



World-class Metrology for Tube Fab

VERSION 3 Datasheet

Version 3 - New Features List

NEW SCAN SCORE - New Scan Score gives confidence to users by grading the current scan.

NEW AUTOMATED MULTI-VIEW SOLIDWORKS DRAWINGS - New automated multi-view tube drawings in SOLIDWORKS

5X FASTER SCAN SPEEDS - Incoming point and scan speed is 5x faster. (You can see the improved speed in the DRO window.)

NEW BEND PROFILE MODEL ENVELOPES - New color-based bend profile envelopes are displayed in the model if the bends are measured.

NEW BEND PROFILE ENVELOPE QUALIFICATION GRID - New bend profile envelope qualification grid

NEW BEND PROFILE MODEL RINGS - The new bend profile model rings display if any part of reduced four points of a bend profile are outside the envelope.

NEW BEND PROFILE MEASURING METHODS - Three new methods for measuring bend profiles: inside, inside/outside, or all sides.

NEW BEND PROFILE START SOUNDS - New unique start sounds for all three Bend Profile scan types make it clear which type of bend profile scanning is active.

NEW INSIDE RADIUS MEASURING - New radius calculations are based on the inside radius alone.

NEW INLINE BEND PROFILE CONTROL - The new Inline Bend Profile Setup allows you to choose which radii to measure automatically during UNISCAN or MULTISCAN. Include all of them, some of them, or none of them.

NEW USER COORDINATE SYSTEM - New measured-tube-aligned user coordinate system changes the coordinate system to align with the master tube. The UCS control is added to the top of the DRO.

BETTER/MORE EFFICIENT SCAN SOUND SYSTEM - We improved laser scanning sounds and better scan-sound handling internally. The new sound system requires less CPU power.

REDESIGNED INSPECTION MENU - The Inspection menu was completely redesigned with more items.

NEW CIRCULAR GAUGES - New circular gauges are much easier to read than the old progress bars for "percentage in tolerance" and Scan Scores.

NEW COMMUNICATION PROTOCOLS - UNISON SVNet, Schwarze-Robitec SVNet, YLM SVNet

NEW PERMANENT CYLINDER FIT DATA TRACKING - New tracking and storing of all cylinder fit attributes in order to calculate scan scores

NEW IMPORT ADJACENT BENDS - Now you can import models with adjacent bends with no straight between the bends.

SCAN SCORES and CIRCULAR GAUGES

Overall Scan Score



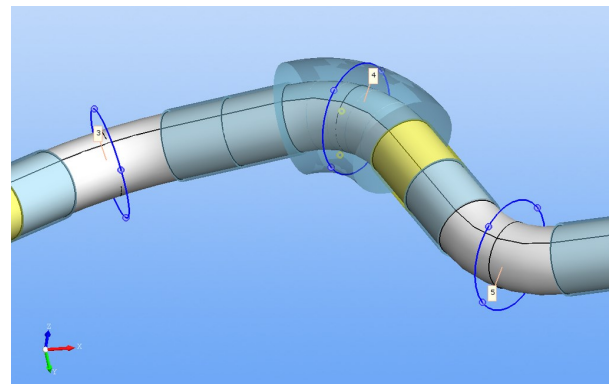
This score is a consistency indicator based on historical cylinder fit data for this part.

Tangents In Tolerance %

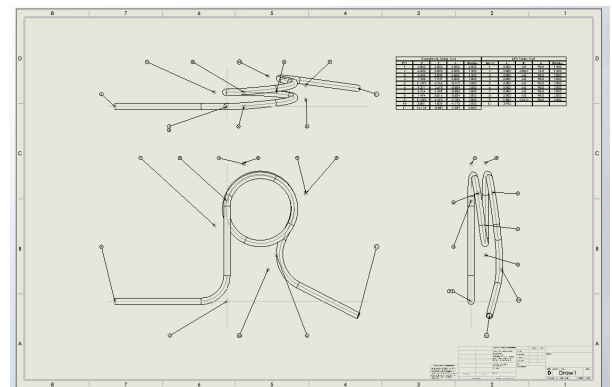


This represents a percentage of tangent points inside the tolerance envelope.

BEND PROFILE ENVELOPES and RINGS



SOLIDWORKS BUILDER



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Version 3 - New Features List (Continued)

NEW IMPORT SETUP IMAGE - Now you can import a setup image of the tube. This allows setup technicians to specify how the part is set in front of the measuring center for measuring.

NEW REAL-TIME EDITING of LASER LINE SEPARATION DISTANCE - New real-time editing of laser line separation value allows users to adjust the UniScan laser line separation even when measuring.

NEW G-Tube GTT IMPORT - Now you can import legacy G-Tube GTT files to create new VTUBE-LASER projects.

IMPROVED COMCO BENDER CORRECTIONS LOGIC - We fixed and improved the COMCO CSV bender corrections logic.

IMPROVED TRANSFORM (ROTATE) FOR ENTIRE ASSEMBLY - Now you can rotate the entire assembly when one of the parts is transformed in space. Simply make the "Aligned" switch active for every part to transform.

NEW TRANSLATE (MOVE) CONTROL WINDOW - We added a new translate window that lets you move one part or the entire assembly along any of the X, Y, or Z axes. You can make any point 0,0,0. You can move an entire coordinate column of data by any linear distance.

IMPROVED PRECISION WEIGHT ALIGNMENTS FOR ASSEMBLIES - Now use Precision Weights across multiple tubes in the assembly. This gives you total control over which points control the alignment across all tubes in the assembly.

NEW LRA SPINNER CONTROL - The new LRA Spinner control lets you change bender data incrementally and quickly. You jog values and see the changes on the screen immediately.

IMPROVED ASSEMBLY ALIGNMENTS - Now align all assembly parts when a single measured part aligns to the master.

LRA BENDER DATA QUALIFICATION GRID - Customers requested LRA data qualification—so we added the feature.

WINDOWS 10 DIALOGS - Customers requested the new Windows 10 style open/save dialogs (rather than the older Windows 7 dialogs).

MATH FORMULA ENTRY - New floating-point edit boxes allow for entry of full math formulas.

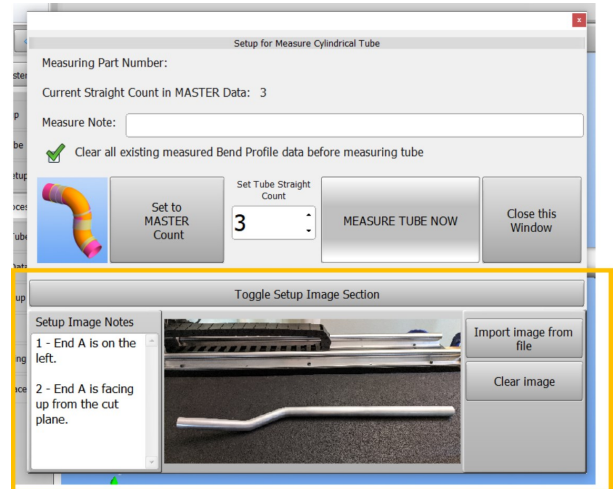
NEW LASER STRIPE ZONES - This new post-processing feature allows you to restrict the laser lines used to certain parts of the straights. The goal is to increase consistency between measures on highly-deformed parts.

AUTO REVERSE ALIGNMENT - New automatic reverse alignment for parts that you accidentally measure in reverse

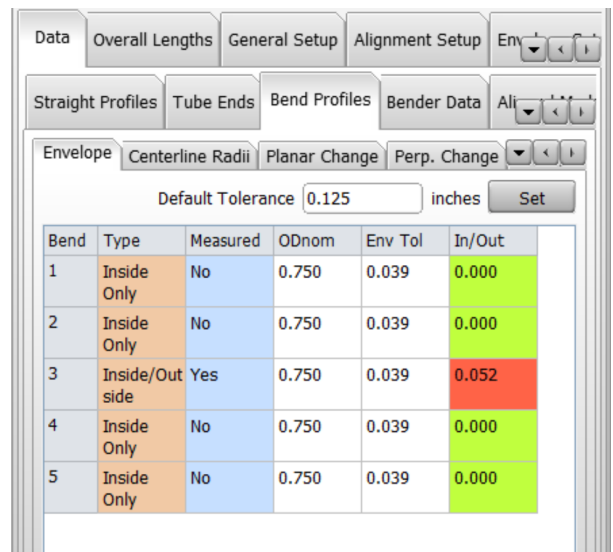
NEW IMPORT HEXAGON ISOGEN FILES - New HEXAGON Isogen piping assembly file import

IMPROVED IMPORT DOCS FILE ASSEMBLIES - Rewritten logic for importing DOCS files now recognizes DOCS assemblies.

MEASURE SETUP IMAGE



BEND PROFILE ENVELOPE TOLERANCES



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