

Product Information

Zwick/ZHU 187.5 Universal hardness tester Vickers/Brinell/Rockwell



Range of application

- Is used for testing of
Vickers hardness DIN EN ISO 6507
Brinell hardness DIN EN ISO 6506
Rockwell hardness DIN EN ISO 6508

Special characteristics

- Types for different load combinations
- Dead weight loading
- Variable test sequence timing from 1 to 50 s
- LCD Line display
- Screen display of hardness number and scale resolved to 0.1; e.g. 60.3 HRC
- Hardness tolerance setting
- Statistics (\bar{x} and R)

- Conversion:
 - Rockwell to Vickers, Brinell, Knoop, UTS
 - Brinell to Vickers, Knoop, UTS, Rockwell HRA/HRB/HRC
 - Vickers to Brinell, Knoop, UTS, Rockwell HRA/HRB/HRC
- Integral microscope with measuring shutters and push button for transfer of dimensional data
- 1 x RS232 Interface
- Simple operation via:
 - automatic load application and removal
 - diagonal value transfer at the touch of a button
 - automatic evaluation of hardness number
 - load changing via rotary switch
- Various accessories as standard
 - indenters
 - reference test blocks
 - specimen support tables
 - operating instructions

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Order no.	W3330.000	W3330.010	W3330.020	W3330.030	W3330.040
Zwick/ZHU 187.5	-	(8187.5 LKV-A)	(8187.5 LKV-B)	(8187.5 LKV-C)	(9150 LKV)
Built-in microscope:					
Magnification	1:50	1:50	1:50	1:50	1:100
Vickers: HV	3			3	3
	5, 10	5, 10	5, 10	5, 10	5, 10
	100	100	30, 100	30	20, 30, 100
Brinell: HBS (HBW)		2.5/31.25		2.5/31.25	
	2.5/62.5	2.5/62.5	2.5/62.5	2.5/62.5	
	2.5/187.5	2.5/187.5	2.5/187.5	2.5/187.5	
	2/10				
	1/5; 1/10		1/5; 1/10; 1/30	1/5; 1/10; 1/30	1/5; 1/10; 1/30
Rockwell: HR	A, B, C, D, E,	10	10	10	10
	F, G, H, K, L,	60, 100	60, 100		60, 100
	M, P, R, S, V	150	150	150	150
Included as standard:					
Indenters:					
Vickers diamond pyramid	+	+	+	+	+
Hard metal ball, dia. 2.5 mm	+	+	+	+	-
Hard metal ball, dia. 1/16"	+	+	+	+	+
Rockwell diamond cone	+	+	+	+	+
Hardness comparison plates:					
HV	+	+	+	+	+
HBW	+	+	+	+	-
HRC	+	+	+	+	+
HRB	+	-	-	-	-
HRBS	-	+	+	+	+
Support tables					
(flat, V-shape)	+	+	+	+	+

Accessories (option)

Description	Order no.
Indenter, 136° diamond pyramid, with UKAS certificate	W3320.100
Indenter, 2.5 mm hard metal ball, with UKAS certificate	W3330.100
Indenter, 1 mm hard metal ball, with UKAS certificate	W3330.110
Indenter, 120° diamond cone, with UKAS certificate	W3330.120
Indenter, 1/16" hard metal ball, with UKAS certificate	W3330.130
Indenter, 1/8" hard metal ball, with UKAS certificate	W3330.140
Manual compound table, Fmax. 2.5 kN, table dimensions 135 x 135 mm, travel 25 x 25 mm, with manual micrometer screws (Combined with PC-version order no. 069099.16.X0 is required)	065240.80.00
Adapter plate for use with compound table 065240.80.00 (at Zwick/ZHU 187.5)	3340.000