

Product Information

Zwick/ZHU187.5 - Universal hardness tester up to 187.5 kg



Zwick/ZHU 187.5 Universal Hardness Tester

Advantages/Characteristics

- Types for different load combinations (dead weights) up to 187.5 kg
- Simple operation via:
 - automatic load application and removal
 - diagonal value transfer at the touch of a button
 - automatic evaluation of hardness value
 - load changing via rotary switch
- Variable test sequence timing from 1 to 50 s
- LCD Line display - screen display of hardness value and scale with 0.1 unit resolution (e.g. 60.3 HRC)
- Setting of hardness tolerance and statistics (\bar{x} and R)
- Conversion:
 - Rockwell to Vickers, Brinell, Knoop, and UTS
 - Brinell to Vickers, Knoop, UTS, and Rockwell HRA, HRB, HRC
 - Vickers to Brinell, Knoop, UTS, and Rockwell HRA, HRB, HRC
- Integral microscope with measuring shutters and push button for transfer of dimensional data
- Various accessories as standard, such as
 - indenters
 - reference test blocks
 - specimen support tables

Range of application

The types of the Zwick ZHU 187.5 Universal Hardness Tester serve to hardness testing to:

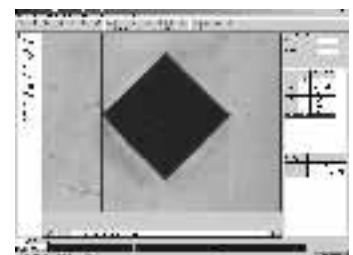
- Vickers (HV) DIN EN ISO 6507, ASTM E92
- Brinell (HB) DIN EN ISO 6506, ASTM E 10
- Rockwell (HR) DIN EN ISO 6508, ASTM E 18

Intelligent testing with *testXpert*[®]



testXpert[®] ready!

Transfer and documentation of the results is made via an integrated RS232 C interface by *testXpert*[®]. There are available *testXpert*[®] options (B069020.xx.xx) with master, standard and customer specific test programs.



For optical evaluation on a PC system there is an option to equip the Zwick/ZHU187.5 with a CCD camera.

Hereby are required the following order items:

- B3330.200 *testXpert*[®] connection
- election of an adequate video objective:
 - 12 mm: BW3310.210, 16 mm: BW3310.211, 25 mm: W3310.212
- master test program for optical testing operation B069021.00.x0

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Order item	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 item				
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 item 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				
Software testXpert® options					
Description	Order item				
Master test program for accepting test data from different devices via an RS232 C interface	german	069020.00.00			
	english	069020.00.10			
Standard test program for accepting test data from different devices via an RS232 C interface	german	069020.01.00			
	english	069020.01.10			
testXpert® connection to Zwick ZHU 187.5 Basis package to an existing microscope	3330.200				