PLASMA

BENDING

ROBO BENDING

BENDING

LASER PUNCHING

PUNCHING

soft
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FROM THE IDEA...
TO REALITY

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BOSCHERT
einfach besser!

THE PROBLEM ■ What you design in not what you produce!

WHY? ■ Because, the unfolding and cutting process does not take under consideration bending parameters (e.g. available tools, tools radius, etc.).

THE SOLUTION ■ BG-soft combines the BG-soft Cut and BG-soft Bend in one unified environment. In this way every aspect of the manufacturing process (bending and cutting) is calculated, thus.

FROM THE IDEA...
TO REALITY

bg soft
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WHAT YOU DESIGN
IS WHAT YOU GET!!

BG-soft bend is an application for programming and simulating Boschert Gizelis press brakes, used for maximizing production resources. **BG-soft bend** enables offline generation of bend sequences and tooling setups, with dynamic 3D simulation for checking collisions of the part with tools, fingers and machine components.

FEATURES
• Direct part transfer from SolidWorks, Solid Edge and Inventor
• Importing and unfolding of IGES and STEP 3D parts
• Automatic and manual tool selection based on material, machine and tool properties
• Automatic and manual bend sequencing with collision detection
• Automatic and manual fingerstop positioning with graphic control of all axes
• Automatic retraction calculation
• 3D simulation of the bending process with collision detection
• Native NC generation enables direct loading of programs to the machine control
• Comprehensive Setup Reports for the machine operator including bend sequence, tooling and bend-by-bend graphics

## ADVANTAGES
BG-soft bend enhances your productivity with:
• Faster design-to-production times with automated features
• Offline programming means minimal machine down-time
• Collision-less bend sequences mean reduced stock wastage
• BG-soft bend tool library is compatible to available tooling resulting in production-ready Setup Reports

3D SIMULATION AND COLLISION DETECTION

EFFICIENT TOOL SELECTION

BEND SEQUENCE SELECTION

FINGERSTOPS POSITIONING
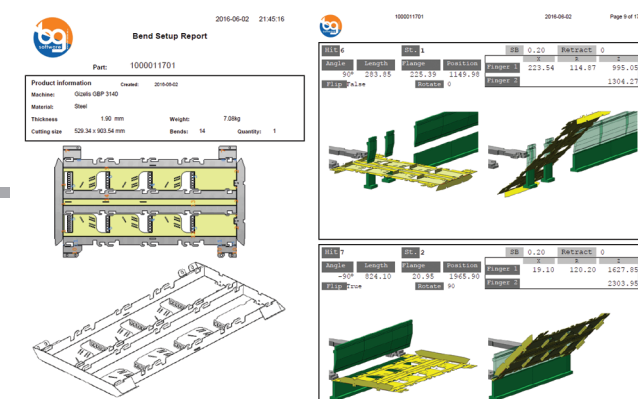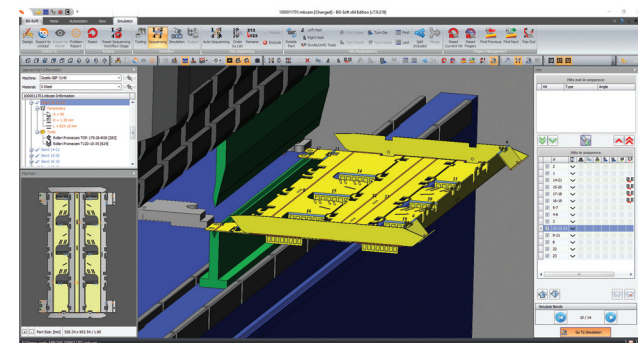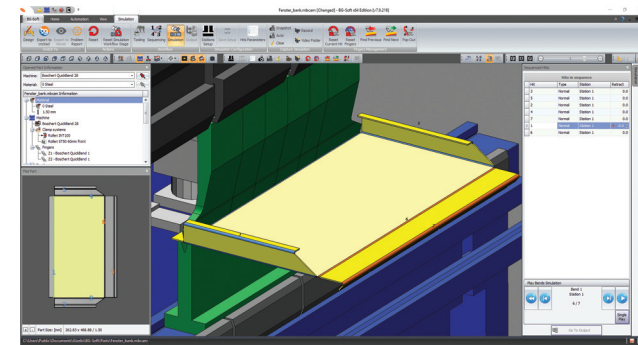
SETUP REPORTS

COMPREHENSIVE SETUP REPORTS INCLUDE:
• Bend sequence instructions
• Tool setup details
• Product handling
• Bend-by-bend graphics

BG-soft cut is the only system that integrates CAD/CAM capabilities in the same module:
Geometry, dimensions and technology (punching/cutting) are completely associative – when the geometry is modified, the dimensions and technology update automatically!

AUTOMATIC NESTING
BG-soft cut offers optimal material utilization with AutoNest – cnc automatic nesting module.
AutoNest is a powerful True Shape nesting tool offering versatile methods for automatic and manual nesting to achieve the best possible nesting solutions.

3D CAD Interface
The CAD Link module enables one-click real-time transfer of parts from 3D CAD packages to BG-soft cut.
Parts can be transferred from SolidWorks®, Solid Edge®, Autodesk® Inventor® , PTC Creo®, and Vertex® G4, using an on-line associative link, bypassing the need for intermediate files such as DXFs.

DRAFTING
BG-soft cut has a very powerful, easy to use 2D drafting module. In addition to a full set of drafting tools, **BG-soft cut** supports special sheet metal drafting aids and geometry validation to automatically detect and correct unclosed contours.

PUNCH TECHNOLOGY
The Punching module supports:
• Auto-Punch
• Special Tools
• Auto-Indexing
• Automatic Reposition
• Common Cuts

CUTTING TECHNOLOGY
The Cutting module supports:
• Auto-Cut
• Contour Check and Correction
• Beam Width definition and Auto Compensation
• Art Parts
• Corner Loops and Corner Slow Down
• Z axis control
• Open Contour Cutting

DATA REPORTS
Detailed production reports for individual parts, nesting solutions and costing estimation, using fully customizable templates with barcode.