

Autodesk Inventor to Bender Conversion SOFTWARE



Converts **Autodesk Inventor**

Files to BENDER data

STEP 1 - IMPORT DATA
AI2Bender software couldn't be any easier to use. Export the tube centerline data from Inventor to an XYZ file. In AI2Bender, press the Load Inventor XYZ File button. Select the file, press Open.



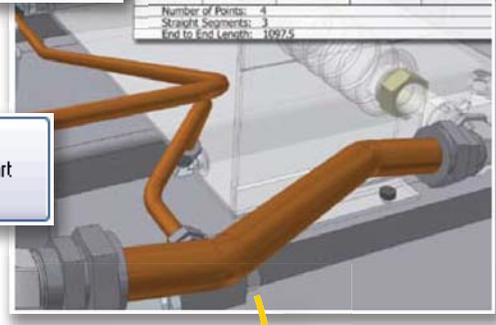
Point	X	Y	Z	Radius
1	-527.900	-683.100	215.100	
2	-520.100	-779.800	233.500	120.000
3	-227.800	-792.200	181.700	120.000
4	-559.000	-536.400	221.900	

Number of Points: 4
Straight Segments: 3
End to End Length: 1027.5

DESIGN tube shapes in Autodesk Inventor

EXPORT the bend table to disk

STEP 2 - INSTANT CONVERSION
The incoming data is instantly converted from centerline XYZ to BENDER DATA. Tube shapes can be cross-checked by displaying the part in a graphic window. The display feature allows you to quickly rotate the part to any orientation, including any true bend orientation. (True bend = any bend orientated flat to the primary surface.)



IMPORT and convert the bend table in AI2Bender software

SAVE bender data in universal bender data formats



STEP 3 - EXPORT DATA
Change to the "Save Bender Data" tab menu and press the SAVE button. The output file uses the standard Supravision format with both XYZ and LRA (bender) data. AI2Bender allows you to preselect a path to use for saving data.

AI2Bender - [C:\Program Files\ai2bender\aldata\inventor_in.xyz]

Advanced Tubular Technologies
Autodesk Inventor to Bender Converter

STEP 1 - Load Inventor XYZ Data STEP 2 - Save Bender Data

Load Inventor XYZ File... Display Part Use this diameter: 1.000

Current Inventor File Selected: aiinventor_in.xyz
XYZ Points in Inventor Data: 7
Units for Data: Inches

Calculated BENDER data
1: L:2.4110 R:0.0000 A:90.0000 Radius:1.0000
2: L:0.7940 R:90.0000 A:90.0000 Radius:1.0000
3: L:0.4170 R:109.8939 A:90.0000 Radius:1.0000
4: L:5.4110 R:0.0000 A:90.0000 Radius:1.0000
5: L:2.2230 R:0.0000 A:90.0000 Radius:1.0000
6: L:1.0000

Developed Length: 20.1100

Performing Calc. from XYZ to BENDER...
OK - Inventor Data Loaded
OK - XYZ Point Count in Inventor Data: 7]

1: X:5.6320, Y:-2.9430, Z:2.0000
2: X:5.6320, Y:-2.9430, Z:5.4110, Rad:1.0000
3: X:2.8380, Y:-2.9430, Z:5.4110, Rad:1.0000
4: X:2.8380, Y:-0.5260, Z:5.4110, Rad:1.0000
5: X:2.8380, Y:-0.5260, Z:-2.0000, Rad:1.0000
6: X:-1.1530, Y:0.9110, Z:-2.0000, Rad:1.0000
7: X:-1.1530, Y:0.9110, Z:0.0000

Units: Inches
OK - XYZ count = 7
OK - Main header check
OK - Parsing data to internal Autodesk Inventor data
OK - Inventor XYZ Data File Loaded: [C:\Program Files\ai2bender\aldata\inventor_in.xyz]

TRANSFER bender data into other software like TubeCAD, or to CNC Benders through Benderlink software, USB Flash Drive, or direct network connection



Autodesk Inventor is a trademark of



Autodesk Inventor to Bender



SAMPLE LOG DATA



BUILT IN HELP

The AI2Bender software includes built-in help on how to use the various features of the software.



TRANSFER to OTHER ATT SOFTWARE

Other Advanced Tubular software can import Supravisoin files - like TubeCAD, TubeCalc, and Benderlink (software for communicating with benders).

TRANSFER to BENDERS

Some CNC benders know how to import Supravisoin files directly. For example, our CNC Bender software knows how to import and convert Supravisoin data for use in building bend programs.

Calculated BENDER data
1: L:5.0000 R:90.0000 A:90.0000 Radius:1.0000
2: L:2.0000 R:90.0000 A:90.0000 Radius:1.0000
3: L:2.0000 R:-91.0000 A:90.0000 Radius:1.0000
3- L:3.0000

Developed Length: 16.7124

Performing Calc from XYZ to BENDER...
OK - Inventor Data Loaded
OK - XYZ Point Count in Inventor Data: 5

1: X:-5.6600, Y:-1.3440, Z:-1.3950
2: X:0.3400, Y:-1.3440, Z:-1.3950, Rad:1.0000
3: X:0.3400, Y:2.6560, Z:-1.3950, Rad:1.0000
4: X:0.3400, Y:2.6560, Z:2.6050, Rad:1.0000
5: X:4.3400, Y:2.6560, Z:2.6050

Units: Inches
OK - XYZ count = 5
OK - Main header check
OK - Parsing data to internal Autodesk Inventor data object...
OK - Inventor XYZ Data File Loaded: [C:\Program Files\ai2bender\

CONVERTS and DISPLAYS BEND DATA

The bend data is calculated from the centerline XYZ data in the Inventor XYZ file.

DEVELOPED LENGTH

A starting developed length is calculated and displayed.

VERIFICATION

AI2Bender verifies the data contents of the incoming Inventor XYZ file.

CNC BENDER



System Requirements

- Windows 2000 or XP
- Autodesk Inventor Professional with Routed Systems Option

Optional Service and Support Available

- Project Planning
- On-site Installation and Setup

For more information on any of our products or services please visit us on the Web at:
www.advancedtubular.com



14515 Mackey Road, Suite 202
Holly, MI 48442
Telephone: 248.674.2059
Facsimile: 248.724.0807
www.advancedtubular.com