

MODEL FH-1

Rockwell and Universal Hardness Testing Machine



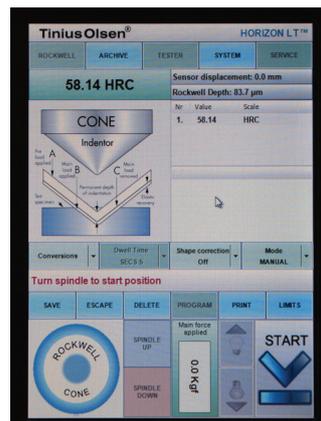
Model FH-1-4 Rockwell/
Superficial Rockwell
hardness tester

Features and benefits

- Load cell, force feedback, closed loop system.
- Unparalleled rigidity.
- Unmatched gauge repeatability and reproducibility.
- Load range 1kgf up to 250kgf (2.2lbf up to 551lbf).
- Complies with all applicable EN/ISO, ASTM, and JIS standards.
- Shape correction settings for curved surfaces.
- Optical depth measuring system (Rockwell, HBT, HVT, ball indentation for plastic ISO 2039/1).
- 6.5in industrial full color touchscreen display; user-friendly interface, easy to operate.
- Go/No Go function with visual and acoustic warning.
- Large memory for measurements with statistic results.
- Easy calibration function.
- Testing program storage.
- Standard nose cone clamping attachment.
- Nine-pin serial and USB-2 outputs.
- External Brinell palm scanner II with LED backlight (FH-1-5 model).
- Large workpiece accommodation.
- Motorized spindle (optional).

MODEL DETAILS

- **FH-001-0004** 1-250kgf Rockwell Superficial Rockwell HVT, HBT, ISO 2039/1
- **FH-001-0005** 1-250kgf Rockwell Superficial Rockwell Brinell, HVT, HBT



Specifications



FH-1 SPECIFICATIONS	
Load application	Load cell, force feedback, closed loop system
Hardness scales FH-1-4	Rockwell/Superficial Rockwell, HVT, HBT, ball indentation for plastic ISO 2039/1
Hardness scales FH-1-5	Rockwell/Superficial Rockwell, Brinell, HVT, HBT, ball indentation for plastic ISO 2039/1
Load range FH-1	1-250kgf (2.2-551lbf)
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 (2.2, 4.4, 5.5, 5.51, 6.6, 11, 22, 33, 34, 44, 66, 69, 79, 110, 132, 138, 220, 276, 331, 413, 551lbf) depending on model
Brinell test range	HB1/2.5, 5, 10, 31.25kgf (5.5, 11, 22, 69lbf) HB2.5/6.25, 15.625, 31.25, 62.5, 187.5kgf (14, 34, 69, 138, 413lbf) HB5/25, 62.5, 125kgf (55, 138, 276lbf) HB10/100kgf (220lbf), 10/250kgf HBT2.5/62.5, 187.5kgf (138, 413lbf)
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
Plastic ball indentation	Meets or exceeds the requirements of ISO 2039/1
Scale resolution (depth)	0.1 micron
Display	6.5in full color industrial touch screen, testing results, statistics, can also be operated by mouse and keyboard
Standards	Complies with, or exceeds, EN/ISO, ASTM, and JIS standards
Test cycles	Fully automatic, Load, Dwell, Unload
Dwell time	1-99 seconds
Data output	USB-2 (RS232), RJ45 ethernet
Specimen accommodation	Height 300mm (11.81in) Throat 200mm (7.87in)
Operating temperature range	10-35°C (50-95°F)
Operating humidity range	10-90% non-condensing
Weight	96kg (211lb)
Power	100V to 240VAC, 50/60Hz, single phase

STANDARD ACCESSORIES

- Brinell palm scanner II with LED backlight for dark field illumination of 0-1.7mm FoV (FH-1-5)
- Flat anvil, hardened, \varnothing 60mm (2.36in)
- V-anvil hardened \varnothing 80mm (3.6in)
- Fuse 3A slow (2 pcs)
- Power cable
- Certificate
- Installation and user manual
- Wireless mouse & keyboard

OPTIONAL ACCESSORIES

- Certified hardness test blocks
- Certified indenters
- Long indenters
- Large testing table with T-slot
- Custom testing tables
- Precision vices, V-blocks, and special clamps
- Testing table, hardened, \varnothing 180mm (7.09in)
- Manual X-Y stage 100 x 60mm; micrometer travel 25 x 25mm
- Motorized spindle option
- Brinell palm scanner I, 1.5-6mm FoV

