



CL TECH AND SUPPLY CO.,LTD.

27/92 Soi Arthornupatum , Pracharad 1 Rd., Bangsue , Bangkok 10800

Tel : 0-2587-3752

Fax : 0-2912-5223

Web Site : www.cltech.co.th E-Mail : sales@cltech.co.th

Vicker Hardness Tester

Automatic hardness tester for Rockwell, Brinell, Vickers and CHD test methods in compliance with ASTM and ISO hardness standards. The LD 3000 AF is built for measuring the thickness of the superficial hardness and will determine (CHD) Case Hardness Depth from 0.12 mm to 2 mm, with no need to destroy the specimen or to separate material types before performing the test. With just one measurement it reduces hardness testing time and costs compared to traditional polished cross section of Vickers and knoop methods. Load forces are applied through load cells and electronically controlled in Closed Loop (Pat. Affri). This hardness tester is entirely motorized and it is equipped with a wide touchscreen for ease in test planning and a clear view of results. Statistics and CHD charts are automatically generated and can be stored with the test session in the large archive. User friendly interface with conversion tables and round correction values for tests on convex cylindrical surfaces or various diameters. For hardness case depth test with non-destructive method on all metals: Iron, steel, tempered steel, cast iron, brass, aluminum, copper and metal alloys. Heat treatment, hardening, nitriding, cementation and hardfacing.

Specification

Test loads: from 10 to 3000 kgf (From 29,4 to 29403 N)

CHD: 525 - 550 - 600 - 650

Vickers ISO 6507 / ASTM E-384 (Only indentation): HV3 - HV5 - HV10 - HV20 - HV30 - HV50 - HV100

Brinell HBWT ISO 6506 / ASTM E-10: HBWT2.5/62.5 - HBWT2.5/187.5 - HBWT5/125 - HBWT5/250 - HBWT5/750 - HBWT10/500 - HBWT10/1000 - HBWT10/1500 - HBWT10/3000 - HBW1/10 - HBW1/30 - HBW2.5/62.5 - HBW2.5/187.5 - HBW5/25 - HRW5/62,5 - HBW5/125 - HBW5/250 - HBW5/750 - HBW10/100 - HBW10/250 - HBW10/500 - HBW10/1000 - HBW10/1500 - HBW10/3000

Rockwell ISO 6508 / ASTM E-18: HRA - HRB - HRC - HRD - HRE - HRF - HRG - HRH - HRK - HRN - HRT

| | LD 3000 AF |
|-----------------------------------|---|
| Standards | EN-ISO 6508 / EN-ISO 14577 / ASTM E-18 / ASTM E-384 |
| Indenter and clamping-hood stroke | 30 mm |
| Elevating screw stroke | 150 mm |
| Depth capacity | 190 mm |
| Test loads | <p>Vickers: 98.07 - 147.1 - 294.2 - 490.35 - 980.7 N (10 - 15 - 30 - 50 - 100 kgf)</p> <p>Brinell: 98.07 - 153.2 - 294.2 - 306.5 - 612.9 - 1839 - 2450 - 4900 - 7350 - 9807 N (on request 29403 N)</p> <p>(10 - 15.6 - 30 - 31.2 - 62.5 - 187.5 - 250 - 500 - 750 - 1000 kgf) (on request 3000 kgf)</p> |



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|----------------|--|
| | <p>Rockwell: 588.4 - 980.7 - 1471 N (60 - 100 - 150 kgf)</p> <p>Superficial Rockwell: 147.1 - 294.2 - 441.3 N (15 - 30 - 45 kgf)</p> |
| Feasible tests | <p>HDTL curve CHD: 525 - 550 - 600 - 650</p> <p>Vickers: HV10 - HV15 - HV30 - HV50 - HV100</p> <p>Brinell HBWT: HB30 - HB10 - HB5 - HB2.5 MPa (F/D2)</p> <p>Rockwell: HRA - HRB - HRC - HRD - HRE - HRF - HRG - HRH - HRK</p> <p>Superficial Rockwell: HRN - HRT</p> |
| Accuracy | Better than 0.5 % |

