

# SPATIAL POSITIONING SYSTEM

Breakthrough Technology  
for Assembly Processes



## VERIFICATION MODULE

Part Verification is an Iris embedded licenced module that:

- Automates quality assurance with laser-assisted verification of part placement
- Allows for 100% verification while reducing process time
- Provides real-time feedback during the assembly process
- Exposes mistakes before they become expensive to fix
- Generates *Virtek Verified Reports* that provide clear "pass/fail" details to:
  - Store for your records
  - Share with your customer

Iris Part Verification moves instantaneous validation to the production area saving time and money by integrating verification directly into the build process. Time that used to be spent manually checking parts is saved with a laser-guided verification system that references Engineering tolerances and provides immediate and clear quality feedback to the assembler. *Virtek Verified Reports* can be emailed to your customers as proof of the high quality product you produce!

### ABOUT IRIS SPS

The IRIS Spatial Positioning System combines the laser projection technology with 3D vision technology to locate a part in 3D space then quickly locks onto its CAD-specified assembly position. IRIS guides the user through the entire welded assembly process by projecting a laser outline of each component part.



**VIRTEK**  
A Gerber Technology Company

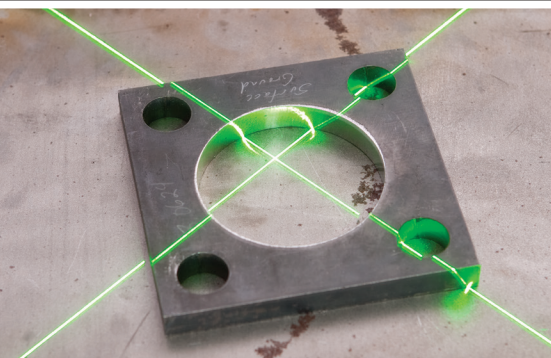
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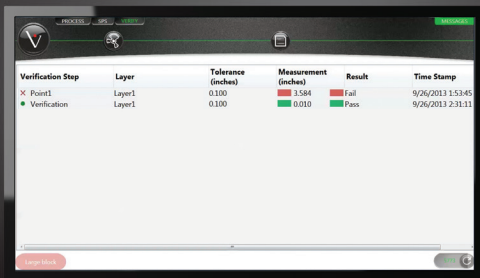
## CHECKS

Individual part placement is precise, accurate – for improved quality control for work in progress



## VERIFIES

Component location during the assembly process – preventing mistakes before they become expensive



## REPORTS

Track historical quality data for internal and external use

## BENEFITS

### Features

Automation of part verification into production workflow

Probe measurement

Real-time assembly feedback:

- Colour coded & Icon feedback
- Projected "X" to indicate failure location
- Process control

Supervisor View

Virtek Verified Reports



### Benefits

- Eliminates post assembly validation
- Redirects resources to more valuable tasks

- Increased accuracy over automatic verification
- Measure more difficult areas

- Trains users to build parts efficiently and precisely
- Find & Fix mistakes before they become expensive
- Avoid the compound error of building on top of poorly positioned hardware
- Stop build when mistakes happen

- Allows supervisors to quickly take a peek at how well the build is progressing
- Gives insight into where manufacturing difficulties occur

- Accurate, easy to read report
- Email customers proof of progress and quality
- Keep historical records of production quality
- Demonstrates capabilities to win contracts

## SPECIFICATIONS

Laser Measurement Accuracy 2 mm

Probe Measurement Accuracy 1 mm

Verification accuracy varies depending on distance to the part, part geometry, and material.

