AUTOMATIC DIGITAL ROCKWELL/SUPERFICIAL ROCKWELL HARDNESS TESTER

(ADVANCED TYPE) CODE HDT-CRS200

BUILT-IN BLUETOOTH AUTOMATIC TEST

FORCE LOADING BY ELECTRIC MOTOR (WITHOUT WEIGHTS)

control up and down movement of the indenter

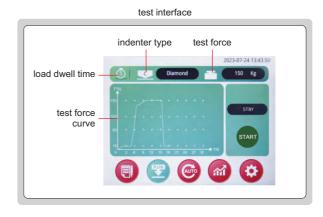
TOUCH SCREEN HIGH ACCURACY







- One click operation can obtain measurement results, enabling large-scale hardness measurement of workpieces
- CNC system, close-loop electronic control system applies test force
- Touch screen operation and display
- Cantilevered structure, achieving full automation of hardness measurement
- The big flat stage is convenient for testing and can work in conjunction with robotic arms and automation equipment to step up online hardness testing and achieve completely unmanned testing
- Bluetooth, RS232 data transmission to computer, data management using hardness management software
- According to ISO 6508, ASTM E18, JIS Z2245



test result display interface

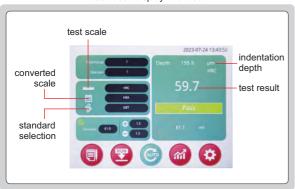
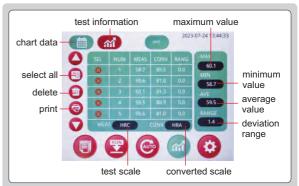


chart interface



To be continued





Ø58mm flat anvil (included)



V-type anvil (included)



bluetooth printer (included)

SPECIFICATION

ent range	Rockwell: 20~88HRA, 20~100HRB, 20~70HRC Superficial RockWell: 70~91HR15N, 42~80HR30N, 42~70HR45N, 73~93HR15T, 43~82HR30T, 12~72HR45T		
with indenter included	HRA, HRB, HRC, HRD, HRF, HRG, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T		
with optional indenter	HRE, HRH, HRK, HRL, HRM, HRP,HRR, HRS, HRV, HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y		
/ test force	Superficial Rockwell: 29.4N (3kgf) Rockwell: 98N (10kgf)		
	Superficial Rockwell: 147N (15kg), 294N (30kg),441N (45kg) Rockwell: 588N (60kg), 980N (100kg),1471N (150kg)		
accuracy	±1%		
ıl mode	automatic		
ol	automatic (load/dwell/unload)		
	0.05HR		
time	0~99 second		
oiece height	300mm		
g width	200mm (from the center of indenter to the wall of main body)		
	bluetooth printer, RS232		
ply	220V, 50/60Hz		
	555×400×1250mm		
	130kg		
	with indenter included with optional indenter test force accuracy I mode ol time piece height g width		

STANDARD DELIVERY

Main unit	1 pc
Diamond indenter	1 pc
Ø1.588mm carbide ball indenter	1 pc
Ø58mm flat anvil	1 pc
V-type anvil	1 pc
Hardness test block HRB20~30	1 pc
Hardness test block HRC60~70	1 pc
Hardness test block HRBW80~100	1 pc
Hardness test block HR30N60~85	1 pc
Hardness test block HR30TW70~85	1 pc
Bluetooth printer	1 pc

Hardness test block HRC20~30	HDT-B-HRC1		
Hardness test block HRC60~70	HDT-B-HRC3		
Hardness test block HRB80~100	HDT-B-HRB		
Hardness test block HR15N78~88	HDT-B-HR15N2		
Hardness test block HR30N55~73	HDT-B-HR30N2		
Hardness test block HR30T73~82	HDT-B-HR30T		
Desk	HDT-DESK1		



MOTORIZED DIGITAL ROCKWELL/SUPERFICIAL ROCKWELL HARDNESS TESTERS (DOLPHIN-NOSE TYPE)

FORCE LOADING BY ELECTRIC MOTOR (WITHOUT WEIGHTS)







workpiece demonstration





HDT-DM310

- Full closed-loop precise control, real-time monitoring of test force, greatly increase the accuracy
- Dolphin-nose structure indenter, more measuring space
- Measurements on 30 Rockwell and Superficial Rockwell scales
- Convertible to various hardness standards such as HB, HV, HLD, HK and tensile strength
- 250 sets of data are stored independently in the mainframe, which can be accessed at any time
- Mean, variance, maximum and minimum statistics are available
- USB communication port, can be connected to an external computer, measurement data Excel output
- Correction function automatically corrects the measurement results of curved parts
- Conforms to ASTM E-18, ISO 6508





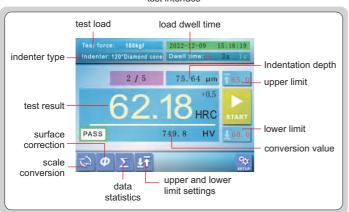
Ø150mm flat anvil (included)

V-type anvil (included)

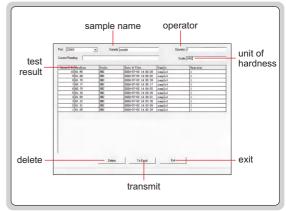


integrated printer (optional)

test interface



computer software (included)



To be continued



SPECIFICATION

Code		HDT-DM290	HDT-DM300	HDT-DM310	
Туре		Rockwell	Superficial Rockwell	Rockwell and Superficial Rockwell	
Hardness	with indenter included	HRA, HRB, HRC, HRD, HRF, HRG	HR15N, HR30N, HR45N, HR15T, HR30T, HR45T	HRA, HRB, HRC, HRD, HRF, HRG, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T	
scale	with optional indenter	HRE, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV	HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y	HRE, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV, HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y	
Preliminary to	est force	98N/10kgf for Rockwell	29.4N/3kgf for superficial Rockwell	98N/10kgf for Rockwell 29.4N/3kgf for superficial Rockwell	
Test force		588N (60kg), 980N (100kg), 1471N (150kg)	147N (15kg), 294N (30kg), 441N (45kg)	147N (15kg), 294N (30kg), 441N (45kg), 588N (60kg), 980N (100kg), 1471N (150kg)	
Stage elevation	on	manual			
Load control		automatic (load/dwell/unload)			
Load dwell tir	me	2~250 seconds, can be set			
Resolution		0.01HR			
Max. workpie	ce height	290mm			
Max. testing width		220mm			
Max. bore depth		130mm			
Min. testing inner diameter		35mm			
Power supply		220V, 50/60Hz			
Dimension		700×290×880mm			
Weight		85kg			

STANDARD DELIVERY

Code	HDT-DM290	HDT-DM300	HDT-DM310
Main unit	1 pc	1 pc	1 pc
Diamond indenter	1 pc	1 pc	1 pc
Ø1.5875mm carbide ball indenter	1 pc	1 pc	1 pc
Ø150mm flat anvil	1 pc	1 pc	1 pc
V-type anvil	1 pc	1 pc	1 pc
Hardness test block HRC20~30	1 pc	_	1 pc
Hardness test block HRC35~55	1 pc	_	1 pc
Hardness test block HRC60~70	1 pc	_	1 pc
Hardness test block HRB85~100	1 pc	_	1 pc
Hardness test block HRA80~88	1 pc	_	1 pc
Hardness test block HR15N89~91	_	1 pc	1 pc
Hardness test block HR15T88~93	_	1 pc	1 pc
Hardness test block HR30N74~80	_	1 pc	1 pc
Hardness test block HR30T70~82	_	1 pc	1 pc
Computer software and USB cable	1 pc	1 pc	1 pc
Anti-dust cover	1 pc	1 pc	1 pc

Hardness test block HRC20~30	HDT-B-HRC1
Hardness test block HRC35~55	HDT-B-HRC2
Hardness test block HRC60~70	HDT-B-HRC3
Hardness test block HRB88~100	HDT-B-HRB
Hardness test block HRA80~84	HDT-B-HRA
Hardness test block HR15N78~88	HDT-B-HR15N2

Hardness test block HR15T88~93	HDT-B-HR15T
Hardness test block HR30N55~73	HDT-B-HR30N2
Hardness test block HR30T73~82	HDT-B-HR30T
Ø90mm flat anvil	HDT-DM290-FA
Ø230mm flat anvil	HDT-DM290-FB
Integrated printer (Require pre-installation)	HDT-DM290-PT



MOTORIZED DIGITAL ROCKWELL/SUPERFICIAL ROCKWELL HARDNESS TESTERS

8" touch screen







FORCE LOADING BY ELECTRIC MOTOR (WITHOUT WEIGHTS)





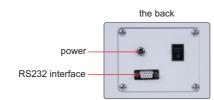
Ø58mm flat anvil (included)

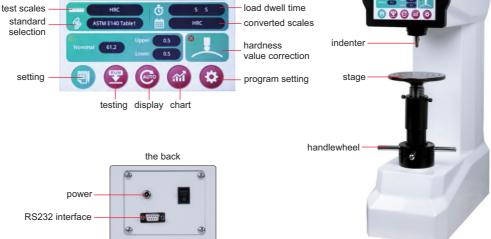


Ø150mm flat anvil (included)



(included)



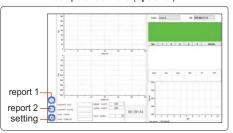


HDT-RT151

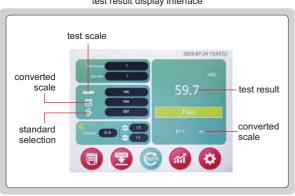


(included)





test result display interface



test interface

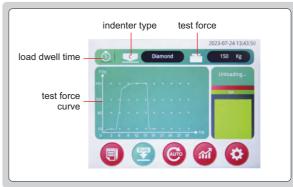
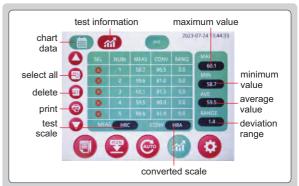


chart interface





- Electronic loading test force, high accuracy of force value, and stable measurement value
- Touch screen operation and display, simple operation interface
- 15 types of Rockwell hardness scales can be tested
 Convertible to various hardness standards such as HB and HV
- 500 sets of storage
- With correction function, the hardness value can be corrected based on the size of the cylinders
- According to ISO 6508

SPECIFICATION

Code HDT-RT151 HI		HDT-RT152	HDT-RT153	
Туре		Rockwell	Superficial Rockwell	Rockwell and Superficial Rockwell
Measurement range		20~88HRA, 20~100HRB, 20~70HRC	70~91HR15N, 42~80HR30N, 42~70HR45N, 73~93HR15T, 43~82HR30T, 12~72HR45T	Rockwell: 20~88HRA, 20~100HRB, 20~70HRC; Superficial RockWell: 70~91HR15N, 42~80HR30N, 42~70HR45N, 73~93HR15T, 43~82HR30T, 12~72HR45T
Handaaa	with indenter included	HRA, HRB, HRC, HRD, HRF, HRG	HR15N, HR30N, HR45N, HR15T, HR30T, HR45T	HRA, HRB, HRC, HRD, HRF, HRG, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
Hardness scale with optio indenter		HRE, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV	HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y	HRE, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV, HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y
Preliminary test force		98N/10kgf for Rockwell	29.4N/3kgf for Superficial Rockwell	98N/10kgf for Rockwell 29.4N/3kgf for Superficial Rockwell
		588N (60kg), 980N (100kg), 1471N (150kg)	147N (15kg), 294N (30kg), 441N (45kg)	147N (15kg), 294N (30kg), 441N (45kg), 588N (60kg), 980N (100kg), 1471N (150kg)
Stage elev	ation	manual		
Load contr	ol	automatic (load/dwell/unload)		
Load dwell time 2~60 second		2~60 second		
Resolution 0.1HR				
Max. workpiece height 230mm				
Max. testing width 170mm				
Power supply 100~240V, 50/60Hz				
Dimension 475×200×700mm				
Weight 70kg				

STANDARD DELIVERY

Code	HDT-RT151	HDT-RT152	HDT-RT153
Main unit	1 pc	1 pc	1 pc
Diamond indenter	1 pc	1 pc	1 pc
Ø1.5875mm carbide ball indenter	1 pc	1 pc	1 pc
Ø58mm flat anvil	1 pc	1 pc	1 pc
Ø150mm flat anvil	1 pc	1 pc	1 pc
V-type anvil	1 pc	1 pc	1 pc
Hardness test block HRC20~30	1 pc	<u> </u>	1 pc
Hardness test block HRC40~50	1 pc	_	_
Hardness test block HRC60~70	1 pc	_	1 pc
Hardness test block HRBW80~100	1 pc	_	1 pc
Hardness test block HRA80~90	1 pc	<u> </u>	<u> </u>
Hardness test block HR15N80~90		1 pc	_
Hardness test block HR30N60~85		1 pc	1 pc
Hardness test block HR30TW70~85		1 pc	1 pc
Printer	1 pc	1 pc	1 pc
Anti-dust cover	1 pc	1 pc	1 pc

OI HORAL ACCESSORY			
Hardness test block HRC20~30	HDT-B-HRC1		
Hardness test block HRC35~55	HDT-B-HRC2		
Hardness test block HRC60~70	HDT-B-HRC3		
Hardness test block HRB88~100	HDT-B-HRB		
Hardness test block HRA80~84	HDT-B-HRA		
Hardness test block HR15N78~88	HDT-B-HR15N2		

Hardness test block HR30N55~73	HDT-B-HR30N2	
Hardness test block HR30T73~82	HDT-B-HR30T	
Software	HDT-RT15-RECEIVER	
Ø12.7mm carbide ball indenter	HDT-RT15-INDENTER1	
Ø6.35mm carbide ball indenter	HDT-RT15-INDENTER2	
Ø3.175mm carbide ball indenter	HDT-RT15-INDENTER3	



AUTOMATIC DIGITAL ROCKWELL/SUPERFICIAL ROCKWELL HARDNESS TESTERS

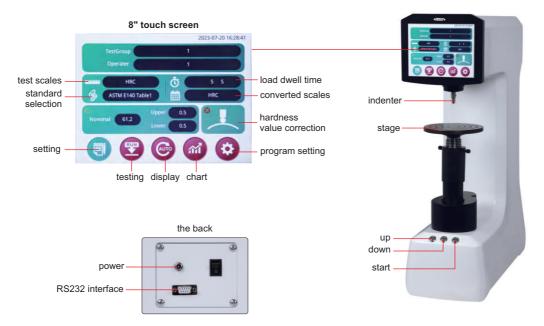




AUTOMATIC LIFTING/ LOADING/UNLOADING







HDT-ST300

- $\,\blacksquare\,$ Comply with the test standards of GB/T 230, ISO 6508, ASTM E18, JIS Z2245
- Implement the scale conversion standards such as ISO, ASTM, and GB
- 8 inch touch screen for operation and display
- Capable of testing 15 Rockwell hardness scales and surface Rockwell scales
- The main unit can independently store 500 groups of data, and the data will not be lost in case of power failure
- With correction function, the hardness value can be corrected based on the size of the cylinders





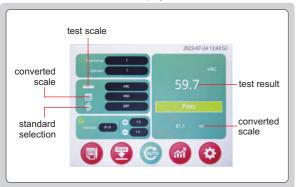


Ø150mm flat anvil (included)

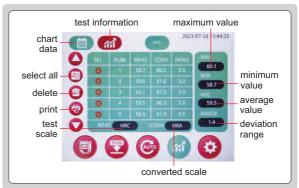




test result display interface









SPECIFICATION

Code	HDT-ST300 HDT-ST310		HDT-ST320		
Type Rockwell		Rockwell	Superficial Rockwell	Rockwell and Superficial Rockwell	
Measurement range		20~95HRA, 10~100HRB, 10~70HRC	70~94HR15N, 42~86HR30N, 20~77HR45N, 67~93HR15T, 29~82HR30T, 10~72HR45T	Rockwell: 20~95HRA, 10~100HRB, 10~70HRC; Superficial RockWell: 70~94HR15N, 42~86HR30N, 20~77HR45N, 67~93HR15T, 29~82HR30T, 10~72HR45T	
with indenter included		HRA, HRB, HRC, HRD, HRF, HRG	HR15N, HR30N, HR45N, HR15T, HR30T, HR45T	HRA, HRB, HRC, HRD, HRF, HRG, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T	
Hardness scale	with optional indenter	HRE, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV	HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y	HRE, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV, HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y	
Preliminary test force		98N/10kgf for Rockwell	29.4N/3kgf for Superficial Rockwell	98N/10kgf for Rockwell 29.4N/3kgf for Superficial Rockwell	
Test force 588N (60kg), 980N 1471N (150kg)		588N (60kg), 980N (100kg), 1471N (150kg)	147N (15kg), 294N (30kg), 441N (45kg)	147N (15kg), 294N (30kg), 441N (45kg), 588N (60kg), 980N (100kg), 1471N (150kg)	
Stage elev	ation	automatic up, down and return	1		
Load conti	rol	automatic (initial test force, ma	ain test force loading/holding/unlo	pading)	
Load dwell time 2~60secon		2~60second	~60second		
Resolution 0.1HR		0.1HR			
Max. workpiece height 230mm		230mm			
Max. testing width 170mm		170mm			
Power supply 100~240V, 50/60Hz		100~240V, 50/60Hz			
Dimension 475×200×700mm					
Weight 70kg					

STANDARD DELIVERY

Code	HDT-ST300	HDT-ST310	HDT-ST320
Main unit	1 pc	1 pc	1 pc
Diamond indenter	1 pc	1 pc	1 pc
Ø1.5875mm carbide ball indenter	1 pc	1 pc	1 pc
Ø58mm flat anvil	1 pc	1 pc	1 pc
Ø150mm flat anvil	1 pc	1 pc	1 pc
V-type anvil	1 pc	1 pc	1 pc
Hardness test block HRC20~30	1 pc	<u> </u>	1 pc
Hardness test block HRC40~50	1 pc	<u> </u>	_
Hardness test block HRC60~70	1 pc	<u> </u>	1 pc
Hardness test block HRBW80~100	1 pc	1 pc	1 pc
Hardness test block HRA80~90	1 pc	<u> </u>	_
Hardness test block HR15N80~90	_	1 pc	_
Hardness test block HR30N60~85	_	1 pc	1 pc
Hardness test block HR30TW70~85	_	1 pc	1 pc
Printer	1 pc	1 pc	1 pc
Anti-dust cover	1 pc	1 pc	1 pc

Hardness test block HRC20~30	HDT-B-HRC1
Hardness test block HRC35~55	HDT-B-HRC2
Hardness test block HRC60~70	HDT-B-HRC3
Hardness test block HRB88~100	HDT-B-HRB
Hardness test block HRA80~84	HDT-B-HRA
Hardness test block HR15N78~88	HDT-B-HR15N2

Hardness test block HR30N55~73	HDT-B-HR30N2
Hardness test block HR30T73~82	HDT-B-HR30T
Software	HDT-RT15-HID
Ø12.7mm carbide ball indenter	HDT-RT15-INDENTER1
Ø6.35mm carbide ball indenter	HDT-RT15-INDENTER2
Ø3.175mm carbide ball indenter	HDT-RT15-INDENTER3



MOTORIZED ROCKWELL HARDNESS TESTER (BASIC TYPE) CODE HDT-RA151







According to ISO 6508



Ø58mm flat anvil (included)



Ø150mm flat anvil (included)



V-type anvil (included) for cylinders with diameter Ø4~60mm



level (included)



small V-type anvil (optional) for cylinders with diameter Ø2~4mm



desk (optional)

SPECIFICATION

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<u> </u>	
Hardness scale	HRA, HRB, HRC, HRD, HRF, HRG
Preliminary test force	98N
Test force	588N, 980N, 1471N
Display	analogue
Stage elevation	manual
Load control	automatic (load/dwell/unload)
Load dwell time	1~60 second
Min. reading	0.5HR
Max. workpiece height	170mm
Max. testing width	128mm (from the center of indenter to the wall of main body)
Power supply	220V, 50/60Hz
Dimension	500×225×640mm
Weight	65kg

STANDARD DELIVERY

CIANDAND DELIVER	
Main unit	1 pc
Ø58mm flat anvil	1 pc
Ø150mm flat anvil	1 pc
V-type anvil	1 pc
Diamond indenter	1 pc
Ø1.5875mm steel ball indenter	1 pc
Level	1 pc
Hardness test block HRA80~88	1 pc
Hardness test block HRB85~95	1 pc
Hardness test block HRC20~30	1 pc
Hardness test block HRC35~55	1 pc
Hardness test block HRC60~70	1 pc
Anti-dust cover	1 pc

Hardness test block HRA80~84	HDT-B-HRA
Hardness test block HRB88~100	HDT-B-HRB
Hardness test block HRC20~30	HDT-B-HRC1
Hardness test block HRC35~55	HDT-B-HRC2
Hardness test block HRC60~70	HDT-B-HRC3
Small V-type anvil	HDT-RW160-SV
Desk	HDT-DESK



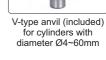
INSPECTION

MOTORIZED HIGH ROCKWELL HARDNESS TESTER CODE HDT-RM421





According to ISO 6508



level (included)



Ø150mm flat anvil (included)



Ø58mm flat anvil (included)



small V-type anvil (optional) for cylinders with diameter Ø2~4mm

SPECIFICATION

HRA, HRB, HRC, HRD, HRF, HRG
98N (10kg)
588N (60kg), 980N (100kg), 1471N (150kg)
analogue
manual
automatic (load/dwell/unload)
1~60 second
0.5HR
400mm
160mm (form the center of indenter to the wall of main body)
220V, 50/60Hz
540×300×1030mm
140kg

STANDARD DELIVERY

Main unit	1 pc
Ø58mm flat anvil	1 pc
Ø150mm flat anvil	1 pc
V-type anvil	1 pc
Diamond indenter	1 pc
Ø1.5875mm steel ball indenter	1 pc
Ø1.5875mm steel ball	5 pcs
Level	1 pc
Hardness test block HRA80~84	1 pc
Hardness test block HRB88~100	1 pc
Hardness test block HRC20~30	1 pc
Hardness test block HRC35~55	1 pc
Hardness test block HRC60~70	1 pc
Anti-dust cover	1 pc

OF HONAL ACCESSORT	
Hardness test block HRA80~84	HDT-B-HRA
Hardness test block HRB88~100	HDT-B-HRB
Hardness test block HRC20~30	HDT-B-HRC1
Hardness test block HRC35~55	HDT-B-HRC2
Hardness test block HRC60~70	HDT-B-HRC3
Small V-type anvil	HDT-RW160-SV

MANUAL HIGH ROCKWELL HARDNESS TESTER CODE HDT-RH411









level (included)



V-type anvil (included) for cylinders with diameter Ø4~60mm



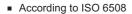
Ø150mm flat anvil (included)



Ø58mm flat anvil (included)



small V-type anvil (optional) for cylinders with diameter Ø2~4mm



SPECIFICATION

Hardness scale	HRA, HRB, HRC, HRD, HRF, HRG
Preliminary test force	98N (10kg)
Test force	588N (60kg), 980N (100kg), 1471N (150kg)
Display	analogue
Stage elevation	manual
Load control	manual
Min. reading	0.5HR
Max. workpiece height	400mm
Max. testing width	160mm (form the center of indenter to the wall of main body)
Dimension	540×300×1030mm
Weight	140kg

STANDARD DELIVERY

Main unit	1 pc
Ø58mm flat anvil	1 pc
Ø150mm flat anvil	1 pc
V-type anvil	1 pc
Diamond indenter	1 pc
Ø1.5875mm steel ball indenter	1 pc
Ø1.5875mm steel ball	5 pcs
Level	1 pc
Hardness test block HRA80~84	1 pc
Hardness test block HRB88~100	1 pc
Hardness test block HRC20~30	1 pc
Hardness test block HRC35~55	1 pc
Hardness test block HRC60~70	1 pc
Anti-dust cover	1 pc

OF HONAL ACCESSORY		
Hardness test block HRA80~84	HDT-B-HRA	
Hardness test block HRB88~100	HDT-B-HRB	
Hardness test block HRC20~30	HDT-B-HRC1	
Hardness test block HRC35~55	HDT-B-HRC2	
Hardness test block HRC60~70	HDT-B-HRC3	
Small V-type anvil	HDT-RW160-SV	

CODE ISH-R150

MANUAL ROCKWELL HARDNESS TESTER

INSPECTION CERTIFICATE



■ According to ISO 6508





Ø60mm flat anvil (included)



Ø150mm flat anvil (included)



V-type anvil (included) for cylinders with diameter Ø4~60mm



small V-type anvil (optional) for cylinders with diameter Ø2~4mm



desk (optional)

SPECIFICATION

Hardness scale	HRA, HRB, HRC, HRD, HRF, HRG
Preliminary test force	98N
Test force	588N, 980N, 1471N
Display	analogue
Stage elevation	manual
Load control	manual
Min. reading	0.5HR
Max. workpiece height	170mm
Max. testing width	165mm (from the center of indenter to the wall of main body)
Dimension	520×160×700mm
Weight	60kg

OPTIONAL ACCESSORY

Hardness test block HRB88~100	HDT-B-HRB
Hardness test block HRC60~70	HDT-B-HRC3
Hardness test block HRC20~30	HDT-B-HRC1
Small V-type anvil	ISH-SMALLANVIL
Desk	HDT-DESK

STANDARD DELIVERY

Main unit	1 pc
Ø60mm flat anvil	1 pc
Ø150mm flat anvil	1 pc
V-type anvil	1 pc
Diamond indenter	1 pc
Ø1.5875mm carbide ball indenter	1 pc
Hardness test block HRB88~95	1 pc
Hardness test block HRC60~65	1 pc
Hardness test block HRC20~30	1 pc
Anti-dust cover	1 pc



MANUAL ROCKWELL HARDNESS TESTER (BASIC TYPE) CODE HDT-RW160







According to ISO 6508





Ø58mm flat anvil (included)



Ø150mm flat anvil (included)



V-type anvil (included) for cylinders with diameter Ø4~60mm



level (included)



small V-type anvil (**optional**) for cylinders with diameter Ø2~4mm



desk (optional)

SPECIFICATION

27

SPECIFICATION	
Hardness scale	HRA, HRB, HRC, HRD, HRF, HRG
Preliminary test force	98N (10kg)
Test force	588N (60kg), 980N (100kg), 1471N (150kg)
Display	analogue
Stage elevation	manual
Load control	manual
Min. reading	0.5HR
Max. workpiece height	170mm
Max. testing width	135mm (from the center of indenter to the wall of main body)
Dimension	466×238×630mm
Weight	70kg

STANDARD DELIVERY

Main unit	1 pc
Ø58mm flat anvil	1 pc
Ø150mm flat anvil	1 pc
V-type anvil	1 pc
Diamond indenter	1 pc
Ø1.5875mm steel ball indenter	1 pc
Ø1.5875mm steel ball	5 pcs
Level	1 pc
Hardness test block HRA80~88	1 pc
Hardness test block HRB85~95	1 pc
Hardness test block HRC20~30	1 pc
Hardness test block HRC35~55	1 pc
Hardness test block HRC60~70	1 pc
Anti-dust cover	1 pc

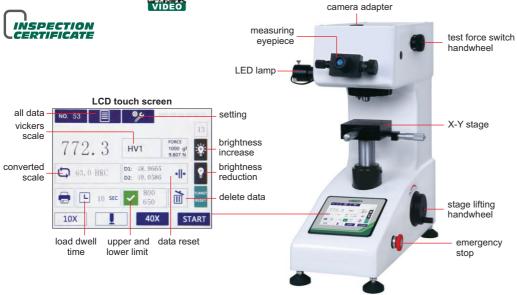
Hardness test block HRA80~84	HDT-B-HRA
Hardness test block HRB88~100	HDT-B-HRB
Hardness test block HRC20~30	HDT-B-HRC1
Hardness test block HRC35~55	HDT-B-HRC2
Hardness test block HRC60~70	HDT-B-HRC3
Small V-type anvil	HDT-RW160-SV
Desk	HDT-DESK







DIGITAL MICRO-VICKERS HARDNESS TESTER (BASIC TYPE) CODE HDT-MVE1300





- Touch screen color LCD display
- Data storage and average value calculation
- Automatic switch between the indenter and objective lens
- According to ISO 6507



cylinder holder (included)



slice holder (included)



vice (included)



desk (optional)



camera and measuring software (optional)



SPECIFICATION

000	
Test force	0.098N (10gf), 0.245N (25gf), 0.49N (50gf), 0.98N (100gf), 1.96N (200gf), 2.94N (300gf), 4.9N (500gf), 9.8N (1kgf)
Vickers scales	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1
Converted scales	HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
Range	5~3000HV
Length measurement resolution	0.5µm
Objective/indenter switch	motor driven turret
Stage lifting	manual
Load control	automatic (load/dwell/unload)
Load dwell time	1~60 second
Objective	10X, 40X
Eyepiece	10X
Total magnification	100X (for measurement or observation), 400X (for measurement)
Max. workpiece height	90mm
Max. testing width	95mm (from the center of indenter to the wall of main body)
X-Y stage	dimension: 100×100mm, travel range: 25×25mm
Power supply	220V, 50/60Hz
Dimension	510×290×570mm
Weight	40kg

STANDARD DELIVERY

OTANDAND BELIVER	
Main unit	1 pc
10X, 40X objective	1 pc of each
Micro vickers indenter	1 pc
Hardness test block 400~500HV0.2	1 pc
Hardness test block 700~750HV1	1 pc
Slice holder	1 pc
Vice	1 pc
Cylinder holder	1 pc
Anti-dust cover	1 pc

·	
Hardness test block 400~500HV0.2	HDT-B-HV02C
Hardness test block 700~750HV1	HDT-B-HV1F
Knoop indenter	HDT-MV-KNOOP
Camera	HDT-MVH-CM
Measuring software (manual)	HDT-MVH-SW
Measuring software (automatic)	HDT-MVH-AW
Desk	HDT-DESK



DIGITAL MICRO-VICKERS HARDNESS TESTER (STANDARD TYPE) CODE HDT-MVH1100

setting







all data

vickers scale

converted

scale

MOTOR DRIVEN TURRET

LCD touch screen

HV1

upper and data reset

lower limit



+||+





cylinder holder (included)



vice (included)



slice holder (included)



load dwell

- Data storage and average value calculation
- Automatic switch between the indenter and objective lens
- According to ISO 6507



camera (optional)

SPECIFICATION

Test force	0.098N (10gf), 0.245N (25gf), 0.49N (50gf), 0.98N (100gf), 1.96N (200gf), 2.94N (300gf), 4.9N (500gf), 9.8N (1kgf)	
Vickers scales	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1	
Converted scales	HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T	
Range	5~3000HV	
Length measurement resolution	0.025μm	
Objective/indenter switch	motor driven turret	
Stage lifting	manual	
Load control	automatic (load/dwell/unload)	
Load dwell time	1~60 second	
Objective	10X, 40X	
Eyepiece	10X	
Total magnification	10X (for measurement or observation), 400X (for measurement)	
Max. workpiece height	90mm	
Max. testing width	95mm (from the center of indenter to the wall of main body)	
X-Y stage	dimension: 100×100mm, travel range: 25×25mm	
Data output	built-in printer	
Power supply	220V, 50/60Hz	
Dimension	510×290×570mm	
Weight	40kg	



stop



STANDARD DELIVERY

Main unit	1 pc
10X, 40X objective	1 pc of each
Micro vickers indenter	1 pc
Hardness test block 400~500HV0.2	1 pc
Hardness test block 700~750HV1	1 pc
Slice holder	1 pc
Vice	1 pc
Cylinder holder	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

OPTIONAL ACCESSORY	
Hardness test block 400~500HV0.2	HDT-B-HV02C
Hardness test block 700~750HV1	HDT-B-HV1F
Knoop indenter	HDT-MV-KNOOP
Camera	HDT-MVH-CM
Measuring software (manual)	HDT-MVH-SW
Measuring software (automatic)	HDT-MVH-AW



INSPECTION

DUAL TOUCH SCREEN DIGITAL MICRO-VICKERS HARDNESS TESTER (ADVANCED TYPE) CODE HDT-DMV90

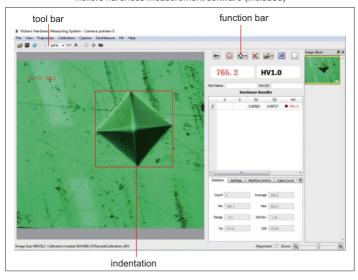








vickers hardness measurement software (included)









vice (included)



slice holder (included)



desk (optional)

- Dual touch screen control, high-definition image measurement and analysis
- One click start, automatic pressing and automatic measurement
- The host and vickers hardness measurement software can be operated independently
- Automatic switch between the indenter and objective lens
- Data storage and average value calculation
- Can connect with wired and wireless networks to transmit data
- According to ISO 6507

SPECIFICATION

Test force	0.098N (10gf), 0.245N (25gf), 0.49N (50gf), 0.98N (100gf), 1.96N (200gf), 2.94N (300gf), 4.9N (500gf), 9.8N (1kgf)		
Vickers scales	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1		
Converted scales	HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T		
Range	5~3000HV		
Length measurement resolution	0.01µm		
Objective/indenter switch	motor driven turret		
Stage lifting	manual		
Load control	automatic (load/dwell/unload)		
Load dwell time	1~60 second		
Objective	10X, 40X		
Eyepiece	10X		
Total magnification	100X (for measurement or observation), 400X (for measurement)		
Max. workpiece height	90mm		
Max. testing width	95mm (from the center of indenter to the wall of main body)		
X-Y stage	dimensions: 100×100mm, travel range: 25×25mm		
Data output	built-in printer, USB		
Power supply	220V, 50/60Hz		
Dimension	500×420×480mm		
Weight	42kg		

STANDARD DELIVERY

Main unit	1 pc
Vickers hardness measurement software	1 pc
10X, 40X objective	1 pc of each
Micro vickers indenter	1 pc
Hardness test block 400~500HV0.2	1 pc
Hardness test block 700~750HV1	1 pc
Wireless keyboard	1 pc
Wireless mouse	1 pc
Vice	1 pc
Slice holder	1 pc
Cylinder holder	1 pc
Auti-dust cover	1 pc

OPTIONAL ACCESSORY

OF HONAL ACCESSORY		
Hardness test block 400~500HV0.2	HDT-B-HV02C	
Hardness test block 700~750HV1	HDT-B-HV1F	
Knoop indenter	HDT-MV-KNOOP	
Desk	HDT-DESK	
OFFICE software	7313-OFFICE	

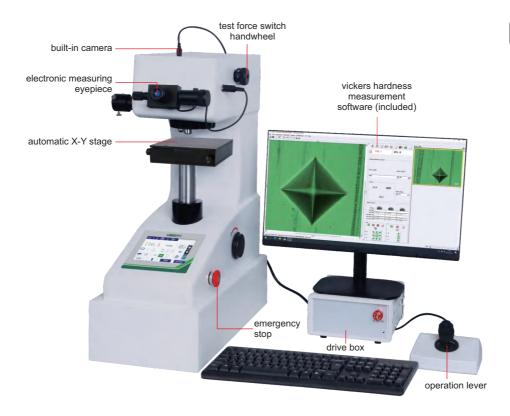


MOTOR DRIVEN TURRET

AUTOMATIC TEST

Z-AXIS **AUTOFOCUS**

AUTOMATIC MICRO-VICKERS HARDNESS TESTER CODE HDT-AMV338













vice (included)



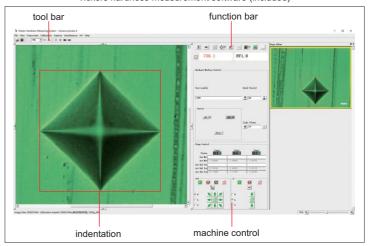
slice holder (included)



desk (optional)

- Suitable for micro-hardness determination of various metals and non-metal materials, effective depth and heat affected area measurement, especially suitable for measuring workpieces hardness gradient distribution curve and surface hardness after heat treatment, effective hardening layer depth
- Automatic switch between the indenter and objective lens
- Z-axis automatic focus, X, Y axis automatic movement, can be for multi-point continuous measurement
- Automatic moving table by built-in step motor, high positioning accuracy, good repeatability, fast moving speed, high efficiency
- Automatic moving table bidirectional movement, equipped with safety devices to avoid misoperation
- The software can control the hardness tester hardware operation, two-way communication with each other
- The image acquisition device has fast reaction speed, high automatic measurement accuracy and good repeatability
- The system can automatically generate Word or Excel test report, and the report template can be modified
- According to ISO 6507

vickers hardness measurement software (included)





AUTOMATIC TEST CONTROL SYSTEM

Hardness tester control	automatic turret, automatic loading, automatic measurement automatic display of test force, load dwell time, illumination brightness			
Automatic control of X-Y stage	software system automatic control of X-Y stage movement			
Measurement mode	automatic mode: automatic loading, automatic measurement, automatic display of measurement results manual measurement mode can be selected			
Automatic measurement	about 0.3sec of one indentation			
Measurement repeatability	±1% (700HV/500gf)			
The smallest indentation that can be measured	about 5μm (automatic measurement)			
Data output format/ edit functions	inspection reports can be customized according to customer requirements the depth of hardened layer is shown in table form output various measurement data, hardness table, hardening layer depth, maximum value, average value, minimum value, image with hardness value			

AUTOMATIC X-Y STAGE

Drive motor	step motor		
Drive control	movement control by software, speed is adjustable		
Dimension	110×110mm		
Max. travel distance	50×50mm		
Min. travel distance	1µm		
Movement speed	1~10mm/sec, speed can be adjusted		
Displacement repetition accuracy	within 1µm		

SPECIFICATION

Test force	0.098N (10gf), 0.245N (25gf), 0.49N (50gf), 0.98N (100gf), 1.96N (200gf), 2.94N (300gf), 4.9N (500gf), 9.8N (1kgf)			
Vickers scales	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1			
Converted scales	HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T			
Range	5~3000HV			
Length measurement resolution	0.01µm			
Objective/indenter switch	motor driven turret			
Stage lifting	manual			
Focus mode	Z-axis autofocus			
Load control	automatic (load/dwell/unload)			
Load dwell time	1~60 second			
Objective	10X, 40X			
Eyepiece	10X			
Total magnification	100X (for measurement or observation), 400X (for measurement)			
Max. workpiece height	80mm			
Max. testing width	110mm (from the center of indenter to the wall of main body)			
Pixel	5M			
Communication interface	RS232			
Power supply	220V, 50/60Hz			
Dimension	520×290×680mm			
Weight	42kg			

STANDARD DELIVERY

Main unit	1 pc
10X, 40X objective	1 pc of each
Micro vickers indenter	1 pc
Hardness test block 400~500HV0.2	1 pc
Hardness test block 700~750HV1	1 pc
Automatic X-Y stage drive box	1 pc
Vickers hardness measurement software	1 pc
Computer	1 pc
Vice	1 pc
Slice holder	1 pc
Cylinder holder	1 pc
Auti-dust cover	1 pc

OF HONAL ACCESSORT			
Hardness test block 400~500HV0.2	HDT-B-HV02C		
Hardness test block 700~750HV1	HDT-B-HV1F		
Knoop indenter	HDT-MV-KNOOP		
Desk	HDT-DESK		
OFFICE software	7313-OFFICE		

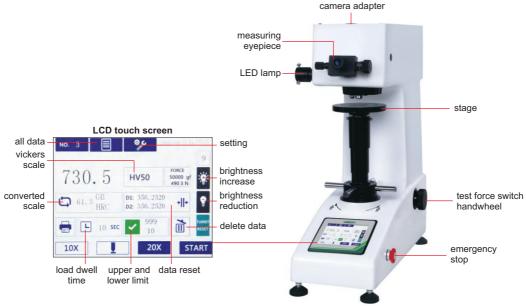






DIGITAL VICKERS HARDNESS TESTERS (BASIC TYPE)





HDT-VE56

- Touch screen color LCD display
- Data storage and average value calculation
- Automatic switch between the indenter and objective lens
- According to ISO 6507





XY platform (optional)



Ø58mm flat anvil (included)





Ø150mm flat anvil (included)



desk (optional)



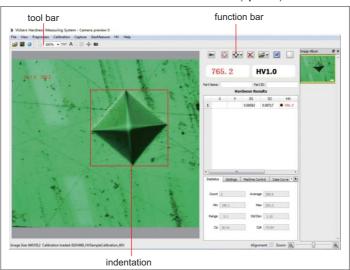
camera (optional)



camera and measuring software (optional)

To be continued

vickers hardness measurement software (optional)



SPECIFICATION

PECIFICATION					
Code	HDT-VE03	HDT-VE14	HDT-VE35	HDT-VE56	
Test force	0.3kgf, 0.5kgf, 1kgf, 2kgf, 3kgf, 5kgf	0.3kgf, 0.5kgf, 1kgf, 3kgf, 5kgf, 10kgf	1kgf, 3kgf, 5kgf, 10kgf, 20kgf, 30kgf	1kgf, 5kgf, 10kgf, 20kgf, 30kgf, 50kgf	
Vickers scales	HV0.3, HV0.5, HV1, HV2, HV3, HV5	HV0.3, HV0.5, HV1, HV3, HV5, HV10	HV1, HV3, HV5, HV10, HV20, HV30	HV1, HV5, HV10, HV20, HV30, HV50	
Converted scales	HRA, HRB, HRC, HRD,	HRF, HV, HK, HBW, HR15	5N, HR30N, HR45N, HR15	T, HR30T, HR45T	
Range	8~3000HV				
Length measurement resolution	0.5µm	0.5µm			
Objective/indenter switch	motor driven turret				
Stage lifting	manual				
Load control	automatic (load/dwell/unload)				
Load dwell time	1~60 second				
Objective	10X, 20X				
Eyepiece	10X				
Total magnification	100X (for measurement or observation), 200X (for measurement)				
Max. workpiece height	175mm				
Max. testing width	135mm (form the center of indenter to the wall of main body)				
Power supply	220V, 50/60Hz				
Dimension	580×320×660mm				
Weight	55kg				

STANDARD DELIVERY

Main unit	1 pc
10X, 20X objective	1 pc of each
Vickers indenter	1 pc
Hardness test block 400~500HV10	1 pc
Hardness test block 700~750HV50	1 pc
Ø58mm flat anvil	1 pc
Ø150mm flat anvil	1 pc
V-type anvil	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

· · · · · · · · · · · · · · · · · · ·	
Hardness test block 400~500HV10	HDT-B-HV10D
Hardness test block 700~750HV50	HDT-B-HV50G
Desk	HDT-DESK
Vickers hardness tester camera (fit 5kg and 10kg)	HDT-MVH-CM1
Vickers hardness tester camera (fit 30kg and 50kg)	HDT-MVH-CM2
XY working platform	HDT-VEH-ST
Measuring software (manual)	HDT-MVH-SW
Measuring software (automatic)	HDT-MVH-AW



INSPECTION

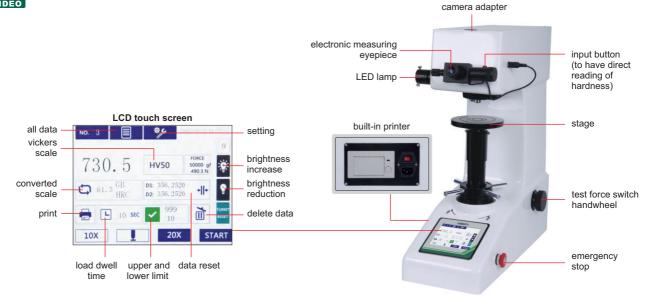
DIGITAL VICKERS HARDNESS TESTERS (STANDARD TYPE)



PRESS INPUT BUTTON TO HAVE DIRECT READING OF HARDNESS







- Touch screen color LCD display
- Data storage and average value calculation
- Automatic switch between the indenter and objective lens
- According to ISO 6507







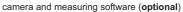
Ø150mm flat anvil (included)





(optional)



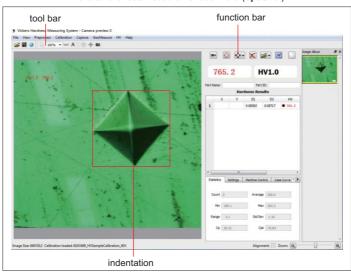


HDT-VH51





vickers hardness measurement software (optional)



SPECIFICATION

Code	HDT-VH05	HDT-VH11	HDT-VH31	HDT-VH51
Test force	0.3kgf, 0.5kgf, 1kgf, 2kgf, 3kgf, 5kgf	0.3kgf, 0.5kgf, 1kgf, 3kgf, 5kgf, 10kgf	1kgf, 3kgf, 5kgf, 10kgf, 20kgf, 30kgf	1kgf, 5kgf, 10kgf, 20kgf, 30kgf, 50kgf
Vickers scales	HV0.3, HV0.5, HV1, HV2, HV3, HV5	HV0.3, HV0.5, HV1, HV3, HV5, HV10	HV1, HV3, HV5, HV10, HV20, HV30	HV1, HV5, HV10, HV20, HV30, HV50
Converted scales	HRA, HRB, HRC, HRD,	HRF, HV, HK, HBW, HR15	5N, HR30N, HR45N, HR15	T, HR30T, HR45T
Range	8~3000HV			
Length measurement resolution	0.125μm			
Objective/indenter switch	motor driven turret			
Stage lifting	manual			
Load control	automatic (load/dwell/unload)			
Load dwell time	1~60 second			
Objective	10X, 20X			
Eyepiece	10X			
Total magnification	100X (for measurement or observation), 200X (for measurement)			
Max. workpiece height	175mm			
Max. testing width	135mm (form the center of indenter to the wall of main body)			
Output	built-in printer			
Power supply	220V, 50/60Hz			
Dimension	580×320×660mm			
Weight	55kg			

STANDARD DELIVERY

• · · · · · · · · · · · · · · · · · · ·	
Main unit	1 pc
10X, 20X objective	1 pc of each
Vickers indenter	1 pc
Hardness test block	2 pcs
Ø58mm flat anvil	1 pc
Ø150mm flat anvil	1 pc
V-type anvil	1 pc
Anti-dust cover	1 pc

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Hardness test block	page 875~876		
Desk	HDT-DESK		
Vickers hardness tester camera (fits 5kgf and 10kgf)	HDT-MVH-CM1		
Vickers hardness tester camera (fits 30kgf and 50kgf)	HDT-MVH-CM2		
XY working platform	HDT-VEH-ST		
Measuring software (manual)	HDT-MVH-SW		
Measuring software (automatic)	HDT-MVH-AW		

+INSIZE+







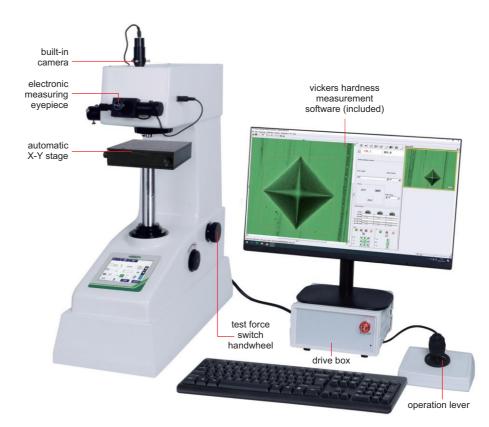








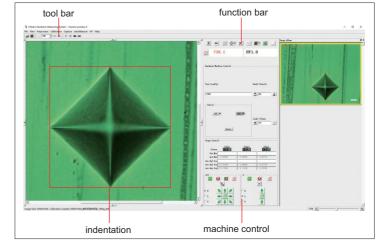
AUTOMATIC VICKERS HARDNESS TESTERS



HDT-AVH50

- Suitable for vickers hardness determination of various metals and non-metal materials, effective depth and heat affected area measurement, especially suitable for measuring workpieces hardness gradient distribution curve and surface hardness after heat treatment, effective hardening layer depth
- Automatic switch between the indenter and objective lens
- Z-axis automatic focus, X, Y axis automatic movement, can be for multi-point continuous measurement
- Automatic moving table by built-in step motor, high positioning accuracy, good repeatability, fast moving speed, high efficiency
- Automatic moving table bidirectional movement, equipped with safety devices to avoid misoperation
- The software can control the hardness tester hardware operation, two-way communication with each other
- The image acquisition device has fast reaction speed, high automatic measurement accuracy and good repeatability
- The system can automatically generate Word or Excel test report, and the report template can be modified
- According to ISO 6507

vickers hardness measurement software (included)



To be continued

STANDARD DELIVERY

Main unit	1 pc
10X, 20X objective	1 pc of each
Vickers indenter	1 pc
Hardness test block	2 pcs
Automatic X-Y stage drive box	1 pc
Vickers hardness measurement software	1 pc
Computer	1 pc
Auti-dust cover	1 pc



AUTOMATIC TEST CONTROL SYSTEM

Hardness tester control	1.automatic turret, automatic loading, automatic measurement 2.automatic display of test force, load dwell time, illumination brightness		
Automatic control of X-Y stage	software system automatic control of X-Y stage movement		
Measurement mode	1.automatic mode: automatic loading, automatic measurement, automatic display of measurement results 2.manual measurement mode can be selected		
Automatic measurement	about 0.3sec of one indentation		
Measurement repeatability	±1% (700HV/5kgf)		
The smallest indentation that can be measured	about 10µm (automatic measurement)		
Data output format/ edit functions	1.inspection reports can be customized according to customer requirements 2.the depth of hardened layer is shown in table form 3.output various measurement data, hardness table, hardening layer depth, maximum value, average value, minimum value, image with hardness value		

AUTOMATIC X-Y STAGE

Drive motor	step motor	
Drive control	movement control by software, speed is adjustable	
Dimension	110x110mm	
Max. travel distance	50x50mm	
Min. travel distance	1μm	
Movement speed	1~10mm/sec, speed can be adjusted	
Displacement repetition accuracy	within 1µm	

SPECIFICATION

Code	HDT-AVH05	HDT-AVH10	HDT-AVH30	HDT-AVH50	
Test force	0.3kgf, 0.5kgf, 1kgf, 2kgf, 3kgf, 5kgf	0.3kgf, 0.5kgf, 1kgf, 3kgf, 5kgf, 10kgf	1kgf, 3kgf, 5kgf, 10kgf, 20kgf, 30kgf	1kgf, 5kgf, 10kgf, 20kgf, 30kgf, 50kgf	
Vickers scales	HV0.3, HV0.5, HV1, HV2, HV3, HV5	HV0.3, HV0.5, HV1, HV3, HV5, HV10	HV1, HV3, HV5, HV10, HV20, HV30	HV1, HV5, HV10, HV20, HV30, HV50	
Converted scales	HRA, HRB, HRC, HRD,	HRF, HV, HK, HBW, HR15	N, HR30N, HR45N, HR15	T, HR30T, HR45T	
Range	5~3000HV	5~3000HV			
Length measurement resolution	0.01µm				
Objective/indenter switch	motor driven turret	motor driven turret			
Stage lifting	manual/electric				
Focus mode	Z-axis autofocus				
Load control	automatic (load/dwell/un	automatic (load/dwell/unload)			
Load dwell time	1~60 second				
Objective	10x, 20X				
Eyepiece	10X				
Total magnification	100X (for measurement or observation), 200X (for measurement)				
Max.workpiece height	160mm				
Max. testing width	130mm (from the center of indenter to the wall of main body)				
Pixel	5M				
Communication interface	RS232				
Power supply	220V, 50/60Hz				
Dimension	630x300x800mm				
Weight	75kg				

Hardness test block	page 875~876
Desk	HDT-DESK
OFFICE software	7313-OFFICE



MOTORIZED DIGITAL BRINELL HARDNESS TESTER (BASIC TYPE) CODE HDT-MBE320



FORCE LOADING BY ELECTRIC MOTOR (WITHUOT WEIGHT)









- Touch screen color LCD display
- Measure indentation diameter by measuring microscope, then input the diameters, the hardness value is shown on screen automatically
 Electric loading test force, without weights
- Casting case, structurally stable and not deformed
- According to ISO 6506



Ø78mm flat anvil (included)

SPECIFICATION

Test force		62.5kgf, 100kgf, 125kgf, 187.5kgf, 250kgf, 500kgf, 750kgf, 1000kgf, 1500kgf, 3000kgf	
Brinell scale		HBW2.5/62.5, HBW2.5/187.5, HBW5/62.5, HBW5/125, HBW5/250, HBW5/750, HBW10/100, HBW10/250, HBW10/500, HBW10/1000, HBW10/1500, HBW10/3000	
Range		8~650HBW	
Hardness resolution		0.1HBW	
Stage elevation		manual	
Load control		automatic (load/dwell/unload)	
Load dwell time		0~60 second	
Measuring	magnification	20X	
microscope	resolution	0.01mm	
Max. workpiece h	eight	230mm	
Max. testing width		140mm (form the center of indenter to the wall of main body)	
Power supply		220V, 50/60Hz	
Dimension		510×210×750mm	
Weight		130kg	



Ø200mm flat anvil (included)



V-type anvil (included)



desk (optional)



measuring microscope (included)

STANDARD DELIVERY

Main unit	1 pc
Ø78mm flat anvil	1 pc
Ø200mm flat anvil	1 pc
V-type anvil	1 pc
Ø2.5mm carbide ball indenter	1 pc
Ø5mm carbide ball indenter	1 pc
Ø10mm carbide ball indenter	1 pc
Hardness test block 100~200HBW2.5/187.5	1 pc
Hardness test block 90~200HBW10/1000	1 pc
Hardness test block 100~200HBW10/3000	1 pc
Measuring microscope	1 pc

TIONAL ACCESSORT		
Hardness test block 100~200HBW2.5/187.5	HDT-B-HB25A1	
Hardness test block 90~200HBW10/1000	HDT-B-HB10C1	
Hardness test block 100~200HBW10/3000	HDT-B-HB10A1	
Desk	HDT-DESK	
Measuring software	HDT-MB	

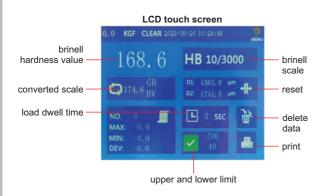
MOTORIZED DIGITAL BRINELL HARDNESS TESTERS (STANDARD TYPE)





FORCE LOADING BY ELECTRIC MOTOR (WITHUOT WEIGHT)

INSPECTION CERTIFICATE







Ø78mm flat anvil (included)



Ø200mm flat anvil (included)



V-type anvil (included)



desk (optional)

- Touch screen color LCD display
- Measure the indentation with microscope, automatically calculate the hardness value and display it on the screen
 Electric loading test force, without weights
- Casting case, structurally stable and not deformed
 According to ISO 6506

SPECIFICATION

Code		HDT-MB610	HDT-MB710	
Turret rotation		manual	automatic	
Test force	Test force 62.5kgf, 100kgf, 125kgf, 187.5kgf, 250kgf, 500kgf, 750kgf, 1000kgf, 1500kgf, 3000kgf		50kgf, 1000kgf, 1500kgf, 3000kgf	
Brinell scale HBW2.5/62.5, HBW2.5/187.5, HBW5/125, HBW5/750, HBW10/100, HBW10/250, HBW10/500, HBW10/1000, HBW10/1500, HBW10/3000				
Range		8~650HBW		
Hardness reso	lution	0.1HBW		
Stage elevation	n	manual		
Load control automatic (load/dwell/unload)		automatic (load/dwell/unload)		
Load dwell time		0~60 second		
Measuring	magnification	20X		
microscope	resolution	0.1µm		
Max. workpiec	e height	200mm		
Max. testing width 135mm (form the center of indenter to the wall of main body)		in body)		
Data output built-in printer, RS232				
Power supply 22		220V, 50/60Hz		
Dimension		510×210×750mm		
Weight 130kg				

STANDARD DELIVERY

Main unit	1 pc
Ø78mm flat anvil	1 pc
Ø200mm flat anvil	1 pc
V-type anvil	1 pc
Ø2.5mm carbide ball indenter	1 pc
Ø5mm carbide ball indenter	1 pc
Ø10mm carbide ball indenter	1 pc
Hardness test block 100~200HBW2.5/187.5	1 pc
Hardness test block 90~200HBW10/1000	1 pc
Hardness test block 100~200HBW10/3000	1 pc

OPTIONAL ACCESSORY

Hardness test block 100~200HBW2.5/187.5	HDT-B-HB25A1
Hardness test block 90~200HBW10/1000	HDT-B-HB10C1
Hardness test block 100~200HBW10/3000	HDT-B-HB10A1
Desk	HDT-DESK
Measuring software	HDT-MB



TOUCH SCREEN

MOTORIZED DIGITAL ROCKWELL/BRINELL/VICKERS HARDNESS TESTER CODE HDT-BRV330

FORCE LOADING BY ELECTRIC MOTOR (WITHUOT WEIGHT)



Ø60mm flat anvil (included)



Ø150mm flat anvil (included)



v-type arryii (included)





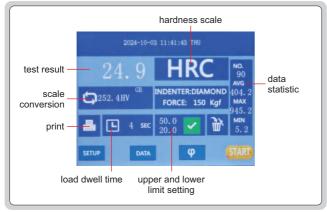




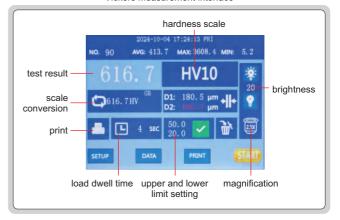
- Electronic closed-loop control of the applied test force, easy to use, stable display value
- Total of 21 measurement scales, including Brinell, Rockwell and Vickers test method
- Convertible to various hardness standards such as HB, HV, HRC, HK, etc.
- Two types of internal and external illumination are available, and different illumination is used according to the size of the indentation to make the indentation clearer
- Average, maximum and minimum value statistic are available
- Data storage and query function, can be printed out by the printer
- According to ISO 6506, ISO 6507, ISO 6508, ASTM E-10, ASTM E-18, ASTM E-92

hardness scale hardness scale 2024-10-03 11:36:24 THU NO. 90 AVG: 408.1 MAX: 3f(08.4 MIN: 21.3 test result 360.4 HBW10/250 scale conversion print 4 sec 50.0 20.0 FRINT STATI load dwell time upper and lower magnification limit setting

Rockwell measurement interface



Vickers measurement interface





SPECIFICATION

Туре	Brinell	Rockwell	Vickers
Test force	306.5N (31.25kg), 612.9N (62.5kg), 1226N (125kg), 1839N (187.5kg), 980.8N (100kg), 2451.6N (250kg)	588N (60kg), 980N (100kg), 1471N (150kg)	49.03N (5kg), 98.07N (10kg), 196.1N (20kg), 294.2N (30kg), 490.3N (50kg), 980.7N (100kg)
Hardness scale	HBW2.5/31.25, HBW2.5/62.5, HBW2.5/187.5, HBW5/62.5, HBW5/125, HBW5/250, HBW10/100, HBW10/250	HRA, HRB, HRC, HRD, HRF, HRG	HV3, HV5, HV10, HV20, HV30, HV50, HV100
Conversion scale	HRA, HRB, HRC, HRD,HRF, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HB, HV, HK		
Range	5-650HBW	20-88HRA, 20-100HRB, 20-70HRC	10-2900HV
Stage lifting	manual		
Load control	automatic (load/dwell/unload)		
Eyepiece	10X		
Objective	2.5X (included, for Brinell), 5X (included, for Vickers), 10X (optional, for Vickers)		
Resolution	0.1HB	0.1HR	0.1HV
Load dwell time	0~99 seconds, can be set		
Max. testing width	160mm		
Max. workpiece height	165mm	180mm	165mm
Power supply	220V, 50/60Hz		
Dimension	550×235×720mm		
Weight	80kg		

STANDARD DELIVERY

Main unit	1 pc
Diamond Rockwell indenter	1 pc
Diamond Vickers indenter	1 pc
Ø2.5mm ball indenter	1 pc
Ø5mm ball indenter	1 pc
Ø1.5875 carbide ball indenter	1 pc
Ø150mm flat anvil	1 pc
Ø60mm flat anvil	1 pc
V-type anvil	1 pc
Skateboard stage	1 pc
Internal lighting bulb	1 pc
External lighting bulb	1 pc
Hardness test block HRC20~30	1 pc
Hardness test block HRC60~70	1 pc
Hardness test block HRB85~100	1 pc
Hardness test block HBW2.5/187.5	1 pc
Hardness test block HV30	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY		
10X objective	HDT-OB-10	
Ø10mm ball indenter	HDT-BRV-INDENTER10	
Hardness test block 20~30HRC	HDT-B-HRC1	
Hardness test block 35~55HRC	HDT-B-HRC2	
Hardness test block 60~70HRC	HDT-B-HRC3	
Hardness test block 88~100HRB	HDT-B-HRB	
Hardness test block 80~84HRA	HDT-B-HRA	
Hardness test block 400~500HBW2.5/187.5	HDT-B-HB25A4	
Hardness test block 400~500HV5	HDT-B-HV5D	



BRINELL/ROCKWELL/VICKERS HARDNESS TESTER **CODE ISH-BRV**



Ø60mm flat anvil for Rockwell (included)



Ø150mm flat anvil for Rockwell (included)



Ø60mm flat anvil for Vickers and Brinell (included)



V-type anvil for Rockwell (included), for cylinders with diameter Ø4~60mm



V-type anvil for Vickers and Brinell (included)



small V-type anvil for Rockwell (optional), for cylinders with diameter Ø2~4mm





desk (optional)



According to ISO 6506, ISO 6507, ISO 6508

SPECIFICATION

Rockwell test load	98N preload, 588, 980, 1471N total load	
Min. Rockwell reading	0.5HR	
Brinell test load	306, 613, 1839N	
Vickers test load	294N	
Stage elevation	manual	
Load control	manual	
Magnification of microscope	37.5X/75X	
Max. workpiece height	180mm	
Max. testing width	200mm (from the center of indenter to the wall of main body)	
Power supply	220V, 50/60Hz	
Dimension	546×300×767mm	
Weight	90kg	

OPTIONAL ACCESSORY

· · · · · · · · · · · · · · · · · · ·		
Hardness test block HRB88~100	HDT-B-HRB	
Hardness test block HRC60~70	HDT-B-HRC3	
Hardness test block HRC20~30	HDT-B-HRC1	
Hardness test block 400-500HV30	HDT-B-HV30D	
Hardness test block 200-300HBW2.5/187.5	HDT-B-HB25A2	
Small V-type anvil for Rockwell	ISH-SMALLANVIL	
Desk	HDT-DESK	

STANDARD DELIVERY

Main unit	1 pc
Ø1.5875mm carbide ball indenter	1 pc
Diamond Rockwell indenter	1 pc
Ø5mm Brinell indenter	1 pc
Ø2.5mm Brinell indenter	1 pc
Vickers indenter	1 pc
Ø60mm flat anvil for Rockwell	1 pc
Ø150mm flat anvil for Rockwell	1 pc
V-type anvil for Rockwell	1 pc
Ø60mm flat anvil for Vickers and Brinell	1 pc
V-type anvil for Vickers and Brinell	1 pc
Hardness test block HRB88~95	1 pc
Hardness test block HRC60~65	1 pc
Hardness test block HRC20~30	1 pc
Hardness test block 400~500HV30	1 pc
Hardness test block 180~300HBW2.5/187.5	1 pc
Anti-dust cover	1 pc