

The Form and Coordinate Measuring System

Form measurements with the ZEISS PRISMO ultra



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Workpieces must no longer be inspected separately on a form tester for the serial inspection of form measurements. Your ZEISS PRISMO ultra form and coordinate measuring system does the job for you, reducing setup and throughput times and creating value.

The standards for component quality, dimensional stability and form accuracy continue to rise. In practice this means ever-tighter form tolerances are measured manually on a form tester while the dimension and position values are captured on coordinate measuring machines by using CNC runs.

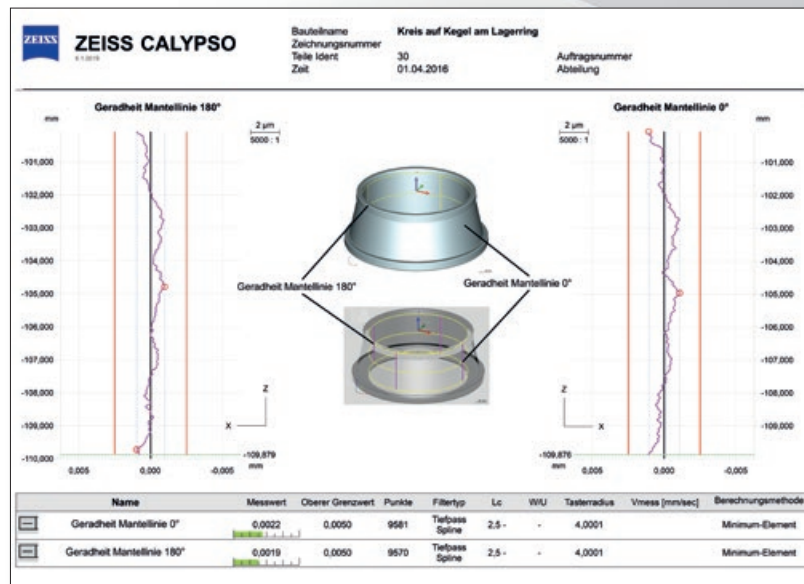
The possibility of performing dimension, position and form measurements on one coordinate measuring machine offers a number of economic advantages by:

- Reducing additional time and effort in the measuring lab (measuring machines, fixtures, setup time)
- Reducing throughput times
- Eliminating operator influence by reducing manual measurements
- Increasing predictability and repeatability

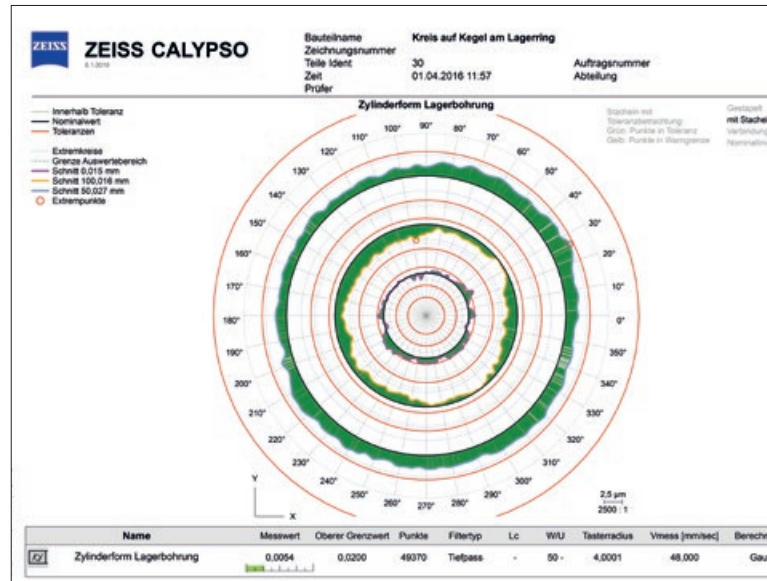
With the form and coordinate measuring system from ZEISS, a coordinate measuring machine is available that performs two measuring jobs in a single measurement. This important step forward was made possible by combining the ZEISS PRISMO ultra coordinate measuring machine with the highly accurate RT-AB rotary table on air bearings and new correction methods.

Benefits of the form and coordinate measuring system

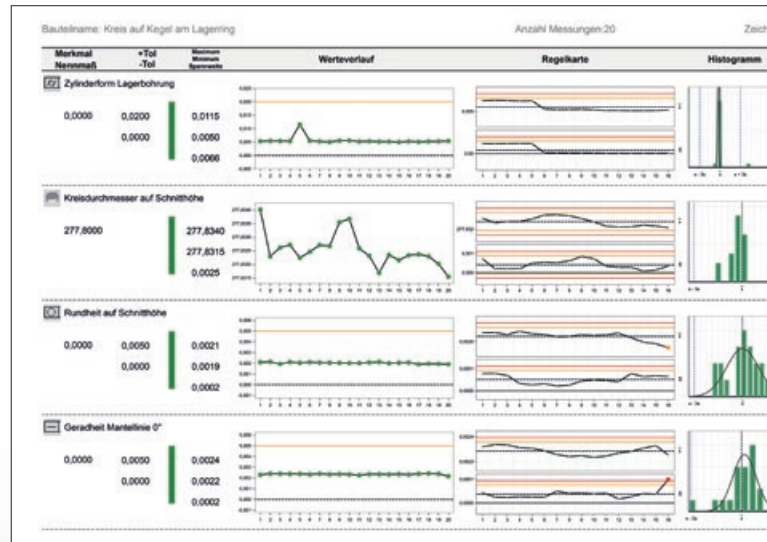
- Capture the size, form and position in a fixture – all without operator influence
- Automatically capture the installation position of the rotary table
- Automatically capture the workpiece alignment without time-consuming mechanical pre-alignment



A comprehensive graphic results display: straightness of the surface lines on the cylinder surface



A comprehensive graphic results display: roundness error of a cylinder surface



Statistic evaluations using PiWeb reporting plus (option in CALYPSO)

Form measuring package

- ZEISS PRISMO ultra
- ZEISS CALYPSO measuring software
- RT-AB select rotary table
- Stylus kit with diamond and diamond-coated styli
- Sample measurement plans with suitable layouts for reports and form plots

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