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

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.

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

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

This is a model view of extracted centerline data for visual verification.
The measured tube is fit on the master tube using sophisticated fit technology then displayed on the screen for visualization.

**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 \( \frac{1}{2} \) of the tolerance or better

**Light Green:** The deviation is less than the tolerance but greater than \( \frac{1}{2} \) 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.

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 fit on the master tube (white) to visualize deviations.
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.

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.
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.

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.
SCAN RATE FILTER
The Scan Rate Filter controls the data 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.

Feature List
- Keep projects from other measuring centers that use Supravision data – because you can import Supravision projects directly into VTube-LASER.
- Clear messages help you know if a measurement is trustworthy. You can choose to remeasure or continue any time.
- Enter MASTER data from a print or extract master data from a solid model from any solid model program.
- Move long tubes in the middle of measurements.
- VTube calculates the diameter in realtime. There is no need to enter a nominal data to calculate the value.
- Print reports with your own company logo to a printer or a PDF file.
- Measure a radius using our unique radius segment-scan method to average the radius value over the entire bend.
- You can choose to remeasure straights or backup to previous straights at any time.
- Reverse-engineer a part in just a few minutes. Enter a part name, a default radius, and then begin measuring.
- Calculate the cut-length.
- Perform precise best-fit alignments and inspection reports to qualify a tube shape.
- Use tube elongation percentage value to compensate the cut length.
- Measure with a ball-probe or a laser scanner – or even both in the same tube.
- Use fixed and proportional springback values to automatically adjust bender data for bend springback.
- Use quick end-sweeps that never miss or generate an error.
- Connect directly to networks of benders for bender correction.

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