

HTRP 150D

Digital Plastics Rockwell Hardness Tester

- > Digital Plastic Rockwell Hardness Tester with high resolution large screen. Control system allows the display and set the scale, test force, test indenter, dwell time and hardness conversion;
- > Main functions: Plastic Rockwell scales selection; conversion scales; data save and print out, automatic calculation of maximum, minimum and average value.

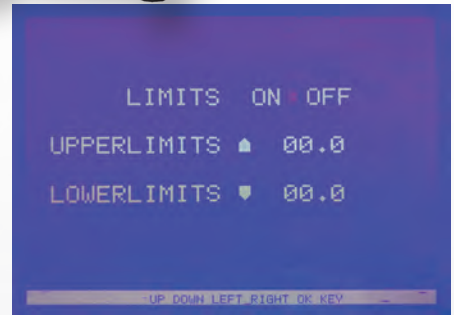


Application

- > Hard plastics, hard rubbers, aluminum, tin, copper, soft steel, synthetic resins, etc.

Reference standard

- > ISO 6508, ASTM E 18, JIS Z2245



Rockwell			
Hardness scale	Standard block hardness range	Displayed value allowed tolerance	Displayed value allowed repeatability
HRA	20~≤75 HRA	±2 HRA	≤0.02 (100-H) or 0.8 Rockwell unit*
	>75~≤88 HRA	±1.5 HRA	
HRB	20~≤45 HRB	±4 HRB	≤0.04 (130-H) or 1.2 Rockwell unit*
	>45~≤80 HRB	±3 HRB	
	>80~≤100 HRB	±2 HRB	
HRC	20~≤70 HRC	±1.5 HRC	≤0.02 (100-H) or 0.8 Rockwell unit*
HRD	40~≤70 HRD	±2 HRD	≤0.02 (100-H) or 0.8 Rockwell unit*
	>70~≤77 HRD	±1.5 HRD	
HRF	60~≤90 HRF	±3 HRF	≤0.04 (130-H) or 1.2 Rockwell unit*
	>90~≤100 HRF	±2 HRF	
HRG	30~≤50 HRG	±6 HRG	≤0.04 (130-H) or 1.2 Rockwell unit*
	>50~≤75 HRG	±4.5 HRG	
	>75~≤94 HRG	±3 HRG	

Plastic Rockwell			
Hardness scale	Standard block hardness range	Displayed value allowed tolerance	Displayed value allowed repeatability
HRH	80~≤100 HRH	±2 HRH	≤0.04 (130-H) or 1.2 Rockwell unit*
HRE	70~≤90 HRE	±2.5 HRE	≤0.04 (130-H) or 1.2 Rockwell unit*
	>90~≤100 HRE	±2 HRE	
HRK	40~60 HRK	±4 HRK	≤0.04 (130-H) or 1.2 Rockwell unit*
	>60~≤80 HRK	±3 HRK	
	>80~≤100 HRK	±2 HRK	
HRL	100~120 HRL	±1.2 HRL	1.5 HRL
HRM	85~110 HRM	±1.5 HRM	2 HRM
HRP	72~130 HRP	±1 HRP	2 HRP
HRR	114~125 HRR	±1.2 HRR	1.5 HRR
HRS	99~122 HRS	±1 HRS	2 HRS
HRV	78~115 HRV	±1 HRV	2 HRV

(H: average hardness value, *: select a larger value)

Model	HTRP 150D
Technology	Weights - Load electronic controlled
Load selection	Right side handle
Pre-load	10kg
Main loads	60kg, 100kg, 150kg
Dwell time	0~60s
Loading time	2s
Test force tolerance	±1.0%
Test cycle type	Semi-automatic type: Manual - pre-load with sound alarm brake Automatic - load, dwell, unload
Hardness scales	HRA, HRD, HRC, HRF, HRB, HRG, HRH, HRE, HRK, HRL, HRM, HRP, HRR, HRS, HRV
Hardness test ranges	Rockwell: HRA 20 - 88, HRB 20 - 100, HRC 20 - 70, HRD 40 - 77, HRF 60 - 100, HRG 30 - 94 Plastic Rockwell: HRE 70 - 100, HRH 80 - 100, HRK 40 - 100, HRL 100 - 120, HRM 85 - 100, HRP 72-130, HRR 114 - 125, HRS 99-122, HRV 78-115
Hardness resolution	0.1HR
Scale conversion	Automatic conversion: HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HBW - According to ASTM E140
Indenters	ø 3.175mm, ø 6.35mm, ø 12.7mm ball indenter
Nose bore diameter	6.35mm
Vertical test capacity	175mm
Horizontal test capacity	165mm
Anvils dimensions	Large plane test table ø 150mm Middle plane test table ø 60mm V-shaped test table ø 40mm
Max. sample weight	100kg
Z axis movement	Manual
Z axis speed	Manual
Display type	LCD
Display dimensions	4.3"
Input mode	Control panel keyboard
Displayed data	Scale, test force, dwell time, indenter, conversion scale, test number, date and time
Statistics or functions	Max, min, average value
Data storage	Internal storage, 216 tests
Data output	Hyperterminal session format (.HT)
Energy saving mode	Yes
Printer	Built-in printer
Interfaces	RS232
Safety devices	Emergency switch
Operation temperature	10~30°C
Operation rel. humidity	≤65%
Weight	78kg
Dimensions	520x215x700mm
Power supply	230V, 50Hz
Voltage variance	±10%
Absorbed power	500W

Standard accessories

Model	Description	Q.ty
RT-BI3.1	ø 3.175mm ball indenter	1 pc
RT-BI6.3	ø 6.35mm ball indenter	1 pc
RT-BI12.7	ø 12.7mm ball indenter	1 pc
RTLTT150	Large plane test table ø 150mm	1 pc
RTMTT60	Middle plane test table ø 60mm	1 pc
RTVTT40	V-shaped test table ø 40mm	1 pc
HB-RE7585	Hardness block ±75~85 HRE	1 pc
HB-RM100110	Hardness block ±100~110 HRM	1 pc
HB-RL110120	Hardness block ±110~120 HRL	1 pc
HB-RR115125	Hardness block ±115~125 HRR	1 pc
RT-3WS	Weight A,B,C	3 pc
RT-4RS	Horizontal regulating screw	4 pc
RT-LV	Spirit level	1 pc
RT-PC	Power cable	1 pc
RT-SK	Service keys	1 set
RT-ADC	Anti-dust cover	1pc

Optional accessories

Model	Description
RT-120	Diamond Rockwell indenter
BI-15	ø 1.588mm ball indenter
RT-WB	Work bench
RT-APP	Additional printer paper roll

Rockwell hardness blocks

Model	Range
HB-RA45-75	45-75 HRA
HB-RA80-84	80-84 HRA
HB-RB60-70	60-70 HRB
HB-RB88-100	88-100 HRB
HB-RC20-30	20-30 HRC
HB-RC35-55	35-55 HRC
HB-RC60-70	60-70 HRC
HB-RD40-47	40-47 HRD
HB-RD55-63	55-63 HRD
HB-RD70-75	70-75 HRD
HB-RF105-114	105-114 HRF
HB-RG80-94	80-94 HRG

Plastic Rockwell hardness blocks

Model	Range
HB-RE95-100	95-100 HRE
HB-RE107-114	107-114 HRE
HB-RK91-100	91-100 HRK
HB-RH96-100	96-100 HRH
HB-RL110-115	110-115 HRL
HB-RM110-115	110-115 HRM
HB-RR110-115	110-115 HRR





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