



## ADVANTAGES

Our system offers significant advantages in comparison to competing systems. Here is a list of unique advantages.

### FARO Edge ScanArm



### VTUBE REPORT

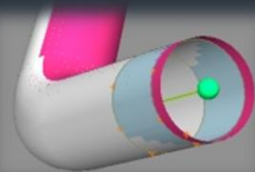


Part Number: 00000000000000000000  
Date: 1/1/2010  
Operator: J. J. J.  
Part Name: 00000000000000000000  
Part ID: 00000000000000000000  
Part Size: 00.000



### MEASURED XYZ DATA

Point	X	Y	Z	Radius
1	-12.000	-11.999	22.242	0.000
2	-12.000	-12.000	22.242	0.000
3	-12.000	-12.000	22.242	0.000
4	-12.000	-12.000	22.242	0.000
5	-12.000	-12.000	22.242	0.000
6	-12.000	-12.000	22.242	0.000
7	-12.000	-12.000	22.242	0.000
8	-12.000	-12.000	22.242	0.000
9	-12.000	-12.000	22.242	0.000
10	-12.000	-12.000	22.242	0.000



1. Customers tell us that VTube-LASER projects are significantly easier to setup and use to measure a tube shape than in other packages.
2. Only VTube-LASER uses a "cut plane" feature that allows the tube or pipe to be placed on any flat surface for measuring. Competing arm systems require work-holders to elevate the tube.
3. Only VTube-LASER uses a unique split-bend process that accurately measures bends equal to and exceeding 180 degree bends using math based on point-cloud data from the apex of the bend. Cross-section diameter flow (like collapse) in the bend does not reduce the accuracy of the split bend centerline placement in VTube-LASER. VTube-LASER assumes that the bend is an unpredictable shape and uses math that adapts to the shape it measures.

Other arm systems split 180 degree bends by simulating a short cylinder in the middle of the bend. However, the bend diameter is not a cylinder. It is not even a precise torus due to material flow (like collapse). The result is imprecise and highly variable placement of the centerline at a split bend.

4. VTube-LASER automatically compresses the LRA data at split bends into single bends because that is how the bender uses them. Some competing systems do not compress the bend data.
5. VTube-LASER lets the operator choose which straights have split-bends by indicating the need for split bending in advance.
6. Only VTube-LASER takes in *thousands* of points to qualify end-scans. This greatly increases the success rate on end-scans.
7. VTube-LASER end-scans are easier to collect since the FARO laser takes in more points from which the math engine can choose.
8. The FARO laser line probe beam is visible – making it easier to scan short straights. One competitor uses invisible infrared.
9. Only VTube-LASER can use ball probe and the laser line probe in the same tube measurement without changing probes.
10. Only the FaroArm is compensated for temperature.
11. The laser line probe can be used to scan any type of part using other software packages designed for scanning. The infrared probe of competing packages can only be used on a tube shape.
12. Only VTube-LASER includes communication with up to 100 benders at *no additional license charge* if the protocol is "Supravisoin Network."
13. Only VTube-LASER can import solid model STEP and IGES files well because the VTube-LASER platform is based on the VTube-STEP software platform.
14. VTube-LASER gives more real-time feedback, helping operators determine the quality of cylinder scans as they are being measured.
15. The VTube-LASER software support and information in the knowledgebase and customer web pages is unmatched.