

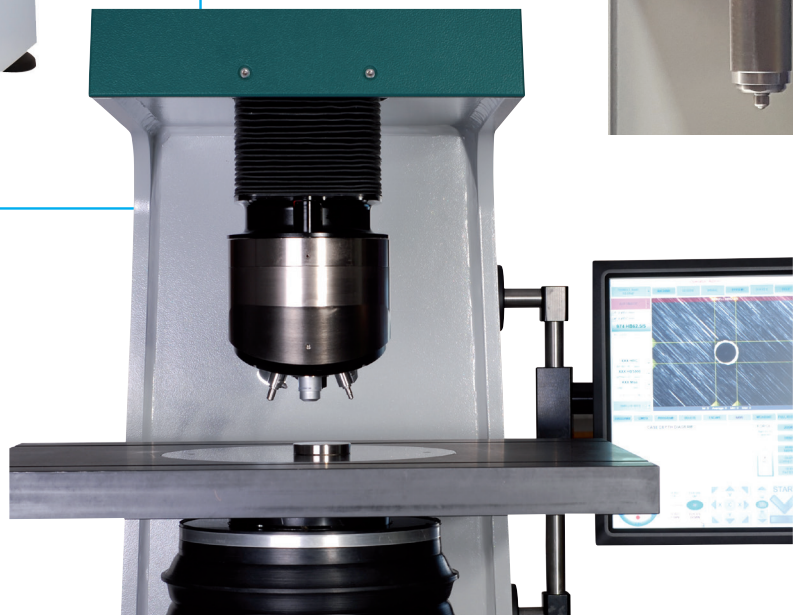
MODEL FH12

UNIVERSAL HARDNESS TESTER




KEY FEATURES

- Rockwell, Superficial Rockwell, Vickers, Knoop, Brinell, Ball indentation, HVT and HBT scales
- Superior range of testloads/force application ranging from 500gf to 3000kgf (1.1 lbf to 6614 lbf), over 3 models
- Motorized Z axis (standard)
- Descending test head with automatic workpiece detection
- Free definable, manual or motorized 6 position turret for objectives and indentors at choice
- High Definition optical system for images of 0.7x to 1000x magnification
- PC based HORIZON hardness testing firmware and database file system, standard
- Large, adjustable 15" (381 mm) industrial touch screen (or mouse with normal 22" (558.8 mm) LCD screen at choice)
- Automatic or manual focus, manual or fully automatic indent measurement, standard
- Testing procedure and results storage on 500GB harddrive.
- LAN, WLAN, USB-2, RS-232, Printer and DVI connectivity, standard
- On board built-in driver for (optional) motorized X-Y stage, standard
- Free definable test patterns case depth, traverse, free style, etc., optional
- Large range of optional accessories
- Raise and lower upto 600kg specimen (standard)
- 650 x 500mm T-slot table for exceptional support of test specimen.



FH12 Specifications

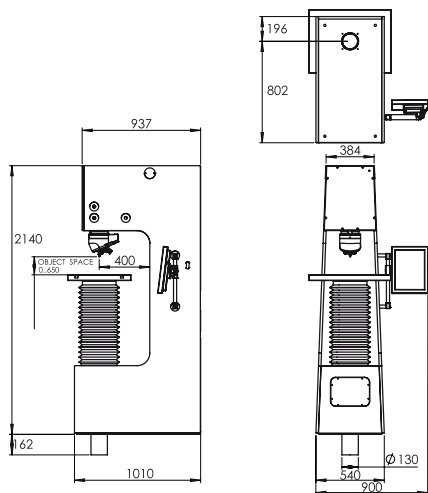
Hardness scales	Rockwell, Superficial Rockwell Vickers, Brinell, HVT, HBT
Hardness resolution	0.01 Rockwell, 0.1 Vickers, 1 Brinell
Load application	Load cell, force feed back, closed loop system
Load range	1 kgf/9.8 N/2.2 lbf – 250 kgf/2.45 kN/551 lbf, 3 kgf/29 N/6.6 lbf – 750 kgf/7.35 kN/1654 lbf, 10 kgf/98 N/22 lbf – 3000 kgf/29 kN/6614 lbf
Motorized turret	3 indenter positions; 3 objectives positions
Optical system	High definition, 5 Mp machine Vision system
Objectives	3 installed for 0.7x - 1000x magnification
Electronic system	High performance built-in PC based Controller, Windows 7, 15" (381 mm) full color touch screen, automatic and manual measurement
Standards	Complies to all applicable EN/ISO and ASTM standards
Brinell test range (Model dependent)	1 kgf/9.8 N/2.2 lbf - 3000 kgf/29 kN/6,600 lbf HB1: 1, 2.5, 5, 10, 30 kgf HB2.5: 6.25, 15.62, 31.25, 62.5, 187 kgf HB5: 25, 62.5, 125, 250 kgf HB10: 100, 250, 500, 750, 1000, 1500, 3000 kgf HBT: 5, 250 kgf
Rockwell test scales (Model dependent)	A, B, C, D, E, F, G, H, K, L, M, P, R, S, V, 15N, 30N, 45N, 15T, 30T, 45T, 15W, 30W, 45W, 15X, 30X, 45X, 15Y, 30Y, 45Y
Vickers test range	1 kgf/9.8 N/2.2 lbf – 120 kgf/1176 N/265 lbf (depending on model)
Test cycles	Automatic and Manual
Force control	2- 99 seconds
Connectivity	USB-2, Blue tooth, WLAN, LAN
Specimen accommodation	Vertical capacity maximum height: 650 mm (25.5"), Horizontal capacity maximum throat: 400 mm (15.7")
Power supply	100 to 240VAC, 50-60 Hz Single phase
Operating Temperature Range	5° to 40°C (41° to 104°F)
Operating Humidity Range	10% to 90% non-condensing
Weight	1100 kg (2425 lbs)

Standard Features For All Models

- Motorized turret with 6 positions (Universal Models)
- T-slot testing table 650 x 500mm
- Objectives for 0.7x - 1000x magnification (Universal Models)
- Single Indenter Position(models FH...27, 29, 34, 35)
- 5MPx palm scanner (Brinell only models)
- Built-in 3 axis support driver
- Toolset
- Large testing table
- Certificate
- Operation manual

Optional Features For All Models

- Testing table ø235 mm (9.25")
- V-Anvil ø80 mm (3.15") for 3.3 to 20 mm
- V-Anvil ø80 mm (3.15") for 12 to 80 mm
- V-Anvil ø120 mm (4.72") for 20 to 140 mm
- Manual XY-stages
- Certified indenters
- Certified hardness test blocks
- Testing table ø150 mm (5.9")



Model Details

FH012-0000	1-250kgf	Universal Hardness
FH012-0001	3-750kgf	Universal Hardness
FH012-0002	10-3000kgf	Universal Hardness
FH012-0027	1-250kgf	Rockwell, Superficial Rockwell
FH012-0029	10-3000kgf	Rockwell, Brinell
FH012-0034	3-750kgf	Brinell
FH012-0035	10-3000kgf	Brinell