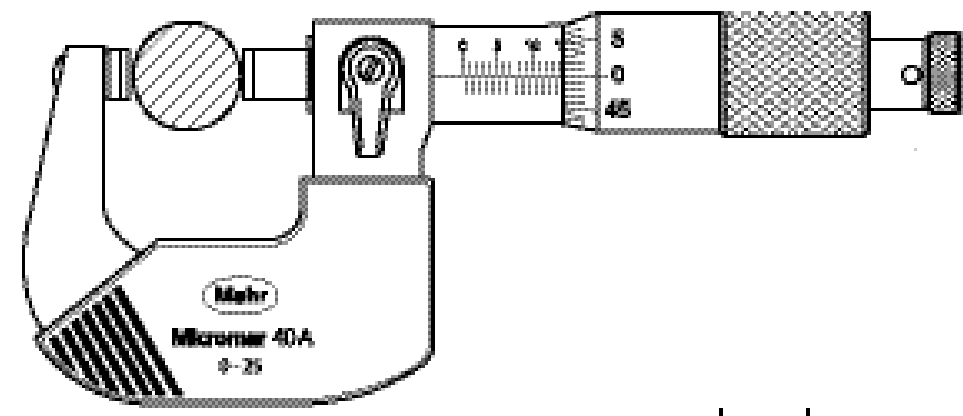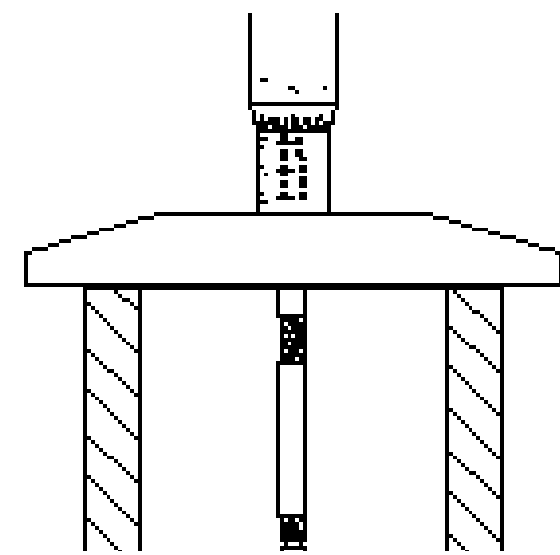# Micromar. Micrometers

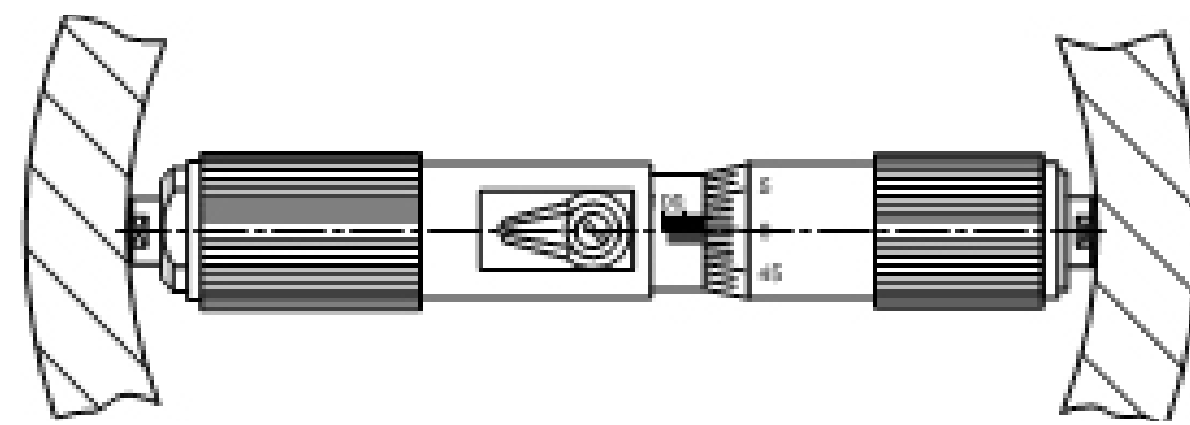## Micromar - Measuring Applications

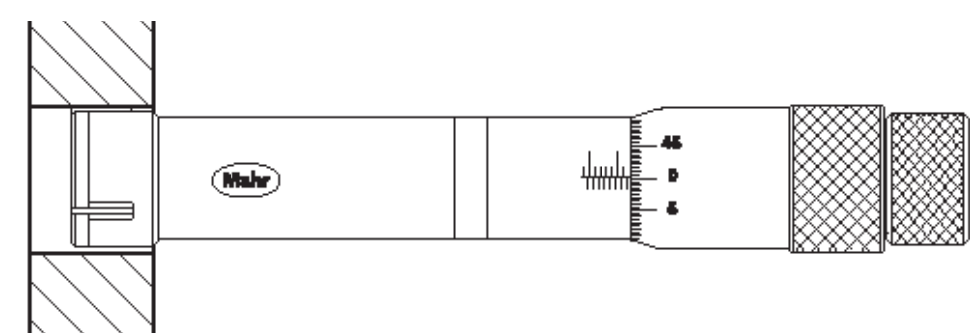**Outer measurement** of lengths, widths, diameters, etc.

Depth measurement of groove/bore depths, offsets, recesses, etc.

Inner measurement of holes and distances, etc.

Inside micrometer, 2-point scale
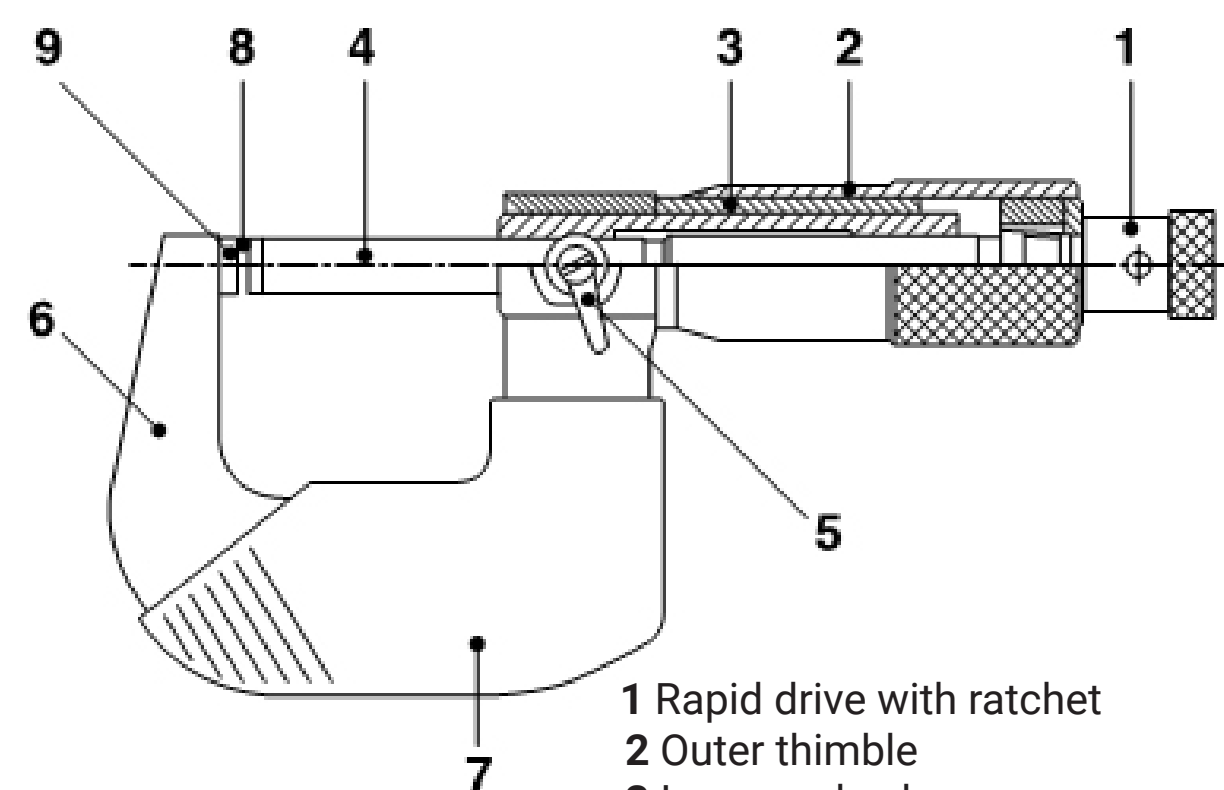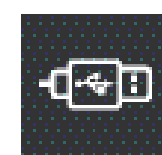
Inside micrometer, 3-point scale

Micromar - Terminology

1 Rapid drive with ratchet
2 Outer thimble
3 Inner scale sleeve
4 Measuring spindle
5 Locking device
6 Frame
7 Body heat insulating plates
8 Carbide measuring surfaces
9 Anvil

MarConnect - Measurement Data Processing

The recording and evaluation of measurement results is becoming an increasingly high priority in modern production. To this end, the measuring devices are connected to a PC via cable or wireless (Integrated Wireless) in conjunction with the MarCom software. This enables convenient, fast and secure data collection.

Integrated Wireless: Up to 8 Integrated Wireless radio measuring devices can be connected per i-Stick receiver.
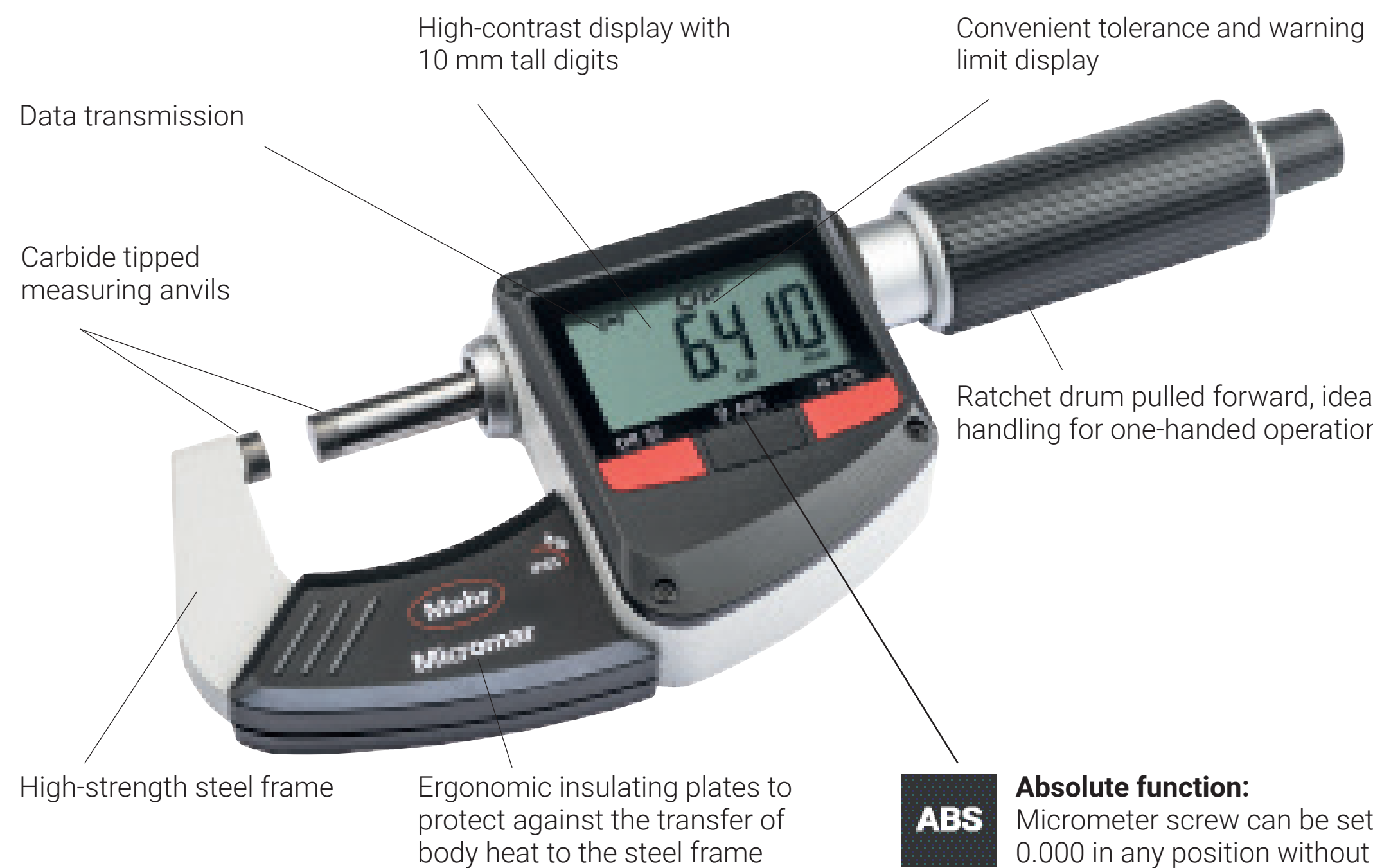
USB: For direct data cable connection to the PC.

MarCom Software: The MarCom software allows you to import your measured values directly into MS Excel or into any application via keyboard code.

Digimatic: For data cable connection to Digimatic-compatible evaluation units.

Micromar - Reading

Outside micrometers with scale graduation: 0.05 mm

Sleeve	2.5
Drum	0.28
Measuring result	2.78 mm

Inner micrometer screws with scale interval: 0.005 mm

Sleeve	42.0
Drum	0.265
Measuring result	42.265 mm

Data transmission

Carbide tipped measuring anvils

High-contrast display with 10 mm tall digits

Convenient tolerance and warning limit display

Ratchet drum pulled forward, ideal handling for one-handed operation

High-strength steel frame

Ergonomic insulating plates to protect against the transfer of body heat to the steel frame

ABS **Absolute function:** Micrometer screw can be set to 0.000 in any position without losing its reference to the ORIGIN (OR)
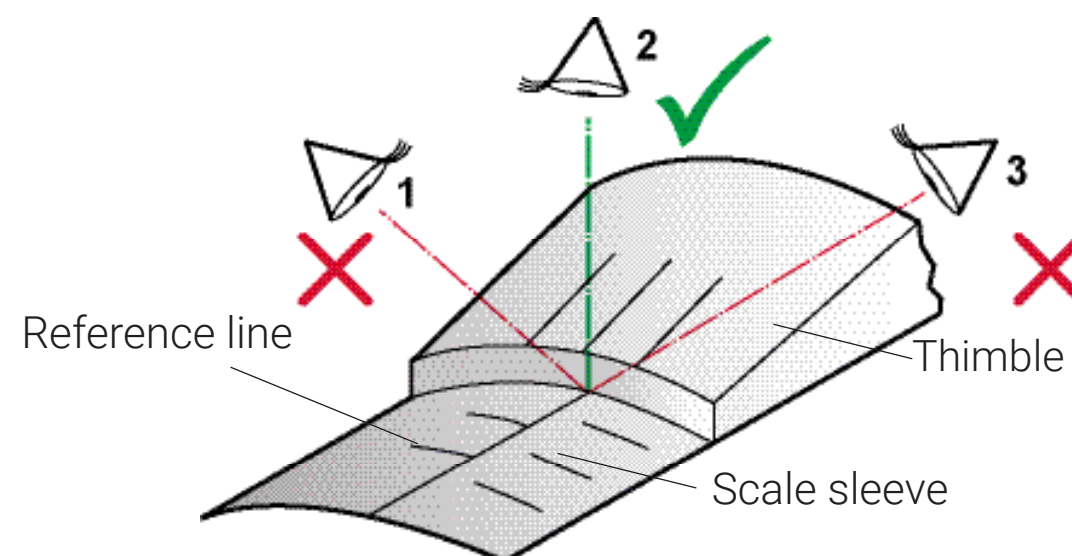
IP 65 Excellent protection against dust and water for use in workshops and production

EN 60529	IP	International Protection
First number	6	dust-proof
Second number	5	Protection against water jets from all directions

Micromar - Avoid measurement errors

Avoid parallax errors
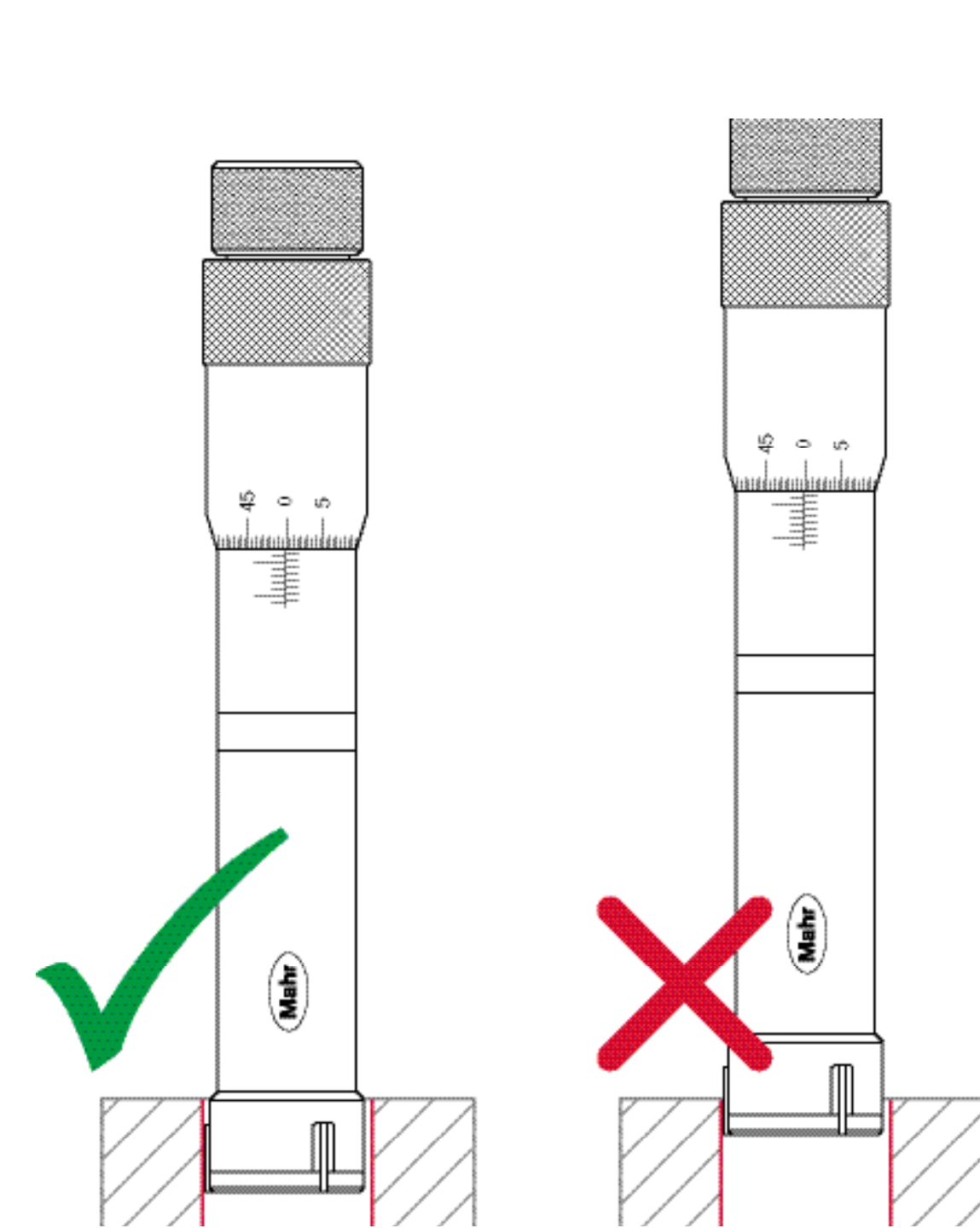
Reference line
Thimble
Scale sleeve

Measuring deviations due to parallax occur when the scale on the thimble and the reference line on the scale sleeve are not level and are read at an oblique viewing angle.

1 Diagonally above the reference line
2 Direct view of the reference line
3 Diagonally below the reference line

Self-centering inside micrometers

Flatness and parallelism inspection

Optical parallel

Micromar - Models

Outside micrometer for special measurements

Micrometer with dial comparator

Stand micrometer with dial comparator

Simple and safe reading of the differential value on the dial comparator

Set the absolute nominal size with the micrometer screw

Depth micrometer

2-point inside micrometer

Self-centering inside micrometer

Self-centering measuring pistol