

# NEXUS 3100

Brinell Hardness Tester

**MANUAL & SEMI-AUTOMATIC**



# SPECIFICATIONS

<b>Hardness scales</b>	Brinell
<b>Load application</b>	Load cell, closed loop, force feedback
<b>Load range</b>	62.5kgf - 3000kgf
<b>Brinell microscope</b>	Analogue Brinell indent measuring microscope (20x of 40x)
<b>Z-Axis</b>	Manual or motorized
<b>Clamp</b>	Optional clamp to protect indenter and fix workpiece to anvil or stage
<b>Software</b>	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.
<b>Hardness conversion</b>	Rockwell, Vickers, Brinell, Leeb and Tensile 2 scales simultaneously
<b>Brinell scales</b>	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
<b>Dwell time setting</b>	Default 10 seconds, user defined 1 to 99 seconds
<b>Indenters</b>	Certified indenters (ISO / ASTM) available at choice
<b>Test procedures</b>	Automatic, loading, dwell/unloading
<b>Standards</b>	Complies to or exceeds, ISO, ASTM, JIS (Nadcap) standards
<b>Statistics</b>	Total tests, max, min, average, range, standard deviation, all in real time after each test
<b>Test force tolerance</b>	<0.5%
<b>Control/Display</b>	6.5" full color touch screen, embedded
<b>Display resolution</b>	0.01HB
<b>Working height / throat depth</b>	220mm / 220mm
<b>Connectivity</b>	USB
<b>Operating temperature</b>	10°C to 35°C, non-condensing
<b>Humidity</b>	10% to 90% non-condensing
<b>Machine dimensions</b>	227mm x 620mm x 785mm
<b>Machine weight</b>	130 kg
<b>Power supply</b>	100V AC to 240V AC, 50Hz/60Hz, single phase