VICKERS HARDNESS TEST

Descriptions

A microhardness test method consists of indenting the test material with a diamond indenter. The method is mostly used for small parts, thin materials, welded sections, coated parts, or case depth hardness measurement. The method can be used on almost any type of material: metals, ceramics and composites, but the test sample must be highly polished. It is very useful for a variety of applications, for instance for testing thin materials like foils, or measuring individual micro structures.

The FALCON 450, focusing on elimination of user influence on the test results. The advanced force sensor technology utilizes an electronically controlled load cell closed loop system with force feedback to achieve absolute accuracy, reliability and repeatability, on all of the forces used for testing. IMPRESSIONS™ Software, advanced user operating system. The software incorporates manual and automatic measurement for all scales, image editing, file storage, image storage, report printing, turret operation manual or automatic focusing and many more.

Further Information

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Brand-Model

INNOVATEST® FALCON 450

Specifications

Scales: Micro Vickers, Vickers, Knoop Brinell
Testforce:200gf,300gf,500gf,1kgf,2kgf,2.5kgf,3kgf,4kgf,5kgf,10kgf,20kgf,25kgf,30kgf,40kgf,50kgf
Objectives: 5X, 10X, 20X, 50X, 100X
6 position turret: 1 indenter position,5 objectives positions
Control: I-TOUCH™ full color touchscreen
Z Axis : Manual, dynamic fine adjustment, hand wheel on spindle, Anvil 60mm: standard
XY- Stage : Manual,100mmX 100mm, travel 25mm X 25mm
Output: USB
Camera and Automation: Impressions™ automation packages, camera mounted invisibly under top cover, motorized stages

Equipment Website/ Product Brochure

https://www.innovatest-europe.com/products/falcon-450/

Types of samples

Metals, ceramics and composites

Location

Material Characterization Laboratory
(C20 102-01)

Operator

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