SHRI ENGINEERING

Touch Screen Microvickers Hardness Tester

Model :- HT-1000T

Touch Screen
Micro Vicker Hardness Tester

Model No:- HT-1000T

CAMERA PORT

Machine equipped with dual optical channel, one optical channel for 10X eyepiece and another optical channel is for camera by which machine can be upgraded into computerized / computer controlled model. Both optical channel works simultaneously

MANUAL EYEPIECE

Equipped with 10x Manual Eyepiece to measure the length of diagonal. The hardness value can be displayed directly on LCD screen by entering the indentation diagonal length.

TEST FORCE

Wide range of test force (10gm to 1000gm) can be selected with external force selection knob. The test force is automatically displayed on the 7 inch LCD touch display.

ILLUMINATION SYSTEM

Halogen illumination unit with adjustable intensity. gives very clear images and can be also used as a simple microscope. Halogen illumination unit enter stand by mode after a certain period of inactivity which gives it a long service life and low power consumption.

TURRET MECHANISM

HT-1000T- Equipped with manual turret mechanism. The position of the indentor and objective lens can be switched manually.

DATA OUTPUT

Equipped with built is thermal printer to take the print out the hardness result USB port is also available to get the data in pendrive

EMERGENCY SWITCH

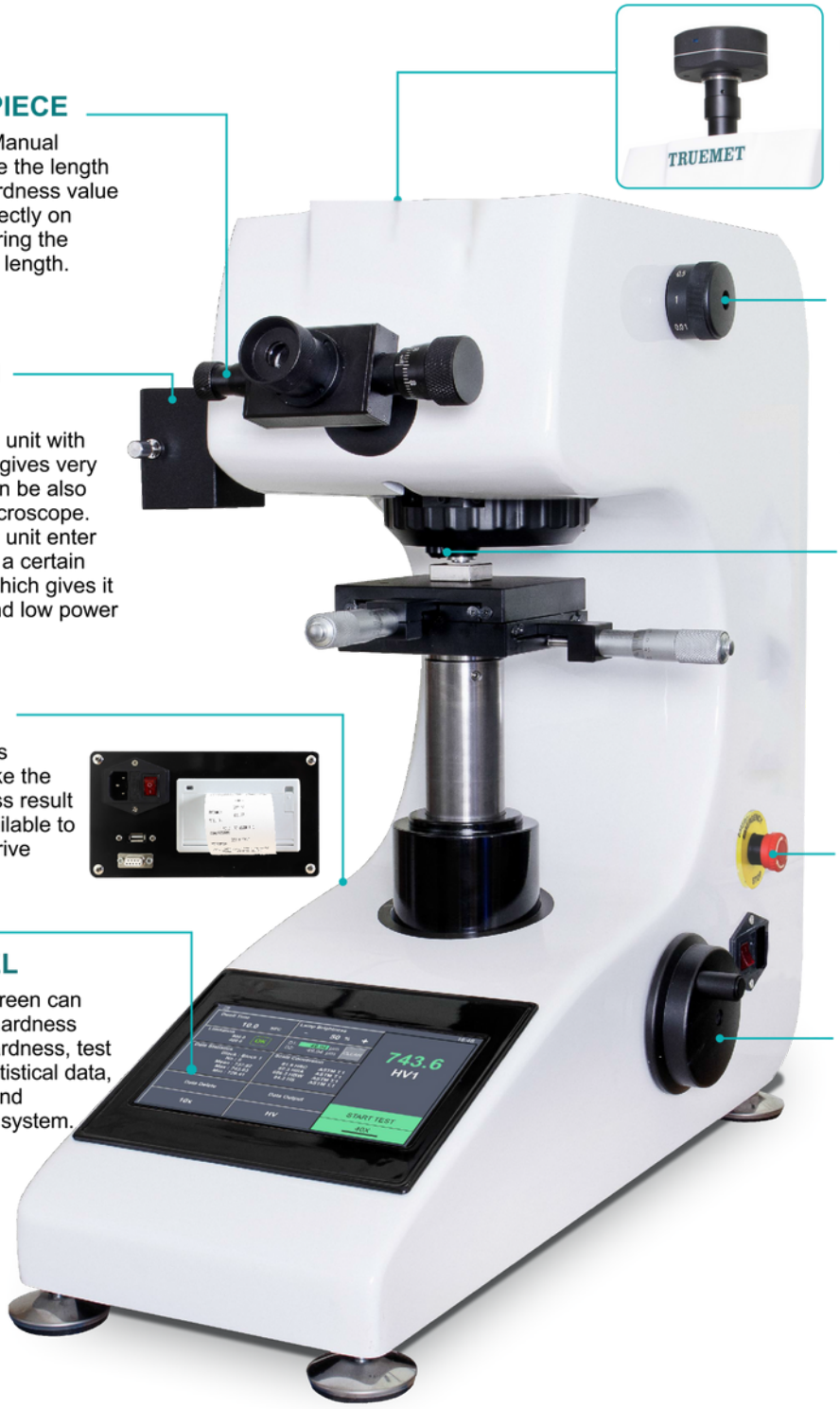
Equipped with emergency stop switch.

LCD TOUCH SCREEN PANEL

7 Inch LCD touch screen can visually display the hardness value, conversion hardness, test force, dwell time, statistical data, upper & lower limit and brightness of optical system.

Z-AXIS LIFTING SYSTEM

Side-Ways lifting system makes the z-axis movement more stable and accurate.



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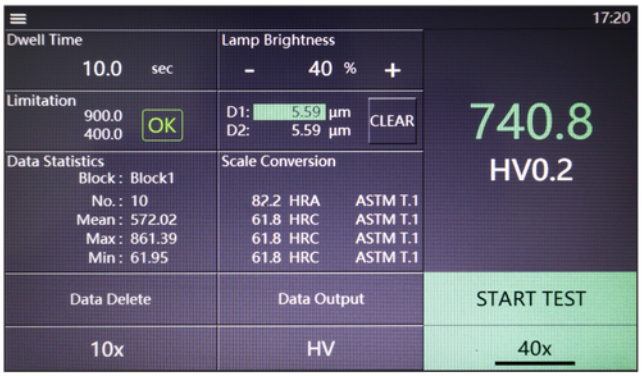
Touch Panel Display and Fuction



Standard Window

- Hardness value
- Diagonal length
- converted hardness values
- Dwell time
- Light Brightness

Scale conversion Window

- ASTM E140 Hardness conversion tables
- ISO 18265 Hardness conversion tables

Data Statistics window

- Measured Hardness Value
- Mean
- Standard Deviation
- Max
- Min
- Range

Limits Window

- Uper Limit
- Lower Limit
  (for OK / NG judgement)

Touch Screen
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Technical Specfication

Model	HT-1000T
Turret Movement	Manual
Measuring Eyepiece	10X Manual Eyepiece
Display	7 inch LCD touch screen
Testing Force	10gf (0.098N) 25gf (0.245N) 50gf (0.49N) 100gf (0.98N) 200gf (1.96N) 300gf (2.94N) 500gf(4.9N) 1000gf (9.8N)
Test Force Selection	External Force Selection Knobe, The Test Force is Automatically Display on the 7inch LCD Touch Display
Hardness Scale	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1
Hardness Conversion Scale	HRA, HRB, HRC, HRD, HRF, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HBW, HBS, HK, HS
Hardness Range	1-4500 HV
Magnification	100X(For observation), 400 X (For Measurement)
Optical Channel	Dual Light Channel (Eyepiece and Camera Channel)
Dwell Time	5~60 sec
Loading Control	Automatic (Loading, Dwell, Unloading)
X-Y Testing Table	Size (mm) : 100X100 Max., Travel range : 25X25mm, Resolution : 0.01mm Optional : Digital XY Table Resolution 0.001mm
Max height of specimens (approx)	85mm
Max depth of specimens (approx)	110mm
Light Source	Halogen Bulb (with adjustable intensity)
Data Output	Built-in-Printer Built in RS-232 interface, USB Port
Complying Standard	ASTM-E384 & E92, ISO 6507, IS 1501
Overall Dimension(approx.)	530X200X530 mm (L X W X H)
Net weight(approx.)	35Kg
Power Supply	AC220V±5% 50-60Hz
Standard Accessories	Vickers Indentor 1 No. 10X Manual Eyepiece 1 No. Objective 10X 1 No. Objective 40X 1 No. X-Y Testing Table 1 No. Standard 2 jaw vise(Jaw opening : 38mm) 1 No. Thin Specimen Holder(Thikness Max : 6mm) 1 No. Slender specimen holder (vertical)(Diameter : 0.4-4mm) 1 No. Hardness Test Block(HV 0.2) 1 No. Hardness Test Block(HV 1) 1 No. Allen Keys 1 No. Leveling Adjusting Screw 4 Nos. Power Cord 1 No. Screw Driver 1 No. Dust Cover 1 No. Leveling Bubble 1 No. Accessory Box 1 No. Instruction Mannual 1 No.
Optional Accessories	TRUEMET VIDAS Vickers Impression Diagonal Analysis Software, Knoop Indentor, Knoop Hardness Block, Digital XY table, SPC Cable.

***TRUEMET reserves the rights to changes the above specification due to constant improvements in design**

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