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## **A tiny scanner with great capabilities – a premiere of eviXscan 3D FinePrecision scanner**

Bielsko-Biała, Poland, 10<sup>th</sup> March 2021 – **Evatronix launches eviXscan 3D FinePrecision scanner. The measuring device is distinguished by high precision measurement and high level of detail of the scanned surface.**

eviXscan 3D FinePrecision is an optical measuring device operating with blue LED light source. The scanner equipped with two fast 8.9 Mpix cameras of the latest generation with CMOS matrices is characterized by high accuracy of reproduction of even the smallest elements of precision mechanics. FinePrecision technology enables to achieve an accurate measurement of the dimensions of the scanned object (accuracy better than 6 µm, repeatability less than 3 µm). The detail of the scans obtained results from high density of recorded points (more than 1200 points per square millimeter of the scanned surface). A single scan can collect measurement data from a volume of 120 mm x 60 mm x 45 mm.

The advantage of the eviXscan 3D FinePrecision scanner is the short scanning time. The combination of high-speed cameras and the modern DLP light projection system, whose signal triggers the cameras every time a new pattern is displayed, reduces the scan acquisition time to several hundred milliseconds.

FinePrecision scans with high level of detail which is crucial when measuring elements of precision mechanics (micro rotors, small plastic elements made by injection molding, objects manufactured on CNC machines or by 3D printing). The scanner allows also precise 3D scanning of sharp-edged tools or components. FinePrecision can also be used in the scanning of implants, in prosthetics as well as in jewelry manufacturing and watchmaking industry. Its precision enables its use in the optimization of the 3D printing process.

*– Based on experience with our Heavy Duty scanners and discussions with our customers indicating areas where precise measurement and very detailed surface mapping was needed, we defined the requirements for a scanner that is a solution for these unfulfilled needs – said **Kamil Góra, Product Manager of 3D Scanners in Evatronix.** – According to these requirements our R&D department developed a product ready to meet everyday challenges of metrology labs with measurement of fine mechanics objects. Using cameras and projector optimized specifically for our scanner, allowed us to offer a product adjusted to the needs of its future users, really a scanner "from engineers for engineers".*

eviXscan 3D FinePrecision can also be used in the field of predictive maintenance. The identification of microdamage to key components of production equipment (e.g. turbine blades) helps to prevent potential failures, which in turn reduces costs of downtimes.

Fine Precision scanner is available for demonstration and ordering now with first deliveries planned for the second half of March 2021.

### **About Evatronix**

Evatronix SA offers services in the field of design of electronic and mechatronic devices with accompanying software. The most common applications are *Internet of Things* types of systems. In cooperation with proven subcontractors in the value chain, the company also realizes prototype series, pilot and low-volume production of designed devices. Evatronix SA is also a manufacturer of 3D scanners commercialized under the eviXscan 3D brand. Based on the 3D scanning technology Evatronix designs and implements automatic quality control systems.

On the Polish market Evatronix also acts as a supplier of printed circuit boards and *Pulsonix* software for designing printed circuit boards. The local government appreciated the company's innovativeness and global reach: in 2019 it received the prestigious Company of the Year award of the City of Bielsko-Biała.