



BG41 | BG42 Bore Gauge



Workpiece Measurement



Infrared Data Transmission



Wear-Free Measuring Mechanism



Mass Production



Diameter Measurement



Position Measurement



Roundness Measurement



Cylindricity Measurement



Concentricity Measurement

Bore Gauge **BG41** | **BG42**

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focus on productivity



BG41 | BG42 | Bore Gauge | Tactile workpiece measuring system with infrared transmission

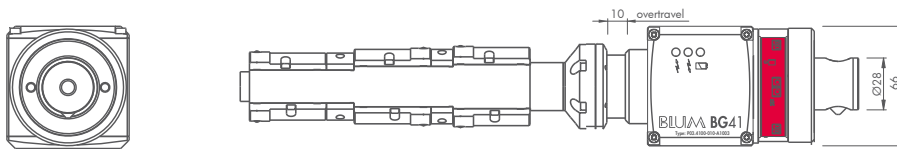
Customized solution for determination of multiple characteristics in bore production

- Solution with up to 8 individual measuring elements
- Measurement of diameter, position, cylindricity, roundness and concentricity
- Instant process control due to calculation of tool compensation values
- Machine-independent measuring system

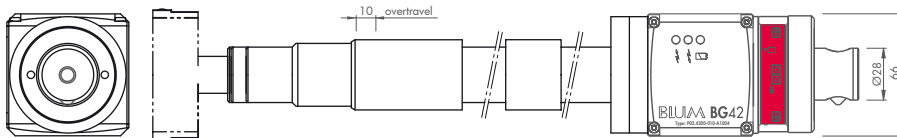
Your benefit:

- Extremely fast measurement
- Measurement in initial setting
- Elimination of costly post-process measuring station
- High production quality and increased productivity
- Robust design

BG41: Normal system with overtravel



BG42: Reinforced version with external overtravel



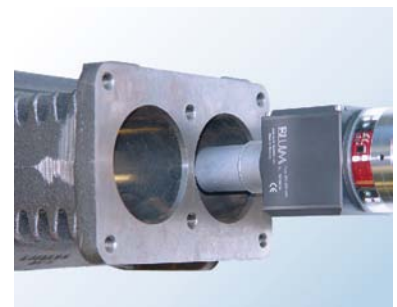
Technical data

Protection class	IP67
Signal transmission	Infrared
Transmitter operating range	approx. 3 m $\pm 60^\circ$ in Z, 360° in X/Y
Switch-on/Switch-off method	optical/optical or timeout
Battery	6LR61 (9V)
Resolution Linearity	12 Bit / 0,15 μm 1 % of the measuring range
Measuring range	400 μm (depending on diameter)*
Max. overtravel	10 mm
Max. feed	without limiting
Max. acceleration	20 m/s ²
Tool holder	BTH 50 (HSK, SK, BT, VDI, ...)
Storage/Operating temperature	-20 °C ... +70 °C +5 °C ... +50 °C

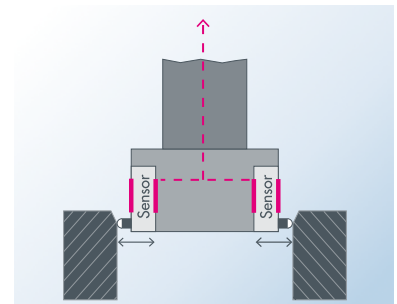
* see data sheet



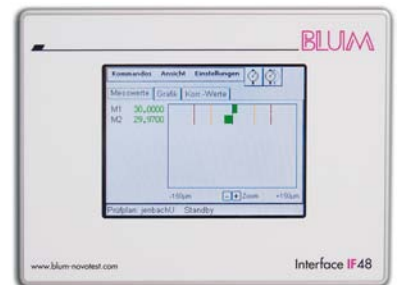
BG41 in cylinder block production



BG41 in compressor production



Measuring principle



Process control & logging with IF48

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