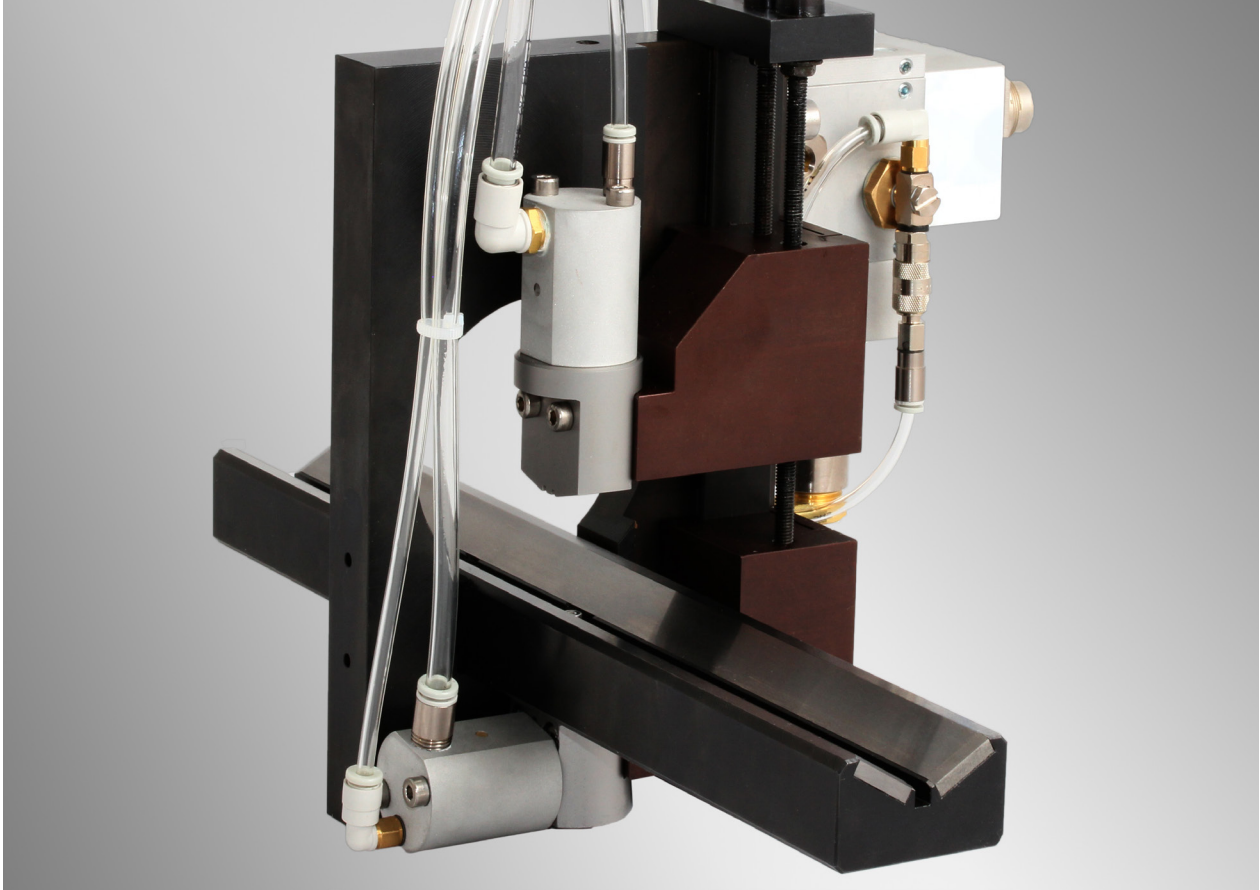


Gageline AG280

Air gauge rings with extremely high flexibility



System features

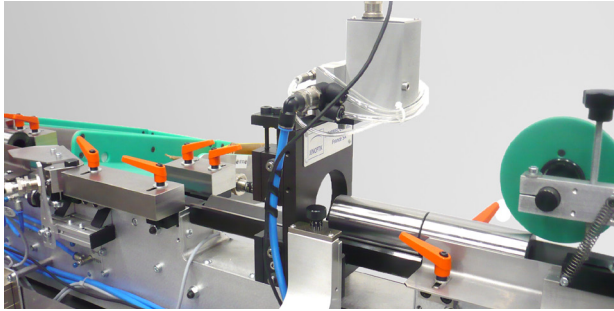
- Fast manual adjustment to different diameters
- Three measuring ranges with diameters from 5 to 100 mm
- Integrated nozzle block
- 120° guide prism with integrated, highly resistant reinforcement to protect against wear
- In conjunction with Jenoptik measuring electronics, the AG280 air gauge rings permit tool compensation and correction
- Measurement noise < 0.3 μm
- Designed for integration into conveyor belts

Advantages of the pneumatic measuring principle

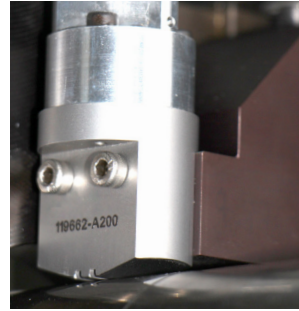
- Non-contact measurement
- High sensitivity and accuracy
- Extremely robust and dirt resistant, therefore suitable for measurement in harsh workshop conditions
- Self-cleaning of measured surfaces
- Short response and measurement cycle times

Gageline AG280

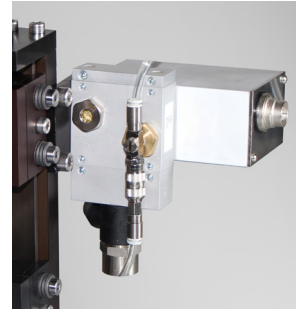
Measurement of diameters with extremely high flexibility



Example for the integration of an air gauge ring AG280 with TPE99 in a conveyor belt at the exit of a centerless grinding machine



Upper nozzle



Adjusting device and integrated measuring transducer TPE99

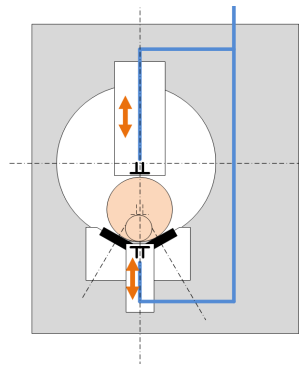
Technical data

Operating temperature	+15 °C to +40 °C
Measurement noise	<0.3 µm
Measuring capacity	available with ±40 or ±60 µm
Repeatability	R&R <10 % with tolerance ≥5 µm
Nozzle	2x nozzle no. 2
Recommended pneumatic combination with TPE99	7/(7+7) G1 A7/0 (±40 µm)
Measuring range	
	Art.-no. air gauge ring with 150 mm guide prism and TPE99
5–50 mm	E501278-200
16–75 mm	E501278-300
40–100 mm	E501278-400

Dimensions AG280	E501278-200	E501278-300	E501278-400
A	120 mm	120 mm	150 mm
B	75 mm	75 mm	90 mm
C	195 mm	195 mm	210 mm
D	105 mm	105 mm	105 mm

Measuring principle

The lower and upper nozzles are connected to the same TPE99. They are height-adjustable independently of each other, allowing the entire diameter range to be measured.



Air gauge ring AG280

