

SURFACER

surface roughness probe

Automated surface
roughness analysis



Combine surface roughness analysis with CMM measurement

Traditionally, surface roughness analysis relies on hand-held instruments or requires the part moving to a specialist instrument. SURFACER SRP transforms this process by integrating surface roughness analysis into your CMM measurement, allowing you to seamlessly switch between touch probe and surface roughness probe in a single setup.

Contact us now to book your demonstration

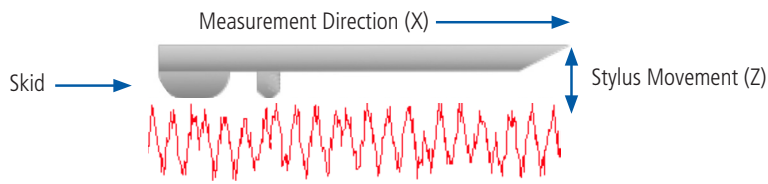
www.LKmetrology.com

Enhance the capability of your CMM with automated surface roughness analysis

SURFACER SRP is a plug-and-play surface roughness probe designed for any CMM with a compatible industry-standard probe head, and requires no additional third-party hardware or software. The probe is powered through the CMM probe head autojoint, while a Bluetooth® adapter enables wireless communication with the CMM computer. The SRP mounting is fully compatible with probe heads and change racks that support the Renishaw autojoint for automated changing.

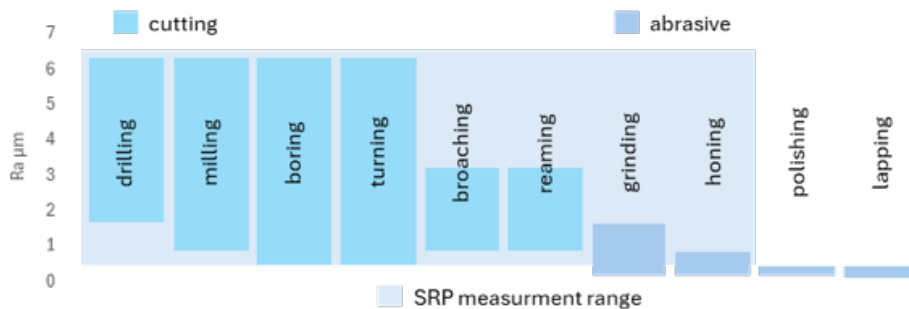
SKIDDED MEASUREMENT

SRP features a probe body with interchangeable skidded stainless-steel probe modules.



During measurement, the skid guides the stylus across the surface, acting as a straight line datum and ensuring the probe remains stable. The stylus moves independently of the skid, with surface deviations recorded as the difference between the stylus and the skid movement in a Z direction. An integrated preload mechanism isolates the stylus from any CMM movement during measurement, ensuring accurate and consistent results.

INDICATIVE SURFACE ROUGHNESS VALUES



PROBES MODULES

STANDARD PROBE



For flat, conical and cylindrical surfaces. Minimum hole diameter 5 mm and maximum depth 22 mm.

CURVED SURFACE PROBE



For concave, convex and spherical surfaces with a curvature greater than 6 mm radius.

DEEP GROOVE PROBE



For grooves greater than 3 mm wide and less than 10 mm deep, or steps less than 10 mm high.

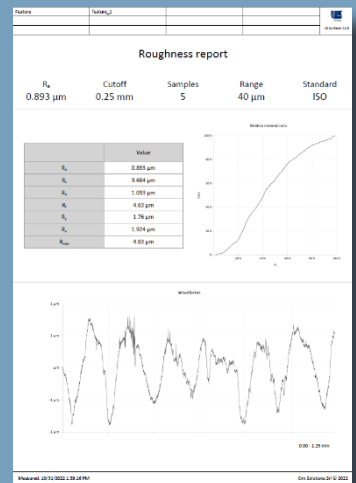
SPECIFICATIONS

MEASUREMENT

Range	0.5 Ra to 6.5 Ra		
Section	1.3 mm to 12.5 mm		
Cut-offs	0.25 mm	0.8 mm	2.5 mm

OUTPUT

Parameters	Ra, Rq, Rt, Rseg, Rp, Rv, RzDIN, RzJIS, R3z, Rpm, Rvm, Rc, Rsm		
Standards	ISO, DIN, JIS, ANSI		
Filters	Gaussian		



Sample surface roughness report



Compatible with indexing probe heads



Compatible with automated change racks



Calibration artifact rack or table mounted