

## Technical Specification Roughness Tester HOMMEL ETAMIC W5

**Portable Roughness Tester for fast measurements / precise workpiece support /  
diverse selection button / handy device / with USB- and Bluetooth-interface /  
with adjustable legs for height adjustment / Li-ion - Battery / persistent**

This handy product is a mobile roughness tester in the Hommel Etamic series from Jenoptik. This mobile roughness tester is particularly well suited to take quick measurements on machines or in measuring rooms. Thanks to the diverse range of probes which can be replaced very easily, the mobile roughness tester can be used on a variety of surfaces. The mobile roughness tester also has a precision ground support bracket; this guarantees permanently stable workpiece support. If you want to measure the surface of a workpiece, which attaches higher, you can use your mobile roughness tester with the pull-out tripod legs adjusted to the respective height. In order to recognise the measurement surface better, the mobile roughness tester has a luminous prism with LED. The mobile roughness meter has five measuring programs and stores the measured data in the respective data storage. You can transfer them to your PC with the included USB cable as the data format is compatible with Windows. At the same time you start the charging function, when you connect your mobile roughness tester to the PC. To charge the battery without using a PC, you can connect the included power supply adapter to the USB cable, then your mobile roughness tester can be fully charged in just 4 hours.

- Low weight makes the device easy to handle
- Workhorse performance
- Li-ion - rechargeable battery
- USB and Bluetooth interface
- Light function
- Mobile operation
- Easy-to-read color display
- Reliable measurement results
- All major standards
- 25 surface roughness sizes
- Ease of use
- Wide range of accessories

### Technical Specification of Mobile Roughness Tester Hommel-Etamic W5

Total deviation acc. to DIN 4772	Class 1
Measuring range(s) / Resolution	320 $\mu$ (-210/+110) / 5 nm
Button	Inductive skids button, 2 $\mu$ m / 90 °
Unit of measurement	$\mu$ m / $\mu$ inch selectable
Traversing	total 17.5 mm according to ISO/JIS / 1.5 / 4.8 / 15 mm according to MOTIF / 0.64 / 3.2 / 16 / mm
Cut Off (ISO / JIS)	0.25 / 0.8 / 2.5 / mm

Number of sampling lengths	1...5 selectable
Filter	Phase correct profile filter (Gaussian) according to DIN EN ISO 11562 Filter according to ISO 13565-1 Ls – Filter according to DIN EN ISO 3274 Robust Gaussian filter ISO 16610-31
Keying speed	0.15 /0.5 /1/ mm/sec   Returns: 3 mm/sec
Data point spacing	Min. 0.5µm (9600 Points at lt = 4.8mm)
Size characteristics	DIN EN ISO 4287: Ra, Rz, Rmax(Rt), Rq, RSm, Rmr(c) , RSK  DIN EN ISO 13565: Rk, Rpk, Rvk, Mr1, Mr2, A1, A2  MOTIF ISO 12085: R, AR, Rx  ASME B46 Rp, Rpm  JIS B601 Rz-JIS, Ry (equivalent to Rz), tp (equivalent to Rmr)  DIN EN 10049 RPc  Daimler DB N 31007 R3z  HOMMEL-ETAMIC V0 (Oil retention volume)
Data storage	5 measurement programs
Offline storage	max. 100 profiles, max 10,000 measurements
Working / operating temperature	+5 ... +40 °C
Dimensions	ca. 50 x 63 x 127.5 mm
Weight	270 g
Interfaces	USB, Bluetooth
Power supply	Li-Ion rechargeable battery
Battery capacity	800 measuring cycles
Battery recharge time	4 h
Wide range power supply	100 ... 264 V

#### **Delivery Contents of Mobile Roughness Tester Hommel-Etamic W5**

- Mobile roughness tester Hommel-Etamic W5
- Button T1E, 2µ/90°
- Power supply
- USB-cable
- Prism for small shafts
- Illuminated pushbutton protection
- Factory calibration certificate
- Operating instructions
- Bag