



HARDNESS TESTERS-CUSTOMIZED SOLUTIONS

MICRO PIXEL - D1



TEST LOADS:**Vickers:**

0.980 - 1.961 - 2.942 - 4.903 - 9.807 - 19.61 -
29.42 - 49.03 - 98.07 - 196.1 - 294.2 N (0.1 -
0.2 - 0.3 - 0.5 - 1 - 2 - 3 - 5 - 10 - 20 - 30 Kgf)

Knoop:

0.980 - 1.961 - 2.942 - 4.903 - 9.81 N
(0.1 - 0.2 - 0.3 - 0.5 - 1 Kgf)

Brinell:

9.81 - 24.52 - 49.03 - 98.07 - 294.2 - 306.5 N
(1 - 2.5 - 5 - 10 - 30 - 31.25 Kgf)

HARDNESS TESTS AVAILABLE:**Vickers:**

HV 0.1 - HV 0.2 - HV 0.3 - HV 0.5 - HV 1 - HV 2 -
HV 3 - HV 5 - HV 10 - HV 20 - HV 30

Knoop:

HK 0.1 - HK 0.2 - HK 0.3 - HK 0.5 - HK 1

Brinell:

HBW 1/1 - HBW 1/2.5 - HBW 1/5 - HBW 1/10 -
HBW 1/30 - HBW 2.5/31.25

SCOPE OF APPLICATION:

To perform single micro and macro Vickers, Knoop and Brinell hardness tests on ferrous and non-ferrous metals such as: iron, steel, tempered steel, cast iron, brass, aluminium, copper and metal alloys. Heat treatments, hardened and nitrided materials. Tests on ceramics and glass.

REFERENCE STANDARDS:

ISO 6506, ISO 6507, ISO 4545,
ASTM E10, ASTM E92, ASTM E384

POWER SUPPLY:

115/230VAC - 50÷60Hz

DIMENSIONS:

Vertical capacity: 142 mm

Depth capacity: 162mm

Weight: 70Kg

TEST CYCLE:

Manual focus, automatic hardness measurement
(possibility of manual measurements available)

OPTICAL SYSTEMS:**3-position motorized turret with:**

- **Optical lenses:** No. 2 included - 10X and 40X as default setting
- **Indenters:** No. 1 included - Vickers

Energy-saving LED lighting to guarantee a natural-coloured vision

High-definition 5 MP camera with 3.0 USB connection

IT SYSTEM:

Microsoft Windows 10®

Keyboard, mouse and 24" full HD monitor included

SOFTWARE:

Vx®

Data output: USB, RS 232C, Ethernet

Data export and backup as .pdf, .xls, .xml, .txt, and .csv files

OPTIONAL ACCESSORIES AND CUSTOMIZATIONS:

Further lenses available to be installed: 5X and 20X
(default setting replacement)

Further indenters to be installed:

Knoop; Ø1mm ball and Ø2.5mm ball (default setting replacement)

Customizable test loads: up to 50 kgf or 62.5 kgf

