

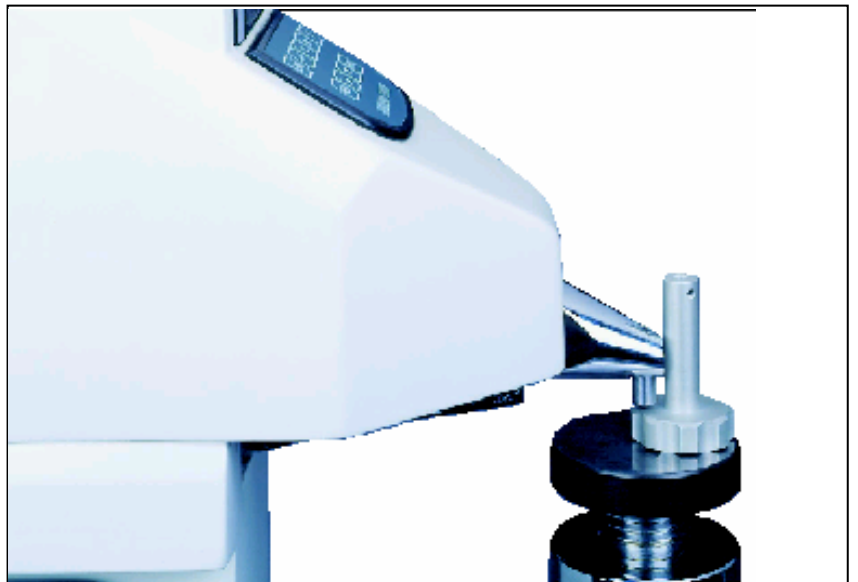


ISO9001

## Rockwell Hardness Tester TH300/301/310/320

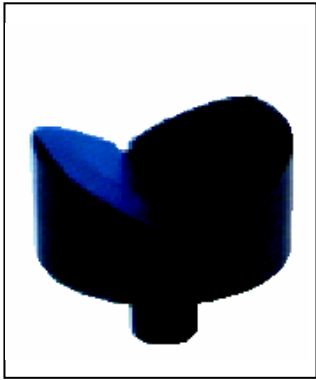


- Horizontal protrudent nose design, testing on surfaces difficult to reach
- Testing internal surface of ring parts whose diameter is not less than 23mm (0.900 " )
- Testing external surface of round bars whose diameter is not less than 3mm (0.120 " )
- Automatic test process
- High definition backlight LCD
- Simple and easy selectable operation menu
- RS-232/USB data output



Protrudent nose design

# Optional Accessories



Big V-shape anvil



Short diamond indenter  
Slim diamond indenter  
Flat diamond indenter



V-shape anvil



Assistant support



Round flat anvil  $\phi 70$



Flat/V-shape anvil



Assistant joist



Round flat anvil  $\phi 225$



Round flat anvil  $\phi 150$

# Rockwell Hardness Tester TH300/301/310/320

**Technical specifications (Table 1)**

Model	TH300	TH301
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
Resolution	0.1 Rockwell unit	0.1 Rockwell unit
Pre-load	98.07N/10kgf	98.07N/10kgf
Total load	588.4N/60kgf, 980.7N/100kgf, 1471N/150kgf	588.4N/60kgf, 980.7N/100kgf, 1471N/150kgf
Display	Matrix backlight LCD	Matrix backlight LCD
Language	Chinese, English, French, Germany	Chinese, English
Operation	Menu selectable, Membrane keypad	Menu selectable, Membrane keypad
Test process	Automatic	Automatic
Load duration	2-50 seconds, can be set, dynamic displayed and stored	2-50 seconds, Can be set, dynamic displayed and stored
Functions	Upper / lower hardness limits setting & alarming Data statistics : Ave., Max., Min., S,R. Scales conversion: convert tested value to Vickers, Leeb, Brinell, Rockwell superficial, $\delta_b$ Curvature correction: cylinder and sphere	Upper/lower hardness limits setting & alarming Data statistics: Ave., Max., Min., S,R. Scales conversion: convert tested value to Vickers, Leeb, Brinell, Rockwell superficial, $\delta_b$ Curvature correction: cylinder and sphere Test force switch automatically Automatic data store with 500 groups, Hardness & Strengthen conversion among aluminum, alloy aluminum, copper and alloy copper
Data output	RS232	RS232, USB
Tester standard	ISO6508.2, ASTM E-18	ISO6508.2, ASTM E-18
Testing space	Vertical: 250mm (9.85 ")	Vertical: 260mm (10.24 ")
	Horizontal: 150mm (5.91 ")	Horizontal: 150mm (5.91 ")
Work piece size	External surface cylinder: Min. $\phi$ 3mm (0.120 ")	External surface cylinder: min. $\phi$ 3mm (0.120 ")
	Internal surface cylinder: Min. $\phi$ 23mm (0.900 ")	Internal surface cylinder: min. $\phi$ 23mm (0.900 ")
Power supply	220v/110v, 50Hz, 4A	220v/110v, 50Hz, 4A
Dimensions	715mm×225mm×790mm	715mm×225mm×790mm
Weight	100kg	100kg



TH300



TH301



TH320

# Rockwell Hardness Tester TH300/301/310/320

## Technical specifications (Table 2)

Model	TH310	TH320
Hardness scales	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 superficial15/30/45N,T,W,X,Y
Resolution	0.1Rockwell unit	0.1Rockwell unit
Pre-load	29.42N/3kgf	98.07N/10kgf, 29.42N/3kgf
Total load	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	Matrix backlight LCD
Language	Chinese, English,	Chinese, English,
Operation	Menu-selectable, Membrane keypad	Menu selectable, Membrane keypad
Test process	Automatic	Automatic
Load duration	2-50 seconds, Can be set, dynamic displayed and stored	2-50 seconds, Can be set, dynamic displayed and stored
Functions	Upper/lower hardness limits setting & alarming Data statistics: Ave., Max., Min., S, R. Scales conversion: convert tested value to Vickers, Brinell, Knoop $\delta_b$ Curvature correction: cylinder and sphere	Upper/lower hardness limits setting & alarming Data statistics: Ave., Max., Min., S, R. Scales conversion: convert tested value to Vickers, Leebs, Brinell, Knoop HK, $\delta_b$ Curvature correction: cylinder and sphere
Data output	RS232	RS232
Tester standard	ISO6508.2 , ASTM E-18	ISO6508.2 , ASTM E-18
Testing space	Vertical: 250mm (8.66 " ) Horizontal:150mm (6.00 " )	Vertical: 250mm (8.66 " ) Horizontal:150mm (6.00 " )
Work piece size	External surface cylinder: Min. $\phi$ 3m (0.120 " ) Internal surface cylinder: Min. $\phi$ 23mm (0.900 " )	External surface cylinder: Min. $\phi$ 3m (0.120 " ) Internal surface cylinder: Min. $\phi$ 23mm (0.900 " )
Power supply	220v/110v, 50Hz, 4A	220v/110v, 50Hz, 4A
Dimensions	720mm×225mm×790mm	720mm×240mm×815mm
Weight	70kg	120kg

## Standard delivery

TH300	TH301	TH310	TH320
Main Unit	Main unit	Main unit	Main unit
Test Block B	Test Block A	Test Block 15N	Test Block A, B, C
Test Block C	Test Block B	Test Block 30N	Test Block 15N
120° cone diamond indenter	Test Block C	Test Block 30T	Test Block 30N
1/16"±(1.5875mm) ball indenter	120° cone diamond indenter	120° cone diamond indenter	Test Block 30T
1/16"±(1.5875mm) spare ball	1/16"±(1.5875mm) ball indenter	1/16"±(1.5875mm) ball indenter	120° cone diamond indenter
Screw for indenter	1/16"±(1.5875mm) spare ball	1/16"±(1.5875mm) spare ball	1/16"±(1.5875mm) ball indenter
Round flat anvil $\phi$ 70	Screw for indenter	Screw for indenter	1/16"±(1.5875mm) spare ball
V-shape anvil	Round flat anvil $\phi$ 70	Round flat anvil	Screw for indenter
Power supply cable	V-shape anvil	V-shape anvil	Round flat anvil
Instruction manual	Power supply cable	Power supply cable	V-shape anvil
Warranty card	Instruction manual	Instruction manual	Power supply cable
	Warranty card	Warranty card	Instruction manual
			Warranty card

## Optional accessories

Mini-printer TA220s	Slim diamond indenter	Round flat anvil $\phi$ 225	Assistant support
Data communicating cable	1/8 " ( $\phi$ 3.175mm) indenter and spare ball	Round flat anvil $\phi$ 150	Assistant joist
Short diamond indenter	1/4 " ( $\phi$ 6.350mm) indenter and spare ball	Big V-shape anvil	
Flat diamond indenter	1/2 " ( $\phi$ 12.70mm) indenter and spare ball	Flat /V-shape anvil	