

# MicroMet® 6000 Series

## Hardness Tester

MicroMet 6000 is a series of micro-indentation hardness testers. They offer a versatile, affordable, and reliable solution for accurate micro-hardness scale testing both for quality control and metallurgical research with dead-weight loads from 0.01-1kg with a 2kg option.

The product was designed so that an experienced hardness testing operator can use the instrument immediately without training.



### Features

- Ease of use with hybrid UI
- Touch screen for set-up
- Hard-switch controls for daily operation
- All system settings available within 3 menu steps
- USB interfaces for data export and automation
- LED illumination
- Full OmniMet® MHT integration

### Applications

- Ferrous, steels, and non-ferrous metals
- IC wafers
- Thin plastics, metal foils & laminates, platings, coatings, surface layers
- Heat treatment effects, case hardening
- Hardness depth of carburized layers
- Ceramics & Carbides
- Hardness resulting from welding or deposition



**BUEHLER**

Excellent Results. Easily Repeatable.™

Product	Part-Number	Load	Turret Capacity	Indent. Incl.	Optics Incl.	XY Stage	Automation
MicroMet 6010	1600-1-6010	0.01-1kg	3 (1I, 2O)	Vickers	10,50 (R)	Analog	No
MicroMet 6020	1600-1-6020	0.01-1kg	3 (1I, 2O)	Vickers	10,50 (R)	Analog	Possible
MicroMet 6020	1600-1-6021	0.01-1kg	3 (1I, 2O)	Knoop	10,50 (R)	Analog	Possible
MicroMet 6030	1600-1-6030	0.01-1kg	4 (1I, 3O)	Vickers	5,10,50 (R)	Digital	Possible
MicroMet 6030	1600-1-6031	0.01-1kg	4 (1I, 3O)	Knoop	5,10,50 (R)	Digital	Possible
MicroMet 6030	1600-1-6032	0.01-1kg	4 (1I, 3O)	Vickers	5,10,50 (R)	None	Possible
MicroMet 6040	1600-1-6040	0.01-1kg	6 (2I, 4O)	V & K	5,10,50 (L)	Digital	Possible
MicroMet 6040	1600-1-6041	0.01-1kg	6 (2I, 4O)	V & K	5,10,50 (L)	None	Possible

## HARDNESS TESTING ACCESSORIES

**Indenters**

**1600-1-0001**, Vickers indenter 136°, incl ASTM & ISO certificate

**1600-1-0002**, Knoop indenter 172°, incl ASTM & ISO certificate

**1600-1-0003**, Vickers 136°, incl DKD certificate according to ISO standard (HV0,2-HV5)

**1600-1-0004**, Vickers 136°, incl DKD certificate according to ISO standard (HV0,01-HV0,2)

**1600-1-0005**, Knoop 172°, incl DKD certificate according to ISO standard

**Objectives**

**1600-1-0008**, 5X Long Working Distance objective

**1600-1-0009**, 10X Long Working Distance objective

**1600-1-0010**, 20X Long Working Distance objective

**1600-1-0011**, 40X Long Working Distance objective

**1600-1-0012**, 50X Long Working Distance objective

**1600-1-0013**, 100X Long Working Distance objective

**Options**

**1600-1-0017**, Extended load option 2kg

**1600-1-0006**, Manual XY-stage with analog metric micrometers

**1600-1-0007**, Manual XY-stage with digital micrometers

**Vises**

**1600-2410**, Standard self-leveling vise with 1", 1.25", and 2" rings

**1600-2253**, Universal Vise 2" (50mm)

**1600-2251**, Clamping Device for Thin Specimens

**1600-1-0020**, Universal Clamp And Leveling Device

**1600-1-0028**, Rotary Table

**1600-1-0025**, "V" Testing Cradle

**Calibration Services:**

Buehler's lab and field calibration services are accredited to ISO/IEC 17025 by A2LA for Vickers, Knoop, and Rockwell hardness testing instruments. For in-house or on-site calibration services please contact your Buehler representative!

- Eyepiece 10x with digital filar for measuring
- Motorized turret, 3 (1I, 2O), 4(1I, 3O) or 6(2I, 4O) positions
- Long work distance LWD optics minimizes risks
- XY Stage, manual with micrometers or motorized with software control
- Hybrid UI. Touchscreen LCD for setup and data. Hard buttons for daily use and operation
- Optional camera for software integration
- HK0.01-HK1 (loads in kg, HV2 option also available)
- Optional motorized z-axis controller inside tester
- Manual z-axis control
- USB data output
- Power: 110/220 V, 50/60 Hz; Weight: 88lbs (40kg); Dimensions: 20.5"x20.5"x9" (520x520x230 mm) Accommodates Samples: 125mm Height, 130mm depth indenter to frame

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