



HARDNESS TESTERS-CUSTOMIZED SOLUTIONS

# MICRO PIXEL - D5



**Vickers:**

HV0,01 - HV0,015 - HV0,02 - HV0,025 - 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 - HV50

**Knoop:**

HK0,01 - HK0,02 - HK0,025 - HK0,05 - 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

**TEST LOADS:**

**Vickers:**

0,098 - 0,147 - 0,196 - 0,245 - 0,980 - 1,961 - 2,942 - 4,903 - 9,807 - 19,61 - 29,42 - 49,03 - 98,07 - 196,1 - 294,2 - 490,3 N (0,01 - 0,015 - 0,02 - 0,025 - 0,1 - 0,2 - 0,3 - 0,5 - 1 - 2 - 3 - 5 - 10 - 20 - 30 - 50 Kgf)

**Knoop:**

0,098 - 0,196 - 0,254 - 0,490 - 0,980 - 1,961 - 2,942 - 4,903 - 9,81 N (0,01 - 0,02 - 0,025 - 0,05 - 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)

**SCOPE OF APPLICATION:**

To perform single and multiple 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:**

110 mm using XY table  
180 mm without XY table

**Depth capacity:** 162mm

**Z axis stroke:** 40 mm

**Weight:** 70kg

**TEST CYCLE:**

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

**OPTICAL SYSTEMS:**

**5 position motorized turret with:**

- **Optical lenses:** No. 4 - 2.5X, 10X, 20X e 40X
- **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 Image®**

**Micrometrical XY table with digital indicators;**

**Users management:** different access levels to software setup;

**Sample profiles detection feature;**

**Data output:** USB, RS 232C, Ethernet;

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

**OPTIONAL ACCESSORIES AND CUSTOMIZATIONS:**

**Further indenters to be installed:**

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

**Customizable test loads:** up to 1gf; 5gf or 62,5kgf

