PREMIUM ROCKWELL TYPE HARDNESS TESTER EW-650 SERIES ™

LCD touch screen, superior functionality, ultra high precision, 3 models available

- Measures all standard 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
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 ESELOAD[™] unique motorized load application system, auto selection of
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 Superior depth measuring system through Heidenhain (Germany)
- Superior depth measuring system through Heidenhain (Germany) transducer
- ESETOUCHTM 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
- ESELIFT[™] (657 and 677 only) motorized elevating screw simplifies and speeds up test operation
- Automatic measurement procedure, load / dwell / unload (655 & 656 models)
- ESEMATIC[™] fully automatic positioning and measuring procedure (positioning, preload, load, dwell, unload (657 only))
- 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 EW-657 ESEMATIC[™] model features standard a fully automatic system for high speed production measurement.

Technical specifications

Rockwell scales	A,B,C,D,E,F,G,K,L,M,P,R,V
Conversion to	HV, HB, other HR scales
Hardness resolution	0.1 or 0.01 of a Rockwell unit
Pre-load	10kgf
Main loads	60, 100, 150kg
Pre-load application	Manual (automatic for 657 ESEMATIC™)
Test load 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

EW-655 ESETOUCH™	Manual load	
	Manual elavator lead screw	
EW-656 ESELOAD™	Automatic load selection	
	Manual elavator lead screw	
EW-657 ESEMATIC™	Automatic load selection	
	Manual elavator lead screw/ Full automatic	



Standard delivery

- Main unit
- Built-in printer
- Data-output USB2 and RS-232C
- Diamond Rockwell indentor
- Rockwell ball indentor 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
- ESEWAY[®] certificate
- User and installation manual

Optional accessories

- Clamping and indentor 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