



On top of things

ZEISS O-DETECT with ZEISS INSPECT



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A ZEISS O-DETECT measuring machine, featuring a vertical column with a ZEISS logo, a horizontal bridge with a stylus probe, and a control unit with joysticks and a keypad.

Multitasking made easy

The combination of optical and tactile measurement makes ZEISS O-DETECT with ZEISS INSPECT a real multitasker for a wide range of measurement tasks in various industries.

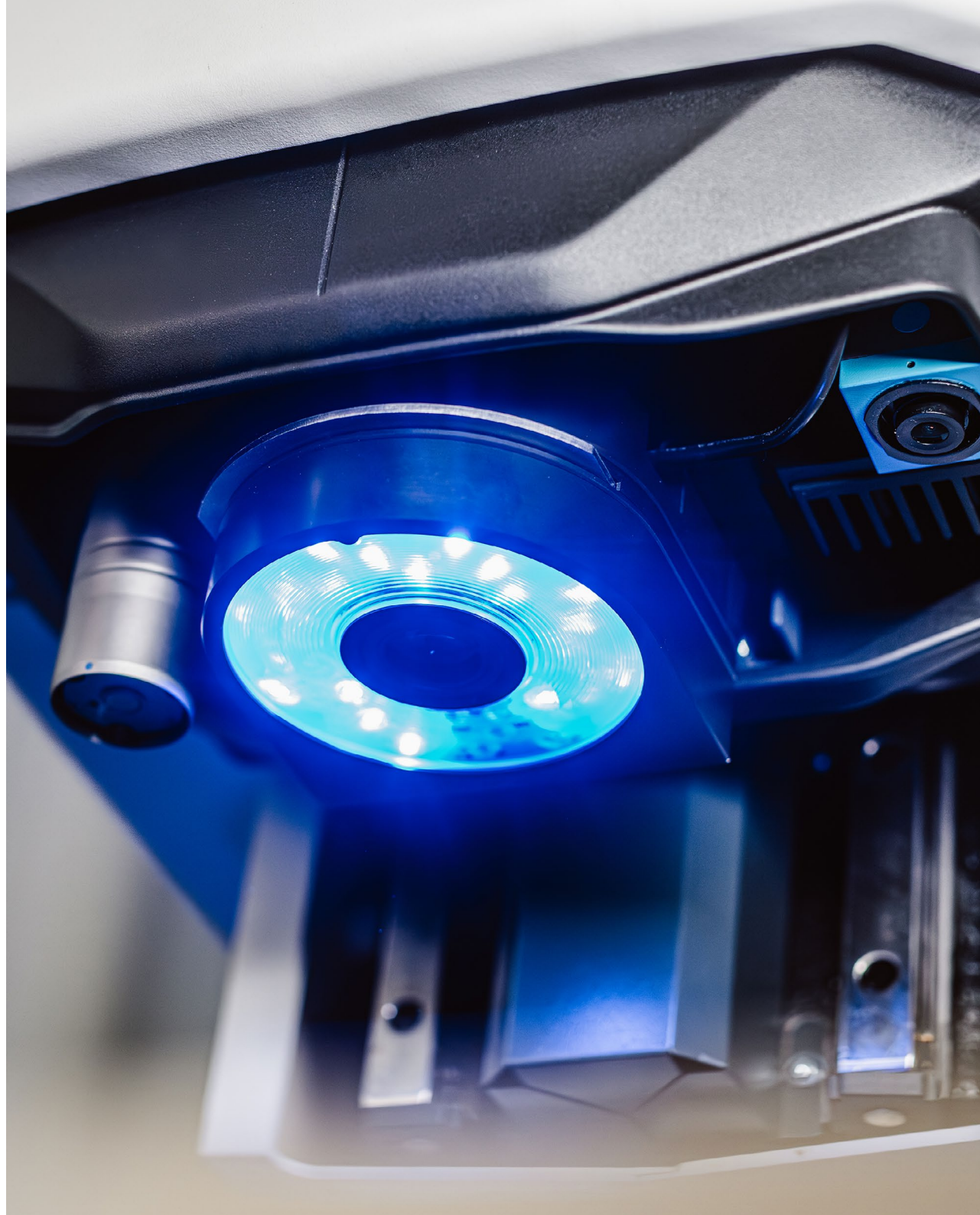
The visual measuring machine is designed for optimum quality assurance through high-quality images. Easily expand optical inspection to include tactile measuring with the stylus systems available for ZEISS O-DETECT.



**Excellent optics
for excellent
inspections**

Two cameras that see it all

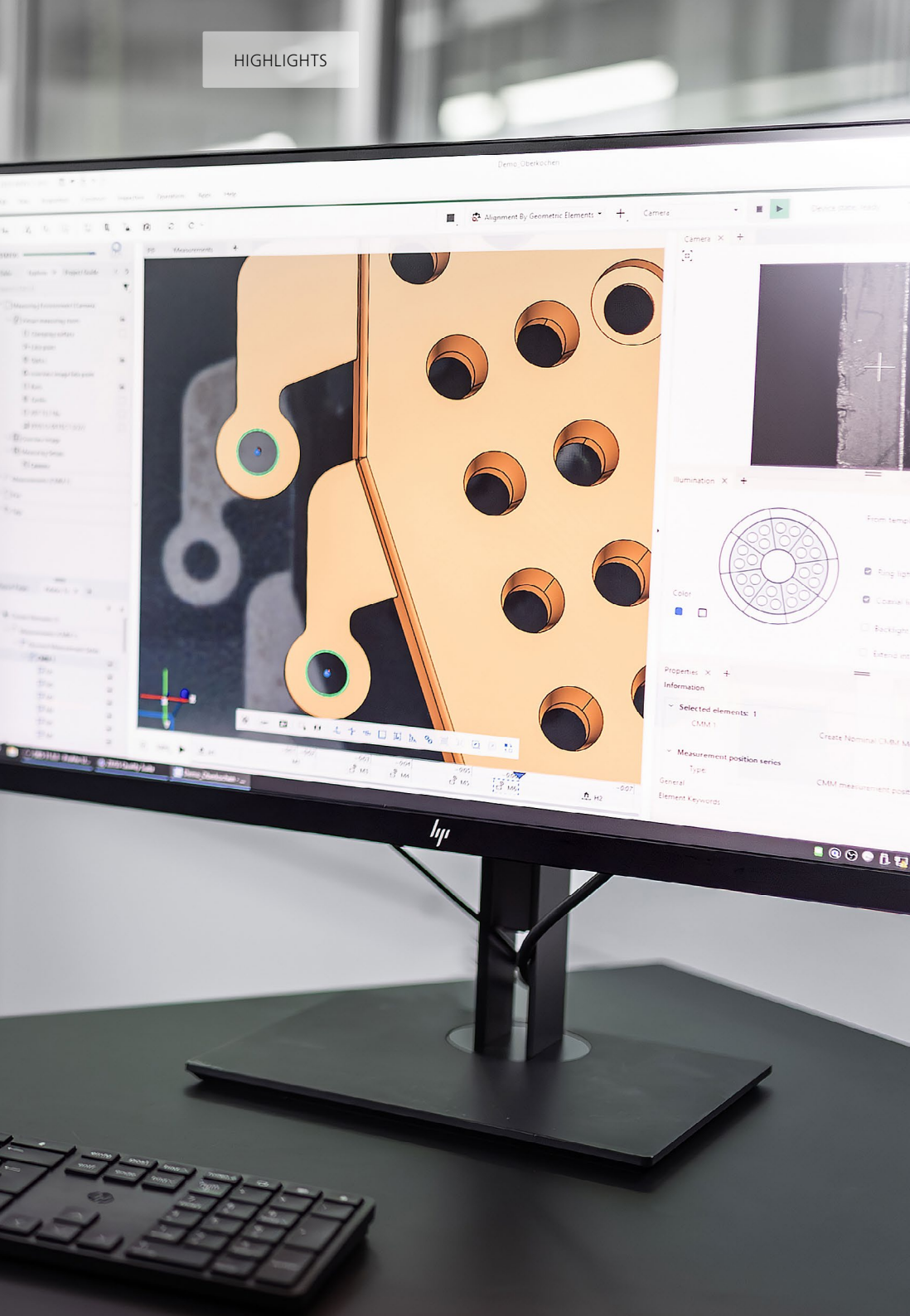
This solution is equipped with two cameras to keep an overview at all times. An integrated overview color camera locates the part more quickly to start measuring. The excellent ZEISS optics of the measurement camera and ZEISS Digital Zoom provide a large field of view with high resolution – for greater efficiency and the capture of more details. Together with ZEISS image processing technology, it transforms images into precise measurement results.



No extensive preparation needed

With ZEISS O-DETECT and ZEISS INSPECT, your parts can be inspected right from the start. Hardly any preparation is needed before the measurement. Just secure the object in your fixture, place it onto the glass and start inspection. No compromise on accuracy and a quick start of the evaluation.

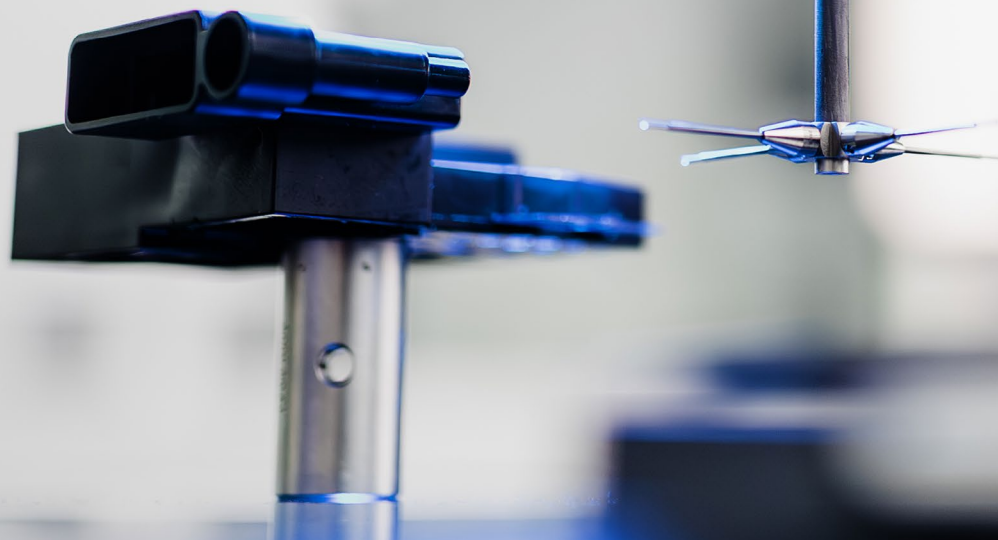




Powered by ZEISS INSPECT for intuitive use

ZEISS O-DETECT operates with ZEISS INSPECT. The all-in-one, user-centered software solution is the established standard in 3D metrology. Benefit from intuitive functions, such as collision free path planning, automatic selection of measuring strategies and a Virtual Measuring Room (VMR) as your central control and measurement planning element.

Combining optical and tactile inspections



Lights that make a difference

With its different illumination options, this solution adapts seamlessly to your inspection tasks. Depending on your part surface, different lights illuminate your part from the top. Shiny or reflective parts can also be measured in this way using the diffuse light source. Want to check the contours of an object? The back light from the bottom enhances the edge quality for even more precise optical inspection.



Styli for measuring on the spot

Sometimes optical measurement isn't enough. For hard-to-reach areas of interest, ZEISS O-DETECT with ZEISS INSPECT offers an easy extension to tactile measurement. The passive stylus system ZEISS XDT is made for precise tactile measurements due to the stable probing behavior during part inspection.



Guided part programming

To ensure accurate measuring results, part programming is the way to go. Let the software ZEISS INSPECT guide you through the programming of your part. Your benefit: fast and repeatable measuring plans for series inspection with the highest data quality.

High-precision measurement results

Never doubt your results again with ZEISS O-DETECT with ZEISS INSPECT. Calibrated to MPE EU(3D) in accordance with ISO 10360, it delivers reliable and comparable 2D and 3D data.

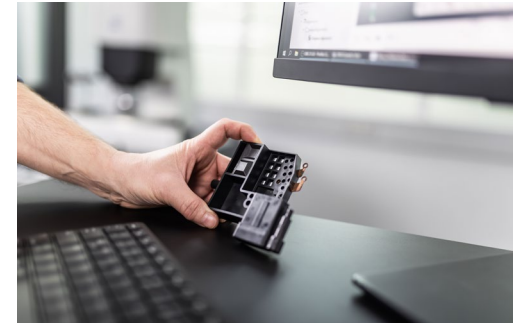


Limitless use cases

O-DETECT with ZEISS INSPECT is your choice when inspecting small and flat parts as well as bright or dark surfaces. With its intelligent illumination concept and the option of tactile measurement, it is suitable for a wide range of applications and industries.



A wide range of applications



Industries

Medical/Pharmaceutical

Electronics

Plastics industry

Automotive

Steel manufacturing

Aerospace

Processes

Stamping & Cutting

Casting & Milling

Etching

Extruding & Sintering

Materials

Metals

Ceramics

Plastics & rubber

Glass

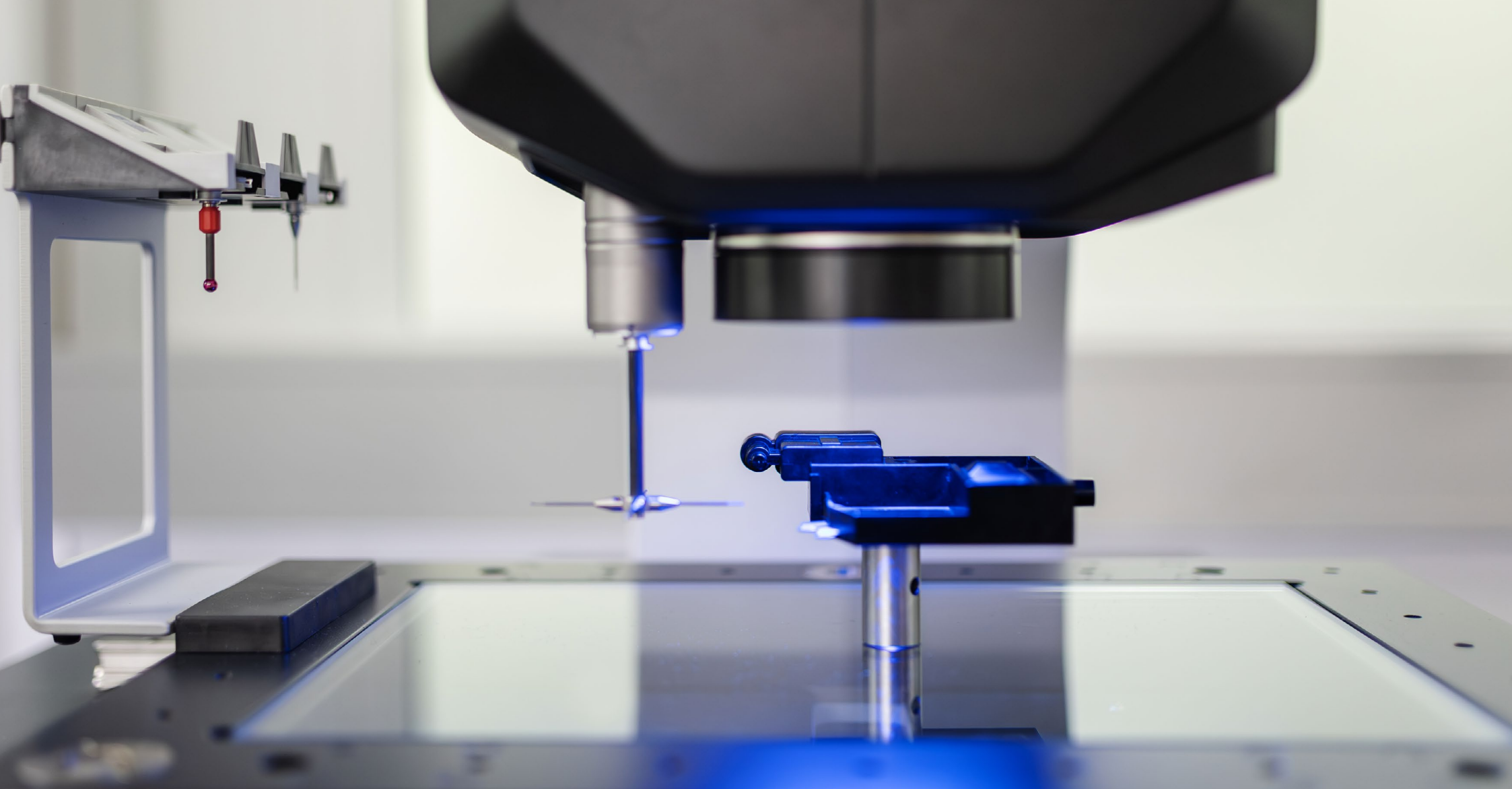
Composites



Technical data

ZEISS O-DETECT with ZEISS INSPECT	O-DETECT 3/2/2	O-DETECT 5/4/3
Measuring volume	300 x 200 x 200 mm ³	500 x 400 x 300 mm ³
Field of view	8.4 x 7.0 mm ²	
Length measurement error MPE (EU)	in 2D: 1.9 µm + L/150 µm in 3D: 2.4 µm + L/150 µm	
Camera	ZEISS INVENTA D1	
Tactile sensor	ZEISS XDT	
Software	ZEISS INSPECT	





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