VTUBE LASER

FARO

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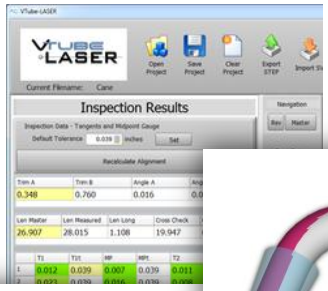
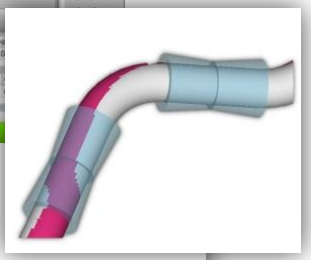
FEATURES

- Import solid model data from STEP or IGES files generated by CAD packages to create MASTER data.
- Measure tube shapes using laser technology for comparison against master data or to reverse-engineer from existing parts.
- Fully qualify tube shapes with inspection reports that contain tangent, midpoint, end angle deviations all compared to tolerance. Quickly verify a part shape by viewing the inspection result with shades of green (pass) or red (no pass).
- Display rendered image of measured tube, best-fit tube, and master tubes on the screen at the same time.
- Connect to and correct CNC benders.



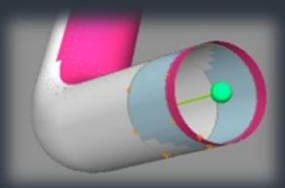


INSPECTION DATA
Use this data to qualify a part

Straight	T1d	T1t	MPd	MPt	T2d	T2t
1	0.010	0.039	0.004	0.039	0.011	0.039
2	0.017	0.039	0.011	0.039	0.005	0.039
3	0.005	0.039	0.004	0.039	0.004	0.039
4	0.004	0.039	0.003	0.039	0.007	0.039
5	0.009	0.039	0.009	0.039	0.009	0.039

BENDER ADJUSTMENTS
Add this data to the bender data to correct the shape of the tube

Bend	Length	Rotation	Angle
1	-0.590	0.0	0.0
2	-0.017	-0.1	-0.1
3	0.008	0.1	-0.3
4	0.028	0.0	-0.2
5	-0.768	----------	----------



Tube measuring software for FARO laser and tactile measuring centers

This is the application tool designed exclusively for **tube measurement, qualification**, and **bender correction**.

VTube-LASER connects directly to FARO Laser ScanArms using the FARO laser line probe technology to scan tube shapes faster with greater accuracy.

Correct your network of CNC benders. Setup and correct a bender in just a few minutes. Transfer of correction data takes a few seconds.

ADVANCED TUBULAR TECHNOLOGIES, INC

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Fax: 248 690-2396
www.advancedtubular.com

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FARO LASER Compatible

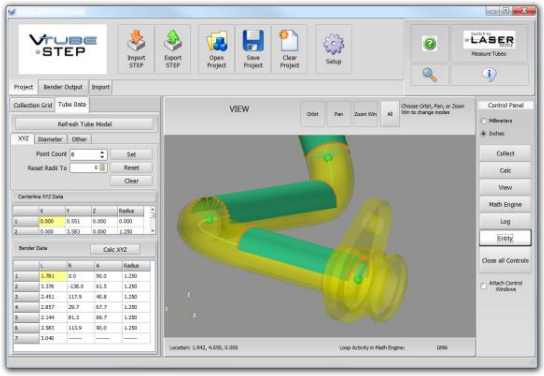
VTube-LASER is designed to be used exclusively on FARO ScanArms like the Quantum, Platinum, Fusion, Titanium, and Advantage arms.

VTube-LASER uses v2 or v3 Laser Line Probes

FARO TECHNOLOGIES

Our software supports FARO arms exclusively and is distributed exclusively through FARO Technologies.

SOLID Model IMPORT



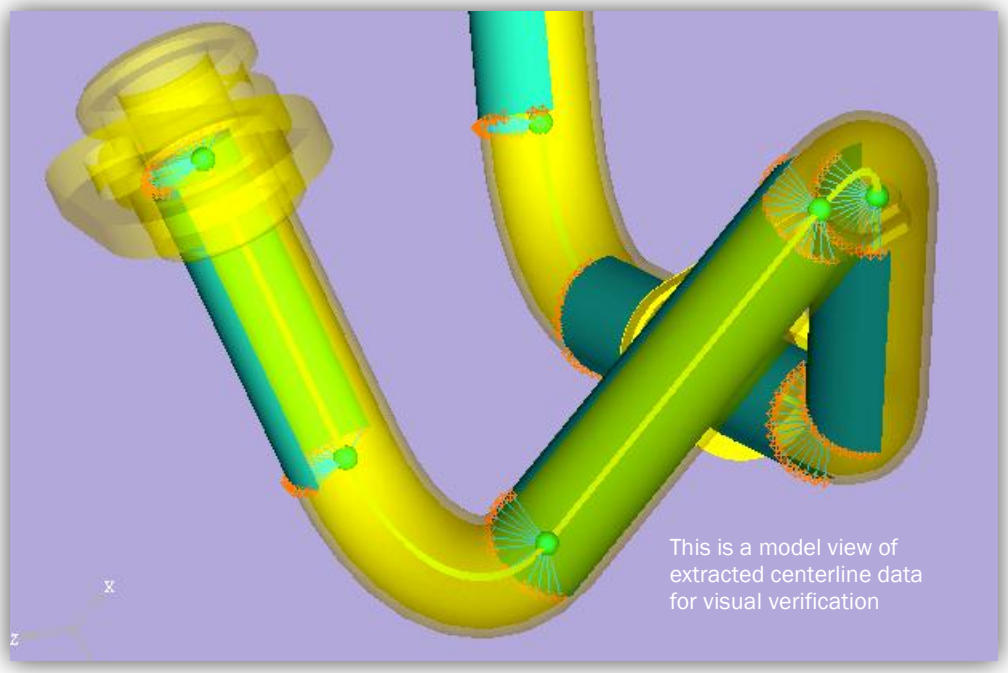
Import MASTER data from the world-wide standards of STEP or IGES files – which means you can import from any solid model package.

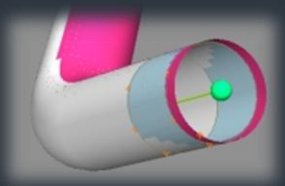
IMPORT SOLID MODEL

Import from any solid model CAD package using the universal STEP or even IGES format.

EXTRACT CENTERLINE DATA

Extract centerline data to build MASTER data for inspection. View the results of the extraction in the viewport using transparency.





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VTUBE LASER INSPECTION

VISUALIZE DEVIATIONS

The measured tube is fit on the master tube using sophisticated fit technology then displayed on the screen for visualization.

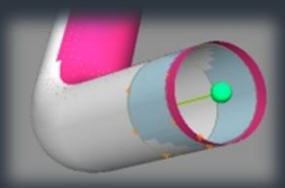
INSPECTION GRID COLOR CODES

Solid Green: The deviation is ½ of the tolerance or better

Light Green: The deviation is less than the tolerance but greater than ½ tolerance

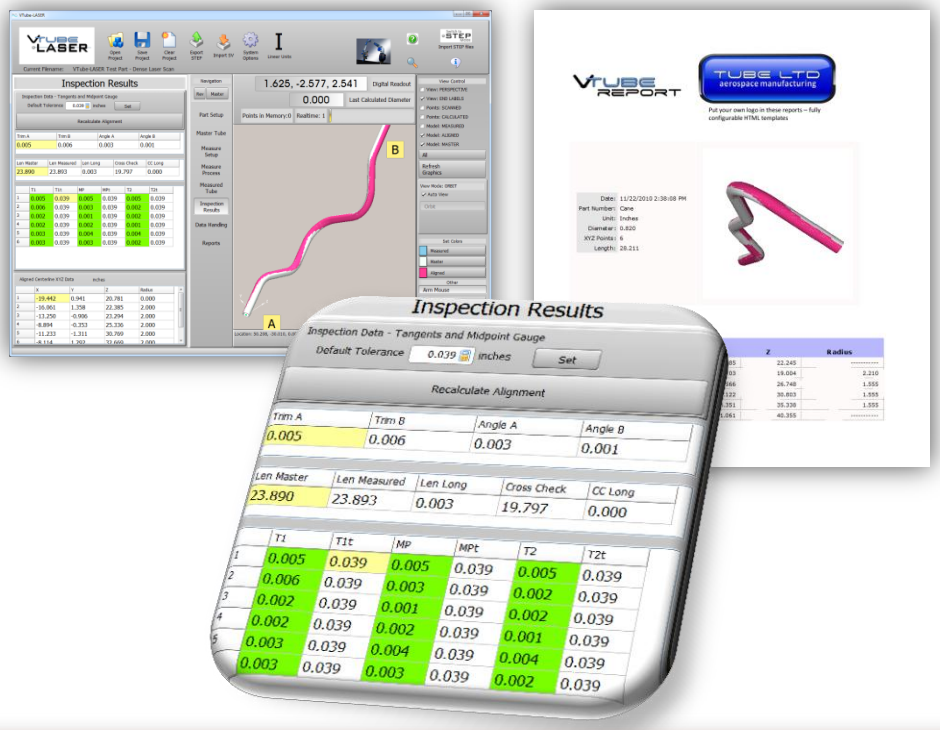
Light Red: The deviation is greater than the tolerance – but less than 2 times the tolerance.

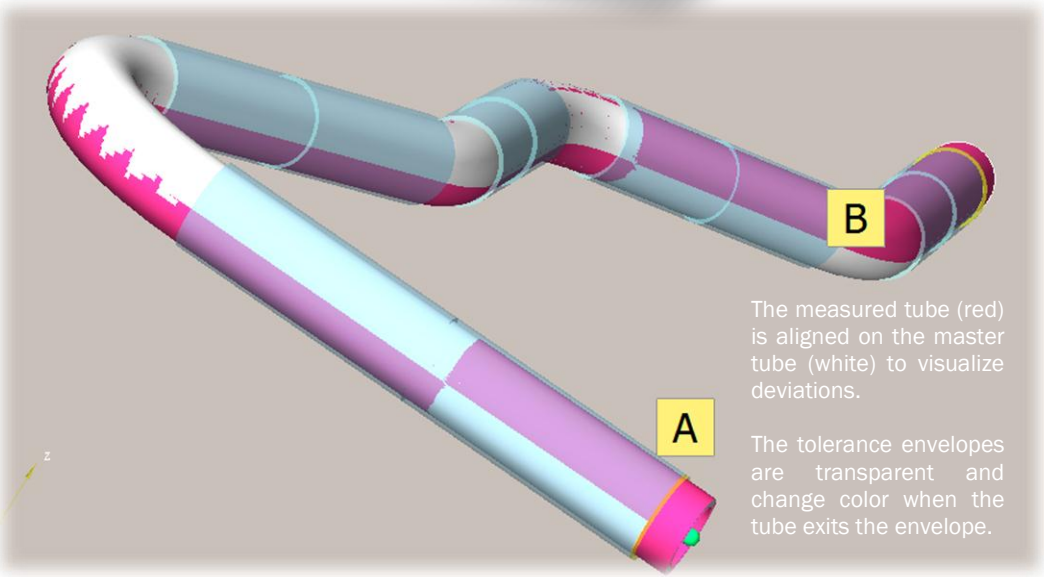
Solid Red: The deviation is greater than or equal to 2 times the tolerance.



Part Qualification

Fully qualify the part using the Inspection Results grid. Color codes give a quick indication of pass/fail for part qualification. Print customizable inspection reports to document the qualification.





The measured tube (red) is aligned on the master tube (white) to visualize deviations.

The tolerance envelopes are transparent and change color when the tube exits the envelope.

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VTUBE LASER BENDERLINK

BENDERLINK SOLUTIONS

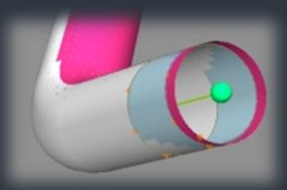
We can help you integrate CNC Bender to measuring centers of nearly any type. We're known as the Benderlink specialists.

TECHNICAL SUPPORT

We offer our LogMeIn Rescue service to remotely access your CNC Bender computer for tech-support.

KNOWLEDGEBASE

We have an unparalleled web-based knowledgebase that is available to all our customers for details about our products – including revision details and technical documents.



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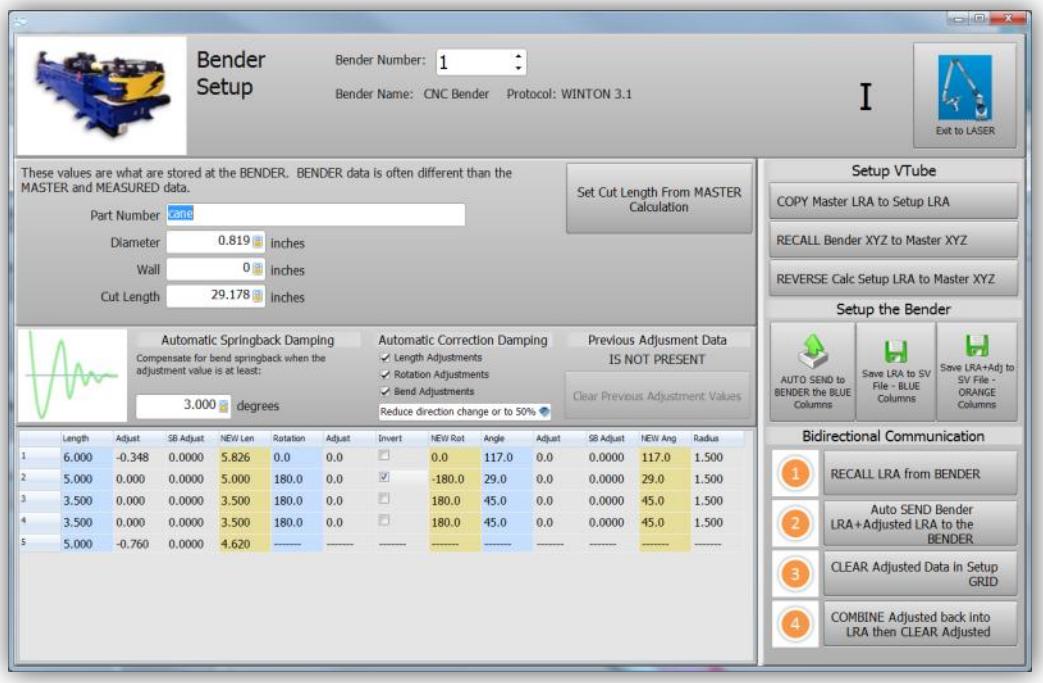
Bender Communication

Connect to benders using the VTube-LASER Benderlink system. Network to any number of benders on your shop floor to correct the benders to the correct part shape in a few minutes.



SMT Industries

PINES Technology

Eaton Leonard

Addison Mckee

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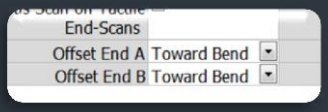
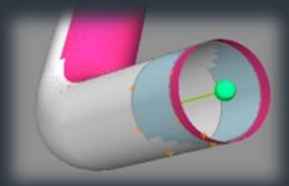
EXTEND or TRIM and CROSS-CHECK

The inspection report shows "extend" or "trim" for end measurements, and a "cross-check" straight measure for end-to-end deviation from the master part.

TACTILE OPTIONS

Control the direction of ball-probe offset along the centerline for end trip projections.





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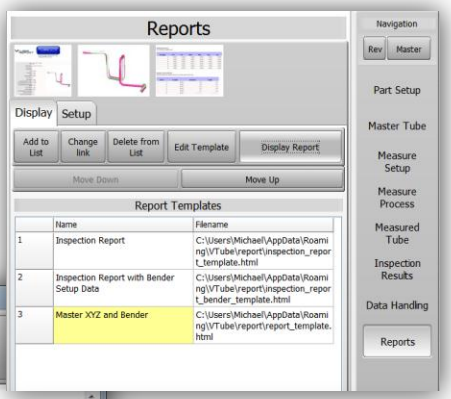
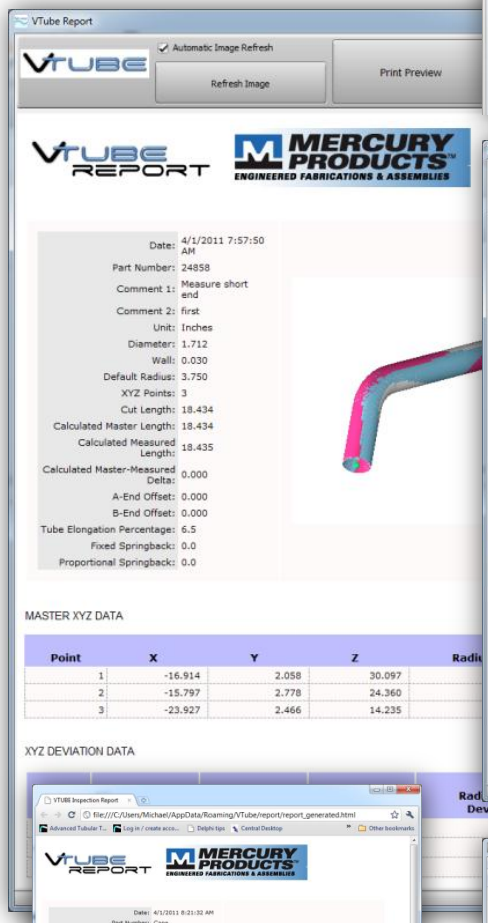
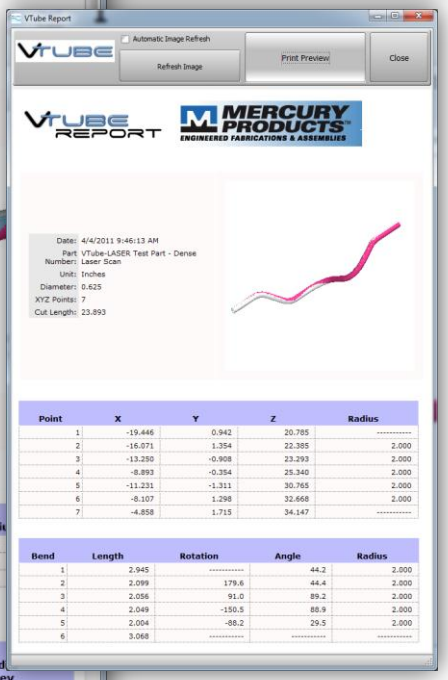
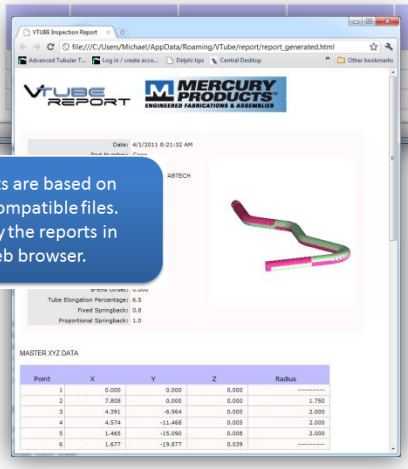
Flexible Reporting

Design the reports using HTML report templates using our sample reports. Add any number of custom report templates to the list – ready for use in different situations.

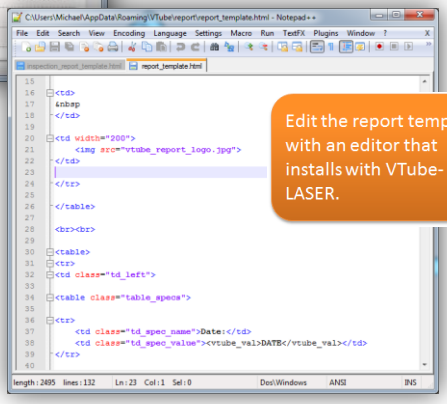








Reports are based on web-compatible files. Display the reports in any web browser.



Edit the report templates with an editor that installs with VTube-LASER.

Permission was granted to use the customer logos shown in these reports.

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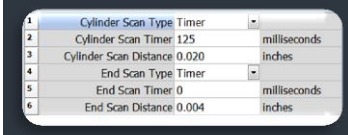
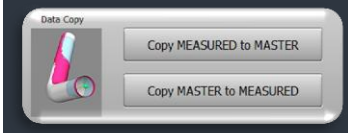
SCAN RATE FILTER

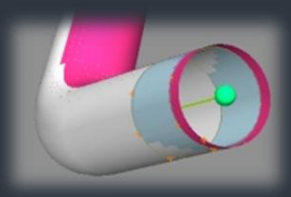
The Scan Rate Filter controls the rate at which VTube brings in scan data. The filter can be set for either DISTANCE or TIMER. For example, you can setup VTube to take in scanned points that are separated by at least a millimeter.



COPY MEASURED to MASTER

Reverse-engineering is simple: Copy MEASURED to MASTER data with the single press of a button in the Data Handling menu.





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From a Satisfied Customer

Metalsa
Quality as a way of life

"Advanced Tubular has provided us with an excellent tool for our bent tube scanning needs. The software provides ALL the data we need to optimize our tube bending processes. With the use of V-Tube software we have realized a reduction of scrap and downtime which makes the product pay for itself quickly. The software is laid out in a logical and efficient manner to reduce inspection time so that workload of inspection personnel has reduced significantly from previous measurement methods."

"The on-site training provided was top notch and well organized in a hands-on approach. The instructor was down to earth and spoke in terms our inspectors could understand. Honestly, the software is so well designed, training others is easy!"

Phil Leslie
Quality Coordinator
Metalsa LV USA, Elizabethtown