

Press Release - For Immediate Release

MakerVerse and ZEISS Showcase Industrial AM Quality Assurance Options at Formnext

Frankfurt, Germany – Nov. 16, 2022 - MakerVerse and ZEISS showcased at Formnext the wide range of dimensional, surface, and material property-related inspection reports available to users on the MakerVerse platform. With these options, MakerVerse, the additive manufacturing platform for sourcing parts, brings Zeiss' world-leading metrology technology to industrial makers.

"We know how important quality is for our customers in need of additive manufacturing parts. That's why we're thrilled to share this offering," said Dr. Markus Seibold, CEO of MakerVerse. "Integrating ZEISS Quality Excellence Centers to our manufacturing partner network is the perfect solution for our customers needing industrial-grade quality inspections and reports for their AM parts."

On the MakerVerse platforms, users receive an instant quote after uploading their design and choosing the needed additive manufacturing technology, material, and finish. Users can then select the options provided by ZEISS.

Options include:

1. **Optical 3D Scan:** Non-contact measurements by using structured blue light, delivering three-dimensional measuring data quickly and precisely. Users receive a comparison of the dimensional properties and a digital twin of the physical part
2. **Tactile CMM:** Users gain a precise measurement of dimensional part properties using a coordinate measurement machine (CMM) according to ISO 17025. This option is ideal for measuring several points with ultra-high precision. Users receive a report with the dimensional position of five points to compare with each other and the original design file.
3. **Surface Roughness:** A sensitive stylus measures the roughness of a portion of the part's surface – which is then extrapolated for the entire surface. Users receive a report with the heights and valleys profile of a path of up to 50mm on one surface. Precision is better than 0.3 micrometers. Users also receive the computed Rz and Ra values per DIN ISO 4287.
4. **Industrial CT- and X-Ray Solutions:** The external and internal component properties are measured using a computed tomography system, checking the part for any potential pores, defects, errors, voids, or inclusions. Users receive the complete 3D tomographic data for inspection, three pass-through videos, and an expert report highlighting any abnormalities.

These inspections are optional, but MakerVerse includes additional quality checks with every order. Manufacturing application engineers inspect each part, taking basic dimensional measurements and determining if any issues with the final print need to be remedied.

Website

www.makerverse.ai

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About MakerVerse

MakerVerse is the additive manufacturing platform for sourcing industrial-grade parts on demand. The multi-sided platform connects industrial makers with a distributed network of certified producers. MakerVerse is an independent legal entity and joint venture initiative between Siemens Energy, ZEISS, and financial/venture capital investors, including 9.5 ventures. The new company combines cutting-edge industry expertise with profound knowledge of digital venture-building. The start-up was founded in 2022 and is headquartered in Berlin, Germany. For more information, please visit www.makerverse.ai.

About ZEISS

ZEISS is an internationally leading technology enterprise operating in the fields of optics and optoelectronics. In the previous fiscal year, the ZEISS Group generated annual revenue totaling 7.5 billion euros in its four segments Semiconductor Manufacturing Technology, Industrial Quality & Research, Medical Technology and Consumer Markets (status: 30 September 2021).

For its customers, ZEISS develops, produces and distributes highly innovative solutions for industrial metrology and quality assurance, microscopy solutions for the life sciences and materials research, and medical technology solutions for diagnostics and treatment in ophthalmology and microsurgery. The name ZEISS is also synonymous with the world's leading lithography optics, which are used by the chip industry to manufacture semiconductor components. There is global demand for trendsetting ZEISS brand products such as eyeglass lenses, camera lenses and binoculars.

ZEISS Industrial Quality Solutions

ZEISS Industrial Quality Solutions is a leading manufacturer of multidimensional metrology solutions. These include coordinate measuring machines, optical and multisensor systems, microscopy systems for industrial quality assurance as well as metrology software for the automotive, aircraft, mechanical engineering, plastics and medical technology industries. Innovative technologies such as 3D X-ray metrology for quality inspection round off the portfolio. In addition, ZEISS Industrial Quality Solutions offers a broad global spectrum of customer services with ZEISS Quality Excellence Centers close to its customers. The company is headquartered in Oberkochen. Production and development sites outside Germany are located in Minneapolis in the USA, Shanghai (China) and Bangalore (India). ZEISS Industrial Quality Solutions is part of the Industrial Quality & Research segment.

<https://www.zeiss.com/metrology/home.html>