

## : Radbend for Autodesk® Inventor®

Offline programming for press brake machines

Radbend is completely integrated within Autodesk® Inventor® and extends Radan's 'Total Solution' concept to include offline programming of a comprehensive range of press brakes.



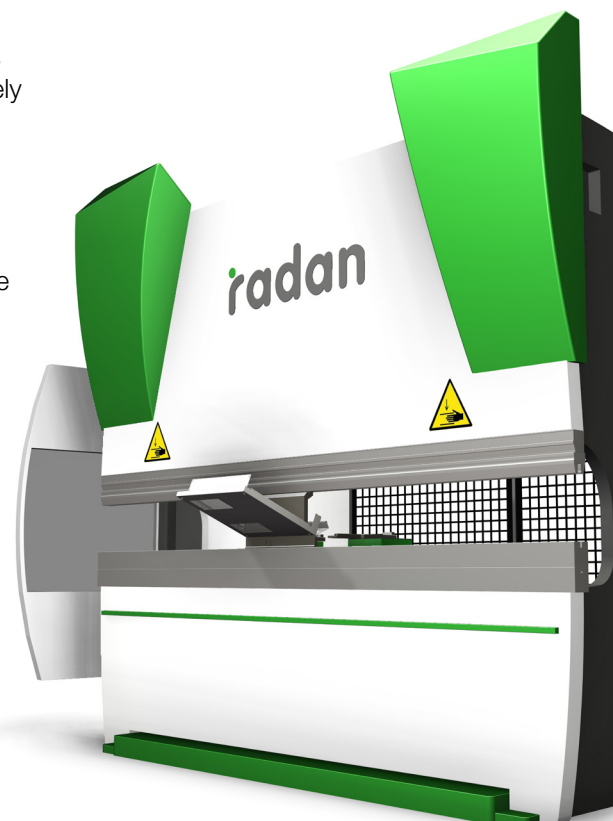
Autodesk® Inventor® is software which takes manufacturers beyond 3D to digital prototyping by giving engineers a comprehensive set of tools for 3D mechanical design, simulation, tooling, visualization and documentation. Radbend is the comprehensive offline programming solution for press brakes. Together, these systems give you a powerful, complete bending solution.

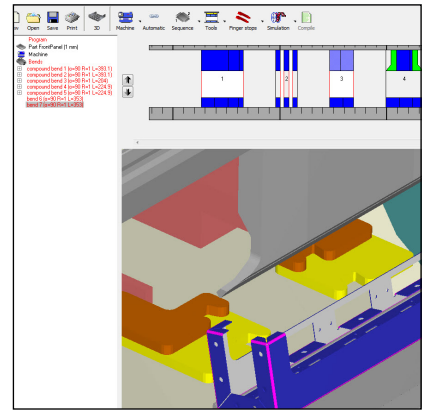
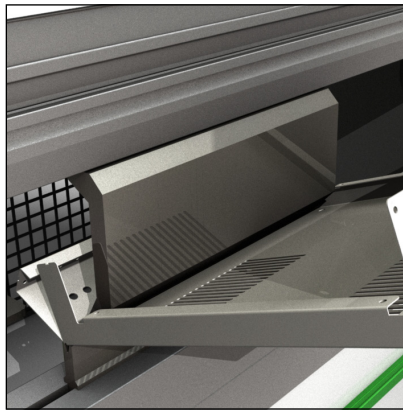
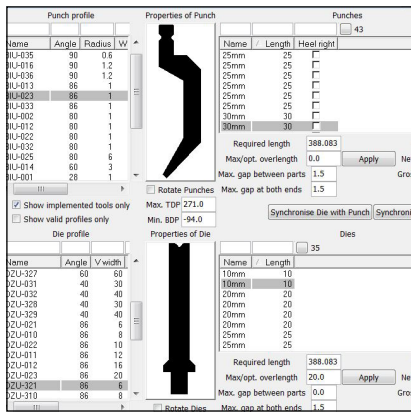
Autodesk® Inventor® can be fully integrated with Radbend. The Radbend Inventor® edition offers a seamless, accurate and intelligent transfer of data between these two powerful programs. Taking your part from Autodesk® Inventor® into Radbend couldn't be easier. Once you are satisfied with your drawing, simply click on the Radbend icon, click on your part, and its associated information gets transferred directly into Radbend.

### With Radbend you can now:

- Select which machine tool you wish to use
- Automatically determine the bending sequence
- Automatically select the tools to bend the material accurately and safely
- Automatically position fingerstops
- Run a full 3D simulation of the bending process, detecting and advising of any collisions and potential problem

All of this is happening offline and within minutes, so your press brake is free to continue doing what it does best .... bending sheet metal!





Radbend enables full and accurate 3D-model simulation of the bending process, including advanced features such as automatic bend sequence calculation, automatic tool selection and automatic finger stop placement, offering simple programming and high productivity.

The ability to program and verify bending operations offline frees up valuable machine time and improves first-off reliability, reducing manufacturing costs. Radbend also eliminates costly mistakes with automatic detection of collisions with both tooling and the machine tool itself.

Radbend is available to provide offline programming and simulation of a wide variety of press brake machinery.

Radbend can create full shop floor documentation or a shop floor viewer and DNC system ensuring access to only controlled data from production office through to shop floor, resulting in a 'right first time' manufacturing approach.

### Advanced automation and tooling

Radbend features high levels of automation. The system examines the part to be programmed and automatically determines a bending

sequence, taking into account part geometry and best machinery practice. In addition, finger stop positions are set automatically to provide reliable positioning.

Radbend's tooling library can incorporate a tooling manufacturer's complete inventory, enabling non-standard tools to be tested and proven on new products before purchase

### Benefits include:

- Reduce downtime through fast and reliable offline programming
- Reduce lead times due to improved efficiency
- Reduce the set up times of machine tool from the availability of manufacturing information
- Fewer design errors, due to the 3D simulation contained within Radbend
- Reducing costly manufacturing errors by making use of collision checking
- Machine independent means that you can easily use Radbend on any of your press brake machine tools

- Open up the press brake to a wider audience of employees
- Improve your production planning. Having the ability to prepare work offline means that the press brake only needs to be used for its purpose of bending metal
- Ensure you are getting the maximum utilisation of your press brake machine
- Right first time approach to manufacturing, reducing bottlenecks at your pressbrake
- Eliminate costly errors by making use of collision checking

### Features include:

- Automated tool selection
- Tool setup optimisation
- Automatic finger stop positioning
- Customisable reports
- Support for lifting aids and angle measurement systems

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