



TC63-RG | TC64-RG Roughness Gauge



Workpiece Measurement



Radio Transmission



shark360 DIGILOG



Wear-Free Measuring Mechanism



Modular System



Roughness Measurement



Mass Production

Roughness Gauge **TC63-RG** | **TC64-RG**

BLUM
focus on productivity



TC63-RG | TC64-RG | Roughness Gauge | Tactile workpiece measuring system with BRC radio transmission

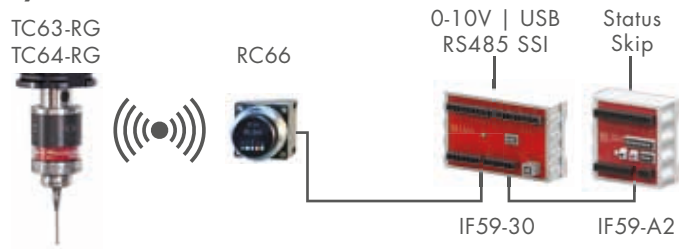
Roughness gauges for machine-integrated quality monitoring of surfaces

- Evaluation of surface roughness in original fixturing
- Early detection of poor surface quality
- Roughness measurement on milling, turning and grinding machines

Your benefit:

- Minimizing of rejects by allowing immediate rework
- Enhanced productivity and process reliability by elimination of manual and downstream tests
- Superior precision due to patented **shark360** measuring mechanism
- No-wear, optoelectronic measuring mechanism
- Use of up to 6 measuring systems with one receiver
- Proven and robust design

System overview:



Measuring resolution

Stylus	40 mm
Analogue measuring range	550 μm
Resolution Converter resolution	12.3 mV/ μm * 0.2 μm /Digit
Sampling rate internal external	1 kHz 1 ms/Value or Status

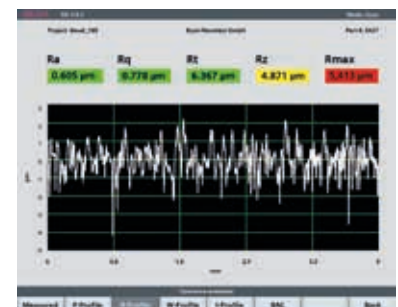
Technical data

Protection class	IP68
Approach direction Measuring force	$\pm X, \pm Y$ 0.35 N ** / 2 N
Max. deflection in XY Z	$\pm 15^\circ$ 5 mm
Max. probing speed	2 m/min
Repeatability	0.4 μm 2 σ
Measureable roughness	> Rz 2 μm
Roughness parameters	Ra, Rq, Rt, Rz, Rmax, Wt
Signal transmission Frequency band	Radio (BRC Technology) 2.4000 ... 2.4835 GHz
Transmission power Operating range	0 dBm 15 m
Tool holder	BTH 25 (HSK, SK, BT, VDI, ...)

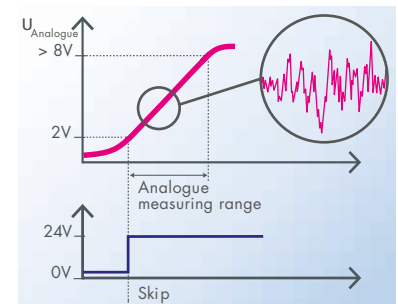
* X-Axis ** Stylus L= 40 mm



TC63-RG – modular system with **shark360** DIGILOG technology



Display and operation via machine control or BLUM touch panel



Output signals (Trigger point/Analogue measuring range)



Sequential use of up to 6 measuring systems with one radio receiver



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