

Product Information

Zwick/ZHU 250 Universal Hardness Tester for Vickers/Brinell/Rockwell



Range of application

Hardness Testing with ZHU 250 according to:

- Vickers (HV) DIN EN ISO 6507-1/2, ASTM - E 92, also HVT method
- Knoop (HK) ISO 4545 and 4546
- Brinell (HB) DIN EN ISO 6506-1/2, ASTM - E 10, also HBT method
- Rockwell (HR) DIN EN ISO 6508-1/2
- Plastic - determination of hardness, Part 1: Ball indentation (H): ISO 2039-1

Advantages

Easy and fast operation with the new Zwick universal hardness tester ZHU 250, provides:

- Best price and performance ratio
- Most robust and supreme-precision machine for all application cases
- Largest standard working space
- Most ergonomic, parallax-free measuring

- state-of-the-art technology combined with classical functionality
- Supreme reproducibility
- fastest standard delivery time

Characteristics

- Vickers-hardness testing (HV): HV1, HV2, HV3, HV5, HV10, HV20, HV30, HV50, HV60, HV100, HVT
- Knoop-hardness testing (HK): HK1
- Brinell-hardness testing (HB): HBW 1/1 ... 1/30, HBW 2.5/6.25 ... 2.5/187.5, HBW 5/25 ... 5/250, HBW 10/100 ... 10/250, HBT
- Rockwell-hardness testing (HR): A, B, C, D, E, F, G, H, K, 15N, 30N, 45N, 15T, 30T, 45T
- Ball-indentation (H): 49.03 N / 132.39 N / 357.9 N / 961.0 N
- Standard testing height: 300 mm, Standard mount capacity: 250 mm
- Closed loop load application
- Standard RS232 C-interface provides connectivity to PC and test software *testXpert®*)
- LPT1 printer port

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Zwick/ZHU 250 Universal Hardness Tester for Vickers/Brinell/Rockwell

Order item	TC-HZHU250.001
Zwick/ZHU 250 Universal Hardness Tester 1 ... 250 kg, with measurement screen for Vickers-, Brinell-, Rockwell- and Ball indentation hardness testings, incl. specimen clamp	
Test loads	
Vickers	HV1, HV2, HV3, HV5, HV10, HV20, HV30, HV50, HV60, HV100, HVT
Knoop	HK1
Brinell	HBW 1/1 ... 1/30 - HBW 2.5/6.25 ... 2.5/187.5 - HBW 5/25 ... 5/250 - HBW 10/100 ... 10/250 - HBT
Rockwell	HR-scales A, B, C, D, E, F, G, H, K, 15N, 30N, 45N, 15T, 30T, 45T
Ball indentation	H - 49.03 N / 132.39 N / 357.9 N / 961.0 N
Weight	approx. 320 kg
Dimensions (H x W x D)	1200 x 270 x 870 mm

Objective lenses

Description		Order item
Objective lenses for 15 times magnification	Field of view approx. 10.0 mm	065250.15.00
Objective lenses for 45 times magnification	Field of view approx. 3.3 mm	065250.45.00
Objective lenses for 90 times magnification	Field of view approx. 1.7 mm	065250.90.00
Objective lenses for 185 times magnification	Field of view approx. 0.8 mm	065250.18.00
Objective lenses for 390 times magnification	Field of view approx. 0.38 mm	065250.39.00
Objective lenses for 520 times magnification	Field of view approx. 0.29 mm	065250.52.00

Indentors

Description		Order item
Indentor, diamond pyramid 136° to Vickers	incl. DKD test certificate	065240.01.00
Indentor, diamond pyramid to Knoop	incl. DKD test certificate	065240.03.00
Indentor, hard metall ball 1/16"	incl. UKAS test certificate	065240.27.00
Indentor, hard metall ball 1/8"	incl. UKAS test certificate	065240.28.00
Indentor, hard metall ball 1/4"	incl. UKAS test certificate	065240.60.00
Indentor, hard metall ball 1/2"	incl. UKAS test certificate	065240.61.00
Indentor, hard metall ball 10 mm	incl. UKAS test certificate	065240.62.00
Indentor, hard metall ball 5 mm	incl. UKAS test certificate	065240.15.00
Indentor, hard metall ball 2.5 mm	incl. UKAS test certificate	065240.16.00
Indentor, hard metall ball 2 mm	incl. UKAS test certificate	065240.17.00
Indentor, hard metall ball 1.25 mm	incl. UKAS test certificate	065240.19.00
Indentor, hard metall ball 1 mm	incl. UKAS test certificate	065240.18.00
Indentor, Rockwell diamond 120°	incl. DKD test certificate	065240.63.00

Test anvils, floor unit (table)

Description	Order item
Flat anvil 90 mm diameter	065250.01.00
Flat anvil 10 mm diameter	065250.02.00
Flat anvil 150 mm diameter	065250.03.00
Flat anvil 250 mm diameter	065250.04.00
Vee anvil for diameter 15 ... 55 mm	065250.05.00
Vee anvil for diameter 22 ... 220 mm	065250.06.00
Floor unit (table) (H x W x D: 610 x 750 x 800 mm)	065251.00.00