

Brinell Hardness Tester EW-200 Series

High-end Brinell testing machine. German made optical system with high quality objectives with analogue reading microscope. Conversion to other hardness scales and real-time statistics. Connectivity for data output via RS-232.



EW-205
with Analogue Microscope

EW-215
Motorised Spindle

EW-220/SW1
Automatic Measurement

Features

- Load cell, closed loop system
- Test loads 30kgf - 3000kgf
- LCD display showing Brinell value, statistics and tester settings
- Simultaneous conversion to Rockwell, Vickers, Brinell and Leeb rebound testing
- Microscope with analogue scale for indentation measurement (EW-3001 model)
- Brinell microscope 20x magnification (Standard type)
- CV-HB100 Brinell video microscope system (optional)
- Brinell ESE-View automatic indent measuring system
- XL version, 390mm workpiece height, 220mm throat depth

Brinell Hardness Tester EW-200 Series



EW-205	Brinell, analogue micrometer reading
EW-210	Brinell, analogue micrometer reading, tall version
EW-215	Brinell hardness tester with XL frame and motorized spindle
EW-220/SW1	Brinell hardness tester with XL frame and motorized spindle with in-built measuring system

TECHNICAL SPECIFICATION

Brinell scale	HB 31.25, 62.5, 100, 125, 187.5, 250, 500, 750, 1000, 1500, 3000kgf
Ball indenters	10, 5, 2.5, 1mm (Optional)
Test force selection	Electronic, closed loop, load cell, force feedback system, indication in kgf or N
Test procedure	Automatic, loading/dwell/unloading
Loading speed	Variable, depending on load application
Test force accuracy	< 1% full range
User display	Diameter of indent, hardness value, converted value, test force, online statistics
Display resolution	0,1 HB
Hardness conversion	Rockwell, Vickers, Brinell, Leeb & Tensile 2 scales simultaneously
Standardisation	ISO 6506, NEN ISO 6506, ASTM E-10
Statistics	Total tests, max, min, average, range, standard deviation, all in real time after each test
Control panel	Start test, stop test, dwell time, print, clear, menu operation for date, time, scale, and load settings, language
Firmware	German, English, French (standard)
Memory	Large memory for testing results
Data output	RS-232, Bi-Directional
Loading mechanism	Fully automatic, closed loop, force feedback, loading, dwell, unloading
Dwell time setting	Default: 10 seconds, user defined 1 to 99 seconds
Eyepiece microscope	Analogue
Vertical capacity	220mm (390mm EW-210/215 model)
Horizontal capacity	220mm) from center-line
Humidity	10% to 90% non condensing
Machine weight	130kg (160kg XL model)
Power requirements	100VAC to 240VAC, 50/60Hz, single phase
Power consumption	390W
Guarantee	1 year guarantee

Standard Delivery

- Analogue microscope with 20x magnification
- V-anvil \varnothing 80mm
- Large flat anvil \varnothing 200mm
- Fuse 2A (3 pcs)
- RS-232 data output
- 4 adjustable feet
- ESEWAY certificate
- Installation and user manual

Optional Accessories

- Motorised spindle for fully automatic testing on XL models
- Large testing table 350mm x 250mm
- HB100 Video measuring and database system
- Extended height/width frame XL models
- Indenters & hardness test blocks
- Certified indenters & blocks
- Solid tester table & storage cabinet

ESE-View

High performance PC- based camera indent measuring system. Automatic measurement of the indent on the LCD screen. Store, file, handle images and data on the hard disk.