



**FROM THE IDEA...**  
**TO REALITY**



**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.

## 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:

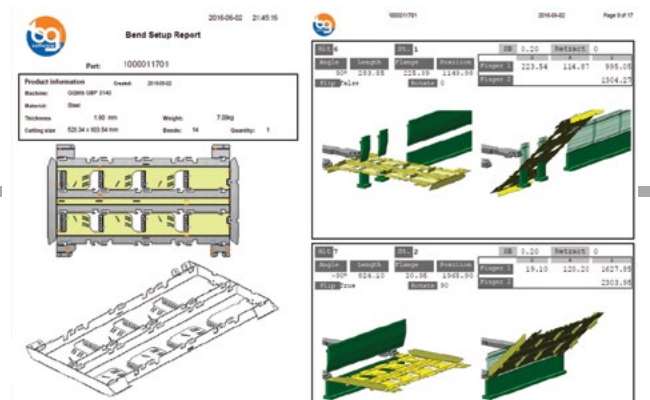
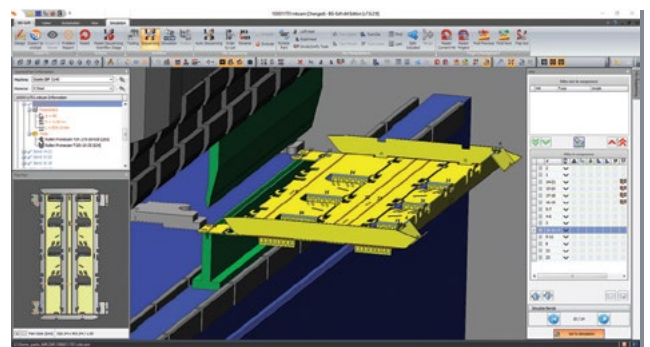
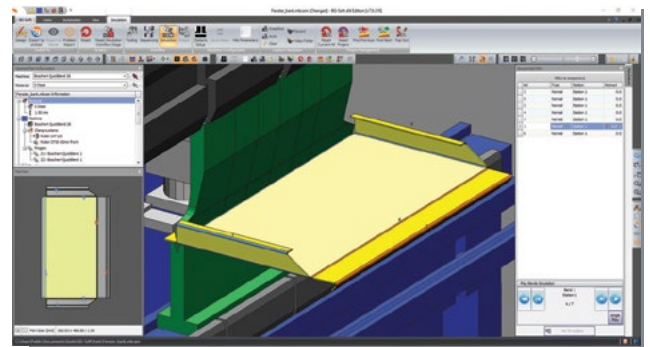
- Faster design-to-production times with automated features
- Offline programming means minimal machine down-time
- Collision-less bend sequences mean reduced stock wastage
- BG-soft bend tool library is compatible to available tooling resulting in production-ready Setup Reports

### 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

# FROM THE IDEA... TO REALITY



**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

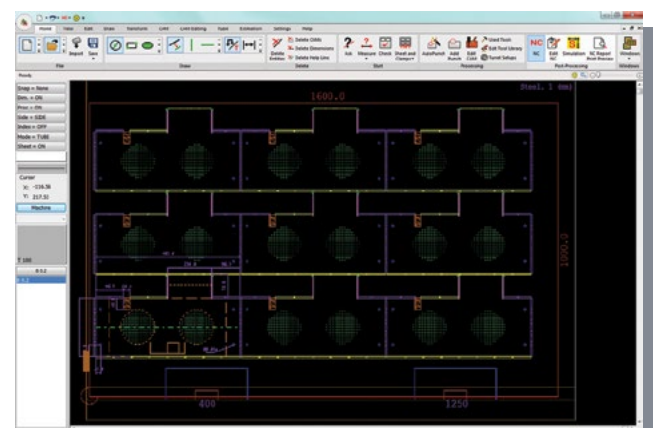
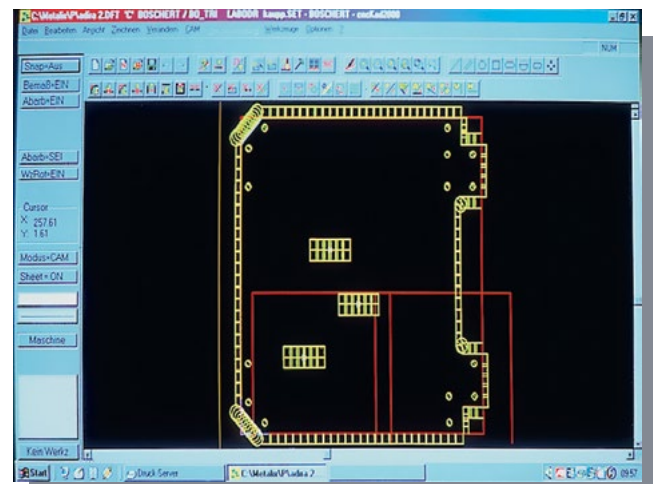
### CUTTING TECHNOLOGY

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.





**PLASMA**



**BENDING**



**ROBO BENDING**



**BENDING**



**LASER PUNCHING**



**PUNCHING**



**BOSCHERT GMBH & CO. KG**

Mattenstr.1  
79541 Lörrach  
T: +49 7621 9593-0  
F: +49 7621 55184  
E: info[a]boschert.de

**GIZELIS S.A.**

Schimatari Viotias, 32009  
Kormatzini Area, Greece  
T: +30 22620 58675  
F: +30 22620 57185  
E: info[a]gizelis.gr