



Features

- Digital multi-functional hardness tester with brinell, Rockwell, vickers three testing methods
- Conversion of different hardness scales
- Selection of dwell time
- Modifications of time and date
- Output of testing results
- RS232 interface for optional functions

TH725

DIGITAL UNIVERSAL
HARDNESS TESTER

Rockwell Hardness

Specifications of rockwell hardness				
Testing force(N)	Initial testing force	98.07(10kg)	Tolerance $\pm 2.0\%$	
	total testing force	588.4(60kg)	Tolerance $\pm 1.0\%$	
		980.7(100kg)		
		1471(150kg)		
Indenter	Diamond cone indenter			
	$\Phi 1.5875\text{mm}$ ball indenter			
Scales	HRA	HRB	HRC	HRD
Max height of samples	175mm			

The technical specification of brinell hardness tester

Testing force	294.2N(30kg)	Tolerance $\pm 1.0\%$		
	306.5N(31.25kg)			
	612.9N(62.5kg)			
	980.7N(100kg)			
	1839N(187.5kg)			
Indenter	$\phi 2.5\text{mm}$ 、 $\phi 5\text{mm}$ Ball Indenter			
Scales	HBW1/30	HBW2.5/31.25	HBW2.5/62.5	
	HBW5/62.5	HBW10/100	HBW2.5/187.5	
Eyepiece magnification	15 \times			
Objective	2.5 \times (resolution 0.5 μm)			
	5 \times (resolution 0.25 μm)			
Max height of sample	For 2.5 \times : max height is 95mm For 5 \times : max height is 115mm			

Vickers Hardness

Technical specifications of vickers hardness		
Test force	294.2N(30kg)	Tolerance $\pm 1.0\%$
	980.7N(100kg)	
Indenter	Diamond vickers indenter	
Scale	HV30	HV100
Eyepiece magnification	15 \times	
Objective magnification	5 \times (Resolution 0.25 μm)	
Max. height of specimen	115mm	

Technical Specification

The power source and the voltage	AC220V/110V, 50/60 Hz
Time-delayed control	0-60 seconds, adjustable
The distance from the Indenter center to the instrument body	165mm
Overall dimension (length×width×height)	551×260×800 mm
The net weight of the tester	80kg (Approx)

Accessories (Packing list)

Accessories kit of main body		
No.	Description of goods	Quantity
1	Diamond cone rockwell indenter	1pc
2	φ1.5875mm steel ball indenter	1pc
3	Large testing table	1pc
4	<u>Medium testing table</u>	<u>1pc</u>
5	"V" shaped testing table	1pc
6	0、 1、 2、 3、 4 weight	Total 5-pcs
7	Standard hardness block HRC (high, lower)	Total 2 pcs
8	Standard hardness block HRB	1 pc
9	Level bolt	4-pcs
10	spanner	1-pc
11	Power cable	1-pc
13	Instruction manual	1-copy
14	Quality certificate	1-copy
15	Plastic Anti-dust Bag	1-pc

Accessories kit of microscope			
No.	Description of goods	Quantity	
1	Digital eyepiece	1pc	
2	Seat of microscope	in harness	
3	Outside light		1pc
4	Inside light		1pc
5	2.5× objective	1pc	
6	5× objective	1pc	
7	Slipped testing table	1pc	
8	Diamond vickers indenter	1-pc	
9	φ2.5mm , φ5mm ball indenter	2-pcs	
10	Standard vickers hardness block(HV30)	1-pc	
11	Standard brinell hardness block (HBW/2.5/187.5)	1-pc	
12	Gradienter	1-pc	
13	Fuse 2A	2-pcs	