Roughness Gauge TC63-RG | TC64-RG

Workpiece Measurement

Radio Transmission

shark360 DIGILOG

Wear-Free Measuring Mechanism

Modular System

Roughness Measurement

Mass Production
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:

TC63-RG | TC64-RG
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RC66

0-10V | USB
RS485 | SSI
Status | Skip
IF59-30 | IF59-A2

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**: ±X, ±Y | 0.35 N ** / 2 N
- **Max. deflection in XY | Z**: ±15° | 5 mm
- **Max. probing speed**: 2 m/min
- **Repeatability**: 0.4 μm 2σ
- **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