Fully automatic Rockwell hardness tester HMDR1

Product Features:

- •It is a fully automatic intelligent digital Rockwell hardness tester, Rockwell hardness and surface Rockwell hardness measurements can be performed automatically on the sample:
- ●One button operation, automatic lifting, automatic load change, automatic loading, automatic unloading of the workbench, Automatic conversion, fully automatic measurement:
- ●The human-computer interaction interface is friendly, and the 5.2 "color touch screen directly displays the test force, load holding time Parameters such as conversion value and indenter type:



- Automatically calculate and display measured values, maximum values, minimum values, average values, and hardness value deviations, Indication display resolution 0.1HR:
- ●It has upper and lower limit settings for hardness values, out-of-tolerance alarms, and data graph analysis, Functions such as average value and (single point) batch measurement mode:
- •With software compensation function, 3HR software compensation can be performed on the machine without opening the top cover plate for mechanical adjustment:
- ●It has multi language function and can switch between Chinese, English, German, Portuguese, Türkiye, Czech, Korean and other languages:
- •Built-in 2000 groups of single data storage functions and 1000 groups of grouped data storage functions, allowing you to view and analyze individual data:
- ●Optional Bluetooth wireless printer can be purchased to print measurement data, eliminating the need to manually record and write test data:
- •Optional Softhard data analysis software and Bluetooth receiver can be purchased to import and analyze the measurement data from the upper computer:
- •Support FexOMS measurement big data analysis and control software, improve the entire factory process control, and reduce material consumption.

Scope of application:

◆Rigid fusion ◆Surface hardened steel ◆alufer ◆Quenched and tempered steel

◆Carburized steel ◆Hard cast steel ◆Maintainable casting ◆Annealed steel

◆Foreign fired steel ◆alufer ◆mild steel ◆Bearing steel

technical parameter:

Product Name	Fully automatic Rockwell hardness tester	
Product model	HMDR1	
Product article number#	811-330	
Initial test force	10Kgf (98. 1N)	

111111111111111111111111111111111111111			
Total test force	60Kgf (588. 4N), 100Kgf(980. 7N), 150Kgf(1471N)		
Rockwell Scales	HRA HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK,HRL, HRM, HRP, HRR, HRS, HRY		
Duration Time	1-60s Adjustable		
display	5.2 "color touch screen, resolution: 640 * 480		
Hardness resolution	0.1HR		
Test force loading method	Automatic loading/holding/unloading		
Exchange Scales	HRC、HV、HBS、HBW、HK、HAR、 HRD、HR15N、HR30N、HR45N、HS、HRF、HR15T、HR30T、HR45T、HRB		
Conversion Criteria	ASTM、DIN		
Language category	Chinese, English, German, Portuguese, Turkish, Tikh, Korean		
Software modification	-3.0HR "+3.0HR, step value 0.1HR		
data handling	2000 groups of single data and line chart statistical analysis function for multiple measurement frames, and provide single data viewing function and group data analysis function respectively		
Print Configuration	Can be equipped with a printer without searching		
Maximum allowable height of the sample	280mm		
Deep throat	1 70mm		
supply voltage	AC220V/50Hz;AC110V/60Hz		
Overall dimensions	620x210x900mm		
Package size	710 x 530 x 1000mm		
Net weight/gross weight	125Kg/143Kg		
Executive standards	GB/T230.2, JJS Z2245,EN-IS06508, ASTME-18		

Standard configuration:

Product Name	Product Name
main engine	01.588mmSteel ball indenter
Hardness test block (20-33)HRC	power cord
Hardness test block (57-70) HRC	Diamond indenter
Hardness test head (85-100)HRB	weightA
0200mm Daping test bench	weightB
060mm Xiaoping test bench	weightC
040mm VShape test bench	dust cover
Accessory box	level
Certificate of Conformity/Warranty Card	Instructions/Packing List

Optional configuration:

Optional Accessories	Optional Accessories	Optional Accessories
1/8" Steel ball indenter	1/4" Steel ball indenter	1/2" Steel ball indenter
Ø1/8" steel ball	Ø1/4" steel ball	Ø1/2" steel ball
Xiaoping test bench	Pressure head protection sleeve	Wireless printer
Bluetooth upper computer module	statistical software	/

Manual ultrasonic hardness of long/short probe HM330G

Large screen
32"color room
display

Small
indentation
Unable to
observe directly
with the naked
eve

Fast Top25 results Easy to operate
Easy Shuttle

Wireless
Bluetooth
Data
transmission and
printing

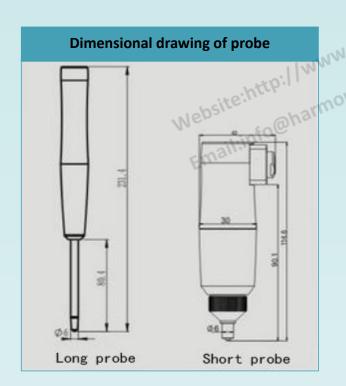
Compliance with standards

ASTM-A1038-2005; DIN 50159-1-2008; JB/T9377-2010。

Product Introduction

PW-330C Long Head Manual Ultrasonic Hardness Tester is also known as Ultrasonic Gear Hardness Tester and Deep Hole Hardness Tester because the configured ultrasonic probe is relatively slender and can non-destructive measure workpieces that cannot be directly measured by ordinary hardness testers such as gears and deep holes. PW-340T manual ultrasonic hardness tester is also known as ultrasonic pipeline hardness tester and internal hardness tester because the configured ultrasonic probe is very short and can directly measure the hardness of the entire pipeline without damage.







technical parameter

HMWTECH CO.,L	.TD			M	
technical p	aramete	r	, im	nc.com	
Product Name	Long probe manu		ard seat meter	Short probe mar	nual ultrasonic hard seat meter
Instrument model	HM330G	http:/	NNO	110	
Instrument article number#	882-141C	site:	Jarmony		
Long probe	Standard configure 20N HP	ration 10N: HP	-1C optional		
Measuring range (DIN)	20-68HRC:55-100	HRB; 60-85H	RA; 100-500HB	S100-1500HV:Mp	a; 255-2180N/mm
Measurement	Hardness scale	*250HV	250-500HV	500-800HV	800HV
accuracy (%)	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	5	5
	HV10	5	5	5	5
Display board	3.2 "color LCD scr	3.2 "color LCD screen			
Hardness scale	Vickers (HV); Rocl	Vickers (HV); Rockwell (HRAHRBHRC); Brinell (HB): Vickers (HS)			
data display	Vickers (HV); Rocl	Vickers (HV); Rockwell (HRAHRBHRC); Brinell (HB): Vickers (HS)			
Language selection	Chinese, English,	Chinese, English, German, Portuguese, Turkish			
data output					
Data printing					
data storage					
Text input					
work environment					
Instrument power					
supply					
Charging voltage					
Host size and weight					
Package size and					
weight					



Vickers hardness tester HMV-5

Application circle:

- ●HMV-5 Vickers hardness testers are mainly used for hardness testing and scientific research of all generic materials.
- ●HMV-5Capable of testing from very shaped materials (such as several HV) to very hard materials (3000 HV)
- ●HMV-5 It can almost be measured except for samples that are particularly small and thin coated All belong to the entire genus.

- Product Features:

 •HMV-5 Automatic closed-loop sensor loading is adopted, and the MPU controls the automatic loading of the test force Guarantee and load:
- ●HMV-5 The optical system is equipped with 10x micrometer eyepieces
- 10x and 40x mirrors, Optical magnification up to 100X and 400X ●HMV-5 LCD liquid product display screen is adopted, which can directlydisplay the test force Hardness value, test force holding time, measurement times, etc.:
- ●HMV-5 It is necessary to manually read the indentation length, manually enter the indentation length through the control panel, and the MPU automatically calculates the Weimin hardness value:
- ●HMV-5 Optional thermal printer (V-5P) or automatic turret (V-5A):
- ●HMV-5 An iVicky 2.0 CMOS camera measurement system can be optionally equipped with a VicPad hardness measurement system.

technical parameter:

Pro	duct Name	Vickers hardness tester	
Prod	uct model	HMV-5	
Product a	article number	#821-101	
Testforce	Kgf	0.3, 0.5, 1, 2, 2.5, 3, 5	
	N	2.94、4.9、9.8、19.6、24.5、29.4、49.0	
optio	cal system	Observation and measurement objective lens: 10x/40x	
measu	ring range	1HV-2967HV	
Turret system Manual turret (automatic turret optional)		Manual turret (automatic turret optional)	
Loading Method Full automatic loading/holding/unloading of		Full automatic loading/holding/unloading of face test force	
eyepiece 10x Mechanical reading eyepiece		10x Mechanical reading eyepiece	
Duration Time 5-60s Adjust		5-60s Adjustable	
Lighting source Adjustal		Adjustable LED cold light source/halogen light source	
Height of test piece 170mm		170mm	
Instrumen	Instrument throat depth 130m		
supp	oly voltage AC220V/50Hz: AC110V/60Hz		
Overal:	l dimensions	530x225x630mm	
Pacl	kage size	610x450x770mm	
Gross wei	s weight/net weight 50Kk/38Kg		
Executi	ve standards	1S06507, ASTM E92, JIS Z2244, GB/T4340	



Standard configuration:

Attachment Name	Attachment Name	Attachment Name		
Da Wei Min indenter	10x Machine City Reading Eyepiece	dust cover		
ф100mm staging	10x objective	Accessory box		
Vickers hardness	40x objective	power cord		
block(700~800)HV5	c01	0		
Vickers hardness	Warranty Card/Certificate of	Instructions/Packing List		
block (400~500) HV1	Conformity	0		
Optional Accessories:				

Optional Accessories:

Attachment Name	Attachment Name	Attachment Name	
X-Y cross platform	Sheet holder	Weimin hardness measurement	
		system	
Digital display micro header	flat tongs	USB CMOS camera	
Heavy duty workbench	Filament clamping table	Camera Adaptation Mirror	
V-shaped platform	Irregular clamping table	Vickers measurement software	

Brinell hardness tester HM3000B

Product features:

- Electronic reversing switch:
- •Robust construction, good rigidity, accuracy, reliability, durability, and high measurement efficiency:
- ●High precision reading microscope measurement system:
- •Widely applicable to quality monitoring in production sites, with strong adaptability to the working environment:
- ullet The accuracy shall comply with GB/T231.2, 1SO 6506-2, and ASTM E10.

Scope of application:

Measure the Brinell hardness of black, nonferrous, and bearing composite materials. Application Fan Guoguang,

Especially suitable for precise measurement of parallel planes, and the measurement of curved surfaces is stable.

Technical parameters:

name		Brinell hardness tester		
mode1		HM3000B		
Article No#		831-101		
Took forms	Kgf	187.5Kef, 250Kgf,750Kgf. 10	000Kgf. 3000Kgf	
Test force	N	1839N, 2452N, 7355N, 9800N,	29400N	
measuring range		(8-450) HBS. (8-650) HBW		
Brinell hardness value	reading	table look-up		
microscope	line	20x Mechanical reading micro	oscope	
Maximum height of test	piece	230mm		
Distance from the center	of the indenter to the	120mm		
fuselage	ilinfo			
Overall dimensions		700x268x842mm		
Gross weight/net weight		240Kk/ 210Kg		
Executive standards		GB/T231.2, JJG150, EN-ISO 6	506 ASTM E10-12 JIS Z2243	
Indication accuracy				
Hardness range		Maximum allowable error of	Indication repeatability	
		indication value		
HBW< 125		≤ ± 3.5%	≤ 3.5%	
125 <hbw<225< td=""><td>≤± 2.5%</td><td>≤ 3.0%</td></hbw<225<>		≤ ± 2.5%	≤ 3.0%	
HBW> 225		≤± 2.0%	≤ 2.5%	
Standard config	guration:	www.himcnc.com		
Describeration Name	Ď.	M. A. M.	D. 1 N	

Standard configuration:

Product Name	Product Name	Product Name
Device host only	Ø10mm Steel ball indenter	Ø60mm Test bench
20x Mechanical reading microscope	Ø5mm Steel ball indenter	Ø40mm V Shape test bench
Standard hardness block HBW	Ø2.5mm Steel ball indenter	hold-all
10/3000	ugii.	
Standard hardness block HBW 5/750	power cord	Weight group
dust cover	Instructions/Packing List	Warranty Card/Certificate of
		Conformity

Optional Brinell measurement software BrinScan:



The HM300M host and probe adopt a streamlined design, an anti-interference aluminum alloy housing, a high-strength scratch resistant glass panel, a high-speed computing MPU system, a 3.2 "high brightness color LCD screen, and moneyless Bluetooth data printing and transmission technology. With a clear human-computer interface, portable hardness measurement has been upgraded to the era of Industry 4.0. Application field:

The PW-300M electric ultrasonic hardness tester adopts a modular design, coupled with electric ultrasonic probes MP-300 and UP-500. NP-800. The MP-1000 can measure the roller shaft. Screw, wind power, etc. have chromium plating, copper plating, carburizing, nitriding layer hardness of the sample plating layer.

Product features:

High accuracy: the test accuracy can reach HV: \pm 3% HV, HR: \pm 1.5HR, HB: \pm 3% HB;

Small indentation: The inner eye cannot be directly observed, and can only be detected using a high-power full phase microscope;

Fast speed: The test results are output in 6 seconds, increasing the efficiency of the microhardness tester by 20 times;

Large screen: The current measured value, maximum value, minimum value, average value, and hardness conversion value are directly displayed on the 3.2 " color screen;

Easy to operate: You can quickly generate test results with just one click of operation;

Wireless printing: Support wireless Bluetooth printing and data transmission.

technical parameter

Product Name		Ultrasonic hardness tester			
model		HM300M			
Article No		882-141M			
Optional probe		Manual probe: 10	N. 20N. 49N. 98N:	Electric probe:	3N、5N、8N、10N
Measurement rang	e (DIN)	HBS:100-500: HV:100-1500: HRC:20-68; HRB:55-100: HRA:37-85: Mpa: 255-2180N/mm			
Measurement accuracy (%)	Electrodynamic probe	<250HV	250 [~] 500HV	500 [~] 800Hv	>800HV
	HVO. 1	6	7	8	9
	HVO. 3	6	7	8	9
	HVO. 8	5	5	6	7
	HV1	5	5	6	7
	HV5	5	5 com	5	5
	HV10	5	5	5	5
Hardness scale		Vickers (HV): Ro	ockwell (HRA, HRB,	HRC); Brinell (H	B): Shaw (HS)
display		3.2"Color LCD sc	reen		
data display		Measured value, m	naximum value, mini	mum value, average	e value, hardness
	Mer	conversion value, and measurement mode			
Language selecti	on	Chinese, English, Depan, Portuguese, Turkish			
data output		RS232 data output			
Data printing		Bluetooth wireless printer			
data storage		Can store 20 sets of correction data and 1000 sets of measurement data			
Text input		Support number and letter input			
work environment		Temperature: - 10C~50C; Temperature: 30%~80%			
Battery only		Rechargeable lit	hium battery, wor	king voltage 4.2V	, 3200mAh

Charging voltage	AC220V/50Hz, 110V/60Hz	
Host size and weight	Host size: 160x80x31mm; Host weight: 500g (excluding probe)	
Package size and weight	Outer package size: 400x320x150mm; Package weight: 5Kg	
Standard configuration		

Standard configuration

Product Name	Article No	Product Name	Article No	Product Name	Article No
main engine	882-141M	10NElectric	882-251	Shockproof	882-901
SU-300	Mebs	probe		instrument box	
Rongmin	882-641	Probe data line	882-801	Hexagon wrench	/
hardness block	Emi	311.,			
(58~65) HRC					
USB Charger	882-851	Product Packing	SU-300M	instructions	SU-300W
		List			
Product	SU-300M	Product	SU-300M	/	/
certificate		warranty card			

Manual probe of ultrasonic hardness tester



Manual probe features:

- Olltrasonic contact impedance method:
- Hardness measurements can be obtained without the aid of an external support:

- ●Excellent ergonomic design for easy lifting of the probe:

 ●The size and weight of the probable and in t ●The size and weight of the probe make it easier to control the measurement angle:
- •Accurate and fast measurements can be made at fixed locations, even at the edges of the material:
- ●The surface indentation is very small, which is very convenient for post processing of materials and workpieces.

Technical parameters:

Probe type	HP-1K	HP-2K	HP-5K	HP-10K		
Article No	882-311	882-321	882-331	882-341		
True test force	10N	20N	50N	98N		
diameter	22mm	22mm	22mm	22mm		
length	154mm	154mm	154mm	154mm		
Resonant rod	2.4mm	2.4mm	3mm	3 mm		
diameter	Meps,	aharii.				
ail:info@						
	Email:inic					

technical parameter:

Probe type	HP−1K	НР−2К	НР−5К	HP-10K
Article No	882-311	882-321	882-331	882-341
True test force	10N	20N	50N	98N
diameter	22mm	22mm	22mm	22mm
length	154mm	154mm	154mm	154mm
Resonant rod	2.4mm	2.4mm	3 mm	3mm
diameter				
Maximum roughness	Ra<3. 2um	Ra<5um	Ra<10um	Ra<15um
of measuring				
surface				
Minimum weight of	0.3kg	0.3kg	0. 3kg	0. 3kg
workpiece				
Minimum thickness	2mm	2mm	2mm	2mm
of workpiece				

Electric probe of ultrasonic hardness tester



Features of electric probe:

- Ultrasonic contact impedance method:
- Hardness measurements can be obtained without the aid of an external support:
- Excellent ergonomic design for easy grip on the probe:
- The surface indentation is very small, which is very convenient for post processing of materials and workpieces:

- Accurate one-click quick measurement:

 Planar support ring with measurement.
- armonywolrd.co Especially suitable for hardness measurement of thin films and coatings, with more accurate measurement accuracy:
- Equipped with a deep hole protective cap, it can be used in various applications for measurement.

Technical parameters:

Probe type	MP-300	MP-500	MP-800	WP-1000
Article No	882-211	882-231	882-241	882-251
True test force	3N	5N	8N	10N
Straight lightness	46mm	46mm	46mm	46mm

- Excellent ergonomic design for easy grip on the probe:
- The surface indentation is very small, which is very convenient for post processing of materials and workpieces:
- Electric loading/holding/unloading:
- Accurate one-click quick measurement:
- Planar support ring with magnetic force:
- Especially suitable for hardness measurement of thin films and coatings, with more accurate measurement accuracy:
- Equipped with a deep hole protective cap, it can be used in various applications for measurement.

Technical parameters:

Technical paran	neters:	.com		
Probe type	MP-300	MP-500	MP-800	WP-1000
Article No	882-211	882-231	882-241	882-251
True test force	3N	5N	8N	10N
diameter	46mm	46mm	46mm	46mm
length	197.5mm	197.5mm	197. 5mm	197.5mm
Resonant rod	3. 7mm	3. 7mm	3. 7mm	3. 7mm
diameter				
Minimum weight of	0.3kg	0.3kg	0.3kg	0.3kg
workpiece				
Minimum thickness of	2mm	2mm	2mm	2mm
workpiece				

Standard hardness block parameters:

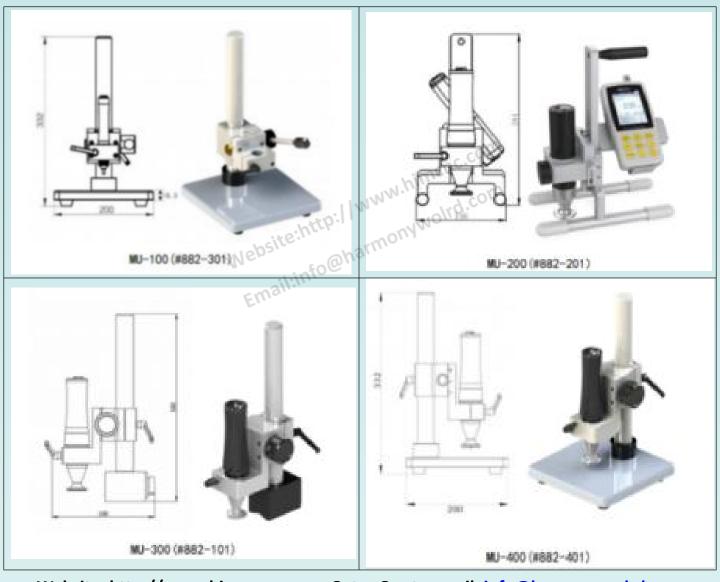
Hardness value range	Article No	Uniformity	Hardness block size
(28~35)HRC	882-611	\pm 1.5HRC	Ø90x16mm
(38~45) HRC	882-621	\pm 1.5HRC	Ø90x16mm
(48~55)HRC	882-631	±1.5HRC	Ø90x16mm
(58~65)HRC	882-641	±1.5HRC	Ø90x16mm

(300~80	0)HV 1	882-651	±3%HV	Ø90x16mm				
(300~80	0)HV 5	882-661	±3%HV	Ø90x16mm				
(300~800) HV 10	882-671	±3%HV	Ø90x16mm				
(85~550)HB		882-681	±3%HB	Ø90x16mm				
Test stand	Test stand:							
model	NALL 100	WILL 200	MIT 300	NALL 400				

Test stand:

model	MU-100	WU-200	MU-300	MU-400
Article No#	882-301	882-201	882-101	882-401
material	stainless steel	Magnesium aluminum alloy	aluminium	stainless steel
weight	8.8Kg	1.6Kg	4.5Kg	9.5Kg
Overall	200x200x332mm	205x142x284mm	200x120x348mm	200x200x332mm
dimensions				
Package size	320x320x440mm	405x340x580mm	398x310x540mm	398x398x530mm
remarks	Special bracket for	Special bracket for electric	Magnetic support	Special bracket for
	manual probe	probe rolling and lifting		electric probe

Test stand model classification:



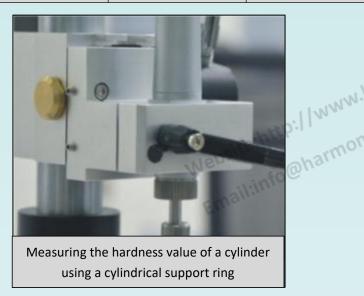


Support ring parameters:

_				
Name of support ring		Flat support ring	Small cylindrical support	Large cylindrical support
			ring	ring
	Article No	882-511	882-521	882-531
	Application Country	Planar specimen	Specimens with a diameter	Diameter 16-80mm sample
			of 8-22m	

Support ring and protective cap:







the hardness of the nut

Application field of ultrasonic hardness tester probe:

Test force 98N	model Standard length (manual)	characteristic Large indentation, minimum surface requirements	Typical Applications Small forgings, casting materials, weld inspection,
98N	n.www.h	-WC.	5 5 .
3011	A. WWW.	surface requirements	materials, weld inspection,
	Charadand Isoseth (Assault)	· com	
	Ctourdoud loughth (moon col)	7 60	heat affected zone
49 N	Standard length (manual)	Commonly used, the length is	Induction hardened or
	Long probe (manual)	extended by 30mm and	carburized parts such as
,	Short probe (manual)	shortened by 90mm, and the	camshaft, turbine weld
	Email:info@	electronic components are	inspection, heat affected zone,
	EWa	arranged in a separate manner	measuring grooves, tooth sides
			and roots, full wheel blades,
			inner walls of pipes with a
			diameter greater than 90 mm
10 N	Standard length (manual)	Easy to pressurize, provides	Ion nitriding die, mold shell,
	Long probe (manual)	control for small radius testing,	fixture, thin-walled bearing,
	Short probe (manual)	lengthens by 30mm, shortens	toothed turbine blade, inner
		by 90mm, and has a separate	wall of pipe with diameter
		arrangement of electronic	greater than 90 mm
		components	
10N	Electric probe	Motor loading	Smooth precision parts, gears,
			bearing raceways
8N	Electric probe	Motor loading	Smooth precision parts, gears,
		-m	grapefruit bearing channels
3N	Electric probe	Motor loaded, less dents	Thin layer, such as steel or
		an hime	chromium on a steel sheet:
	.119	MMA.	Copper rotary photocopier:
	-http://	-WAMO!	Coating, surface
	Website.	Motor loaded, less dents	