

Pocket Roughness



Roughness under Control, with a Touch

Pocket Roughness

Pocket Roughness is a portable acquisition and analysis unit designed for immediate roughness control in both industrial and laboratory environments.

Equipped with an 8" high-resolution touchscreen display, it enables detailed real-time analysis of roughness parameters and profiles.

The data management system allows rapid export of results to external systems for storage, traceability, or advanced processing.

Its intuitive operation and robust design make it particularly suitable for industrial applications.

Pocket Roughness can be used in combination with the **OmniDrive** roughness tester or integrated into MCM **retrofit** solutions, simplifying measurement operations and making use faster and more immediate for the operator.

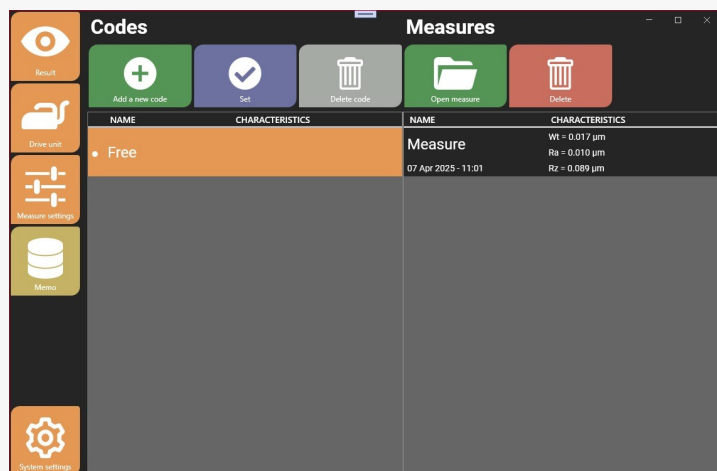


Integration with OmniDrive

This integration enables direct control of the **OmniDrive** instrument, allowing fast management of measurements, result visualization, and data export from a single interface.

Pocket Roughness Key Strengths

- Intuitive touchscreen interface
- Quick setup via measurement codes
- Real-time analysis and tolerance verification
- Immediate data export
- Versatile connectivity
- Compatibility with OmniDrive and retrofit solutions
- Robust design for industrial use



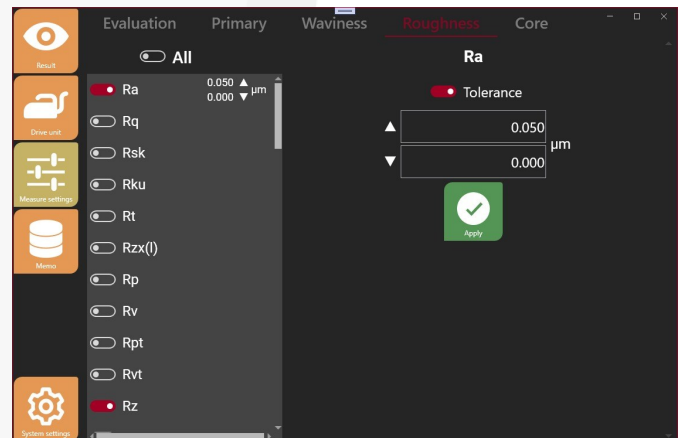
Codes

It is possible to create codes containing measurement settings, parameters, and tolerances, allowing the operator to simply select the desired code without having to manually configure the instrument.

This approach ensures greater automation of the measurement process and consistency in quality control operations.

Tolerance Management

Pocket Roughness allows customized tolerance limits to be set for each measurement parameter. The system automatically compares the acquired results with the defined values, enabling immediate compliance verification and facilitating quality control directly during operation.



Connectivity

Pocket Roughness is equipped with hardware interfaces designed to ensure operational flexibility and immediate integration into the working environment.

The integrated USB ports allow:

- the use of external storage devices (USB flash drives) for rapid export of measurement data
- connection of peripherals such as a mouse and keyboard, facilitating instrument operation as an alternative to the touchscreen

In addition, via the HDMI output, it is possible to connect an external monitor for extended screen display, facilitating profile analysis, result presentation, or use in dedicated workstations.

These options make Pocket Roughness adaptable to various operational configurations, from the metrology laboratory to the production line.



ID Monitor Pocket Roughness Technical Specifications

Units	Selectable: Metric / Imperial
Standards	ISO21920 ISO4287 JISB0601 ASMEB461 ISO13565 JISB0671 MBN31007 DIN4768
Profile Type	Primary(P) Waviness(W) Roughness(R) Bearing Area Curve (BAC) / (ADF)
Filters	ISO 16610-21 Gaussian ISO 16610-22 Spline linear ISO 16610-31 Gaussian Robust ISO 16610-32 Spline Robust ISO 13565-1 Vally Suppression
Cutoff Length	0,008, 0,025, 0,08, 0,25, 0,8, 2,5, 8 mm
Number of Cutoff	Selectable from 1 to 20
Exclusion	None, 1/2 cutoff, 1 cutoff
Form removal	Flat, Curved
LambdaS	Yes
Parameters	Pa, Pq, Psk, Pku, Pt, Pzx(l) Pal(l), Psw Pdq, Pda, Pdt, Pdl, Pdr Pml(c), Pmc(c), Pcmp, Phd(c), Pvm(p), Pvv(p) Pmr(p,dc), Pdc(p,q) Pk, Ppk, Pvk, Ppkx, Pvkx, Pmrk1, Pmrk2, Pak1, Pak2 Ppq, Pvq, Pmq Ppt, Pp, Pvt, Pv, Pz Psm, Psmx, Psmq, Pc, Pcx, Pcq, Ppc PSm, PPc, PΔq, PHSC, PLo, Plr

	Wa, Wq, Wsk, Wku, Wt, Wzx(l) Wal(l), Wsw Wdq, Wda, Wdt, Wdl, Wdr Wml(c), Wmc(c), Wcmp, Whd(c), Wvmp, Wvv(p) Wmr(p,dc), Wdc(p,q) Wpt, Wp, Wvt, Wv, Wz Wsm, Wsmx, Wsmq, Wc, Wcx, Wcq, Wpc WSm, WPC, WΔq, WHSC, WLo, Wlr Ra, Rq, Rsk, Rku, Rt, Rzx(l) Ral(l), Rsw Rdq, Rda, Rdt, Rdl, Rdr Rml(c), Rmc(c), Rcmp, Rhd(c), Rvmp, Rvv(p) Rmr(p,dc), Rdc(p,q) Rk, Rpk, Rvk, Rpkx, Rvkx, Rmrk1, Rmrk2, Rak1, Rak2, Vo Rpq, Rvq, Rmq Rpt, Rp, Rvt, Rv, Rz Rsm, Rsmx, Rsmq, Rc, Rcx, Rcq, Rpc RSm, RPC, RΔa, RΔq, Rvm, Rpm, Ra75, Rmax, Rzjis, RzDIN, Ry5, RpASME, RvASME, PcASME, RHSC, RLo, Rlr, R3z, Rz1max, Htp, tp(p), Et, Ep
Recalculation	Yes
Power Supply	Integrated rechargeable battery (min. 300 measurements) or 12V 2A charging unit.
Data Interface	USB-A data export
Languages	English, Italian, Spanish, German, French, Portuguese, Slovenian, Chinese, Japanese, Korean, Romanian, Russian, Slovak, Turkish, Hindi (others on request)
Data storage	Up to 10.000 measurements
Dimensions	200 x 160 x 140 mm
Weight	1,2 Kg
Fixing	Stand included or 4 mounting holes Ø6 (160 × 80 mm)
Connections	Zebra printer connection. Monitor via HDMI
Exports	Excel, QDAS, CSV, PDF, DXF, File .mcm (Software Surfynex)
Other features	Password/lock protection. Date/time settings.
Dichiarazione di conformità	CE, EMC; RoHS

Compatibility with Third-Party Systems

Pocket Roughness extends the functionality of instruments already in use in production, including models from various leading market manufacturers.

Through the MCM retrofit, it is possible to:

- improve the operator experience
- speed up measurement operations
- enable advanced data export
- extend the lifecycle of existing investments

Compatibility	
Brand	Model
Mahr	PFM PFM2 PFK PZK PGK20 GD25 SD26
Hommelwerke	Waveline W5 Waveline W10
Mitutoyo	SJ 201 SJ 210



For further information, please visit our website or contact us: we will be pleased to provide you with all the support you may need.



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