

VICKERS HARDNESS TESTER THV-50/10/5

Bench hardness tester with analogue micrometer reading

- High precision hardness tester
- Measuring microscope with analogue reading
- 3 models up to 50 kgf
- Standard conform EN-ISO 6507
- Robust and reliable

• Applications

- Cemented carbide, ceramics, steels, nonferrous metals
- Thin plates, metallic foils, plating, miniature objects
- Material strength, effect of heat treatment, depth of carburized or decarburized layer and flame hardened layer, effect of hardening, hardness resulting from welding or deposition

Test force (N)

THV 50	THV 10	THV 5
2.94N (0.3Kgf)	2.94N (0.3Kgf)	9.8N (1.0Kgf)
4.9N (0.5Kgf)	4.9N (0.5Kgf)	49N (5.0Kgf)
9.8N (1.0Kgf)	9.8N (1.0Kgf)	98N (10.0Kgf)
19.6N (2.0Kgf)	29.4N (3.0Kgf)	196N (20.0Kgf)
29.4N (3.0Kgf)	49N (5.0Kgf)	294N (30.0Kgf)
49N (5.0Kgf)	98N (10.0Kgf)	490N (50.0Kgf)



Technical specifications

Test force selection	Dial
Standard	conform EN-ISO 6507
Load control	automatic (loading/dwell/unloading)
Load duration	5 to 60 sec (5 sec increments)
Objectives	10X, 25X (THV505/510) 10X (THV550)
Eyepiece magnification	10X / mechanical thumbwheel
Total magnification	100X and 250X (THV505/510) 100X (THV550)
Measuring range	250 μ m (THV505/510) 650 μ m (THV550)
Resolution	0.4 μ m (THV505/510) 1.0 μ m (THV550)
Maximum specimen height	160mm
Maximum specimen depth	135mm from the center
Optical path	2-way switchable : eyepiece/CCD camera (optional)
Digital read-out	Dwell time (sec)
Power supply	220V, 50Hz
Power consumption	20VA
Dimensions	270x540x650mm
Weight	40 kg

Standard delivery

- Main unit
- Diamond indenter Vickers
- Test anvils (3 pcs.)
- Vickers testplates (2 pcs.)
- Spare lamp (2 pcs.)
- Fuse (2 pcs)
- Users manual