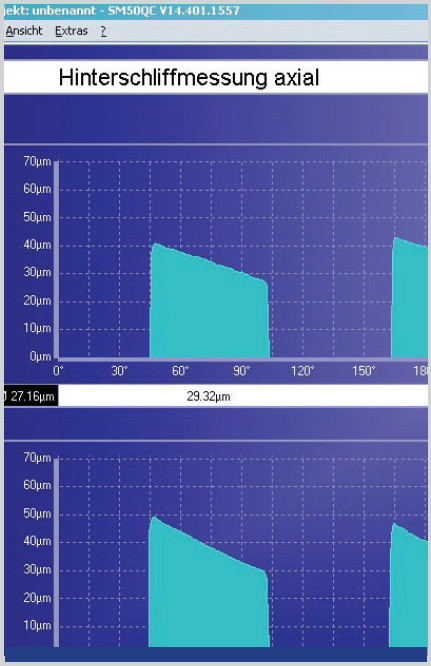
SM



TECHNICAL DATA:

Workpiece diameter Clamping	M3 – M80	
length max. Measurement	30 – 300	mm
length max. Measuring probe	50	mm
axial range Measuring probe	+/-2	mm
radial range	4	mm

MEASUREMENTS (Standard):

Relief on the flanks:
(thread-cutting taps)

Relief at the outer diameter:
(cutting taps)

Relief at the chamfer:
(cutting taps)

(technical changes reserved)

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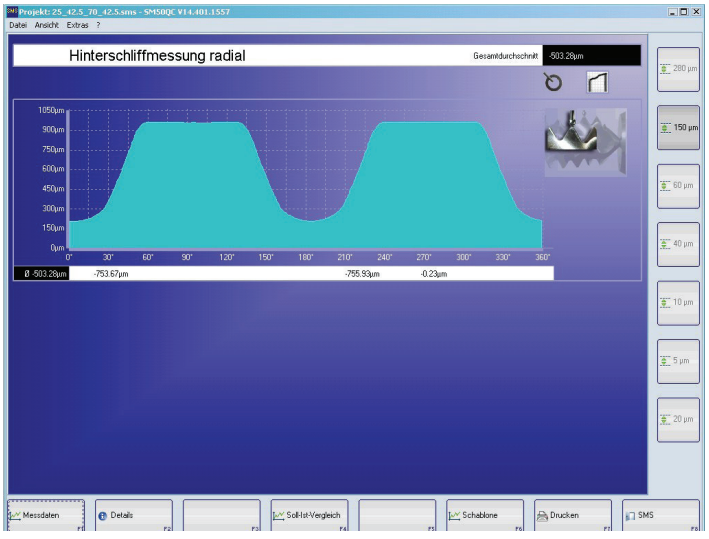
PRODUCT INFORMATION

The type **SM50** CNC measuring machine guarantees geometric inspection of the grinding quality of cutting taps and forming taps at the highest level. The machine is also equipped to provide a graphical illustration and numerical analysis of the relief on thread-cutting taps. The machine can also carry out measurements of free forms such as polygons.

The guides as well as the tailstock are mounted on a plate of hard granite stone. The measuring probe (TESA), which can be turned by 90°, allows radial and axial measurements to be taken without time-consuming retooling.
The use of the latest technology results in a CNC measuring machine that combines high precision with exceptional ease of use. In most cases, workpieces can be mounted using the familiar components of the thread grinding machines; setup times are therefore extremely short.
The machine is equipped with the latest drive and control technology (digital servo drives: Siemens, precision length measurement systems: Heidenhain). Thanks to the workpiece-specific user interface by SMS (HMI), the CNC control system (Siemens 840D sl) can easily be programmed by the operator in the dialogue system.

The user interface (HMI) is specially designed for our thread-cutting and grinding machines and guides the user step by step from data input to the resulting measuring protocol.

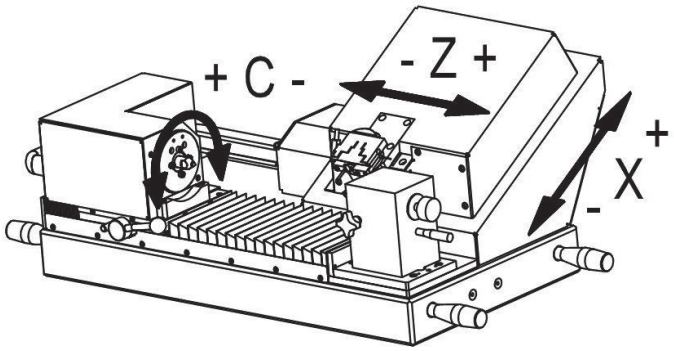


Available options:

- Special measuring operations (measurement of polygon forms and pitch on the forming taps)
- Additional options available on request

The machine is equipped with 3 CNC axes:

Measuring probe slide radial	(X-axis)
Measuring probe slide axial	(Z-axis)
Workpiece drive	(C-axis)



Screenshot: measurement pitch

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TÜVRheinland ZERTIFIZIERT
Management System ISO 9001:2015
www.tuv.com ID 9105018516

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