

MarCal. Calipers

MarCal - Measuring Applications

Vernier calipers can be used to conduct 4 types of measurement:

- a) Outside measurement
- b) Inside measurement
- c) Depth measurement
- d) Step (distance) measurement

MarCal - Reading of the Vernier Scales

Resolution: 0.05 mm

Resolution: 0.02 mm

Correct reading position in the vertical viewing direction = Reading: 24 mm

Wrong reading position due to lateral viewing direction, resulting in a reading error due to Parallax effect = Reading: 24.2 mm

Viewing direction

A: 7 mm
B: (0.05 x 13) 0.65 mm
C: 7.65 mm

A: 8 mm
B: (0.02 x 32) 0.64 mm
C: 8.64 mm

MarCal - The Innovative Reference-System

Just set once to zero

All Mahr digital calipers with the REFERENCE logo are equipped with the innovative Reference System. The zero position just has to be set once: after setting the zero position, the zero remains stored for all further measurements. Therefore, once the caliper is switched ON or the slide is moved, the caliper is immediately ready for measurement. The need to reset to zero with a conventional caliper once the caliper is switched on has now become obsolete.

REFERENCE - System

Switch ON

Press the ON button or Move the slide

Measuring result

MarCal - Design Features

Measuring blades for inside measurement

Locking screw

Slide

Beam

Flat depth bar

Vernier scales

Line scales

Moveable measuring jaw

Measuring blades

Fixed measuring jaw

Integrated Wireless Interface

Large, clear digits

Additional functions and settings in the menu

Round depth bar

REFERENCE

Switch ON: Either press the ON button or move the slide RESET (Set display to zero)

Reference-Lock function (Buttons can be locked)

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MarCal calipers have **lapped guideway surfaces**, these guarantee an even and sensitive run of the slide.

MarConnect - Data Processing

Recording and evaluating measurement results is becoming increasingly important in modern manufacturing. Mahr's measuring devices are connected to a PC via cable or radio transmitted (Integrated Wireless) in connection with the MarCom Software. This enables convenient, fast and secure data recording.

MarConnect Integrated Wireless: With an Integrated Wireless receiver, up to 8 wireless measuring instruments can be connected per i-Stick.

USB: For connection to a PC with a data cable.

MarCom Software: Using MarCom Software, you can directly transfer your measured values into Microsoft Office Excel® or with a keyboard code into any required application.

Digimatic: To connect a Digimatic compatible evaluation instrument.

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MarCal - Avoiding Measuring Errors

Correct measuring techniques are shown with green checkmarks, and incorrect techniques are shown with red X marks.

MarCal - Variants

Pocket caliper

Workshop caliper for large measuring ranges

Caliper for specific measuring tasks

Depth caliper