

NEXUS 3100

Brinell Hardness Tester

MANUAL & SEMI-AUTOMATIC



SPECIFICATIONS

Hardness scales	Brinell
Load application	Load cell, closed loop, force feedback
Load range	62.5kgf - 3000kgf
Brinell microscope	Analogue Brinell indent measuring microscope (20x of 40x)
Z-Axis	Manual or motorized
Clamp	Optional clamp to protect indenter and fix workpiece to anvil or stage
Software	i-Touch. No. of tests, Mean, St. Deviation, Min., Max., Range, individual readings list, storage memory, Dwell time, test force setting, scale selection, calibration etc.
Hardness conversion	Rockwell, Vickers, Brinell, Leeb and Tensile 2 scales simultaneously
Brinell scales	HBW 2.5/62.5, HBW 2.5/187.5, HBW 5/62.5, HBW 5/125, HBW 5/250, HBW 5/750, HBW 10/100, HBW 10/125, HBW 10/250, HBW 10/500, HBW 10/1000, HBW 10/1500, HBW 10/3000
Dwell time setting	Default 10 seconds, user defined 1 to 99 seconds
Indenters	Certified indenters (ISO / ASTM) available at choice
Test procedures	Automatic, loading, dwell/unloading
Standards	Complies to or exceeds, ISO, ASTM, JIS (Nadcap) standards
Statistics	Total tests, max, min, average, range, standard deviation, all in real time after each test
Test force tolerance	<0.5%
Control/Display	6.5" full color touch screen, embedded
Display resolution	0.01HB
Working height / throat depth	220mm / 220mm
Connectivity	USB
Operating temperature	10°C to 35°C, non-condensing
Humidity	10% to 90% non-condensing
Machine dimensions	227mm x 620mm x 785mm
Machine weight	130 kg
Power supply	100V AC to 240V AC, 50Hz/60Hz, single phase