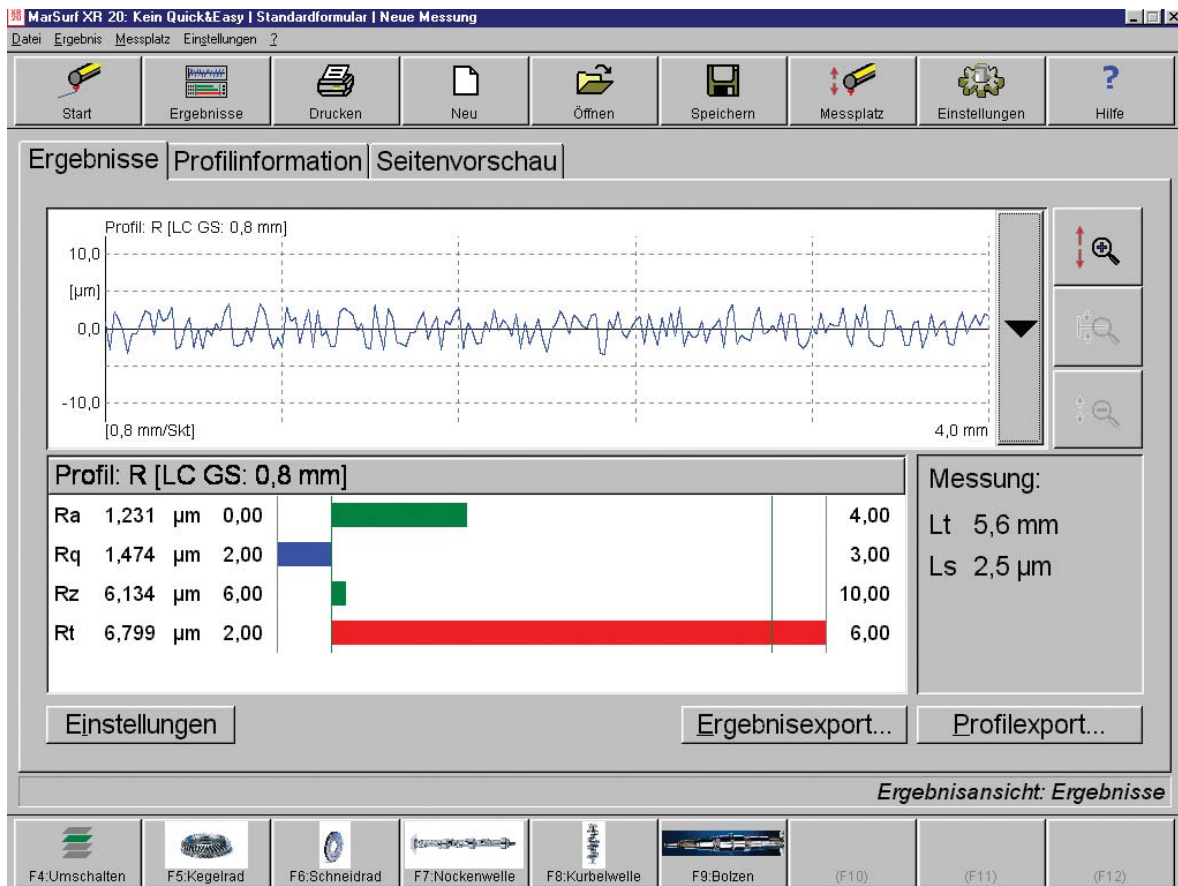


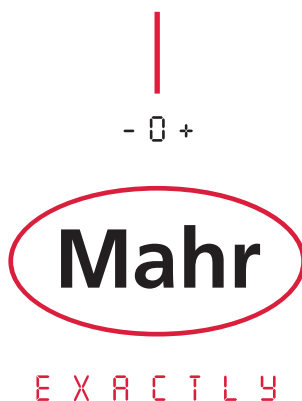
MarSurf



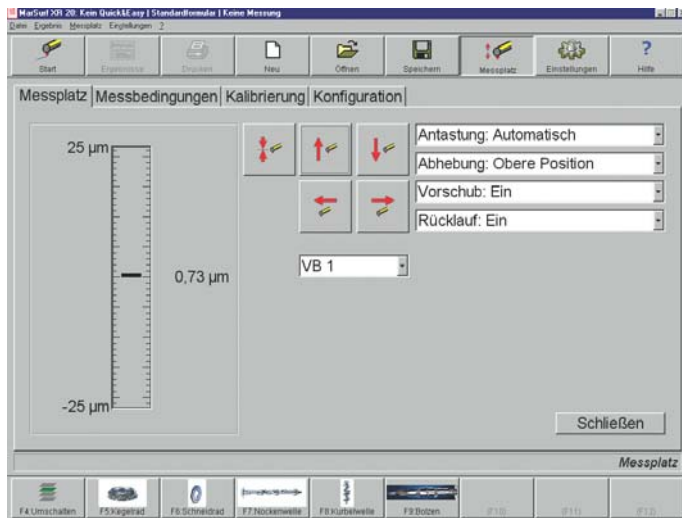
MarSurf XR 20.

The latest generation in roughness measurement

- **PC-based measurement and evaluation system featuring simple operation via mouse / keyboard or touchscreen**
Simulation mode to help you familiarize yourself with the system quickly
User passwords for personalized access to software functions
Window for controlling measuring station components
- **Quick&Easy measuring programs can be created using the Teach-In method**
and can be saved under freely definable names
32 Quick&Easy programs can be launched using programmable function keys
- **Multiple measurements with up to 64 profiles, including statistics**
Pre-specified form (layout according to record contents) with your own company logo
Page preview of the measuring record
- **Dynamic calibration function with PGN (Ra and Rz) and PEN**
- **Automatic function for selecting standard filters and traversing lengths**
- **Maintenance and calibration intervals can be set**



MarSurf XR 20. The latest generation in roughness measurement



Quick-to-learn thanks to pleasingly simple user interface

- You save introduction time and training costs.
- No-one will ask you ever again - "And why does the production department work with x and gets a completely different y and measures in a totally different way?"

Safe and reliable thanks to smart software

- Adherence to deadlines thanks to automated functions, including monitoring of calibration and maintenance intervals
- You save time and money during everyday operation and can minimize your service input.

Total harmony - yesterday, today and tomorrow

Mahr has more than 65 years of experience in the field of roughness measurement!

Decades of metrology experience are combined with state-of-the-art, future-focused technologies.

- You will be congratulated on how easily and quickly you can transfer experience and knowledge to new staff.
- You have Mahr's proven expertise at your fingertips, and can call on a reliable partner with real experience in metrology and quality.

Technical data - in brief

Measurement / evaluation	PC system with Windows operating system and MarSurf XR 20 software application in German, English and French
Parameters and profiles	<ul style="list-style-type: none"> • More than 65 parameters for R-, P- and W-profiles and motifs, with tolerance monitoring and statistics • Parameter lists and characteristic curves
Profile resolution	Up to 0.76 nm (.03 µin) at VB ± 25 µm (± 1,000 µin), depending on the pick-up type
VB measuring range	± 25 µm to ± 2500 µm (± 1,000 µin to ± 100,000 µin), depending on the pick-up type
Sampling lengths N	1 to 5 or 1 to Nmax in N x Lc mode, Nmax = maximum traversing length of the drive unit / set Lc
Filter types	GS / 2RC / SF ISO 13565-1 / profile inversion NEG, ARC- (other special filters optionally supported)
Cut-off wavelength Lc	Free Lc setting possible, max. 25 mm (1 in) Lc = f(Lt); 0.025 mm / 0.08 mm / 0.25 mm / 0.8 mm / 2.5 mm / 8 mm (.001 in / .003 in / .01 in / .031 in / .1 in / .315 in) and short Lc, and default value acc. to ISO 4288; cut-offs depend on Lt and dx
Ls filter	Free input from 1.5 µm to 100 µm (30 µin to 4,000 µin) or select from: None / 2.5 µm / 8 µm / 25 µm (100 µin / 320 µin / 1,000 µin)
Drive units	PZK, PGK, PGK 120, PRK* (via PAV 62 adapter)
Traversing length Lt	Free traversing length input from 0.2 mm to 300 mm (.008 in to 12 in) or Lt=N*Lc or Lt="Measure till STOP" can be selected, maximum length depends on the drive unit
Contacting	Motor-driven with PGK and PGK 120 and skidless pick-up system or manual
Traverse / Return Travel	Can be toggled on / off for measurements with static pick-up or series / follow-on measurements
Pick-ups	MFV, R, FRW pick-ups, optical pick-ups Focodyn, LS 1, LS 10, depending on the drive unit
Measuring stands	Controllable via PAV-CV adapter, types PST-SE and PST-VE or new measuring stand generation

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