



High-precision, semi-automatic measurement runs Gageline SG100, SG200 and SG500

The SG100 – SG500 measuring systems allow for measurement of outer or inner diameters of different types of cylindrical workpieces.

Characteristics measured

- Diameters on different levels
- Zero backlash
- Dynamic diameter measurement (profile evaluation)
- Matching tolerance of two workpieces
- Conicity

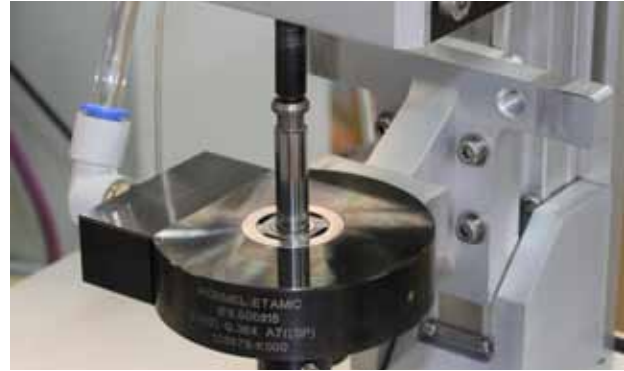
Your advantages

- IP65 protection for use on the shopfloor
- Simple test plan control
- Automated measurement runs
- High linearity thanks to high-end pneumo-electronic transducer
- Very fast measurement cycles

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SG100 for measurement of inner diameters



SG200 for measurement of outer diameters

System components

- Evaluation unit (measurement computer Sirius and Tolaris Premium software)
- Linear unit with associated electronics
- Pneumo-electronic transducer TPE200
- Pneumatic gaging component (air spindles and air ring gages)
- Setting master

System features

- Available measuring systems: SG100 for inner diameters, SG200 for outer diameters and SG500 for combined inner/outer measurements
- Scanning or incremental measurement on different levels
- Synchronous recording of measured values and position in Z- thanks to CANopen motion controller
- Emergency stop button
- Crash protection system for the gaging tool
- Easy access to pneumatic and electronic connections for maintenance purposes
- Optional: dynamic measurement (rotating workpiece)

Technical data

Total measuring stroke (linear unit)	200 mm*
Measuring stroke	100 mm*
Inner or outer diameter	1 – 25 mm
Measuring range	5 – 40 µm
Repeatability	0.05 µm (6S)
Max. number of measuring levels	127
Measurement speed	e.g. 2 sec./cm (depends on the selected system configuration)

* larger workpiece dimensions on demand