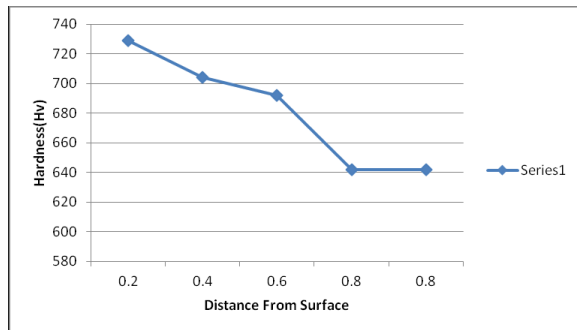


## Micro Vickers Hardness Tester

### Fully Automatic

#### Features:

- Motorized X-Y & Z motion
- Autofocus & auto reading
- Manual override for all automation
- Automatic effective case graph generation
- Load range – 1 gms to 3000 gms optional



### Specification:

|                                  | (Manual)  | (Digital)  | (Semi Auto)  | (Auto)                                       |
|----------------------------------|---|--|--|--|
| Test Loads                       | 10 gms – 1000 gms,<br>10,20,50,100,200,300,400,500,1000gmf                              |  | 5 gms – 2000 gms(10 steps)<br>5,10,20,50,100,200,300,400,500,1000,2000gmf<br>optional (12 steps), optional load – 1gm, 3gms,<br>3000gm |  |
| Accuracy Conforming              | ASTM, EN-ISO  |  |  |  |
| Load Selection                   | Manual  |  | Automatic through LCD pannel   |  |
| Approach Velocity                | 50 Mic/sec (optional – variable 5-60 microns/sec)                                       |  |  |  |
| Dwell                            | 5 - 99 Sec.   |  |  |  |
| Objectives                       | Measurement 40x, observation 10x (optional – 2.5x, 5x, 20x, 50x, 60x, 80x, 100x)        |  |  |  |
| Turret                           | Manual  |  | Motorized  |  |
| Measurement                      | Manual fillar<br>micrometer eyepiece  | Digital fillar micrometer eyepiece [ 10x ] (omron corporation japan) |  |  |
| Max. specimen dim                | Height 65mm, depth 85mm approx.   |  | Height 100mm, depth 85mm approx.   |  |
| Test table                       | Manual  |  |  | Motorized stage                              |
|                                  | Dimensions – 100 x 100 mm (optional 150 x 150mm)<br>Max. movement – 25 mm in x & y axis |  |  |  |
| Stage lifting / focusing         | Manual  |  | Manual (optional<br>motorized)   | Motorized                                    |
| Operation panel                  | Key pad   |  | LCD touch screen   |  |
| Up-grading to fully<br>automatic | NA  |  | X-Y-Z motorized with<br>auto-stage program and<br>autofocusing   |  |
| Manual overrides                 | NA  |  | For turret and load<br>selection   | Turret, load selection<br>and X-Y-Z movement |
| Illumination                     | 6 volt 20watts halogen / LED  |  |  |  |
| Light filter                     | Green   |  |  |  |
| Power supply                     | AC 220 V, 50Hz  |  |  |  |
| Weight                           | Approx. 40 Kg.  |  | Approx. 60 Kg.   |  |
| Operating temperature            | Range: 10 <sup>0</sup> C to 39 <sup>0</sup> C   |  |  |  |



**MANUAL**



**DIGITAL**



**AUTO**



**SEMI AUTO**

**Application:**

- Effective case depth measurement
- Phase hardness
- Thin plating hardness
- Ceramics hardness
- Composite material hardness
- Hardness graph for welding
- Particle size hardness
- 1 gm load hardness
- Fracture toughness
- Nitride layer hardness