

HOMMEL-ETAMIC surfscan All good things come in twos.

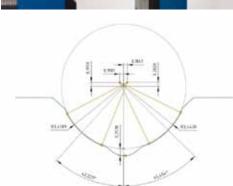
Want to measure roughness at high resolution?

And capture contours over a high measuring range at the same time?

The new roughness and contour measurement rolled into one.







C surfscan

Roughness and contour measurement rolled into one

- Consistently high resolution over the entire measuring range using a high-resolution digital scale
- Also possible to measure surface roughness on curved and sloped surfaces
- Time-consuming alignment of the reference plane is no longer necessary when measuring roughness
- With a vertical measuring range of 6/12 mm (depending on probe arm length), a variety of contour measuring tasks can be performed simultaneously

Electronic probe arm detection

Thanks to the "chip in the arm" technology, probe arms are detected automatically and the correct measuring parameters (e.g. calibration, measurement force) are set automatically. Precision probe arm positioning allows automatic measurement runs to be performed even on small parts and in small bore holes.

Magnetic probe arm coupling and expandability

Probe arms can be replaced quickly and easily thanks to the magnetic coupling. The measuring station can also be combined with other probing systems to offer a flexible range of applications, such as expanding the contour measuring range or applications for specific roughness measuring tasks.

Automatic measurement runs

Modular axes allow automated measurement runs, such as Y axis for automatic zenith searching or surface topography measurement, to be performed.

Combined evaluation of roughness and contour

The EVOVIS software permits an integrated analysis of roughness and contour characteristics in a customizable measurement log.

Technical data probing system

Digital probing system

Measuring range Resolution Measurement force Probing direction Stylus tip protection Stylus tip positioning accuracy in Z

Probe arm

Probe arm length (standard) Stylus tip

Probe arm holder Probe arm detection

Traverse unit

Measuring range (traverse length) Resolution Measurement speed

Positioning speed Straightness guide

6 mm (12 mm with double-length probe arm) 6 nm (12nm with double-length probe arm) ± 1 mN to 50 mN, programmable single-sided, downward lowering speed is electronically limited

±25 µm

diamond tip 2 um/60°: ruby ball Ø 1 mm

magnetic with collision protection electronic, RFID

120 mm 0.1um to 10.um 0.1-3 mm/sec max. 3 mm/sec ≤0.4 µm / 120 mm

Measuring column

Vertical travel

Tracing speed

Repetitive accuracy of positioning

Measuring station

Granite plate (L x W x H)

Damping

wavelift 400: 400 mm wavelift 800: 800 mm wavelift 400: 0.1 - 12 mm/sec wavelift 800: 0.1 - 50 mm/sec ≤10 um

780 x 500 x 100 mm or 1000 x 500 x 140 mm in GTR4/GTR5 instrument table or table top via optional damping set



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