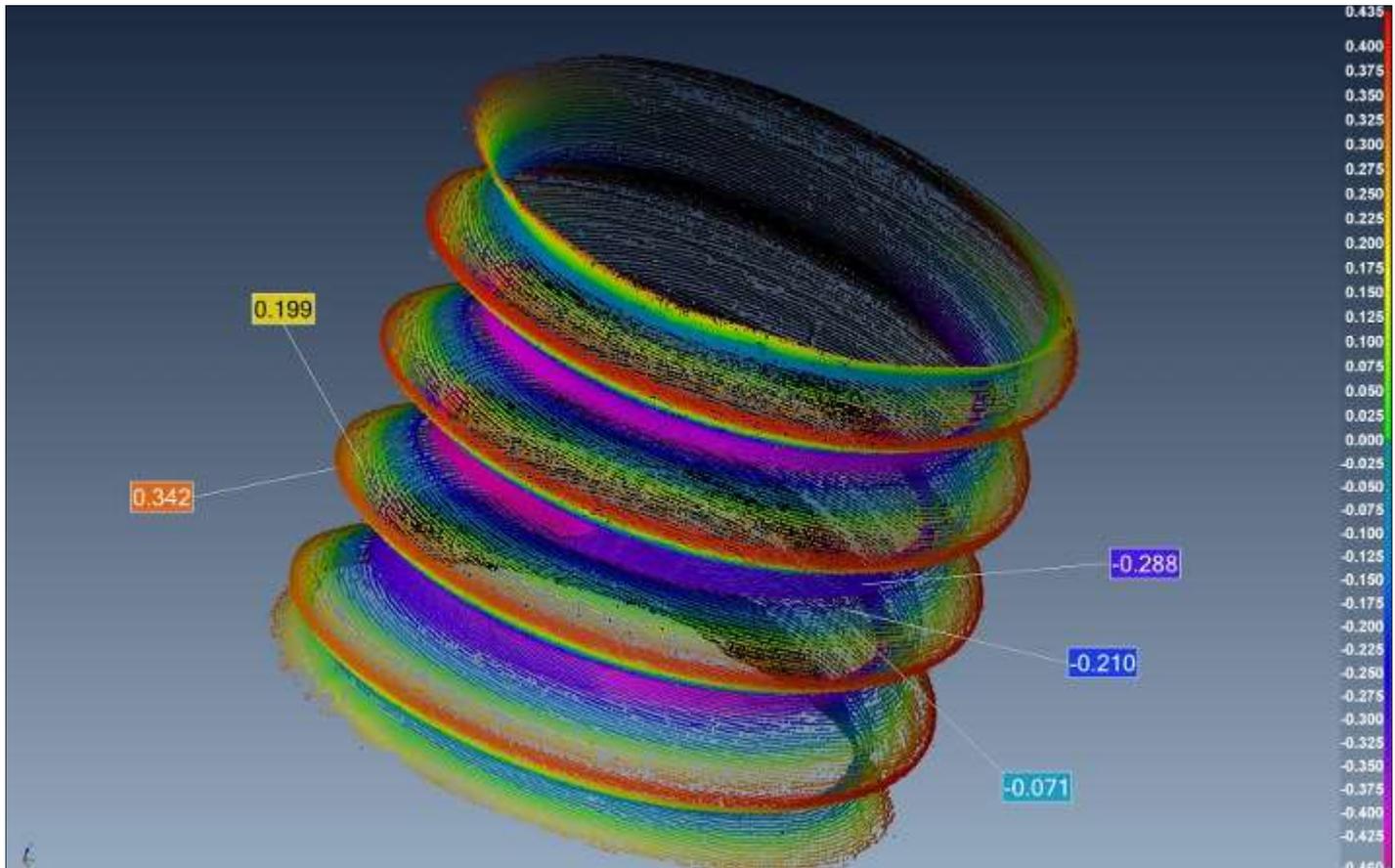


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DIMENSIONING MEASUREMENT TECHNOLOGY



Optical Sensors

Small Bore Probing System Generates 100,000 Points per Second

August 28, 2018

Novacam Technologies, a developer and supplier of non-contact 3D metrology systems for industrial and scientific applications across high-precision sectors, has announced an increase in the maximum scanning speed of its Microcam-4D systems from 30,000 to 100,000 3D points per second.

The company states it is revolutionizing the 3D metrology market with its robust and versatile fiber-based systems that measure hard-to-reach spaces such as interiors of tubes and bores and that acquire high-aspect-ratio features such as steps, undercuts, grooves, splines, or threads. Novacam systems are based on

low-coherence interferometry (LCI) and are capable of measuring dimensions (GD&T), as well as roughness, defects, and/or thickness with micron precision. *(The above image represents the point cloud generated from internal scanning of a 1/4" nut with Novacam TubeInspect)*



“The boost in acquisition speed responds to increasing demand for faster and denser surface scans, such as for measurement of dimensions, roughness, and defects on all kinds of surfaces – automotive valves and couplings, threaded orthopedic implants, jet engine turbine blisks, electronic industry CMP pads, precision-machined cutting tools, barrels, and so on,” said Vuk Bartulovic, President of Novacam.

“These are not photos our systems are capturing and interpreting – rather they are very dense point clouds of 3D measurements that provide precise and timely surface-mapping information to manufacturers. Unlike CMMs”, continued Vuk Bartulovic, *“Novacam systems with their small-diameter fiber-based probes are easily integrated in automated inspection stations right on high-volume production lines. They enable 100% inspection of manufactured components.”*

The 100 kHz speed applies to all Novacam non-contact 3D metrology systems, including TubeInspect, BoreInspect, SurfaceInspect, and EdgeInspect. A 100 kHz system will be on demonstration at IMTS 2018 (September 10-15) in Novacam’s booth #135855.

For more information: www.novacam.com

Author: [Keith Mills Publishing Editor](#)