

# Vickers Hardness tester

**THV-5/10/30/50 series**

## Digital Vickers Hardness tester (Analog eyepiece, Manual Turret)

With LCD screen & operation panel.

Test both HV & HK scales (with optional Knoop tester)

Another series : THV-5M/10M/30M/50M Vickers Hardness Tester  
(with motorized turret)

Advantage:

1. High Good Values
2. Good Quality (ISO & CE Certification)
- 3 Knoop hardness can be measured with optional indenter
4. Stepless adjustable brightness light source;

Application fields:

Heat treatment, carbide, quench hardened layer, the surface coating layer, steel, non-ferrous metal and small and thin shape parts, etc.



### Main Features:

The hardness tester adopts LCD screen to display. Such selections as the hardness scales HV or HK, various steps of test force, dwell time can be operated on the operating panel. The luminosity of light source can be adjusted without grades as well. After input the D1 & D2 values measured from the eyepiece, the hardness value will display on the LCD screen directly.

Model THV-5M /10M/30M/50M Micro Vickers Hardness Tester (with motorized turret) is with the function to shift between the indenter and objectives mutually during test process.

Application materials:

Ferrous metals, non-ferrous metals, IC thin sections, coating layer, ply-metals

Glass, ceramics, agate, precious stones, thin plastics, etc

Hardness test such as that on the depth and gradient of the carbonized layers and quenched hardened layers.

### Technical Specifications:

Model		THV-5	THV-10	THV-30	THV-50
Turret Type		Manual	Manual	Manual	Manual
Test Force	(Kgf )	0.3, 0.5, 1,2, 3, 5	0.3, 0.5, 1, 2,3, 5, 10	1, 3, 5,10, 20, 30	1, 5, 10, 20, 30, 50
	(N)	2.94, 4.9, 9.8 19.6, 29.4, 49.0	2.94, 4.9, 9.8, 19.6, 29.4, 49, 98	9.8, 29.4, 49 98, 196, 294	9.8, 49, 98, 196, 294, 490
Min. Test Unit		0.5µm		1µm	
Max Height of Specimen		160mm			

Distance from Indenter to Out Wall	135mm			
Hardness Test Range	8HV~2900HV			
Method of Test Force Applied	Automatically Load and Unload Test Force			
Amplification of Test Microscope	200 <sup>x</sup> (Measuring),100 <sup>x</sup> (observation)		100 <sup>x</sup> (Measuring)	
Shift Between Objectives & Indenters	THV-5M	THV-10M	THV-30M	THV-50M
Dwell Time	0~60s (1 second as a unit, optional key in)			
Power Souse	AC220V±5%,50-60Hz			
Overall Dimension	520X190X650mm			
Net weight	About 40Kg			

Standard Accessories:

Item	Quantity	Item	Quantity
Weight	3	Vickers hardness block (High, Low)	1 each
V shape testing table	1	Spare Fuse (2A)	2
Round flat testing table	1	Power cable	1
Big testing table	1	Objective 10X	1
Operation Manual	1	Product Certificate	1