



3D.aero

Empowering Precision
Elevating Automation

HP-SX

ToolInspect

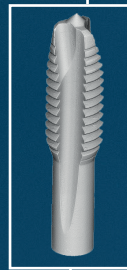
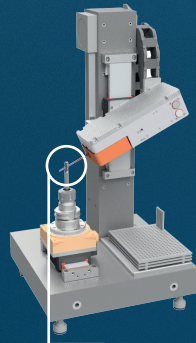
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HP-SX – ToolInspect

Our HP-SX ToolInspect solution is an optical, high-precision measuring system based on White-Light Interferometry for digitizing machining tools to μm accuracy. The HP-SX solution offers the possibility to record 3D measurements on any surface for detailed detection of manufacturing deviations or quality control in production. Geometry changes, chipping in the material, wear and other individual parameters of the tool are identified based on the precise 3D digital twin. Thus, we solve the previously existing problem of the lack of information in the production of such a precision tool and therefore ensure the highest quality and efficiency within the process.

CHARACTERISTICS

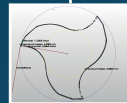
- Accuracy < $1\mu\text{m}$
- Stationary precision measurements with optional automated loading
- Intuitive digital 3D result visualization
- Extensive digitization, diagnostics and documentation functionality
- Customer individual result reporting



3D result visualization



Top view



Measurement results in software



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