

General Description	<p>Bench top type multiunit automatic hardness tester.</p> <p>Automatic support for the housing of four units fitted with automatic sample lifting system. At a time 4 units (Sh.A, Micro Sh.A, Sh.D, and IRHD) shall be installed and test shall be performed by rotating the support.</p>
Unit control	<p>Automatic hardness units shall be controlled by electronic console and software.</p>
Control Console	<p>Colour Touch screen display for the control of automatic hardness unit which permits the selection of hardness unit (Type of indenter)., perform automatic multiple test in different point of the same sample, set the number of tests to be performed automatically and the rotation angle between one test and the next one, Set hardness test time, display the test result at the end of the test time, start and stop the automatic execution of the test.</p>
Operating Software in English along with data acquisition system	<p>System should be loaded with latest licensed full data acquisition software which permits:</p>

	<p>1. Execution of a customer defined number of tests in different point of the sample with customer defined test time.</p> <p>2. Analysis of hardness relaxation curve.</p> <p>3. Statistical analysis of results</p> <p>4. The software shall be compatible with latest OS.</p> <p>5. Software shall permit all the activities mentioned in the control console.</p> <p>6. Compatible latest desktop/ Laptop for fast data acquisition and processing (Make: HCL/Dell/HP) with laser jet printer & latest operating system is also under suppliers scope. 8GB RAM minimum, 1TB HDD. Dual LAN card for connecting instrument and other to Local area net work</p>
Sample holder with automatic rotation	Sample holder with motor controlled rotation. The device has to be installed on the machine and permits to perform automatic multiple test in different points of the same sample.
Magnifying lens	Magnifying glass with metal frame. Scratchproof and solventresistant lens with magnification of five

	times. Lens diameter should be minimum 75mm with enlarged magnification area with a diameter of 20mm.
Dimension of the test specimen	The machine shall be capable to hold the specimen of thickness 1.5mm minimum to perform hardness measurement.
Power supply	230 V +/-10%, 50-60 Hz, single phase