

SEE THINGS DIFFERENTLY.

The most intelligent vision and laser projection solutions configured to help your business thrive.

Engineering
Simplicity.



VIRTEK

Leveraging technology to make complex manufacturing processes simpler.

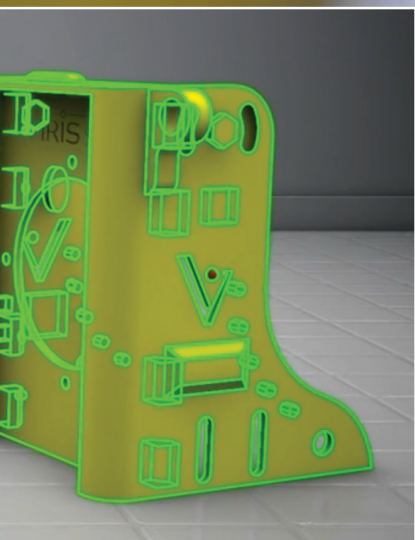
#seethingsdifferently

Virtek® is constantly reimagining how technology is used to make complex manufacturing processes simpler, safer and more efficient. Our team of industry leading experts developed the first projection systems capable of meeting the rigorous accuracy and precision requirements needed in aerospace production. We continue to build on this legacy by working side by side with customers to understand how to configure our suite of innovative products into solutions that address a wide range of production and assembly needs for companies of all sizes.

USING SOFTWARE AND VISION TECHNOLOGY TO:

- > Simplify multi-step manufacturing processes
- > Eliminate expensive tooling
- > Eliminate costly errors
- > Cut time to market by up to 50%
- > De-skill complex tasks
- > Ensure employee safety





Built as designed
within seconds,
virtually error-free.

Industry leading solutions. Built how you work.

At Virtek, we are confident our solutions can solve many of the problems your company faces. We work with you exclusively to ensure our solutions fit your individual process needs. Our team of experts are always available for support, helping you seamlessly transition from engineered drawings to production in a flash.

VIRTEK SOLUTIONS CONFIGURED TO YOUR NEEDS

2D Laser Projection System (LPS)

Accurately projects a virtual laser template to guide operators through the assembly process of flat 2D parts. Eliminates the need for blueprints and measuring tape. Even the most complicated designs can be built in minutes.

BEST SUITED FOR:

ROOF TRUSS

HAND RAIL

PATTERN CUTTING

FLOOR GRATE CUTOUTS

WALL PANEL ASSEMBLY

VISUAL INSPECTION (HARDWARE AND CONTOURS)

PRE-FAB CONCRETE

CNC ROUTING/MACHINING SETUP

SQUARE TUBE FRAMING AND SUB-ASSEMBLIES

ASSEMBLY/LAYOUT TASKS PERFORMED ON
WELDING ASSEMBLY TABLES

3D Vision Positioning System (VPS)

Accurately project a virtual laser template onto complex 3D molds and parts to guide operators through the process of part fabrication.

BEST SUITED FOR:

COMPOSITE PLY LAYUP

PAINT MASKING

MACHINE FIXTURE PLACEMENT

POSITIONING OF STRUTS, SPACERS AND
REINFORCEMENTS

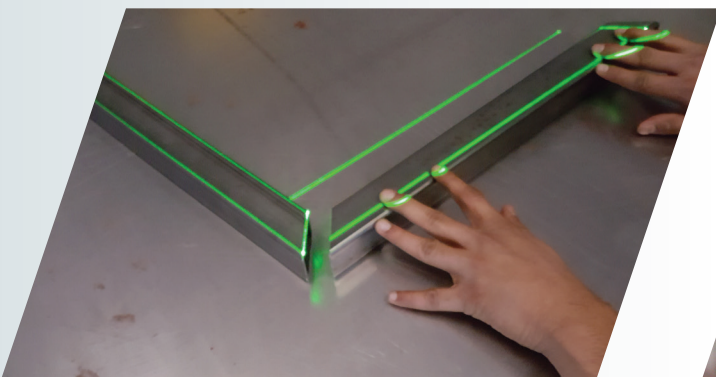
FIXTURED WELDED ASSEMBLY

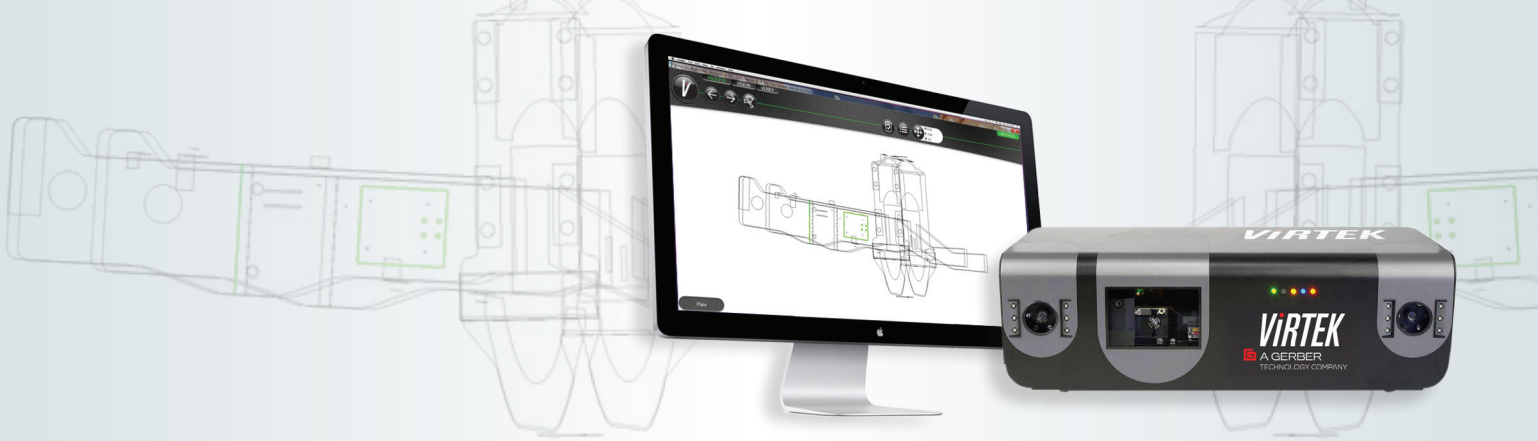
MODULAR FIXTURING LAYOUT AND SETUP

SUB-ASSEMBLY HOLE LOCATION

VISUAL INSPECTION OF AUTOMATED
MANUFACTURING PROCESSES

OPERATOR ASSEMBLY GUIDE PATHS





Virtek's advanced software, with an intuitive interface, is built for hassle-free operation for assemblers, engineers and managers. The software platform, along with the innovative hardware solution, supports both targeted and targetless applications. It accelerates the assembly process by eliminating templates, reducing human error and safeguarding quality throughput.

Spatial Positioning System (SPS)

Combines laser projection technology with 3D vision technology to locate a part in 3D space then quickly locks onto its CAD-specified assembly position.

BEST SUITED FOR:

AEROSPACE BONDED & RIVETED FASTENER
INSTALLATION

WELDED STUD & BRACKET PLACEMENT

ROLLING STOCK COMPONENT ASSEMBLY

HEAVY EQUIPMENT FABRICATION

SKIDDED ASSEMBLY LAYOUT AND FABRICATION

AEROSPACE MRO, UPGRADES, AND RETRO FITS

FINAL ASSEMBLY - HOLE LOCATION

Inspection

Real-time inspection that is easy to use. Uses lasers to measure the accuracy and quality of two-dimensional and formed parts to tolerances within 0.05 mm (0.002 inches).

BEST SUITED FOR:

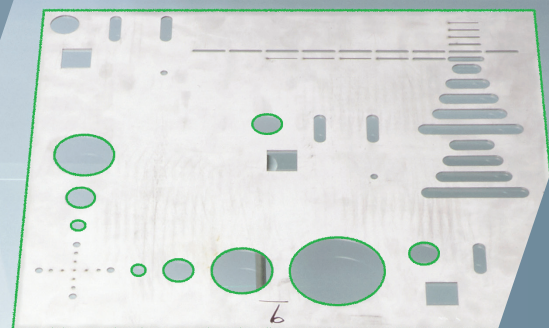
SHEET METAL COMPONENT FIRST ARTICLE
INSPECTION

HEIGHT/SLOPE/FLATNESS OF FORMED SHEET
METAL PARTS

GASKET INSPECTION

STATISTICAL PROCESS CONTROL AND REPORTING
(AUTOMATIC SD/CP/CPK CALCULATIONS)

2D REVERSE ENGINEERING



Industry leading technology. Proven success.

Virtek is the first choice among the world's leading innovators when they are looking for technology that is reliable, easy to use and adopt, and focused on solving the specific challenges they seek to overcome.



**31 YEAR
LEGACY**

**PATENTED VISION-BASED
LASER PROJECTION**



**LEADER IN INNOVATIVE
PATENTS**

**LARGEST GLOBAL
SERVICE ORGANIZATION**



**INLINE INSPECTION
DURING ASSEMBLY**

**ISO CERTIFIED –
ISO9001:2015**



**ALL TOP TIER
AEROSPACE COMPANIES
TRUST VIRTEK**

World's leading innovators. Partnering for decades.

For Virtek customers, the ease of use and the benefits of the products are immediately apparent. At Virtek, our passion, quality and expertise is setting the standard for what it means to be a leader in the industry.



95%
REDUCTION IN DEFECTS
-KOMATSU

IMPROVED PRODUCTIVITY
BY 50%
-WELDALL

FASTEST WAY TO GET
100% INSPECTION OF A PART
-SALEM METAL FABRICATION





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ISO Certified – ISO9001:2015

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