

Features

- High accuracy, wide measurement range, automatic loading and unloading of major load
- Test results display digitally, and can print automatically and connected to PC.
- High definition Matrix LCD display with back-light
- Optional indenters meet different test requirements: TH300 protruding indenter for ring and groove; TH310 for surface and TH320 for all kinds.
- Conversion of common hardness scales (HLD, HV, HB) & Conversion of Tensile Strength, up to 15 kinds of Rockwell hardness scales.
- Collect statistics includes values, mean value, Maximum, Minimum and Standard Deviation
- Round correction: cylinder and sphere surface
- Upper /lower limits pre-setting and sound alarm
- Comply with GB/T230.2, BS EN10109-2, ASTM-E-18, ISO6508.2 and other applicable standards.
- Automatic test process
- RS 232/USB data output

Typical application

- Researching institute
- National organization
- University
- Aerospace Industry
- Automobile industry
- Steel industry

TH300/320

ROCKWELL HARDNESS TESTER



Protrudent design for testing in place difficult to reach



Assistant joist



Assistant support

Assistant joist and assistant support as shown below are designed to provide support for hardness testing of long, heavy and big work pieces.

TH300/320

ROCKWELL HARDNESS TESTER

Technical Specification

Model	TH300	TH320
Hardness scales	Rockwell A, B, C,D,E,F, G, H, K ,L, M ,P, R, S, V	Rockwell A,B,C,D,E,F,G,H,K,L,M,P,R,S,V Rockwell superficial15/30/45N,T,W,X,Y
Resolution	0.1Rockwell unit	
Pre-load	98.07N/10kgf	98.07N/10kgf, 29.42N/3kgf
Total load	588.4N/60kgf, 980.7N/100kgf, 1471N/150kgf	588.4N/60kgf, 980.7N/100kgf, 1471N/150kgf, 147.1N/15kgf, 294.2N/30kgf, 441.3N/45kgf
Display	Matrix backlight LCD	
Language	English, French, Germany	English
Operation	Menu selectable, Membrane keypad	
Test process	Automatic	
Load duration	2-50 seconds, can be set, dynamic displayed and stored	
Functions	<ul style="list-style-type: none"> ● Upper / lower hardness limits setting and alarming ● Data statistics : Ave., Max., Min., standard Deviation, ● Convert tested values to HB, HV, HLD and δ_b (Tensile-strength) ● Curvature correction: cylinder and sphere surface 	
Data output	RS232	
Tester standard	ISO6508.2 , ASTM E-18	
Testing space	Vertical: 250mm (9.85 ") Horizontal:150mm (5.91 ")	Vertical: 250mm (8.66 ") Horizontal:150mm (6.00 ")
Work piece size	External surface cylinder: Min.Ø3mm (0.120 ") Internal surface cylinder: Min.Ø23mm (0.900 ")	
Power supply	220v/110v, 50Hz, 4A	
Dimensions (mm)	715×225×790	720×240×815
Weight (kg)	100	120



Large Vee anvil



Short diamond indenter
Slim diamond indenter
Flat diamond indenter



Point/Vee anvil



Flat/Vee anvil



Round flat anvil Ø70



Round flat anvil Ø225



Round flat anvil Ø150

Standard Delivery

TH300	TH320
Main unit	Main unit
Test block B	Test block A, B, C
Test block C	Test block 15N
120° cone diamond indenter	Test block 30N
1/16" (1.5875mm) ball indenter	Test block 30T
1/16" (1.5875mm) spare ball	120° cone diamond indenter
Screw for indenter	1/16"(1.5875mm)ball indenter
Round flat anvilØ70	1/16" (1.5875mm) spare ball
Large vee anvil	Screw for indenter
Power supply cable	Round flat anvil
Instruction manual	Large vee anvil
Warranty card	Power supply cable
	Instruction manual
	Warranty card

Optional Accessory

- Mini-printer TA230
- Data communicating cable
- Short diamond indenter
- Flat diamond indenter
- Slim diamond indenter
- 1/8"(Ø3.175mm) indenter and spare ball
- 1/4"(Ø6.350mm) indenter and spare ball
- 1/2"(Ø12.70mm) indenter and spare ball
- Round flat anvil Ø225
- Round flat anvil Ø150
- Small vee anvil
- Flat /vee anvil
- Assistant support
- Assistant joist