KB Prüftechnik GmbH

KB – UHP: Universal hardness testing panel

The universal hardness testing panel **KB- UHP** was especially designed for the modernization (digitalization) of a large variety of hardness testing machines. **The KB-UHP** panel enables the retrofit of almost every kind of hardness testing machine. Well-operating hardness testers can be updated easily and cost-effectively.

KB – UHP combines highest testing comfort and easy handling via large graphic display.

The computer-based electronic provides a lot of advantages:

- Easy installation of updates on-site
- Possibility to connect external keyboard, monitor , hard disk (optional)
- Network connection
- Support of standard printers

Measuring systems which are suitable for connection **KB - UHP** panel:

- **KB – serial scale** (digital scale with serial interface) for hardness testing according to Vickers, Brinell and Knoop
- **KB – Rockwell-retrofit kit serial**
- Optional: Digital gauge and Rockwell-panel for Wolpert

You can add the following equipment in conjunction with **KB – digital display unit**:

- Existing incremental scale from Wolpert and Frank for hardness testing according to Vickers and Brinell.
- Existing incremental measuring microscope from Wolpert (V - Testor - series)

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- **KB – Rockwell-retrofit kit with incremental** measuring sensor
- **KB – retrofit kit low load** (special kit for analogue low load hardness testers model Wolpert V - Testor with existing analogue measuring microscope

Further measuring systems on demand

There could be added the following 3 measuring systems to the **KB – UHP** hardness testing panel at the same time:

- One Vickers and Brinell- hardness tester with serial or incremental scale
- One low load hardness tester e.g. Wolpert V-Testor
- One Rockwell hardness tester

Other configurations on demand

It is possible to retrofit cost-efficient nearly all kind of hardness testing machines independently of machine type and manufacturer.

Please ask us for an individual offer.

KB Prüftechnik GmbH
YOUR competent partner in the matter of retrofitting your hardness testing machine

Technical data of KB – UHP Universal hardness testing panel

- 50 freely programmable testing programs
- Exact setting of applying- and exposure time of the test loads
- Possibility of text input for each testing program for better identification
- Automtical correction of round surfaces according to DIN 50 133 and EN 10 109
- Direct + digital display of all hardness values
- Display of tolerances
- Conversions acc. to DIN 50150 table
- Separated statistic for each testing program
- Determination *of:* min / max, number of tests, average value, range, Standard deviation, calculation of machine capability test constant cp and cpk
- Protocol print-out in DIN A 4 format
- Help function (Information for operation)
- Info function (information for testing features)

Supported testing methods:

1. Vickers according to DIN 50133, ASTM
2. Brinell according to DIN EN 10003-T1, ASTM
3. Rockwell according to DIN EN10109, ASTM
4. Macro-Rockwell
5. Knoop
6. Optional: Vickers depth measurement (HVT)
7. Optional: Brinell depth measurement

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8. Optional: Ball indentation (for plastics) according to DIN ISO 2039 T1

Height x Width x Depth	: 145 x 280 x 380 mm
Keypad	: 4 x 5 Matrix membrane keyboard
Display	: 320 x 240 points ¼ VGA LD Display
Power supply	: 230 VAC, 40 VA
Printer interface	: parallel oder serial
Data transfer	: serial or optional Ethernet (network-compatible)

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