



Seeing beyond

# ZEISS Metrology Expert Tip



**Check the Accuracy of Your Machine  
with the ZEISS Accuracy Check**

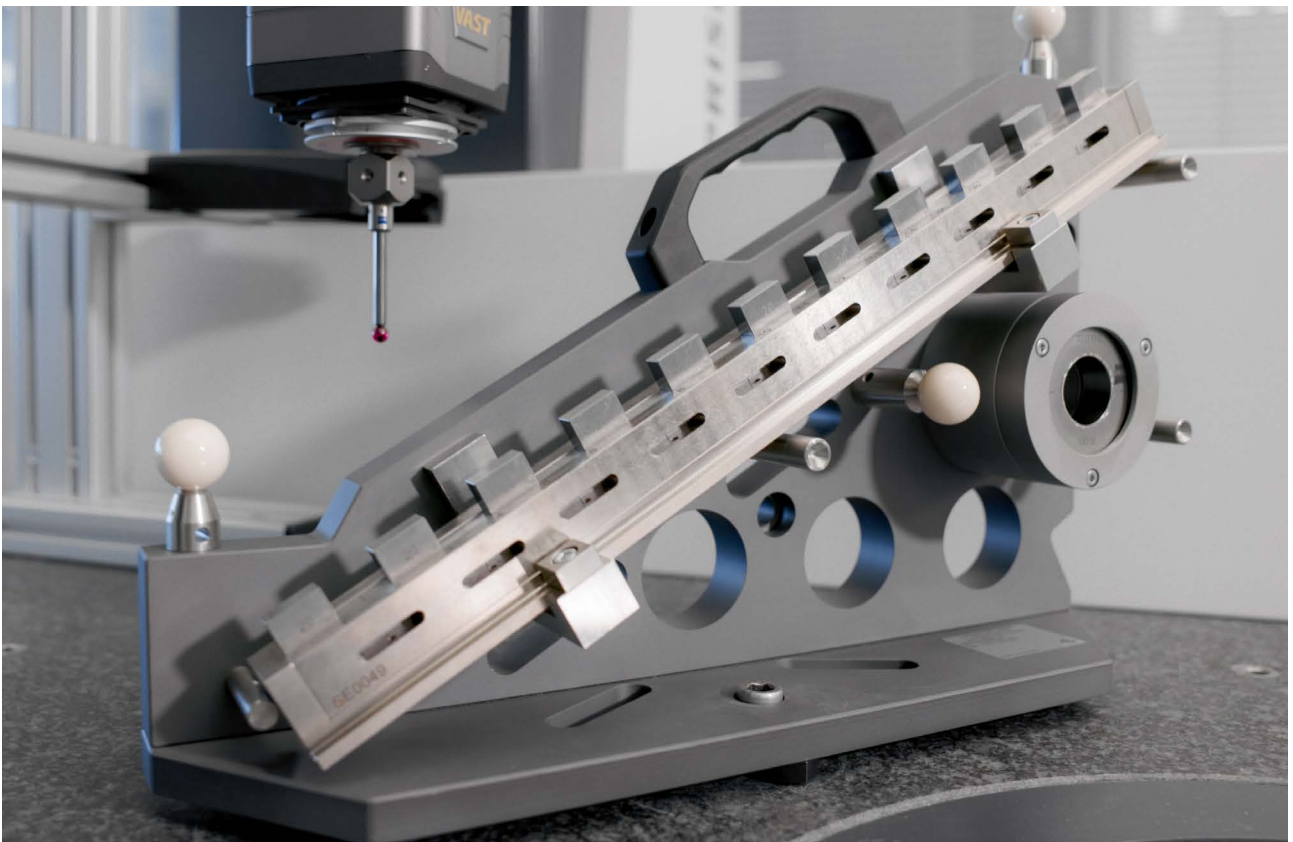
[probes.zeiss.com](https://probes.zeiss.com)

## What About the Accuracy of the Measuring Machine After a Hard Collision?

Heavy use and collisions can affect the lifetime and measurement of your ZEISS coordinate measuring machine. Regular checks are therefore essential to maintain uptime. If you are unsure about the accuracy status of your machine, it is important to act quickly to prevent unexpected failures and ensure accurate measurements.



Regular checks give you more confidence in your measurement.



ZEISS Coordinate Measuring Machine with installed ZEISS Artifact.

# ZEISS Accuracy Check

## Prearrangement

Before you conduct an accuracy check, make sure you are prepared. External influences such as temperature, vibrations, position of the artifact and contamination of the standards can influence the result. Therefore, always make sure that the check is carried out correctly.

## Diagnostic Process

The base of the universal artifact consists of a bend-resistant base plate onto which precise, calibrated measurement standards and form standards are mounted:

- Setting ring gage
- Ceramic sphere
- Parallel gauges or step gauge
- Rotary table (option): Two additional ceramic spheres

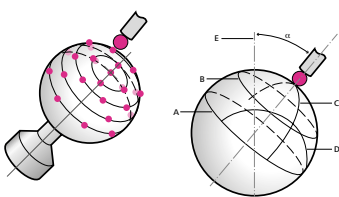
The necessary calibration of the CMM Check is performed as a DAkkS calibration at our calibration lab accredited in accordance with DIN EN ISO/IEC 17025.

## Comprehensive Reporting

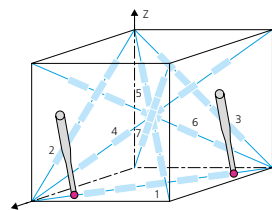
Machine-dedicated control and evaluation software is available for ZEISS Coordinate Measuring Machines.

## The following functions are available:

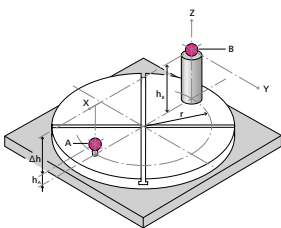
Probing errors with single points and with scanning on a ring and sphere:



Length measurement error:



Four-axis errors in accordance:



The measuring capability factor enables customized modifications to the inspection criteria and much more.



It is important to recalibrate a ZEISS Artifact. Did you know that standards age? As **steel gauges** or **steel step gauges** age, the dimensional accuracy of the standards change. Therefore, it is important to recalibrate your artifact at regular intervals.

With the ZEISS Artifact you are always prepared to carry out a ZEISS Accuracy Check to assess the accuracy status of your ZEISS Coordinate Measuring Machine. In addition, we recommend using the ZEISS Smart Services Remote Health Check to check the mechanical health of your machine after a collision or routinely between calibrations. If you follow these expert tips and use the ZEISS Smart Services Remote Health Check and ZEISS Accuracy Check, you can always rely on your coordinate measuring machine.

## Start the ZEISS Accuracy Check Now

### Order the ZEISS artifact in the ZEISS Metrology Shop

Order your ZEISS artifact to be able to carry out a ZEISS Accuracy Check. Select the webshop for your country and then simply order online.

### Arrange a Service Appointment

Do you already have a DAkkS-certified artifact? Then make an appointment with our service technicians. Simply contact us by clicking on the button below.

**ZEISS Original Accessories  
are available in the  
ZEISS Metrology Shop.**

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