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

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

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total measuring stroke (linear unit)</td>
<td>200 mm*</td>
</tr>
<tr>
<td>Measuring stroke</td>
<td>100 mm*</td>
</tr>
<tr>
<td>Inner or outer diameter</td>
<td>1 – 25 mm</td>
</tr>
<tr>
<td>Measuring range</td>
<td>5 – 40 µm</td>
</tr>
<tr>
<td>Repeatability</td>
<td>0.05 µm (6σ)</td>
</tr>
<tr>
<td>Max. number of measuring levels</td>
<td>127</td>
</tr>
<tr>
<td>Measurement speed</td>
<td>e.g. 2 sec./cm (depends on the selected system configuration)</td>
</tr>
</tbody>
</table>

* larger workpiece dimensions on demand