



Universal Hardness Tester ESEWAY 700 Series



ESEWAY 700 AS



ESEWAY 750LCD

EW-700-RS	Rockwell, Superficial Rockwell, HVT, HBT, Hb, Plastic ISO 2039/1
EW-700-RSB	Rockwell, Superficial Rockwell, Brinell, HVT, HBT, Hb, Plastic ISO 2039/1
EW-700-AS	Rockwell, Superficial Rockwell, Brinell, Vickers, HVT, HBT, Hb, Plastic ISO 2039/1
EW-750-LCD	Rockwell, Superficial Rockwell, HVT, HBT, Hb, Plastic ISO 2039/1
EW-750-CCD	Rockwell, Superficial Rockwell, Brinell, Vickers, HVT, HBT, Hb, Plastic ISO 2039/1

TECHNICAL SPECIFICATION

Load application	Load cell, force feedback, closed loop system
Hardness scales (RS)	Rockwell / Superficial Rockwell, HVT, HBT, Hb
Hardness scales (RSB)	Rockwell / Superficial Rockwell, Brinell, HVT, HBT, Hb
Hardness scales (AS)	Rockwell / Superficial Rockwell, Brinell, Vickers, HVT, HBT, Hb
Hardness scales (LCD)	Rockwell / Superficial Rockwell, HVT, HBT, Hb
Hardness scales (CCD)	Rockwell / Superficial Rockwell, Brinell, Vickers, HVT, HBT, Hb
Load range (RS)	1kgf to 187.5kgf
Load range (RSB/AS)	1kgf to 250kgf
Load range (LCD)	1kgf to 187.5kgf
Load range (CCD)	1kgf to 250kgf
Test loads	1, 2, 2.5, 3, 5, 10, 15, 15.625, 20, 30, 31.25, 45, 50, 60, 62.5, 100, 125, 150, 187.5, 250kgf depending on model
Vickers test range	HV1, HV 2, 3, 5, 10, 20, 30, 50, 100, 120kgf; HVT 50, 100kgf
Brinell test range	HB1/2.5, 5, 10, 31.25kgf; HB2.5/6.25, 15.625, 31.25, 62.5, 187.5kgf; HB5/25, 62.5, 125kgf; HB10/100kgf; HBT2.5/62.5, 187.5kgf
Rockwell scales	A, B, C, D, E, F, G, H, K, L, M, P, R, S, V
Rockwell superficial scales	15N, 30N, 45N, 15T, 30T, 45T, 15W, 30W, 45W, 15X, 30X, 45X, 15Y, 30Y, 45Y
Optical system (RS)	None
Optical system (RSB)	External Brinell microscope with LED ring light
Optical system (AS)	Built on electronic microscope with 3 objectives and LED ring light
Optical system (LCD)	None
Optical system (CCD)	High resolution 5Mp video camera mounted on built on Microscope
Objectives (AS, CCD)	Interchangeable 2.5x, 5x and 10x magnification with LED ring light (CCD)
Eyepiece (AS, LCD)	10x magnification (15x optional)
Scale resolution (depth)	0.1 micron
Display (RS, RSB, AS)	Full colour OLED display, testing results, statistics, built-in hardness calculator, program overview, settings, calibration and many more
Display (LCD, CCD)	Large high definition industrial touch screen can also be operated by mouse and keyboard
Standards	Complies to, or exceeds, EN/ISO, ASTM and JIS
Test cycles	Fully automatic, Load, Dwell, Unload
Force control	1-99 seconds
Data output	USB-2, RS-232 (RS, RSB, AS) RJ-45 LAN, W-LAN (LCD, CCD)
Specimen accommodation	Height 300mm Throat 200mm

Standard Delivery

- Brinell microscope with LED ring light for dark field illumination (AS, RSB, CCD)
- Objectives for 37.5x, 75x and 150x magnification (AS, CCD)
- Sliding testing table (AS, CCD)
- Flat anvil, hardened, ϕ 60mm
- Testing table, hardened, ϕ 180mm
- V-anvil hardened ϕ 40mm
- Fuse 3A slow (2 pcs)
- Power cable
- Eseyway certificate
- Installation and user manual

Optional Accessories

- Knoop hardness testing scale (CCD)
- V-Anvil 60mm
- Certified indenters
- Certified or factory reference hardness blocks
- Long indenters
- Goose neck indenter holder
- Large testing table 300 x 200mm with T-slot
- Custom testing tables
- Precision vices, V-blocks and special clamps