

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

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

**BUEHLER**

BUEHLER®, a division of Illinois Tool Works Inc.
– Worldwide Headquarters

41 Waukegan Road
Lake Bluff, Illinois 60044-1699 USA
Tel: (847) 295-6500 • Fax: (847) 295-7979
Sales: 1-800-BUEHLER (1-800-283-4537)
www.buehler.com
Email: info@buehler.com

BUEHLER GmbH - European and MESA Headquarters

In der Steele 2 • 40599 Düsseldorf
Telefon: (49) 211 974100 • Telefax: (49) 211 9741079
www.buehler-met.de
Email: info@buehler-met.de

BUEHLER FRANCE

Téléphone: 0800 89 73 71
Télécopie: 0800 88 05 27
www.buehler.fr
Email: info@buehler.fr

BUEHLER UNITED KINGDOM

Telephone: 0800 707 6273
Fax: 0800 707 6274
www.buehler.co.uk
Email: sales@buehler.co.uk

BUEHLER CANADA

10 Carlow Court, Unit #2
Whitby, Ontario L1N 9T7
Telephone: (905) 430-4684
Fax: (905) 430-4647
Sales Telephone: 1-800-268-3593
Email: info@buehler.ca

BUEHLER, ASIA-PACIFIC

5/F Vogue Centre
696 Castle Peak Road
Lai Chi Kok, Kowloon
Hong Kong, SAR, China
Telephone: (852) 2307 0909
Fax: (852) 2307 0233