The POLARIS measuring device is used for statistical process monitoring within the production of rotationally symmetrical components – as well as the process related and fast checking of the process data.

By partial, functional and high-precision scanning of workpiece contours features such as radii, center layers and shapes in sphere can be determined. In this case, features can be measured reproducible in the sub-micron range.

The POLARIS is optimally suited for process closed use, delivering high precision measurement results and can be operated confidently by the operator.

### Technical specifications
- Capability with 20 repeated measurements: < 0.2 μm
- Measuring time: approx. 100 s
- Dot density per channel: approx. 2,000 values/s
- Changeover time: 5 min
- Dimensions WxHxD: 1,130 x 1,960 x 890 mm

### POLARIS advantages
- Reduction of measurement laboratory utilization through SPC-measurement
- Fast results through process-oriented setup
- Shortening of downtimes after tool change
- Quick check of tools used (e.g. contour of the broaches)
- Flexible use due to fast changeover

### Main workpieces
Applications are rotationally symmetrical workpieces:
- Joint parts such as ball hub - pitch angle, pitch angle, concentricity, ball heights, radius ball diameter
- Ball screw drive of a steering nut - cylindrical shape of the helix, min./max. radii, pitch deviation, axial positions, etc.
- ANSI B92.1 toothing: diametrically two-ball-measurement, pitch angle, shape (axial and radial)

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