

Motorized Universal Hardness Tester iUniv-187.5



iUniv-187.5 Brinell Rockwell & Vickers hardness tester is a multi-functional hardness tester with Brinell, Rockwell & Vickers three test modes and 7 level of test forces, which can test several kinds of hardness.

Test force loading, dwell and unloading adopts automatic system, widely application and easy to operate, therefore it is the popular machine for industrial enterprises and scientific research institutes.

Application range:

Suitable for hardened and surface hardened steel, hard alloy steel, casting parts, non-ferrous metals, various kinds of hardening and tempering steel and tempered steel, carburized steel sheet, soft metals, surface heat treating and chemical treating materials etc.

Technical Specification:

Model	iUniv-187.5
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, ϕ 1.588mm, ϕ 2.5mm, ϕ 5mm Ball Indenter
Hardness Reading	Rockwell: Dial, Brinell & Vickers: Check Hardness Table
Magnification	Brinell: 37.5X, Vickers: 75X
Resolution	Rockwell: 0.5HR, Brinell: 4 μ m, Vickers: 2 μ m
Dwell Time	2~60s
Max. Height of Specimen	Rockwell: 175mm, Brinell: 100mm, Vickers: 115mm
Throat	165mm
Power Supply	AC220V/50Hz/1Ph, AC110V/60Hz/1Ph
Execute Standard	ISO 6508, ASTM E-18, ISO 6506, ASTM E10-12, ISO 6507, ASTM E92
Dimension	520×240×700mm, Packing Dimension: 650×370×950mm
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	ϕ 1.588mm, ϕ 2.5mm, ϕ 5mm Ball	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

Digital Universal Hardness Tester iUniv-187.5D



iUniv-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	iUniv-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, ϕ 1.588mm, ϕ 2.5mm, ϕ 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 μ m, Vickers: 0.25 μ 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	ϕ 1.588mm, ϕ 2.5mm, ϕ 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

Digital Universal Hardness Tester iUniv-187.5DL



iUniv-187.5DL 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.

Packing List:

Name	Qty	Name	Qty
Instrument Main Body	1 set	Diamond Rockwell Indenter	1 pc
Diamond Vickers Indenter	1 pc	ϕ 1.588mm, ϕ 2.5mm, ϕ 5mmBall Indenter	each 1 pc
Slipped Test Table	1 pc	Middle Plane Test Table	1 pc
Large Plane Test Table	1 pc	V-shaped Test Table	1 pc
15X Digital Measuring Eyepiece	1 pc	2.5X, 5X Objective	each 1 pc
Microscope System (include the inside light and outside light)	1 set	Hardness Block 150~250 HBW 2.5/187.5	1 pc
Hardness Block 60~70 HRC	1 pc	Hardness Block 20~30 HRC	1 pc
Hardness Block 80~100 HRB	1 pc	Hardness Block 700~800 HV30	1 pc
Weights 0, 1, 2, 3, 4	5 pcs	Power Cable	1 pc
Fuse 2A	2 pcs	Horizontal Regulating Screw	4 pcs
Level	1 pc	Spanner	1 pc
Screw Driver	1 pc	Anti-dust Cover	1 pc
Usage Instruction Manual	1 copy		

The main functions as follows:

- 1, Support Brinell, Rockwell and Vickers three test modes;
- 2, With hardness conversion;
- 3, Test results can be saved for reviewing or be printed out,
- 4, automatic calculation of maximum, minimum and average value;
- 5, With RS232 interface for connecting to the computer.
- 6, This is the heightening type which is more convenient for measuring the large samples.

Application range:

Suitable for hardened and surface hardened steel, hard alloy steel, casting parts, non-ferrous metals, various kinds of hardening and tempering steel and tempered steel, carburized steel sheet, soft metals, surface heat treating and chemical treating materials etc.

Technical Specification:

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Indenter	Diamond Rockwell Indenter, Diamond Vickers Indenter, ϕ 1.588mm, ϕ 2.5mm, ϕ 5mm Ball 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, HR15T, HR30T, HR45T, HS, HBW
Magnification	Brinell: 37.5 \times , Vickers: 75 \times
Resolution	Rockwell: 0.1HR, Brinell: 0.5 μ m, Vickers: 0.25 μ m
Dwell Time	0~60s
Data Output	Built-in Printer, RS232 Interface
Max. Height of Specimen	Rockwell: 400mm, Brinell: 330mm, Vickers: 345mm
Throat	165mm
Power Supply	AC220V/50Hz/1Ph, AC110V/60Hz/1Ph
Execute Standard	ISO 6508, ASTM E-18, JIS Z2245, GB/T 230.2 ISO 6506, ASTM E10-12, JIS Z2243, GB/T 231.2 ISO 6507, ASTM E92, JIS Z2244, GB/T 4340.2
Dimension	500 \times 225 \times 880mm, Packing Dimension: 650 \times 370 \times 1140mm
Weight	Net Weight: 100kg, Gross Weight: 120kg