Vickers Hardness Testing Machines
KBW 1/2-V Standalone
KBW 10/50-V Standalone



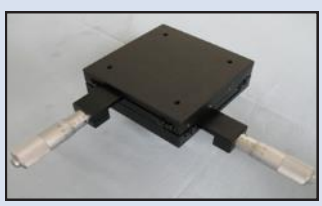
KBW 1-V Vickers Standalone



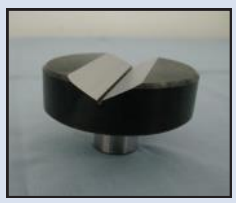
KBW 10-V Vickers Standalone











KBW 1-V Standalone
KBW 2-V Standalone
KBW 10-V Standalone
KBW 50-V Standalone

Micro
Macro
Hardness Testing Machines
Including automatic toll changer

Vickers
Knoop

Hardness tester for the micro, low load and macro range KBW 1/2/10/50-V Standalone

- Fully automatic turret with up to 5 positions

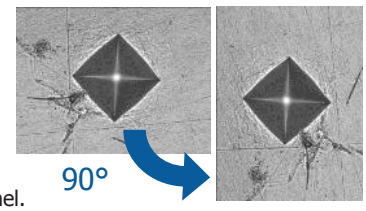
3 installed positions



5 installed positions

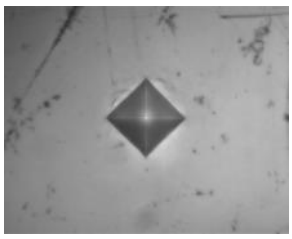


- Various objectives can be adjusted via the operating panel
- After the indentation setting the measuring objective will be positioned automatically.
- The projection of the indentation can be automatically rotated by 90° by the push of one button. The ocular does not need to be manually turned for the measurement of the second diagonal.

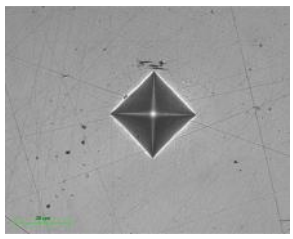


- The dwell time can be adjusted between 5 seconds and 99 seconds via the operating panel.
- LED illumination for higher contrast and higher sharpness

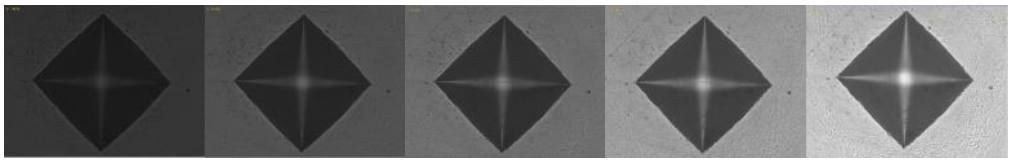
Without LED



KBW: Including LED



- The LED illumination can be adjusted in 16 steps



Standard equipment KBW 1/2-V

- Standard automatic 5-fold turret
- LED illumination
- 2 test blocks HV 1 und HV 0,2 with factory certificate
- Vickers indenter with factory certificate
- Basic objectives: 10x and 40x
- Manual X/Y-stage 110x110 mm incl. 25x25mm travel distance and analogue measuring screws
- Machine cover
- Auxiliary tools
- Accessory Box
- 10x measuring ocular

Standard equipment KBW 10/50-V

- Standard automatic 5-fold turret
- LED illumination
- 2 test blocks HV 1 and HV 010 with factory certificate
- Vickers indenter with factory certificate
- Basic objectives KBW 10-V: 10x and 40x
- Basic objective KBW 50-V: 10x
- Test table diameter 80 mm
- 2 Anvils V-shaped big and small
- Machine Cover
- Auxiliary tools
- Accessory Box
- 10x measuring ocular

Technical Data

Resolution with the 5 MP USB camera

Objective	Resolution	KBW 1-V	KBW 2-V	KBW 10-V	KBW 50-V
5x	0,48	○	○	○	○
10x	0,24	■	■	■	■
20x	0,12	○	○	○	○
40x	0,06	■	■	■	○
80x	0,03	○	○	○	○

■ Standard

○ Optional

The KBW hardness tester can be equipped with 1, 2, 3 or 4

Attention:

If the resolution is smaller than 0,2 µm, also diagonals smaller 40 µm can be measured acc. to standard.

Load step range

Machine type	Load range
KBW 1-V	0,01 - 1 [kgf]
KBW 2-V	0,025 - 2 [kgf]
KBW 10-V	0,5 - 10 [kgf]
KBW 50-V	1 - 50 [kgf]

Dimensions

Machine type	KBW 1-V	KBW 2-V	KBW 10-V	KBW 50-V
Weight	43 kg	43 kg	83 kg	83 kg
Throat	118 mm	118 mm	160 mm	160 mm
Test height	90 mm	90 mm	200 mm	200 mm
Resolution Z-axis	0,005 µm	0,005 µm	0,005 µm	0,005 µm

Load steps

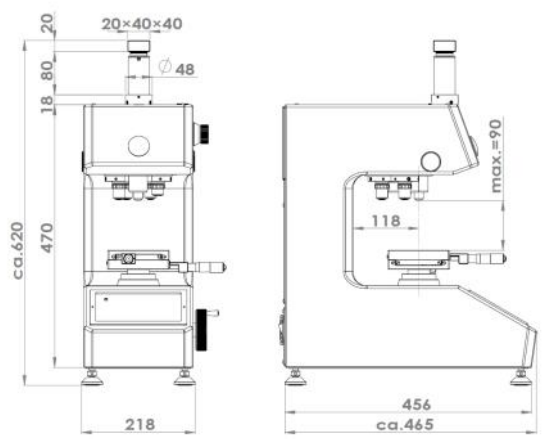
Vickers acc. to DIN EN ISO 6507 and ASTM E 384

Load step	0,01	0,025	0,05	0,1	0,2	0,3	0,5	1	2	3	5	10	20	30	50
KBW 1	■	■	■	■	■	■	■	■							
KBW 2		■	■	■	■	■	■	■	■						
KBW 10							■	■	■	■	■	■			
KBW 50								■	■	■	■	■	■	■	■

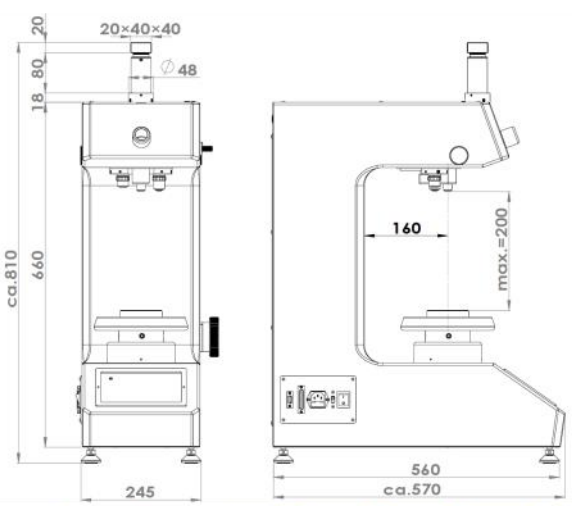
Knoop (optional) acc. to DIN EN ISO 4545 and ASTM E 384

Load step	0,01	0,025	0,03	0,05	0,1	0,2	0,3	0,5	1
KBW 1	■	■	■	■	■	■	■	■	■
KBW 2		■	■	■	■	■	■	■	■

KBW 1-V and KBW 2-V



KBW 10-V and KBW 50-V



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