

### Digital Universal Hardness Tester SHR-187.5D



IQUALITROL SHR-187.5D has Brinell, Rockwell and Vickers three test modes and 7 level of test forces, which can test several kinds of hardness. Test force loading, dwell, unload adopts automatic shifting for easy and fast operation. It can show and set the present scale, test force, test indenter, dwell time and hardness conversion.

The main functions as follows:

- 1, Support Brinell, Rockwell and Vickers three test modes;
- 2, Support hardness Conversion scales of different kinds of hardness;
- 3, Test results can be saved for reviewing or be printed out,
- 4, Data statistics automatically calculate of maximum, minimum and average value;
- 5, With RS232 interface for connecting to the computer.

#### Technical Specification:

Model	SHR-187.5D
Rockwell Test Force	60kgf (558.4N), 100kgf (980.7N), 150kgf (1471N)
Brinell Test Force	30kgf (294.2N), 31.25kgf (306.5N), 62.5kgf (612.9N), 100kgf (980.7N), 187.5kgf (1839N)
Vickers Test Force	30kgf (294.2N), 100kgf (980.7N)
Indenter	Diamond Rockwell Indenter, Diamond Vickers Indenter, $\phi$ 1.588mm, $\phi$ 2.5mm, $\phi$ 5mmBall Indenter
Loading Method	Automatic (Loading/Dwell/Unloading)
Hardness Reading	LCD Screen Display
Test Scale	HRA, HRB, HRC, HRD, HBW1/30, HBW2.5/31.25, HBW2.5/62.5, HBW2.5/187.5, HBW5/62.5, HBW10/100, HV30, HV100
Conversion Scale	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N,
Magnification	Brinell: 37.5 $\times$ , Vickers: 75 $\times$
Resolution	Rockwell: 0.1HR, Brinell: 0.5 $\mu$ m, Vickers: 0.25 $\mu$ m
Dwell Time	0~60s
Data Output	Built-in Printer, RS232 Interface
Max. Height of Specimen	Rockwell: 175mm, Brinell: 100mm, Vickers: 115mm
Throat	165mm
Power Supply	AC220V/50Hz1Ph, AC110V/60Hz/1Ph
Execute Standard	ISO 6508, ASTM E-18, ISO 6506, ASTM E10-12, ISO 6507, ASTM E92
Dimension	520 $\times$ 240 $\times$ 740mm, Packing Dimension: 650 $\times$ 370 $\times$ 980mm
Weight	Net Weight: 80kg, Gross Weight: 105kg

#### Packing List:

Instrument Main Body	1 set	Diamond Rockwell Indenter	1 pc	Fuse 2A	2 pcs
Diamond Vickers Indenter	1 pc	$\phi$ 1.588mm, $\phi$ 2.5mm, $\phi$ 5mmBall	each 1 pc	Level	1 pc
Slipped Test Table	1 pc	Middle Plane Test Table	1 pc	Spanner	1 pc
Large Plane Test Table	1 pc	V-shaped Test Table	1 pc	Power Cable	1 pc
15x Digital Measuring	1 pc	2.5x, 5x Objective	each 1 pc	Screw Driver	1 pc
Usage Instruction Manual	1 copy	Block 150~250 HBW2.5/187.5	1 pc	Level Screw	4 pc
Hardness Block 60~70 HRC	1 pc	Hardness Block 20~30 HRC	1 pc	Weights 0, 1, 2, 3, 4	5 pcs
Block 80~100 HRB	1 pc	Hardness Block 700~800 HV30	1 pc	Microscope System	1 set