



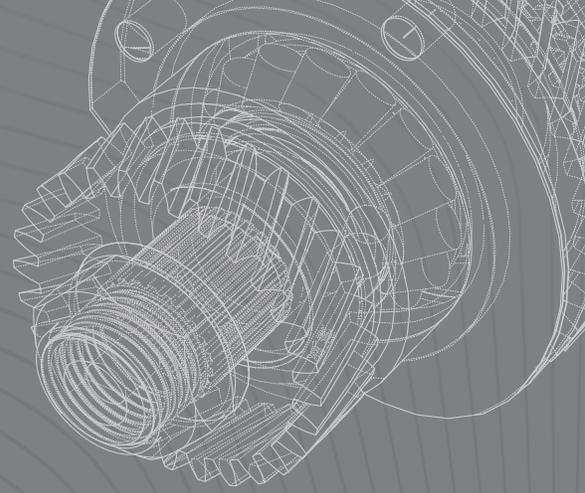
3D SCANNING FOR INCOMING INSPECTION

To ensure that incoming parts meet spec, some manufacturers perform incoming inspection. This is typically a sampling process, but in some cases can also be 100% inspection. A solid incoming inspection process reduces defects and costly manufacturing problems down the road.

Incoming inspection's popularity has varied throughout the years. In some industries it was eliminated completely, by placing the complete onus for incoming part quality on the suppliers, whereas in other industries it has remained a staple. Most manufacturers now recognize that part quality is a shared responsibility between the supplier and the buyer, and the two must work together to strike the right balance.

In many industries, incoming inspection is making a comeback thanks to the capabilities provided by automated 3D laser scanners such as those made by OGP® ShapeGrabber®.





Inspect Incoming Parts Quickly & Thoroughly

Using the right 3D scanner, inspectors can quickly determine whether a supplier's part meets its specifications, without having to do a complete part layout. An automated ShapeGrabber 3D laser scanner can capture millions of data points from even the most complex-shaped part within just minutes. The resulting point cloud can then be quickly compared directly to a 3D CAD model or to a known good part. This provides rapid validation of the supplier's quality control process.

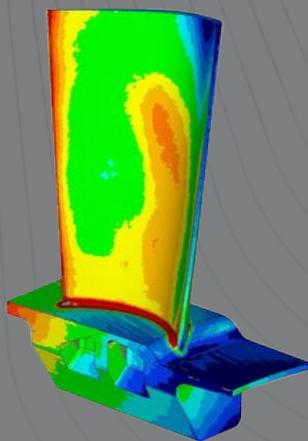
At the heart of every ShapeGrabber system is the laser scanhead which digitally captures the size and shape of objects using a line of laser light. These create high density point clouds of data from the surface of an object very quickly that is then used in combination with advanced software for dimensional measurement including GD&T.



ShapeGrabber 3D Scanner Benefits

ShapeGrabber's automated 3D laser scanner technology is well-proven and especially useful for incoming inspection because:

- It is fast. You don't need to rely on a few sample points collected with calipers or a slow CMM: capture millions of data points in minutes.
- It is easy. The visual nature of the results makes it possible to quickly validate incoming parts, without the need to do a complete spec-by-spec layout. This comparison can be automated, allowing operators to perform repetitive validation tasks with minimal involvement and training.
- It handles complex shapes. Curves and multiple features aren't a problem.



Learn more about OGP Measurement Systems at ogpnet.com

OGP (Optical Gaging Products) is a division of Quality Vision International Inc (QVI®), a world leading manufacturer of precision multisensor metrology systems for industrial Quality Control. Our metrology systems focus on measurement technologies that help manufacturers monitor dimensional compliance to design specifications. First introduced in 1992, the famous OGP SmartScope® product family has become one of the world's most popular and versatile dimensional measurement systems. SmartScope systems are designed and produced at QVI corporate headquarters in Rochester, NY, USA. Flash branded systems are sold in North America while Flash CNC and CNC systems are found outside North America.



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