The perfect match for your measuring tasks.
Ready when you need it.

ZEISS Stylus Portfolio
For guaranteed precision and reliable measurement results

The ideal stylus system
- has as few joints as possible
- is as rigid as possible
- weighs as little as possible
- is as temperature-resistant as possible

Only use certified original accessories for your ZEISS measuring system. This is the only way to guarantee maximum precision and compliance with the specifications of your measuring system.

Stylus tip

The stylus is the “tip” of the stylus system and is the first point of contact to the workpiece. Three factors must be taken into account when choosing a stylus tip: the stylus specifications, and the shape and material of the tip. The most frequently used stylus tip is the ball tip.

Dimensional accuracy and the material are what count here.

Tip material
- Ceramic
  - Suitable for scanning rough surfaces (hollow) hemispheres. Particularly suitable for measuring very hard or highly thermally stable surfaces.
  - Very low porosity. Available as high-strength Titanium Carbide (TiC) variants.
- Silicon nitride
  - Especially suitable for scanning aluminum and other soft surfaces.
  - Almost no wear and no material buildup.
- Tungsten carbide
  - For guaranteed precision and reliable measurement results. Can be made to specification.
  - Used for the most common measurement tasks. Particularly suitable for scanning soft materials such as for gear diameters and as weight-optimized precision variants, in large sphere measurement tasks.

Shaft

All stylus generally should be as resistant to bending as possible in order to properly register the measuring force, largely without any deformation or so-called “stiffness bend”. The shaft material used and the shaft cross section have the greatest influence on distortion.

Design and material
- Ceramic
  - Used for special measurement tasks. Particularly suitable for scanning soft materials such as in wear- and corrosion-resistant TiC variants.
- Graphite
  - Used for scanning soft materials such as in the probe and as weight-optimized precision variants.
- Glazed material
  - Such shafts and material buildups. Particularly suitable for scanning soft materials such as in wear-resistant graphite.

Adapter

The adapter forms the connection between the connecting thread and the shaft. It is important that the adapter is structurally designed so that it can optimally take up the measuring force introduced on the shaft.

Adapter thread

Depending on the measuring system used, ZEISS offers different connecting threads that control high-strength titanium alloy.

Material wear or back-up

Even high-quality parts are measurable items that must be checked regularly. This is the only way to ensure measurement accuracy.

What can be done about it? Our expert tips.

Shaft

Shaft

Material wear or back-up

Even high-quality parts can be measurable items that must be checked regularly. This is the only way to ensure measurement accuracy.

What can be done about it? Our expert tips.

Shaft

Material wear or back-up

Even high-quality parts can be measurable items that must be checked regularly. This is the only way to ensure measurement accuracy.

What can be done about it? Our expert tips.

Shaft

Material wear or back-up

Even high-quality parts can be measurable items that must be checked regularly. This is the only way to ensure measurement accuracy.

What can be done about it? Our expert tips.