SOLUTION

FabriVISION

INTEGRATED SHEET METAL INSPECTION SYSTEM

AMADA

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INTEGRATED SHEET METAL INSPECTION SYSTEM

FABRIVISION MAXIMIZES THE THROUGHPUT OF YOUR BLANKING MACHINES BY ELIMINATING DELAYS IN THE INSPECTION PROCESS

THE KEY TO QUALITY FABRICATION IS BUILDING QUALITY CONTROL INTO THE PRODUCTION PROCESS. FABRIVISION PROVIDES A CONSISTENT, RELIABLE INSPECTION PROCESS WHILE INCREASING YOUR SHOP'S PRODUCTIVITY.

Now you can quickly inspect every laser-cut and punched part with unparalleled accuracy and precision. FabriVISION is a non-contact, laser inspection system that allows you to examine any flat part including plexi-glass, gasket materials, and other rigid parts. If you're a quality-conscious sheet metal fabricator who strives to stay ahead of your competition, FabriVISION can increase the performance, productivity, and profitability of your fabrication operations.

HD LASER

Self-Calibration
FabriVISION automatically self-calibrates before scanning – ensuring precise scans every time.

Shop-Ready Machine
Unlike other inspection devices, FabriVISION has been engineered to work alongside your turret punch presses and laser cutting systems. For high-vibration shop environments, optional stabilizer feet can isolate FabriVISION from impact tremors – while precise part inspection continues like clockwork.

Cutting-Edge Laser Technology
Our latest generation High-Definition Laser projector scans parts in as little as 12 seconds. The special HD Laser projector is designed to be virtually maintenance free.

Industrial Computer Casing
FabriVISION comes with our custom-designed shop-ready enclosure, complete with air flow & filtration management, and a power-filter unit to protect your investment.

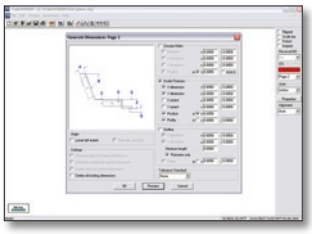
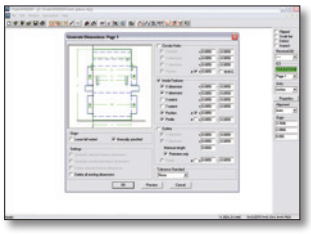
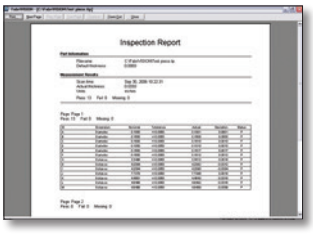
Heavy Duty Glass Top
FabriVISION's glass top is engineered to handle parts weighing up to 200 lbs. Additional glass tops increase convenience and flexibility.

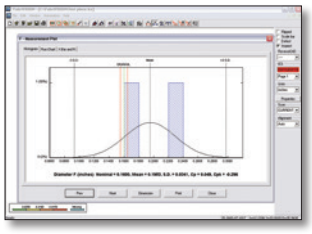
Quality Built Into The Process

SPC AND QUALITY REPORTING

Within seconds of completing a scan, FabriVISION generates a detailed report from the inspection file to your exact specifications. This automatically-generated colour report, records data files of the scanned part and includes any variances from the CAD data. SPC functions also include charting data in a Histogram, Run Chart, and X Bar/Range Plot for specific analysis of part production processes over a specified period of time.

The system provides complete traceability and automatic documentation to meet requirements for ISO and QS reporting in addition to data files you can easily export to common Microsoft Windows® based programs. The simplicity and speed of FabriVISION combined with it's automated documentation capabilities, enable you to upgrade your quality process with minimal cost, training or effort.

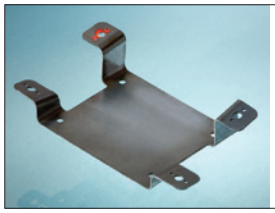






MAIN FEATURES

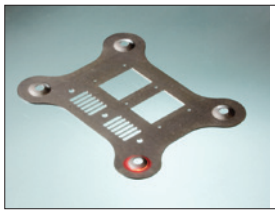
First article Inspection

Since FabriVISON is fully integrated with the central database inspections can be performed by the machine operator right at the production station. A full scan is completed in seconds while comparing each measurement to CAD specifications. This reduces the time between CAD drawing and first article inspection up to 96%.



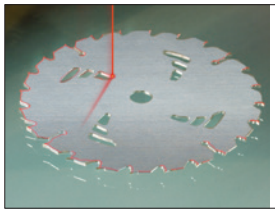
Variable Height Scanning

FabriVISON detects a part's form features by utilizing its built-in scan height adjustment function. Variable height scanning allows the operator to precisely measure holes within formed and/or embossed parts.



Visual Verification

FabriVISION is able to qualify form features by projecting an outline of the form directly onto the part surface while the part is being visually inspected. This enables the operator to verify the proper placement of the formed feature.



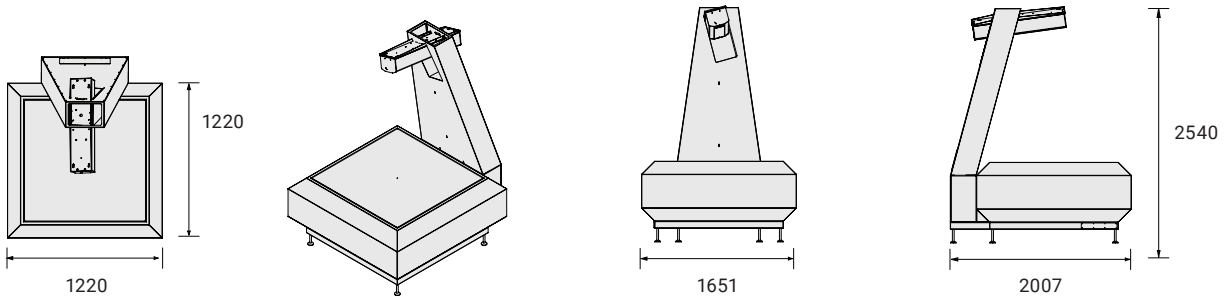
Reverse Engineering

The scanning process captures the complete profile of existing parts or templates at laser speed. Then, the data is stored in the central database PRT files or DXF files. The software also allows you to manipulate the scan data and part profile on-screen so that you can optimize the quality of the CAD model.

DIMENSIONS

FVL-HD-4848 model shown

Unit: mm



MACHINE SPECIFICATIONS

FabriVISION 3Di Laser		
Scanning Accuracy*	mm	± 0.05 (in the flat) ± 0.25 (for formed inspection)
Maximum Part Thickness	mm	200
Maximum Part Weight	kg	90
Calibration		Automated
Maximum Scan Zone	mm	1220 x 1220
Oversized Part		Oversized part capacity with auto alignment allows parts of unlimited length to be scanned
Overall Dimensions (LxWxH)	mm	2007 x 1651 x 2440
Operating Environment		10°C - 38°C
Power Requirements	Hz	110V/60 or 240V/50
Laser Device & Output		Laser diode device with maximum 4.5 mW output

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