

NDT Supply.com

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SINOWON[®]

Motorized Ultrasonic Hardness Tester

SU-300M

**One-Key
Operation**



SU-300M(#882-141M)

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SU-300M



**One-Key
Operation**

SU-300M(#882-141M)

**Conform Standards:
ASTM-A1038-2005;
DIN 50159-1-2008;
JB/T 9377-2010.**

Introduction:

- Sinowon has successfully researched and developed Ultrasonic Hardness Tester SU-300M. It applies ultrasonic resistance method to do comparison measuring. It not only bears the international mainstream brand ultrasonic features such as: microscopic indentation, quick measurement and perfect accuracy, but also adopts the design of streamlined ergonomics and high-definition color LCD screen as terminal display, which makes the man-machine interface more friendly and more easy for non professional operators. Sinowon as one of the the world's handful of ultrasonic hardness tester manufacturers, has been devoted to making measurement more accurate and uncomplicated. It also passed the ISO9001:2008 certification and won the title "contract first, credit first" in guangdong province and was identified as dongguan private high-tech enterprises in 2013.
- Sinowon Ultrasonic hardness tester applies foreign technology and imports the original parts then assembles in China. The ultrasonic hardness tester in random has obtained the authentication of National institutes of Metrology— China's most authoritative testing institutions. Product quality completely accords with American standard ASTM A1038-2005, Europe standard DIN50159-1-2008 and the Chinese industry standard JB/T9377-2010 technical requirements.



Features:

- **Perfect Accuracy**—— $\pm 3\% \text{HV}$, $\pm 1.5\text{HR}$, $\pm 3\% \text{HB}$
- **Microscopic Indentation**——Only high-power microscope can observe the indentation.
- **Quick Measurement**——Result in 2 seconds.
- **Large LCD Display**——Directly display measurement result, times count, maximum, minimal, average and deviation.
- **Friendly Operation**——Operate well after short training.
- **Promised Warranty**——2-Year warranty for main unit (Excludes Probe).
- **Mass Storage**——Save 1000 groups measurement data.
- **Simple Calibration**——Save 20 groups calibration data for invoking, improve calibration efficiency.

Standard Delivery:

Product Name	Code#
Instrument Main Body	882-141M
10N Motorized Probe	882-251
Standard Rockwell Block	882-641
Probe Cable	882-801
USB Recharger	882-851
Screw	882-951
Anti Vibration Case	882-901
Operation Manual	SU-300M

Specifications:

Product Name	Motorized Ultrasonic Hardness Tester				
Model	SU-300M				
Code#	882-141M				
Optional Probe	Manual Probe:10N、20N、49N、98N; Motorized Probe:3N、5N、8N、10N				
Measuring Range(ASTM)	HBS:100-500; HV:100-1500; HRC:20-68; HRB:55-100; HRA:37-85; Mpa: 255-2180N/mm				
Measuring Accuracy	Scales	< 250HV	250~500HV	500~800HV	> 800HV
	HV0.1	6	7	8	9
	HV0.3	6	7	8	9
	HV0.8	5	5	6	7
	HV1	5	5	6	7
	HV5	5	5	6	5
HV10	5	5	5	5	
LCD	3.2"Color Screen				
Hardness Scales	Vickers(HV);Rockwell C(HRC); Rockwell A(HRA); RockwellB(HRB); Brinell(HB)				
Data Display	Loading force, Testing-times, Testing result, Average, Maximum, Minimum, Deviation and Conversion scale.				
Language	Chinese, English, German, Portugese, Turkish				
Data Output	RS232 Hyper Terminal/Bluetooth Printer				
Print	Bluetooth				
Data Storage	To save 1000-groups of measuring data and 20-groups of calibration data				
Word Input	Letters and numerals				
Working Environment	Temperature: -10°C to 50°C ; Humidity :30%-80% R.H.				
Battery Voltage	Rechargeable lithium battery ; Voltage :4.2V, 4800mAh				
Recharger Voltage	AC220V/50Hz, 110V/60Hz				
Main unit Dimension and Weight	Main unit Dimension :160 x 80 x 30mm (L x W x H); Manual Probe: $\Phi 22 \times 153\text{mm}$; Weight(No Probe) : 0.5Kg				
Packing Dimension and Weight	Packing Dimension :320 x 430 x 155mm (L x W x H) ; Packing Weight (Standard Delivery) : 4.3Kg				



Hardness Block

(28~35)HRC	(38~43)HRC	(48~53)HRC	(58~63)HRC
882-611	882-621	882-631	882-641

Block Specification:

Hardness Range	Code#	Uniformity	Roughness	Dimension
(28~63)HRC	882-611	±1.5HRC	Ra=0.02um	Ø90x16mm
(300~800)HV1	882-621	±3%HV	Ra=0.02um	Ø90x16mm
(300~800)HV5	882-631	±3%HV	Ra=0.02um	Ø90x16mm
(300~800)HV10	882-641	±3%HV	Ra=0.02um	Ø90x16mm
(180~500)HB	882-681	±2%HB	Ra=0.02um	Ø90x16mm



Small Cylinder Support Ring (#882-521)

Big Cylinder Support Ring (#882-531)

Plan Support Ring (#882-511)

Support Ring Specifications:

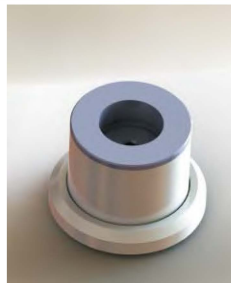
Support Ring Name	Plan Support Ring	Small Cylinder Support Ring	Big Cylinder Support Ring
Code#	882-511	882-521	882-531
Application	Plan Test Piece	Diameter 8-22mm Test Piece	Diameter 16-80mm Test Piece



10KG/5KG Probe Counterweight



Carrier and Stand



Plan Support Ring



Manual Probe Test Stand MU-100

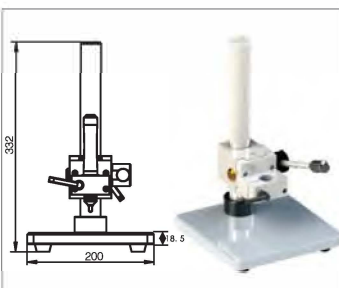


Motorized Probe Test Stand MU-200

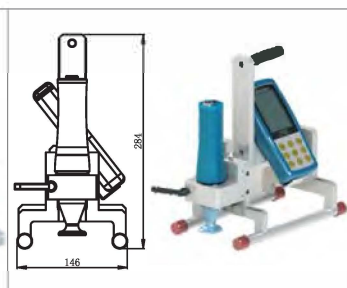
Testing Stand

MU-100 testing stand is applicable with ultrasonic hardness tester for the accurate measurement, MU-200/MU-300/MU-400 in the laboratory, it must be used when Manual Probe calibrated.

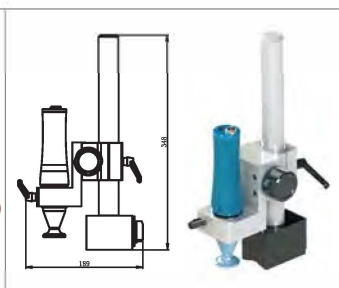
Testing Stand	MU-100	MU-200	MU-300	MU-400
Code#	882-311	882-321	882-331	882-341
Material	Stainless Steel	magnesium aluminum alloy	Aluminum	Stainless Steel
Weight	8.8Kg	1.6Kg	4.5Kg	9.5Kg
Dimension(LxWxH)	200 x 200 x 332mm	205 x 142 x 284mm	200 x 120 x 348mm	200 x 200 x 332mm
Packing Dimension	320 x 320 x 440mm	405 x 340 x 580mm	398 x 310 x 540mm	398 x 398 x 530mm
Application	Manual Probe Test Stand	Motorized Probe Test Stand for Roller Materials	Motorized Probe Magnet Test Stand	Motorized Probe Test Stand



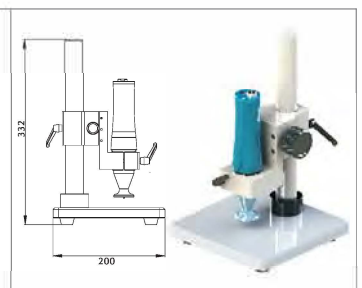
MU-100(#882-311)



MU-200(#882-321)



MU-300(#882-331)



MU-400(#882-341)



Hardness Block

(28~35)HRC	(38~43)HRC	(48~53)HRC	(58~63)HRC
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(300~800)HV10	882-641	±3%HV	Ra=0.02um	Ø90x16mm
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Small Cylinder Support Ring (#882-521)

Big Cylinder Support Ring (#882-531)

Plan Support Ring (#882-511)

Support Ring Specifications:

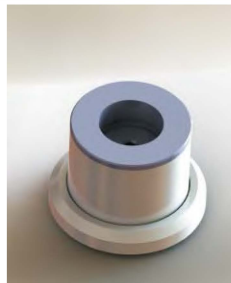
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Code#	882-511	882-521	882-531
Application	Plan Test Piece	Diameter 8-22mm Test Piece	Diameter 16-80mm Test Piece



10KG/5KG Probe Counterweight



Carrier and Stand



Plan Support Ring



Manual Probe Test Stand MU-100

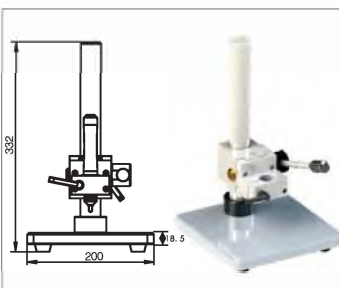


Motorized Probe Test Stand MU-200

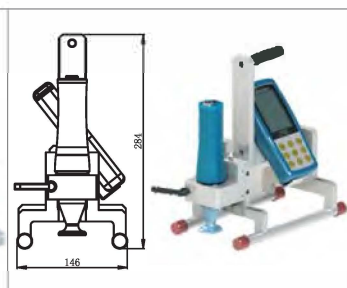
Testing Stand

MU-100 testing stand is applicable with ultrasonic hardness tester for the accurate measurement, MU-200/MU-300/MU-400 in the laboratory, it must be used when Manual Probe calibrated.

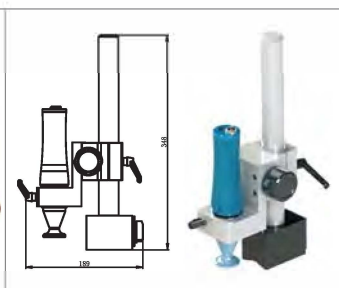
Testing Stand	MU-100	MU-200	MU-300	MU-400
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Material	Stainless Steel	magnesium aluminum alloy	Aluminum	Stainless Steel
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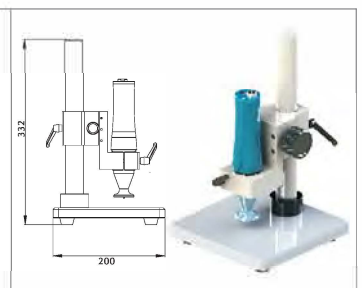
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