

670 SERIES

Rockwell Hardness Tester





675
MOTORIZED



676
AUTOMATIC LOAD SELECTOR



677
MOTORIZED SPINDLE, FULL AUTO

FEATURES

- Rockwell & Superficial Rockwell hardness tester
- Simultaneous conversion to HV, HB and other HR scales
- Rugged fine casted frame with large workpiece accommodation
- ASTM, DIN-EN-ISO, JIS compliant
- Unique motorized load application system, auto selection of loads depending on HR scale (676 & 677 only)
- LCD touch screen, user interface 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 (677 only)
- Fully automatic positioning, trip and measurement procedure: trip, preload, mainload, dwell, unload (677 only)
- Storage of 50 test programs and tester settings, allowing you to set up your tester in just seconds
- Continuous automatic "online" statistics, incl. average of readings, standard deviation, etc.
- Storage of 20,000 single hardness values
- Go/No Go mode, convex and concave measuring mode
- Prints statistics to built-in printer or external printer
- Data output directly to MS Office applications such as Word and Excel
- Connects with PC or SPC network via built-in bi-directional USB2 connector



TECHNICAL SPECIFICATIONS

Rockwell scales	
Standard	A, B, C, D, E, F, G, K, L, M, P, R, 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	0.05 of a Rockwell unit
Pre-load	3kgf / 10kgf
Main loads	15, 30, 45, 60, 100, 150kg
Pre-load application	Manual (automatic for 677 ESEMATIC™)
Test load application	Fully automatic
Unload	Automatic for 677
Data output	Built-in high speed printer & USB2
LCD Display	Industrial touch screen showing hardness value, conversion value, test force, progress bar, dwell time, memory contents, all machine settings, Go/No Go, all statistics
Specimen accommodation	Vertical space 275mm; Horizontal space (from center of elevator shaft) 190mm
Power supply	110/240 volt, 50 – 60Hz
Machine dimensions	Approx. 940mm x 390mm x 670mm (HxWxD)
Machine weight	Approx. 140kg

OPTIONAL JOMINY & X-Y STAGES



Motorized stages for jominy or coordinate pattern testing on the 677. Fully automatic systems with database structures.

IMPRESSIONS™ INNOVATEST® leading hardness testing software.

ORDER DETAILS

- 675** Touch-screen, twin scale, motorized
- 676** Touch-screen, twin scale, motorized, motorized load selector
- 677** Touch-screen, twin scale, as 676 plus motorized spindle

STANDARD DELIVERY

- Built-in printer
- Data-output USB2 and RS-232C
- Diamond Rockwell indenter
- Rockwell ball indenter 1/16"
- Rockwell testing balls
- Flat anvil ø60mm
- Testing table large ø150mm
- V-anvil ø40mm
- 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
- INNOVATEST® certificate
- User and installation manual

OPTIONAL ACCESSORIES

- Reference hardness blocks
- Certified indentors & balls
- Clamping and indenter protection nose
- Pedestal spot anvil
- Special support systems for large workpieces
- Tester stand with cabinet



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