



BG40 Bore Gauge



Workpiece Measurement



Infrared Data Transmission



Wear-Free Measuring Mechanism



Mass Production



Diameter Measurement

Bore Gauge **BG40**

BLUM
focus on productivity



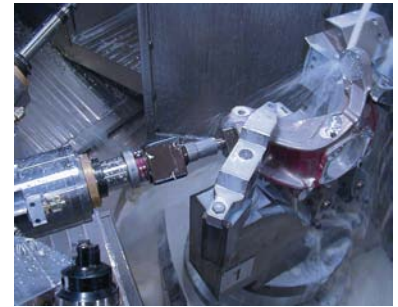
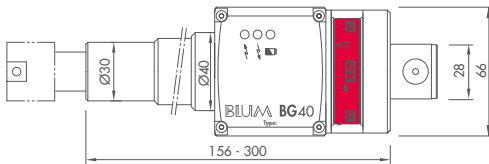
BG40 | Bore Gauge | Tactile workpiece measuring system with infrared transmission

Highly precise solution for in-process measurement of bore diameters in mass production

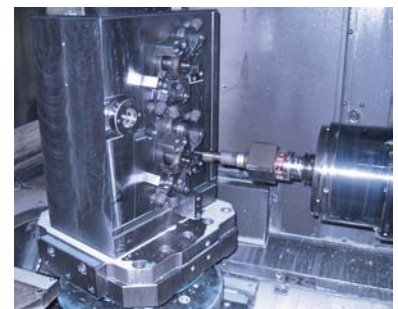
- Automatic measurement of bores (> 3 mm)
- Instant process control due to calculation of tool compensation values
- Machine-independent measuring system

Your benefit:

- Extremely fast measurement
- Float principle provides accurate diameter even when machine is not perfectly positioned in bore center
- Elimination of costly post-process measuring station
- Provides closed loop machining by communicating with third party tools
- High production quality and increased productivity



Example: Measurement of steering knuckle

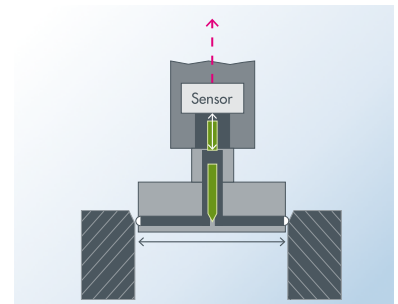


BG40 in gas engine production

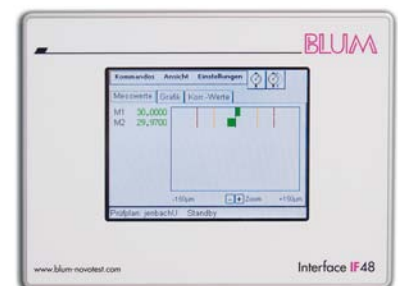
Technical data

Protection class	IP67
Signal transmission	Infrared
Transmitter operating range	approx. 3 m \pm 60° in Z, 360° in X/Y
Switch-on method	optical
Switch-off method	optical or timeout
Battery	6LR61 (9V)
Resolution	12 Bit / 0,15 μ m
Linearity	1 % of the measuring range
Measuring range	400 μ m (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



Measuring system with float principle



Process control & logging with IF48

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