

Product Information

Universal Hardness Tester Zwick/ZHU3000^{top}

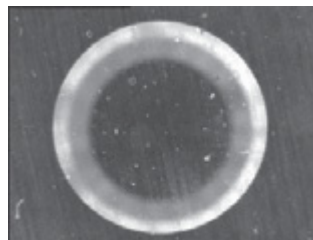


Intelligent testing with *testXpert*® II (Option)



An integrated RS232 interface enables the data communication for test analysis and reports to the Zwick software *testXpert*® II. Using *testXpert*® II Zwick provides the opportunity to connect to quality assurance systems as well as to laboratory information systems (LIMS).

Ring light (Option)



High precision measurement of Brinell indentations using an unique LED ring light illumination. The high contrast between the bright indentation and the dark surface of the specimen is used to enable a precise evaluation of the real edge of the indentation especially for softer materials.

Range of application

Innovative hardness testing of metal and plastics materials using the **ZHU topLine** product program of universal hardness testing machines for 250, 750, or 3000 kgf.

Optical Methods:

- Vickers (HV) to DIN EN ISO 6507
- Brinell (HB) to DIN EN ISO 6506

Depth Measurement Methods:

- Rockwell (HR) to DIN EN ISO 6508
- Vickers (HVT) to VDI/VDE 2616-1
- Brinell (HBT) to VDI/VDE 2616-1

Characteristics

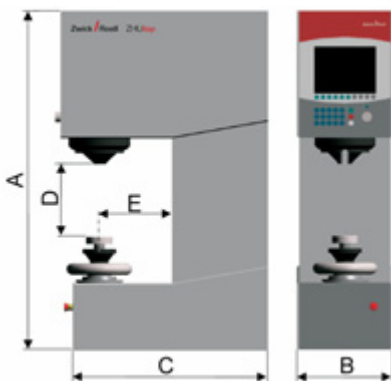
- High accuracy closed loop control of loads from 20 - 3000 kgf / 196.2 - 29430 N
- The latest digital and optical zoom technology improves your test data in almost every application
- Optional: Fully integrated and automated image analysis for high accuracy and dependability of indentation measurement
- Comprehensive range of accessories and options to suit standard requirements as well as customer-specific requirements

Product Information

Universal Hardness Tester Zwick/ZHU3000^{top}

Zwick/ZHU ^{top} Line Product Program	ZHU250 ^{top}	ZHU750 ^{top}	ZHU3000 ^{top}
Item number	371068	371069	371070
Test load	1 - 250 kgf	3 - 750 kgf	20 - 3000 kgf
Test methods			
Brinell Hardness Testing (HB) according to ISO 6506	•	•	•
Vickers Hardness Testing (HV) according to ISO 6507	•	•	•
Rockwell Hardness Testing (HR) according to ISO 6508	•	•	•
Superficial Rockwell Hardness Testing according to ISO 6508	•	•	
Ball Indentation Hardness (H) according to ISO 2039-1	•		
Brinell Depth Measuring Method (HBT)	•	•	•
Vickers Depth Measuring Method (HVT)	•	•	•
Test anvil Ø 80 mm	•	•	•
Motorized zoom 1:7	•	•	•
Motorized spindle	o	o	o
Intelligent user assisting interface for easy and intuitive operation	•	•	•
Objective 2.5x recommended for HV50 ... HB 10/3000	o	o	•
Objective 4x recommended for HV10 ... HB 5/750	•	•	o
Objective 10x recommended for HV1 ... HB 2.5/187.5	o	o	o
Objective 20x recommended for HV0.2 ... HV50	o	o	o
Software <i>testXpert</i> ® II	o	o	o
Fully-automated image analysis system for high accurate measurement	o	o	o
Ring light for dark field measurement	o	o	o
Extended load frames	o	o	o
Motorized turret configurable with 4 indentors and 2 objective lenses	o	o	

- Standard features
- o Optional accessories



Dimensions in mm	ZHU250 ^{top}	ZHU750 ^{top}	ZHU3000 ^{top}
Dimension A: height	1200	1200	1300
Dimension B: width	340	340	350
Dimension C: depth	735	735	820
Testing space:			
Dimension D: max. height	300 (560) ¹⁾	300 (560) ¹⁾	300 (700) ¹⁾
Dimension E: max. depth	250	250	250
Weight approx. in kg, net	250	310	540

¹⁾ Extended work area on request