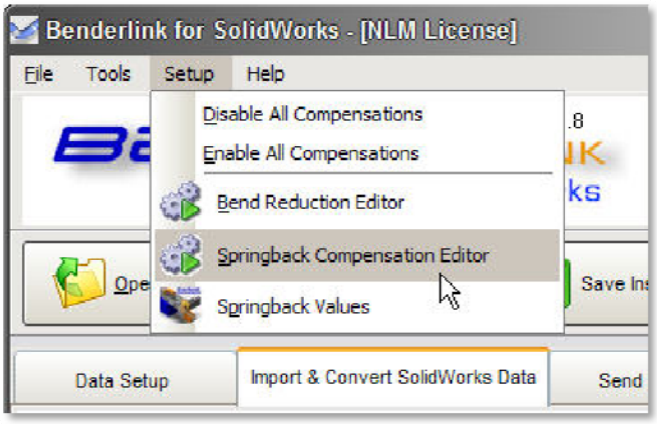
# BENDERLINK for SolidWorks

ADVANCED TUBULAR TECHNOLOGIES, INC

## Benderlink for SolidWorks converts SolidWorks tube designs to BENDER data then sends data directly to tube bender operator stations*




*Benderlink can calculate elongation and springback using programmable forumulas you can enter in the Pascal-based editor.*

*Benderlink uses the Supravision Network protocol for connection to benders. Bender controls that use this protocol can communicate with Benderlink for SolidWorks. Examples are SMT, Pines TS-2000, EL Lightspeed, and Eagle.

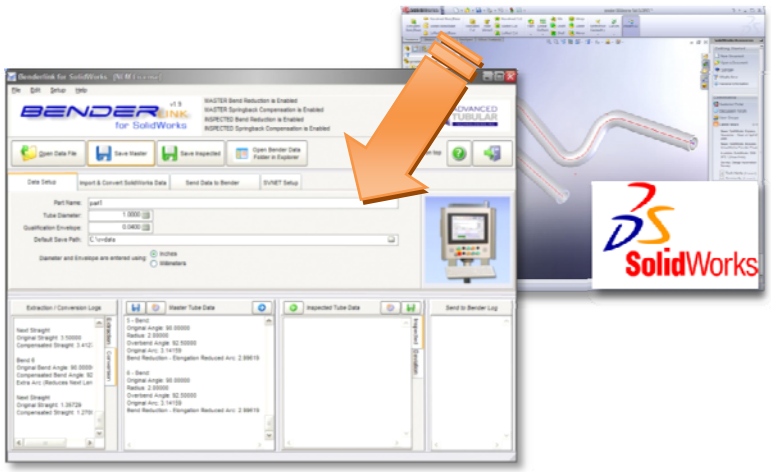
Other benders require additional ATT Benderlink software to finishe the connection. Examples are Chiyoda, Keins, EL Premier, and MiiC.

TAURING data is transferred through the TAURING file format only. (It does not use the Supravision Network protocol.)

### Easily Convert from SolidWorks 3DSketch Tube Designs

Benderlink for SolidWorks works with SolidWorks software to extract the tube centerline directly from 3DSketchs while working in SolidWorks.

- **Tested With Multiple Versions:** Works with multiple versions of SolidWorks – including the latest version – 2008.




*Benderlink communicates directly with the SolidWorks 3DSketch editor.*

- **Extract From 3DSketch:** Extract tube data from SolidWorks while both programs are running. Benderlink accesses SolidWorks directly to extract the 3D centerline data of the designed tube.

- **Convert To Bender Data:** The data imported is automatically converted to bender data. Save the data to the Supravision file format for import to benders. (Also see TAURING below)

- **Display Logs:** Benderlink displays several logs that help you determine what the data looks like in the bender data format.

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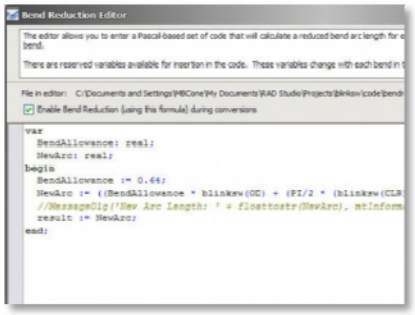
- **Calculate Elongation:** Automatically **calculate Elongation** in order to adjust the bender data to better predict the best start data and cut length.

- **Edit the Elongation Formula:** Use our **Bend Reduction Formula Editor** to construct editable, in-line mathematical equations using mathematical symbols and equations to predict the draw-bend elongation.




- **Calculate Springback:** Automatically calculate **bend springback** to predict the best starting bending angles on the first tube.

- **Edit the Springback Formula:** Use our **Springback Compensation Editor** to construct editable, in-line mathematical equations using mathematical symbols and equations to predict the bend springback.

- **180 Degree Plus Angle Support:** Automatically detect and handle 180 degree bends or greater.

- **Support for Contiguous Arcs:** Automatically check for and handle arcs that meet with no straight lengths between.

- **Bender Comunications:** You can **send data directly to a bender** through a network because Benderlink for SolidWorks can act like a ROMER measuring center using the Supravision Network protocol. You can even **recall** data using this protocol in order to get the lastest bender data in any bender.

- **Master or Inspected Data Areas:** Two storage areas are available so that you can store unadjusted MASTER data separately from adjusted INPSECTED data.

- **Inspection/Correction Process:** If you have a measuring center connected to SolidWorks that can measure a tube shape, then you can derive a 3DSketch from an actual bent tube, then use that data inside Benderlink for SolidWorks to create new INSPECTED data – which is then used to send CORRECTED data to the bender.

- **Export TAURING Data Files:** Use the Export TAURING Data menu to format and export TAURING roll bender compatible data.

## For More Information

Learn more about the Benderlink for SolidWorks at www.advancedtubular.com

**Pricing details** are available at our **online** store.

**Demonstration videos** are available the ATTwiki knowledgebase.

Windows Vista

Microsoft Windows xp

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