- UKAS, DKD, ASTM/NIST Indentors & balls
- Pedestal spot anvil
- Special support systems for large work pieces

Ordering Information

Product Code	Description
QR-675	Manual load Manual anvil movement
QR-676	Automatic load selection Manual anvil movement
QR-677	Automatic load selection Motorized anvil movement / Full automatic

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Technical Specifications for HardRocker QR-670 Twin Rockwell Hardness Tester

Rockwell scales Standard	- A, B, C, D, E, F, G, H, K, L, M, P, R, S, V Superficial - 15N, 30N, 45N, 15T, 30T, 45T, 15W, 30W, 45W, 15X, 30X, 45X, 15Y, 30Y, 45Y
Conversion to	HV, HB, other HR scales
Hardness resolution	0.1 or 0.01 of a Rockwell unit
Pre-load	3kgf / 10kgf
Main loads	15, 30, 45, 60, 100, 150kg
Pre-load application	Manual (automatic for QR-677)
Test force application	Fully automatic
Data output	Built in high speed printer & USB2
LCD Display	Hardness value, conversion value, test force indicator, dwell time, memory contents, all machine settings, go / no go, all statistics
Specimen accommodation	Vertical space 275mm Horizontal space (from centre of elevator) 190mm
Power supply	110/240V, 50 – 60Hz
Machine dimensions	Approx. 940mm x 390mm x 670mm (HxWxD)
Net weight	Approx. 140kg