

Portable Hardness Tester



National Authorized Hi-Tech Manufacturer

GMC Certificate



ISO Certificate

0 0 0

CE Certificate

Company Profile

Founded in 2010, we Sinowon Innovation Metrology Manufacture Limited is National Authorized Hi-Tech Manufacturer (Certificate No.: GR201544000821), ISO9001:2015 Certified company, GuangDong Province Enterprise of Observing Contract and Valuing Credit, Shenzhen Qianhai Equity Trading Center(SEC Registration Number:666354).

So far as founded in 2010 years, Sinowon always consider customer as the starting point, manage corporation with motto "Satisfaction, Innovation, Norm, Obligation, Worth, Openness, Nimble" .Constantly improve the management system, increase technology research and development, strengthen the company's ability to integrate production, dedicated to provide users with high-quality testing equipment and one-stop pre-sale, sale and after-sales service.

SINOWON is mainly produce, develop, integrate and sell measuring data software system, optical inspection instrument such as One Key Instant Vision Measuring System, Fully Auto Video Measuring System, Tool Microscope, Video Measuring Microscope and hardness tester such as Automatically Vickers Hardness Tester, Rockwell Hardness Tester, Brinell Hardness Tester, Micro Hardness Tester, Portable Ultrasonic Hardness Tester, Leeb Hardness Tester, etc and some other accessory products. And all of our products have passed The CE EU certification and widely used in metal, plastics, electronics, semiconductors, home appliances, telecommunications, automotive, aviation, aerospace and other industrial laboratories, production workshops, assembly line for quality control.

From the date of establishment, SINOWON is based on the Metrology industry, focused on customer and be a striver for committing to make measurement more accurate and uncomplicated and supply high cost-performance products and service for customers.

We warmly welcome you to visit our headquarter in Free Experience Center, and looking forward to further essence from you.

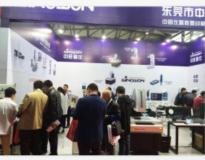
Sinowon is Committed to Make Measurement More Accurate and Uncomplicated!



Intermach Metal Processing Machinery Fair



DMP Tooling and Machining Fair



China CNC Machine Tool Fair



SIMM Machinery Fair



ASEAN International Machine Tool Fair



Control Stuttgart Quality Control Fair



Ultrasound hardness tester family tree





Manual Ultrasonic Hardness Tester SU-3NNH

and molds, forms, presses, thin walled parts, bearings, tooth flanks, etc.

Perfect Accuracy ±3% HV

Introduction

Microscopic Indentation Invisible with naked eye

MP-1000, then the function is same with SU-300M.

Quick Measurement Result in 2 seconds

SU-300H manual ultrasonic hardness tester applies module design, which can work with manual probes HP-1K, HP-2K, HP-5K, HP-10K, can be used to test hardness of small forgings, cast material, weld inspection, heat affected zone, Ion-nitrided stamping dies

SU-300H can test hardness of ferrous metal, non ferrous metal and alloys, it is an ideal instrument, can test hardness of HRA, HRB, HRC, HV, HBW, HS on site, assembly line

SU-300H can also be upgraded with motorized probes MP-300, MP-500, MP-800,

Large LCD Display Friendly 3.2 " Color Screen

Operation One Touch Operation

Wireless **Printer** Printing and data transferring







and lab.

Hardness ScalesBrinell(HB)Data DisplayLoading force, Testing-times, Testing result, Average, Maximum, Minimum, Deviation and Conversion scale.LanguageChinese, English, German, Portugese, TurkishData OutputRS232 Hyper Terminal/Bluetooth PrinterPrintBluetoothData StorageTo save 1000-groups of measuring data and 20-groups of calibration dataWord InputLetters and numeralsWorking EnvironmentTemperature: -10°C to 50°C; Humidity:30%-80% R.H.Battery VoltageRechargeable lithium battery; Voltage:4.2V,3800mAhRecharger VoltageAC220V/50Hz, 110V/60HzMain unit Dimension and WeightMain unit Dimension:160 x 80 x 30mm (L x W x H); Manual Probe:Φ22x153mm; Weight(No Probe): 0.5KgPacking DimensionPacking Dimension:320 x 430 x 155mm (L x W x H);	Product Name	Manual Ultrasonic Hardness Tester					
Standard manual HP-2K; Optional manual Probe:HP-1K,HP-5K, HP-10K; Optional Motorized Probe:MP-300, MP-500, MP-800,MP-1000	Model	SU-300H					
Probe Optional Motorized Probe:MP-300, MP-500, MP-800,MP-1000 Measuring Range (ASTM) 100-500HBS; 100-1500HV;20-68HRC; 55-100HRB; 60-85HRA; Mpa: 255-2180N/mm Measuring Accuracy < <250HV	Code#	882-141H	882-141H				
Range(ASTM) 60-85HRA; Mpa: 255-2180N/mm Scales < 250HV	Probe						
Measuring Accuracy HV0.3 6 7 8 9 HV0.8 5 5 6 7 HV1 5 5 6 7 HV10 5 5 6 5 HV10 5 5 5 5 LCD 3.2 "Color Screen 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,3800mAh Recharger Voltage Main unit Dimension Main unit Dimension Main unit Dimension:160 x 80 x 30mm (L x W x H); Manual Probe:Φ22×153mm; Weight(No Probe): 0.5Kg Packing Dimension Packing Dimension:320					; 55-100HRB	;	
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Recharger Voltage AC220V/50Hz, 110V/60Hz Main unit Dimension and Weight Manual Probe: Φ22×153mm; Weight(No Probe): 0.5Kg Packing Dimension Packing Dimension: 320 x 430 x 155mm (L x W x H);	Working Environment	Temperatui	e: -10°C to 5	0°C; Humio	dity:30%-80%	% R.H.	
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		· //					
and Weight Packing Weight (Standard Delivery) :4.3Kg	Packing Dimension and Weight	Packing Dimension :320 x 430 x 155mm (L x W x H) ; Packing Weight (Standard Delivery) :4.3Kg					









Motorized Ultrasonic Hardness Tester SU-300M

Perfect Accuracy ±3% HV

Microscopic Indentation Non destructive esting









Introduction

 $SU\text{-}300M\ electric\ ultrasonic\ hardness\ tester\ adopt\ building\ block\ System\ .\ It\ match\ with$ MP-300K, MP-500K, MP-800K, MP-1000K. To measure sample hardness of the roll, screw, such as wind power have plating, copper plating, carburi-zing, nitriding layer etc.

Specifications

Product Name	Motorized Ultrasonic Hardness Tester					
Model	SU-300M	SU-300M				
Code#	882-141M					
Probe			nal manual Prob d Probe:MP-300			
Measuring Range(ASTM)		S; 100-1500l Mpa: 255-21	HV;20-68HRC .80N/mm	C; 55-100HRB	;	
	Scales	< 250HV	250~500HV	500~800HV	> 800HV	
	HV0.1	6	7	8	9	
Maria	HV0.3	6	7	8	9	
Measuring Accuracy	HV0.8	5	5	6	7	
7.000.009	HV1	5	5	6	7	
	HV5	5	5	6	5	
	HV10 5 5 5 5					
LCD	3.2 "Color	Screen				
Hardness Scales	Vickers(HV) Brinell(HB)	;Rockwell C(F	HRC); Rockwel	II A(HRA); Roc	kwellB(HRB);	
Data Display			mes, Testing r Conversion s		e, Maximum,	
Language	Chinese, En	ıglish, Germa	n, Portugese	, Turkish		
Data Output	RS232 Hype	er Terminal/E	Bluetooth Pri	nter		
Print	Bluetooth					
Data Storage	To save 1000-	groups of mea	suring data and	20-groups of c	alibration data	
Word Input	Letters and	numerals				
Working Environment	Temperatur	re: -10°C to 5	0°C; Humio	dity:30%-80%	6 R.H.	
Battery Voltage	Rechargeab	ole lithium ba	attery; Voltag	e :4.2V,3800r	mAh	
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:Φ22×153mm ; Weight(No Probe): 0.5Kg					
Packing Dimension and Weight			x 430 x 155m rd Delivery) :);	











Roller Ultrasonic Hardness Tester SU-320R

Perfect Accuracy

±3% HV

Microscopic Indentation Non destructive esting

Quick Measurement Result in 6 seconds

Large LCD Display

Friendly Operation One Touch Operation



Introduction

 $SU-320R\ is\ used\ to\ determine\ hardness\ of\ chrome\ which\ painted\ on\ rotogravure\ cylinders$ with simple, fast and accurately method. Hardness test in Vickers have the advantage that are supposed to be non-destructive as the lasting surface indentation is microscopically

Specifications

SU-320R				
800HV				
±3%				
Vickers(HV);Rockwell C(HRC); Rockwell A(HRA); RockwellB(HRB); Brinell(HB)				
aximum,				
Chinese, English, German, Portugese, Turkish				
ation data				
Н.				
Rechargeable lithium battery; Voltage :4.2V,3800mAh				
AC220V/50Hz, 110V/60Hz				
Main unit Dimension :160 x 80 x 30mm (L x W x H); Manual Probe:Ф22×153mm ; Weight(No Probe): 0.5Kg				

Application













Extended /Short Manual Probe Ultrasonic Hardness Tester

SU-330C/SU-340T

Perfect Accuracy ±5% HV

Microscopic Indentation Non destructive esting









Introduction

SU-330C with extended probe used to test hardness of gear and deep hole specimen, under extreme space limitation or on the floor of grooves.

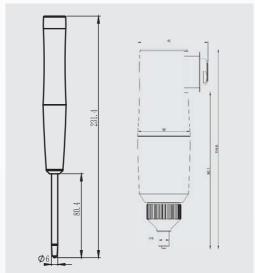
SU-340T equips with short probe, it can non-destructively measure hardness of internal wall of tube, also called Tube Hardness Tester、Inner Wall Hardness

Specifications

Product Name	Extended Manual Probe Ultrasonic Hardness Tester			Short Manual Probe Ultrasonic Hardness Tester		
Model	SU-330C SU-340T					
Code#	882-141C			882-	141T	
Probe	Standard 10N Optional 20N	,			dard 10N:HP-1T onal 20N:HP-2T	•
Measuring Range(ASTM)		55-100HRB; V; Mpa:255-			00-500HBS;	
	Scales	< 250HV	250~5	00HV	500~800HV	> 800HV
	HV0.1	6	7	7	8	9
	HV0.3	6	7	7	8	9
Measuring Accuracy	HV0.8	5	į	5	6	7
recuracy	HV1	5	Ī	5	6	7
	HV5	5	Ţ	5	6	5
	HV10	5	Ţ	5	5	5
LCD	3.2 "Color Screen					
Hardness Scales	Vickers(HV) Brinell(HB)	;Rockwell C(H	HRC); R	ockwe	II A(HRA); Roc	kwellB(HRB);
Data Display		ce,Testing-tineeviation and			esult, Averago cale.	e, Maximum,
Language	Chinese, En	glish, Germa	n, Port	tugese	, Turkish	
Data Output	RS232 Hype	er Terminal/E	Bluetoc	oth Pri	inter	
Print	Bluetooth					
Data Storage	To save 1000-	groups of mea	suring d	ata and	20-groups of c	alibration data
Word Input	Letters and	numerals				
Working Environment	Temperatui	re: -10°C to 5	0°C;	Humid	dity:30%-80%	% R.H.
Battery Voltage	Rechargeable lithium battery; Voltage :4.2V,3800mAh					
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 153mm ; 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					



Drawings of Probe



Application





Portable Universal Dynasonic Hardness Tester

SU-400

One Instrument with Two Applications **Integrate Dynamic** and Static Methods

Introduction

- SU-400 is a combined portable hardness tester which integrated the ultrasonic hardness testing method and dynamic Leeb hardness testing. It supports not only the UCI measurement of ultrasonic including manual probe 1kg, 2kg, 5 kg, 10kg and motorized probe 0.3kg, 1kg but also the seven dynamic impact devices of Leeb measurement that is D, DC, DL, D+15, C, E, G to do rebound measurement.
- SU-400 is an instrument with two applications. It can test thin, bright and clean specimen with the ultrasonic method and rough big specimens with Leeb rebound method.
- It solves the dilemma that Leeb method can not test electroplated coatings and hard coatings and ultrasonic method can not test coarsegrained materials.



Specifications

Product Name	Portable Manual Universal Dynasonic Hardness Tester	Portable Motorized Universal Dynasonic Hardness Tester			
Model	SU-400H	SU-400M			
Code#	882-151H	882-151M			
Ultrasonic Probe	Optional manual Probe: HP-1K,HP-2K,HP-5K, HP-10K; Optional Motorized Probe: MP-300, MP-500, MP-800,MP-1000				
Impact Devices	Standard delivery:D(optional Do	C,DL,D+15,C, G)			
Hardness Scales	HL、HV、HB、HRC、HRB、HR	A、HS, etc.			
Measuring Range	50~1500HV; 20~68HRC; 76~600HB; 41~105HRB; 170~960HLD				
Measuring Accuracy	HV:±3%HV; HRC:±1.5HRC; HB:±3%; HB;HL: ±8HL				
Resolution	0.1HR, 1HV, 1HB, 1HLD, 0.1HS				
Data Storage	1000 group test results and 20 g	group calibration data			
Result Display	Measurement value, Max, Min, A	ve, single mode, batch mode, etc.			
Data Transfer	Bluetooth				
Continuous Working Period	10h(turn off the back light)				
Operating Environment	Temperature: -10°C to 50°C;	Humidity :30%-80%			
Operating Voltage	4.2V				
Dimension	160x80x31mm				
Weight	≤500g(probe not included)				

Application







Ultrasonic Hardness Tester Manual Probe

HP Series

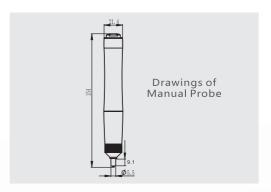
Features

- Introduced latest ultrasonic sensor technology.
- Obtain accurate hardness value without auxiliary devices.
- Support 360° quick measuring.
- Excellent human engineering design easy to hold.
- Suitable dimension and weight of probe is convenient to control.
- Quick and accurate measuring for edge and fixed position of specimen.
- Micro indentation, Non- Destructive for specimen.

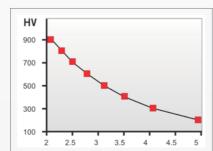


Specifications

Probe Type	HP-1K	HP-2K	HP-5K	HP-10K
Code#	882-311	882-321	882-331	882-341
Loading Force	10N	20N	50N	98N
Diameter	22mm	22mm	22mm	22mm
Length	154mm	154mm	154mm	154mm
Oscillating Rod Diameter	2.4mm	2.4mm	3mm	3mm
Roughness of measuring surface	Ra<2.5um	Ra<5um	Ra<10um	Ra<15um
Min weight of test material	0.3kg	0.3kg	0.3kg	0.3kg
Min thickness of test material	2mm	2mm	2mm	2mm







Ultrasonic Hardness Tester Undenter Illustration

UCI Method: Hardness Value versus Frequency Shift



$\triangle f = f(E_{eff}, A); HV = F/A$	
△f =Frequency Shift	$HV = \frac{F}{A}$
A = Indentation area	$A = \frac{F}{HV}$
E _{eff} = Effective elastic modulus	$\triangle f = f(E_{eff}, A)$
HV = Vickers hardness value	$A = f(E_{eff}, \triangle f)$
F =Force applied in the hardness	$E_{eff} = \frac{\triangle f_1}{\triangle f_2}$

Ultrasonic Hardness Tester Calculation Formula



Portable Universal Dynasonic Hardness Tester

Features

- Introduced latest ultrasonic sensor technology.
- Obtain accurate hardness value without auxiliary devices.
- Excellent human engineering design easy to hold.
- Quick and accurate measuring for edge and fixed position of specimen.
- Micro indentation, non-destructive for specimen.
- Motorized control, one key fast measuring.
- Eliminate hand shake error by manual probe, higher accuracy and repeatability.
- More suitable for thin pieces, coating layer hardness.

Specifications

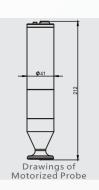
Probe Type	MP-300	MP-500	MP-800	MP-1000
Code#	882-221	882-231	882-241	882-251
Loading Force	3N	5N	8N	10N
Diameter	46mm	46mm	46mm	46mm
Length	197.5mm	197.5mm	197.5mm	197.5mm
Oscillating Rod Diameter	3.7mm	3.7mm	3.7mm	3.7mm
Min weight of test material	0.3kg	0.3kg	0.3kg	0.3kg
Min thickness of test material	2mm	2mm	2mm	2mm











Guidelines for selection and use of UCI instruments

Load	Model	Features	Typical Applications	
98N	Standard length (manual)	Relatively large indentation; requires minimal surface preparation	Small forgings, cast material, weld inspection, HAZ	
	Standard length (manual)	For general use	Induction hardened or carburized machine parts, for example, camshafts, turbine weld inspection, HAZ	
50 N	Extended length (manual)	30 mm extended length	Measurement in grooves, on gear tooth flanks and roots	
	Short probe (manual)	Reduced length (90 mm); electronics in separate housing	Turbine blades, inside wall of pipes with Ø >90 mm	
	Standard length (manual)	Load is easy to apply and provides control to test on	Ion-nitrided stamping dies and molds, forms, presses,	
10N	Extended length (manual)	sharp radii 30 mm extended length	thin walled parts Bearings, tooth flanks	
	Short probe (manual)	Reduced length (90 mm); electronics in separate housing	Turbine blades, inside wall of pipes with Ø >90 mm	
10 N	Motor probe style	Load is applied by servomotor	Finished precision parts, gears, bearing raceways	
8 N	Motor probe style	Load is applied by servomotor	Finished precision parts, gears, bearing raceways	
3 N	Motor probe style	Load is applied by servomotor; rather small indentations	Thin layers, for example, copper or chromium on steel cylinders; Copper rotogravure cylinders; Coatings, case hardened parts	



Accessories



Hardness Block



Small Cylinder Support Ring (#882-521)

Big Cylinder Support Ring (#882-531)

Plan Support Ring (#882-511)

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

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











Standard Probe Cap(#882-711) Deep Hole Probe Cap(#882-721) 10KG/5KG Probe Counterweight

Carrier and Stand

Plan Support Ring(#882-511)

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#	882-301	882-201	882-101	882-401
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 x142 x 284mm	200 x120 x 348mm	200 x200 x 332mm
Packing Dimension	320 x 320 x 440mm	405 x340 x 580mm	398 x310 x 540mm	398 x398 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(#882-301)

MU-200(#882-201)

MU-300(#882-101)

MU-400(#882-401)



Worm UCI Hardness Tester SVR-110H

One Instrument with Two Applications

Integrate Dynamic and Static Methods

Introduction

SVR-110H specialized to test worm, screws, threaded rod, bolts, etc with the hardness scales of HRC and HV.

Features

- High Accuracy HV: ±3% HV , HR:±1.5HR, Conform internal standard ASTM A1038.
- Microscopic Indentation Need 500X metallurgical microscope to observe indentation
- Qucik Measurement In 2 seconds to get hardness value, working efficiency is 60 times higher than normal bench hardness testers.



Application







Specifications

Product Name	Worm UCI Hardness Tester
Model	SVR-110H
Code#	882-110
Probe	Manual 10N
Hardness Range	HV 80-1599; HRC 20-70
Accuracy	HR:±1.5HR
Support Scales	HV/HRC
Language	English, Chinese
Data Output	Rs232
Data Saving	20 groups calibration data, 1000 groups measurements
Working Conditions	Temp: -10°C~50°C; Humidity: 30%~80%
Power Supply	Rechargeable lithium battery, battery 4.2V, 4800 mAh
Rechargeable Voltage	AC220V/50Hz, 110V/60Hz









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