

Digital Low Load Vicker Hardness Tester

TDVH-A10

Digital Brinell Hardness Tester

TDBH-A10



Digital low load Vickers Hardness tester TDVH-A10

Digital low load Vickers Hardness tester TDVH-A10 comes with large LCD screen to display the parameters like test mode, test pressure, indentation length, hardness values, pressure holding time and number of test for study. Equipped with dual channel high resolution optical measuring system, integrated computer programming technology and photoelectrical techniques gives reliable results. Tests thin samples or its parts of nonmetallic materials after the coating in research institutes, factories, labs.

Features

- Large LCD display
- Camera & eyepiece for indentation photography & metallography
- Light source adjustments
- Soft key input
- Data recording and data processing
- RS232 interface for printing output, connection to PC

Applications

Digital low load Vickers Hardness tester finds application in research institutes, factories, and quality departments for plastic and other non-metals hardness testing.

Specification

Model no.	TDVH-A10
Test force	9.8 N, 49 N, 98 N, 196 N, 294 N, 490 N
Hardness value symbol	HV1, HV5, HV10, HV20, HV30, HV250
Error range in display	± 3.0 %, ± 2.0 %
Hardness indication	Digital display
Hardness value range in Measure	5 HV to 2500 HV
Loading control	Automatic
Magnification of Microscope	100x
Pressure holding time	5 to 60 S
Min. measurable unit	0.25 μm
Max. height of sample	160 mm
Distance from intender's center to outer wall	135 mm
Illumination light	LED
Main body weight	Approx. 40 kg
Dimension of machine	540 × 220 × 650 mm
Power supply	AC 220 V, 50 Hz

Digital Brinell Hardness Tester TDBH-A10

Digital Brinell Hardness Tester TDBH-A10 with advanced design tests the hardness of the material on Brinell scale. The traditional method of using heavy weights for Brinell testing is replaced by using photo/pressure sensor with more accurate results. It is used to determine the Brinell hardness of cast-iron, ferrous & non-ferrous metal, soft alloys & other nonmetallic materials. The digital display controls parameters like dwell time, test force etc.

Features

- Digital LCD display
- Electric auto loading
- High power optical measurement
- Automatic loading control, unloading & dwell
- LED light as illumination source
- Computer software program for operations
- Photo sensor & other system
- Hardness scale conversion

Applications

Digital Brinell hardness tester has applications in inspection, research, metal & other non-destructive material industry, workshops, laboratories.

Specification

Model no.	TDBH-A10
Total test force	612.5 N, 980 N, 1225 N
Brinell hardness test	1837.5 N, 2450 N, 4900 N/7350 N, 9800 N, 14700 N/29400 N
Hardness measuring area	8 to 650 HBW (hard metals steel ball)
Magnification of microscope	20x
Ball indenter	2.5, 5, 10 mm
Hardness indication	LCD display
Loading control	Automatic
Maximum height of specimen	220 mm
Maximum depth of specimen	135 mm
Standard hardness block	HBW/3000/10 with 150 to 250
	HBW/1000/10 with 75 to 125
	HBW/187.5/2.5 with 150 to 250
Illumination light	LED
Dimension (D*W*H)	236 × 550 × 753 mm
Power supply	AC 220 V, 50 Hz
Net weight	123 kg