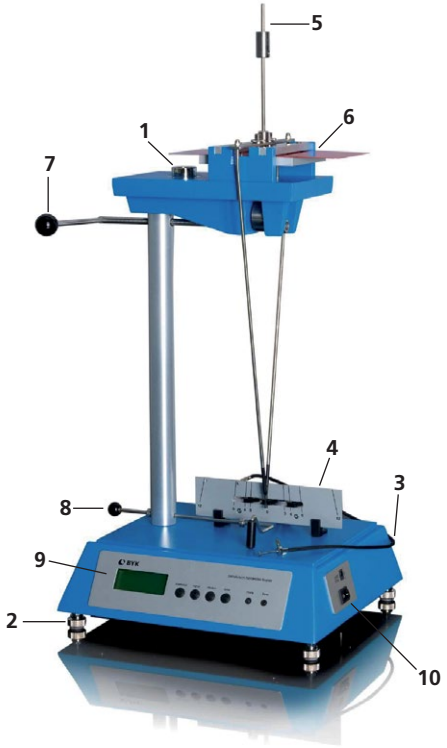
ENGLISH

Pendulum Hardness Tester
System Installation



How to setup the instrument?

- Place the instrument on a vibration free surface
- Balance the bubble level (1) properly with the screw feet (2)
- Mount the wire release (3) to the light barrier (4) (6° König/12° Persoz)
- Place the pendulum (5) into the pins of the lifting table (6) (arrow pointing to the front)
- Mount the protective cover and place it on the instrument
- Insert the handle (7)

1. Bubble level
2. Screw feet
3. Wire release
4. Light barrier
5. Pendulum
6. Lifting table
7. Handle
8. Displacement arm
9. Display and keyboard
10. On/Off Switch

Please note detailed operating instructions in English on CD-ROM.

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Operation

- Switch instrument on (10)
- Select the appropriate method with the „modus“ button and confirm with „enter“
- Clean the balls of the pendulum with acetone or alcohol
- Place the sample on the lifting table (6)
- Raise the lifting table (6) with the handle (7)
- Move the pendulum with the displacement arm (8) to the starting position (6° König/12° Persoz) and hold it by pressing the wire release (3)
- Press the „start/stop“ button, until an * appears on the display and the red LED „busy“ lights up
- Release the pendulum to start measurement
- Avoid vibration and air draft during the measurement

How to measure the Pendulum Hardness?

Depending upon the method, the number of oscillations or the oscillation time is the output.

Pendulum Hardness according to „König“: number of oscillation
1 Oscillation = 1.4 seconds

Pendulum Hardness according to „Persoz“: oscillation time in sec.
1 Oscillation = 1 second

Control of measurement accuracy

For periodical control of the instrument, it is recommended to measure the included glass plate once a week.
The following values need to be reached:

Pendulum Hardness according to „ König“: 179 ± 7 osc.
Pendulum Hardness according to „ Persoz“: 430 ± 10 sec.

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