

Avances en tecnología de escaneo 3D

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Metrology is the science of measurement, and it includes all theoretical and practical aspects of measurement. Enterprise metrology sensors and software collect, analyze and present measurement data to automatically alert operators of anomalies which might occur during the manufacturing process.

[Perceptron says their Autoscan](#) is a series of next generation, industrial metrology products that offer automated 3D scanning and dimensional measurement to the shop-floor. The system uses collaborative robot technology and utilizes Perceptron's Helix Smart Scanning Sensor Technology to deliver fully-automated dimensional inspection.

Now with its Autoscan Collaborate-Gaget and Autoscan Collaborative-CMM metrology solutions, Perceptron uses its Helix smart sensor – and shop-hardened Vector analysis software – with Collaborative Robot technology.

The [Collaborative Robot](#) is designed to allow direct interaction with a production operator within a shared collaborative workspace. The robot and operator can perform tasks simultaneously during manufacturing operations, and this setup negates the requirement for the traditional robot safety fences.

The autoscan self-teach programming capability allows the robot to be programmed fast without the need for off-line software tools; each robot position being self-taught by manually dragging the robot to the next required component scan position. All robot moves are automatically written to the part inspection program, allowing subsequent parts to be inspected automatically. Autoscan captures a 3D digital representation of the part and reports complex form and surface deviations relative to the part's CAD model, together with discrete information for critical features such as holes, slots and studs.

Perception's patented [Helix smart scanning sensor](#) is already used extensively throughout the global automotive industry for in-process laser scanning of car bodies for dimensional stability and gap and flush measurement.

<http://3dprint.com/56254/perceptron-metrology-3d-scan/>

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