Software CAD/CAM

Offline programming & simulation for press brake machines
Adbendpro’s easy to use and powerful drafting system helps you breeze through part creation. Each drawing icon is designed to morph into several operations using shortcuts that eliminate troublesome switching between icons.

Intelligent Snaps, Automatic construction lines, library of canned shapes and user defined parametrics are just a few of the many powerful CAD functions in Adbendpro.

Highlights:
- Supports blocks, layers and spline curves.
- Automatic Dimensioning of Parts.
- Imports drawings from DXF, DWG, IGES or PRT files.
- Parametric Transitions and Duct unfold.
- Solidedge © and Solidworks © Import.
- Flat to 3D model fold up capability.
- Common Shape Array Tool.
- Clean up Splines, Duplicate, and Open geometry.
- Supports Etch and Engraving Layers that can be tooled when programmed.
- Easily unfold 3D models to 3view shop floor drawings.

Adbendpro’s 3D sheetmetal modeler can......
- Read IGES, STEP, Solidedge © and Solidworks © native 3D models.
- Easily switch between Bend and Cut Edges.
- Unfold 3D models into Flat patterns directly ready for CAM.
- Represent form shapes such as Louvers, Lances, Countersinks and automatically assign Tooling.
- Automatically create Boxes, Mitered Corners.
- Model and Unfold weld & hemming flanges.
Auto Tooling
Once the desired bend machine is selected, the auto tooler assigns suitable tooling based on the 3D model to generate a collision-free bend sequence. The Bend Sequence and Tooling Layout can be output on graphical reports.

Collision Check and Simulation
The Bend Simulator provides detailed, precise, and configurable simulation of the entire operation. Back gauge movement, ram stroke, part insertion, and retraction are all animated. Simulation checks for collision between parts, tools, punch holder, and machine - displays any such collisions found in the model. Collisions can be visually inspected, zoomed in, and corrected using the graphical interface.

Tool layout & Bend Reports
Tool Mount Position, Tool Flip etc. can be modified similar to the actual machine operation. Detailed Bend Reports can be generated with 3D views of each Bend.

Back gauge editing
You can view the back gauges graphically and also change the position of the back gauges in the 3D visual representation window.

Highlights
- Full 3D Bend Simulation and Collision Checking.
- Collision Checking for safer operation of the press brake.
- Graphical reports provide the operator detailed step by step setups.
- Eliminate Scrap due to Trial and Error Programming.
- Safely store complex bend programs for reuse.
- Optimize tool selection to minimize changing setups.
Adbendpro’s CAM module can automatically assign punches and dies, position back-gauges and compute an optimal sequence for 3D models designed using Adbendpro own CAD or process data imported from others environments.

**Highlights:**

- Full 3D Bend Simulation displays each bend process.
- Collision checking for safer operation of the press brake.
- Graphical reports provide the press brake operator detailed step-by-step setups in one concise report.
- Supports multiple tool libraries for different manufactures such us Wila, Amada, TecnoStamp, Rolleri, Wilson, etc...

**Workflow**

Adbendpro easy to use and has a powerful drafting system that helps you breeze through part creation.

The workpiece and tools can be defined with CAD drawings (p.e. DXF) and tool data.

**2D converter to 3D**

Choose models of the workpiece and tools, etc. from your library of models.

Simulation of the complete work cycle off-line provides an opportunity to improve access and optimize cycle times, without interfering with the production.

A detailed report can be generated with all job information.

Adbendpro generate a complete code program for press brake with the most optimal bending sequence and automatic tool selection.

The press brake operator takes the code program from the network and run the new job.

Adbendpro jobs files can be stored on the regular computer network or it may simply be carried in a external drive to the control.
## Computer Specifications

<table>
<thead>
<tr>
<th>Items</th>
<th>Contents</th>
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</thead>
<tbody>
<tr>
<td>OS</td>
<td>Windows-XP © or Windows 2000 ©</td>
</tr>
<tr>
<td>CPU</td>
<td>Pentium III 1GHz or more</td>
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<tr>
<td>Memory</td>
<td>512MB or more</td>
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<tr>
<td>HDD capacity</td>
<td>40GB or more</td>
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<td>CD-ROM</td>
<td>w1</td>
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<tr>
<td>Monitor</td>
<td>Recommended 17 inch or larger</td>
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<tr>
<td>Video Card</td>
<td>Resolution 1024x768 High color or more; Open GL support Recommended for 3D</td>
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<tr>
<td>Mouse</td>
<td>Microsoft © IntelliMouse</td>
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<tr>
<td>Part</td>
<td>Parallel Printer Port</td>
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<td></td>
<td>USB w2</td>
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<td>Serial w3</td>
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<tr>
<td>Backup drive</td>
<td>Recommended CD-RW or DVD-RW</td>
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<tr>
<td>Printer</td>
<td>Windows XP ©, Windows 2000 © compatible</td>
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*1 Required to install Adbendpro.
*2 USB Port required if no Parallel port is available.
*3 Serial Port required for RS-232C (DNC) output.
* All Copyright and Trademarks are Property of their Respective Owners