

Gageline AG200

Air tooling for measurement of uninterrupted and interrupted outside diameters



System features

- Easy and convenient operation
- Measurement in one plane with two or three jets to measure out-of-roundness or triangulation
- Static or dynamic measurements
- High reliability and quality with a repeat accuracy below 0.25 μm
- Mounted or mobile operation
- Simple calibration using a master of known dimensions
- Adaptation of air jet length and position according to the requirements
- Use with displays (e. g. Pneumatic) or measuring computers (e. g. Vega)
- Standard or customized air tooling

Advantages of the pneumatic measuring principle

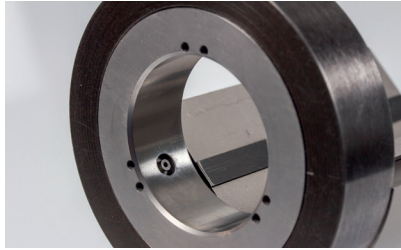
- Non-contact measurement
- High sensitivity and accuracy
- Extremely robust and dirt resistant, therefore suitable for measurement in harsh workshop conditions
- Self-cleaning of measured surfaces
- Short response times

Universal application

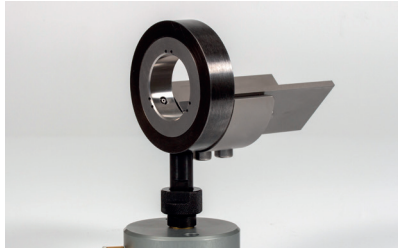
- Manual measurement in production lines
- Semi-automatic or automatic measuring stations
- Quality lab (subgroups or 100 % monitoring)
- Manual air tooling with handle or on base

Gageline AG200

Air tooling for outside diameters



Standard air ring AG200 with three jets
(measurement of triangulation)



Standard air ring with guide prism for easy
insertion of the shafts



Standard air ring with two
round air jets #2

Measuring range and min. ØN:
2 jets (centered or near the end)

Diameter [mm]	Round air jet #1	Round air jet #2	Elongated air jet #5
3 < ØN ≤ 6	max. 0.080 mm	max. 0.160 mm	–
6 < ØN ≤ 150	max. 0.080 mm	max. 0.160 mm	max. 0.080 mm
min. ØN	3 mm	4 mm	8 mm

Measuring range and min. ØN:
3 jets (centered or near the end)

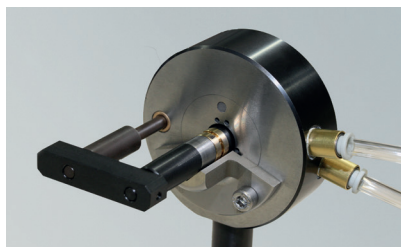
Diameter [mm]	Round air jet #0.7
3 < ØN ≤ 150	max. 0.040 mm
min. ØN	3 mm

Precision and performance

Measuring range [mm]	Precision	Accuracy GR&R type 2	Accuracy CMC
0.010 (±0.005)	< 0.00025	< 10 %	2
0.020 (±0.010)	< 0.0005	< 10 %	2
0.040 (±0.020)	< 0.001	< 10 %	2
0.060 (±0.030)	< 0.0015	< 10 %	4
0.080 (±0.040)	< 0.002	< 10 %	4
0.120 (±0.060)	< 0.003	< 10 %	4
0.160 (±0.080)	< 0.004	< 10 %	4

Versatile application

Our air rings are used for a variety of applications. Number and size of jets can be adapted to your needs. We also develop and manufacture part-specific air rings.



Special air ring with two planes and
insertion aid



Air ring and air spindle with multiple
planes for matching



Special air ring for measurement
of hip prosthesis