

Product Information

Zwick/ZHV 30 and Zwick/ZHV 50 Vickers hardness testers



Zwick/ZHV 30



Zwick/ZHV 50

Range of application

- Is used for testing the Vickers hardness to DIN EN ISO 6507, as well as the Brinell hardness (optional) to DIN EN ISO 6506.
- Test loads:
ZHV 30: 9.8 / 24.5 / 49 / 98 / 196 / 294 N
ZHV 50: 9.8 / 24.5 / 49 / 98 / 196 / 294 / 490 N

Special characteristics

- Indenter holder for most flexible test positions such as at the flange surface of cylindrical components.
- Weight loading
- Variable test times from 1 to 50 s.
- LCD line display (ZHV 30) or touchscreen (320 x 240 pixels; ZHV 50)
- Microscope with 100 x magnification. Indentation measurement with slideable beam. Diagonal value transmission at the touch of a button.

- Simple operation via:
 - Automatic load application and removal
 - Diagonal value transfer at the touch of a button
 - Automatic evaluation
 - Load changing via rotary switch (ZHV 30) or automatic load changing via touchscreen (ZHV 50)
- Value conversions to test standards
- Setting of tolerance limits
- ZHV 50: Expanded statistics functions and a wide range of evaluation functions for large measurement rows
- 1x resp. 2x RS232 Interface
- Standard accessories:
 - Vickers diamond pyramid
 - Vickers hardness comparison table
 - Plane specimen support table (Ø 70 mm)
 - Specimen support table, V-notch (6 mm)
 - Operating instructions

Product Information

Zwick/ZHV 30 and Zwick/ZHV 50 Vickers hardness testers

Order no.	W3310.000	W3320.000	
Type	ZHV 30	ZHV 50	Units
Test loads			
Vickers hardness	9.8/24.5/49/98/196/294	9.8/24.5/49/98/196/294/490	N
Brinell hardness (option)	HB 1/1; HB 1/5; HB 1/10; HB 1/30 HB 2/20	HB 1/1; HB 1/5; HB 1/10; HB 1/30 HB 2/20	
Test times	1 ... 50	1 ... 50	s
Load changing	manually via rotary switch	automatically via touchscreen	
Dimensions			
Width	348	348	mm
Height	782	782	mm
Depth	700	700	mm
Weight	75	75	kg
Specimen dimensions			
Specimen height	max. 250	max. 250	mm
Specimen depth	max. 150	max. 150	mm
Power supply	220/240	220/240	V
Interface	1 x RS232	2 x RS232	

Indenters

Description	Order no.
Indenter, 136° diamond pyramid, with UKAS certificate	W3320.100
Indenter, 1 mm steel ball, with UKAS certificate	W3320.110

Compound tables and adapter plate

Description	Order no.
Manual compound table, Fmax. 500 N, table dimensions 135 x 135 mm, travel 50 x 50 mm, with micrometer screws (Combined with PC-version order no. 069099.16.X0 is required)	065243.05.00
Manual compound table, Fmax. 1 kN, table dimensions 200 x 200 mm, travel 25 x 25 mm, with micrometer screws (Combined with PC-version order no. 069099.16.X0 is required)	3212.34
Adapter plate for use with compound table 065243.05.00/3212.34	3340.000

Further specimen supports on request.

Option Brinell hardness tests

Description	Order no.
Options for Zwick/ZHV 30 and Zwick/ZHV 50 hardness tests to Brinell HB1/1 to HB1/30 and HB2/20, incl. of indentors 1 and 2 mm, as well as 2 Brinell hardness comparison plates and expanded evaluation software	W3320.001

testXpert® Options

Description	Order no.
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