

# BENCH (ROCKWELL) HARDNESS TESTER TH300/301/310/320

ISO 9001



TH320

## Features:

Horizontal protrudent nose design, testing on surfaces difficult to reach

Testing internal surface of ring parts whose diameter is not less than 23mm (0.900 )

Testing external surface of round bars whose diameter is not less than 3mm (0.120 )

Automatic test process

High definition backlight LCD

Simple and easy selectable operation menu

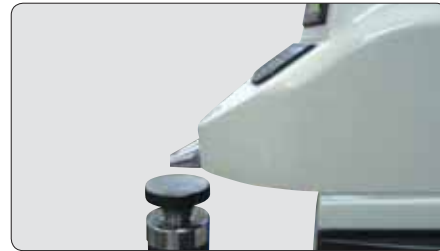
RS-232/USB data output

TH300: Rockwell hardness tester

TH301: Rockwell hardness tester with auto-switch off test force

TH310: Rockwell superficial hardness tester

TH320: Rockwell & Rockwell superficial hardness tester



Horizontal protrudent nose design



TH300

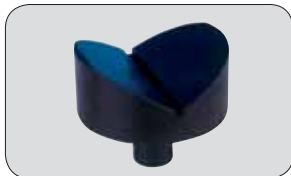


## Technical Specification:

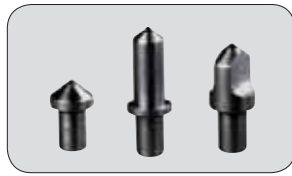
	TH300	TH301	TH310	TH320
Hardness scales	Rockwell A, B, C, D, E, F, G, H, K, L, M, P, R, S, V	Rockwell A, B, C, D, E, F, G, H, K, L, M, P, R, S, V	Rockwell superficial 15/30/45N, T, W, X, Y	Rockwell A, B, C, D, E, F, G, H, K, L, M, P, R, S, V Rockwell superficial 15/30/45N, T, W, X, Y
Resolution	0.1 Rockwell unit			
Pre-load	98.07N/10kgf		29.42N/3kgf	98.07N/10kgf, 29.42N/3kgf
Total load	588.4N/60kgf, 980.7N/100kgf, 1471N/150kgf		147.1N/15kgf, 294.2N/30kgf, 441.3N/45kgf	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			
Operation	Menu selectable, Membrane keypad			
Test process	Automatic			
Load duration	2-50 seconds, Can be set, dynamic displayed and stored			
Functions	Upper / lower hardness limits setting and alarming Data statistics : Ave., Max., Min., standard Deviation Convert tested values to HB, HV, HLD and $\delta_b$ (Tensile-strength) Curvature correction: cylinder and sphere s	Upper / lower hardness limits setting and alarming Data statistics : Ave., Max., Min., standard Deviation Convert tested values to HB, HV, HLD, Rockwell Superficial and $\delta_b$ (Tensile-strength) Curvature correction: cylinder and sphere surface	Upper / lower hardness limits setting and alarming Data statistics : Ave., Max., Min., standard Deviation Convert tested values to HB, HV and $\delta_b$ (Tensile-strength) Curvature correction: cylinder and sphere surface	Upper / lower hardness limits setting and alarming Data statistics : Ave., Max., Min., standard Deviation Convert tested values to HB, HV, HLD and $\delta_b$ (Tensile-strength) Curvature correction: cylinder and sphere surface
Data output	RS232	RS232, USB	RS232	
Tester standard	ISO6508.2 , ASTM E-18			
Testing space	Vertical: 250mm (9.85 )	Vertical: 260mm (10.24 )	Vertical: 250mm (8.66 )	
	Horizontal: 150mm (5.91 )	Horizontal: 150mm (5.91 )	Horizontal: 150mm (6.00 )	
Workpiece size	External surface cylinder: Min. $\phi$ 3mm (0.120 ) Internal surface cylinder: Min. $\phi$ 23mm (0.900 )			
Power supply	220V/110V, 50Hz, 4A			
Dimensions	715 x 225 x 790mm	715 x 225 x 790mm	720 x 225 x 790mm	720 x 240 x 815mm
Weight	100kg		70kg	120kg

## Standard delivery

TH300	TH301	TH310	TH320
Main Unit	Main unit	Main unit	Main unit
	Test Block A		Test Block A, B, C
Test Block B	Test Block B	Test Block 15N	Test Block 15N
Test Block C	Test Block C	Test Block 30N	Test Block 30N
	USB driver disk	Test Block 30T	Test Block 30T
120 one diamond indenter	120 one diamond indenter	120 one diamond indenter	120 one diamond indenter
1/16 (1.5875mm) ball indenter	1/16 (1.5875mm) ball indenter	1/16 (1.5875mm) ball indenter	1/16 (1.5875mm) ball indenter
1/16 (1.5875mm) spare ball	1/16 (1.5875mm) spare ball	1/16 (1.5875mm) spare ball	1/16 (1.5875mm) spare ball
Screw for indenter	Screw for indenter	Screw for indenter	Screw for indenter
Round flat anvil $\phi 70$	Round flat anvil $\phi 70$	Round flat anvil $\phi 70$	Round flat anvil $\phi 70$
Large Vee anvil	Large Vee anvil	Large Vee anvil	Large Vee anvil
Screw driver	Screw driver	Screw driver	Screw driver
Power supply cable	Power supply cable	Power supply cable	Power supply cable
Instruction manual	Instruction manual	Instruction manual	Instruction manual
Warranty card	Warranty card	Warranty card	Warranty card
TIME Certificate	TIME Certificate	TIME Certificate	TIME Certificate



large Vee anvil



Short diamond indenter  
Slim diamond indenter  
Flat diamond indenter



Point/Vee anvil



Flat/Vee anvil



Round flat anvil  $\phi 70$



Round flat anvil  $\phi 225$



Round flat anvil  $\phi 150$



## Optional Accessory

Printer TA230 (See page 67)  
Connecting cable  
Short diamond indenter  
Flat diamond indenter  
Slim diamond indenter  
1/8 ( $\phi 3.175\text{mm}$ ) indenter and spare ball  
1/4 ( $\phi 6.350\text{mm}$ ) indenter and spare ball  
1/2 ( $\phi 12.70\text{mm}$ ) indenter and spare ball  
Round flat anvil  $\phi 225$   
Round flat anvil  $\phi 150$   
Small Vee anvil  
Flat /Vee anvil  
Assistant support  
Assistant joist