



**Workpiece Measurement**



**shark360 DIGILOG**



Radio Transmission



Position Measurement



Roughness Measurement



Workpiece Inspection



Coolant Load



Mass Production



**Roughness Gauge TC64-RG**

THE QUANTUM LEAP IN THE MACHINING CENTRE

**BLUM**  
focus on productivity



# Roughness Gauge TC64-RG

## THE QUANTUM LEAP IN THE MACHINING CENTRE

### Roughness gauge for machine-integrated quality monitoring

Globally unique roughness measuring system for automatic inspection in the initial setting. Fast digital measurement of workpiece position and reliable detection of poor surface quality using analogue measurement. In this way, rejects characterised by the feature "surface roughness" can be minimised.

- Compact system with BRC radio transmission
- Roughness measurement on milling, turning and grinding machines
- High measuring resolution for maximum precision and safety
- Reliable data transmission using BRC radio technology

### Your benefit:

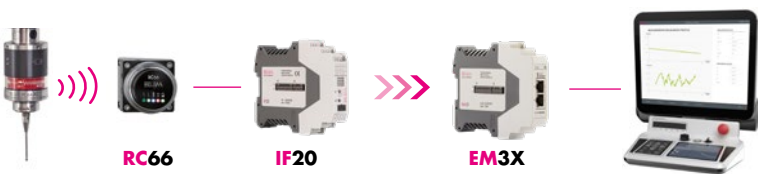
- Minimizing of rejects by allowing immediate rework
- Enhanced productivity and process reliability by elimination of manual and downstream tests
- Reliable measurements, even under the influence of coolant
- Superior precision due to patented **shark360** measuring mechanism
- No-wear, optoelectronic measuring mechanism
- Mechanically robust design

### Software RG 3.0

Specially developed for the use of BLUM surface roughness gauges, BLUM RG 3.0 software offers the perfect opportunity for data entry, calculation and evaluation of the roughness values, recorded in the machining centre.

- Automatic calculation of roughness parameters Ra, Rz, Rq, Rt and Rmax
- Flexible definition of warning and tolerance limits per measuring distance
- Alarm release when exceeding the warning and tolerance limits
- Providing the tracked data in a log file

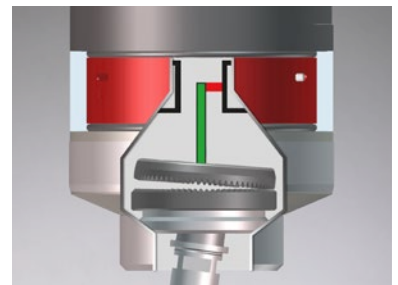
### System overview



TC64-RG – Roughness measurement in the machining centre



Process-integrated roughness measuring on a blisk



Patented **shark360** measuring mechanism



Analysis on control monitor or BLUM touch panel

### Technical data

### TC64-RG

Size	Ø 40 mm
Length *	68 mm
Transmission type	Radio
Max. probing speed	2000 mm/min
Measurable roughness	> Rz 2 µm

\* without stylus and interface for tool holder