



HOMMEL nanoscan 855

The new standard in combined roughness and contour measurement

Precision

Absolute precision in surface measurements with a resolution of 0.6 nm at 24 mm measurement stroke

Intelligent probe arm

Avoidance of measuring errors by electronic identification of the probe arm. This rules out operating and measuring errors

Electronic probe arm protection

Avoidance of probe tip damage by electronic protective device reduces the running costs and guarantees the measuring accuracy

Measuring force in up and down direction

Pick-ups with twin tips enable to measure roughness and contour in ordinary location as well as over head measurements without pick-up exchange. Applications can be solved more flexible through this technique

Automatic measurement runs

CNC-capable axes allow fully automatic measurement runs in the shortest time and guarantee reproducible measurement results

Direct user control

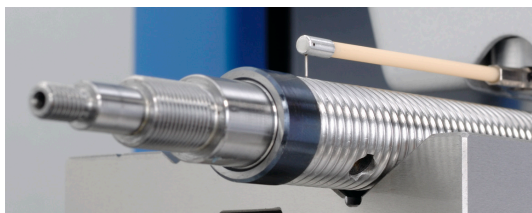
Measurement tasks can be set up and performed directly on the operator panel

Optimum measuring station

Active vibration damping, high-precision traverse unit and stable measuring column guarantee optimum measurement results



Precision is our business.



Technical data HOMMEL nanoscan 855

Scanning system

Measuring range	24 mm
Resolution	0,6 nm
Measurement force	±1 mN bis 50 mN, programmable
Probing direction	Z+ / Z- , programmable
Probe tip protection	electronic limiting of the lowering speed
Positioning accuracy probe tip in Z	±10 µm

Probe arm

Probe arm length (standard)	90 mm
Probe tip	2 µm / 60°
Probe arm holder	magnetic with collision protection
Probe arm detector	electronic

Traverse unit

Measuring range (traverse length)	200 mm
Resolution	10 nm bis 10 µm
Measurement speed	0,01 – 6 mm/sec
Positioning speed	max. 12 mm/sec
Straightness guidance	≤ 0,4 µm / 200 mm

Measuring column

Travel	550 mm
Straightness	0,5 µm / 100 mm
Traversing speed	0,1 – 50 mm/sec
Repetitive positioning accuracy	≤ 10 µm

Measuring station

Granite plate	850x600x140 mm
Damping	active damping with level adjustment
Measuring station	1190x780 mm
Computer table	810x780 mm
Cabin	optional



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