

# MarSurf



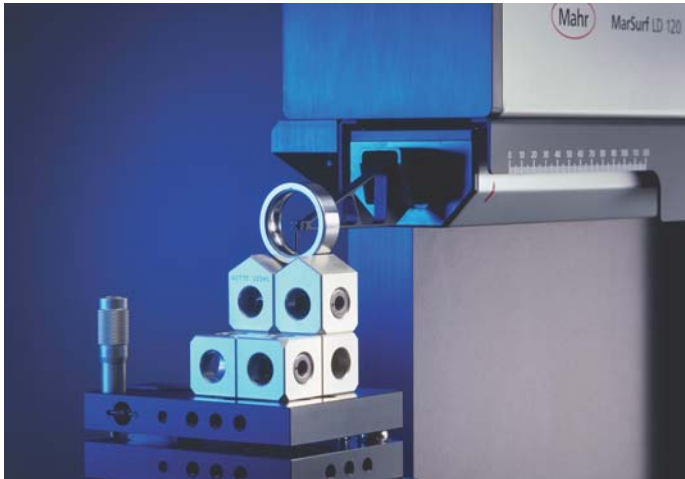
**MarSurf LD 120. Two in one**  
**Your high-precision contour **and** surface measuring system**

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**Mahr**

EXACTLY

# MarSurf LD 120. **Two in one**



- **Roughness and contour in a single stroke**  
You need only half the time and your work is faster, more reliable and more efficient.  
With just one measurement, you have all the results for roughness and contour characteristics at a glance. So you have more time for other things!
- **State-of-the-art laser technology for small tolerances**  
The integrated special laser interferometer provides pinpoint accuracy over a broad measuring range and at maximum resolution. You can process jobs with low tolerances and thus tackle new challenges head-on.
- **Innovative tracing arm concept for maximum stability**  
The tracing arms, which have been designed using bridge-building techniques, ensure maximum rigidity, low-oscillation measurements and unwavering precision. So you can build your own bridges - to new dimensions of flexibility!
- **Tracing arms with magnetic connection**  
The magnetic mount ensures excellent system protection and a long service life.

**Mahr's measuring technology is geared to the needs of your precision production methods!**

#### Technology in brief:

Measuring system	Special laser interferometer
Horizontal measuring axis	Glass scale
Traversing length	0.1 mm to 120 mm (.004 in to 4.724 in)
Tracing arm measuring range	10 mm (.394 in)
Resolution in z	8 nm (.315 $\mu$ in)
Ratio of measuring range to resolution	1.250.000 : 1
Standard stylus tip	LD A14-10-2, diamond 2 $\mu$ m (78.74 $\mu$ in), 90°
Measuring point distance in x	0.25 $\mu$ m (9.84 $\mu$ in)
Contacting force	0.5 mN to 50 mN, adjustable via software
Measuring speed in X-direction	0.1 mm/s to 2.0 mm/s in 0.1 mm steps (.004 in/s to .079 in/s in .004 in steps)
Return travel and positioning speed in X-direction	4 mm/s (.157 in/s)
Positioning speed in Z-direction	0.1 mm/s to 1 mm/s (.004 in/s to .039 in/s), adjustable
Contacting speed in Z-direction	0.1 mm/s to 1 mm/s (.004 in/s to .039 in/s), adjustable

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