A Cut Above

BlueCell
Optimization and Nesting

Manufacturing Magic

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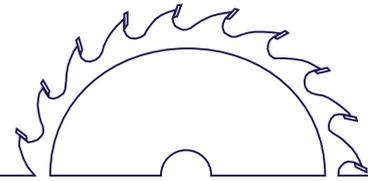
BlueCell is a 21st century optimization, nesting and automation software that is the product of a collaboration of industry veterans, university researchers and professional software developers.

What does optimization or nesting software do?
Optimization and Nesting softwares save manufacturers time & money by ensuring that they get the most out of their raw materials and machinery.

BlueCell uses mathematical algorithms developed by the University of Technology in Vienna, a leading institution in the field of mathematical and computational algorithms, to determine the best position and orientation of parts on raw material(s). The software can explore hundreds of thousands of solutions in just a matter of seconds, producing optimized patterns in a fraction of the time required by other software, or if done manually.
***The Bottom Line: Better results in less time.***

Optimized results can be transferred directly to your panel saws and CNC machining centers via post-processors, which generate cutting instructions for your machines in their own native language. Post-processing eliminates the need for time consuming and error prone manual programming.
The Payoff: A highly-automated, highly-accurate solution for maximizing your material yield and programming your cutting equipment.

Our customers include manufacturers in the cabinet, closet, boat, door, windows, office & residential furniture, institutional, paneling & partitions, cut-to-size, store fixture, glass, metals and plastic industries

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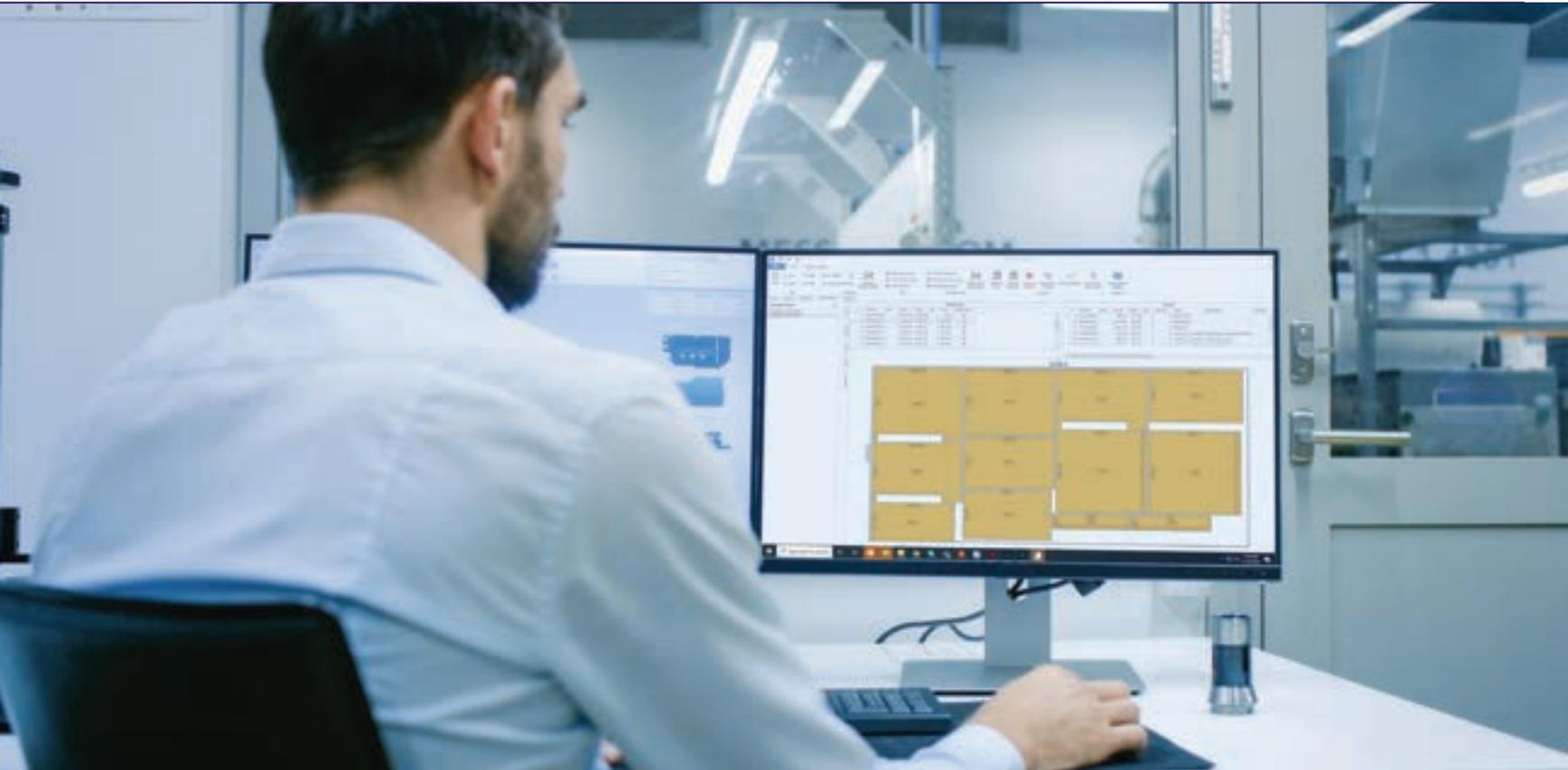
A BlueCell user with patterns for a CNC machining center

Not Just for Optimization and Nesting...

BlueCell is much more than just a mathematical algorithm for creating efficient patterns. Due to its central role and flexibility, many users have implemented BlueCell as a data hub for coordination of their shop floor. For instance, since results can be sent to both beam saws and CNC machining centers, and many shops use a combination of equipment, BlueCell can be instructed to make the best machine selection based on user-definable criteria. Rectangular parts can be sent to a beam saw for primary cutting and secondary machining files are subsequently sent to machining centers to complete the part with drillings, pockets, etc. In addition, If bottlenecks are occurring on the shop floor due to excessive or low capacity, then part processing can be redistributed according to new objectives or requirements.

Other Examples of Enhanced Functionality

- Macro Creator for custom automation and functionality
- Pattern sorting and optimization queue to output results in a user defined sequence
- Cost and labor calculations
- Part priority to either use up or create additional inventory
- Removal of extraneous machinings
- Edgebanding library
- Part quantity multiplication
- CNC strategies: Tool optimization, common line, onion skinning etc.

In addition to beam saws and CNC machining centers, BlueCell can also output instructions to doweling machines, chop saws, sliding table saws, vertical saws, edgebanders, industrial robots, paint applicators and more

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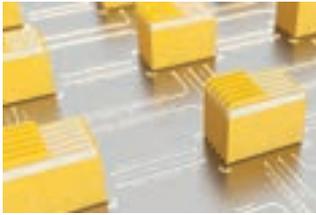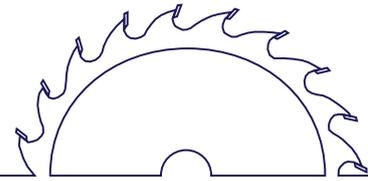
Feature Spotlight

Import Formats
Easily import data from spreadsheets, databases and other sources with user-definable import templates

Pattern Editor
Tweak results to your liking using drag and drop functionality

Grain Formations
Create custom part formations which preserve continuous grain flow

Cost and Labor Optimization
Optimize based on material and labor factors

SQL Database
Data is stored in a SQL database for quick and modern data parsing

Reports
Create virtually any report with built-in MSSQL reporting support

Python Scripting (Macros)
Virtually unlimited customization via an in-built scripting environment

Machine Connections
Output to any make or machine model, not just to those from a single supplier

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Embedded Solutions

BlueCell Embedded allows you to incorporate world-class optimization and nesting features into your in-house software solution or into products destined for resale.

Implementation Examples:

Commercial Websites
- Add BlueCell into a website for online optimization and nesting of cut-to-size orders

Intranet Applications
- For serving a large internal network of users

3rd Party Retail Applications
- Featuring optimization and post-processing

Connected Applications

NEW!

3DBinPacking: Bin, Pallet and Box Packing
Eurosoft products integrate with 3DBinPacking.com™ to provide optimization in 3D space for optimized packing and/or stacking of your products for shipping, storage, etc.

Update

ImPrint: Parts Labeling
Print labels with detailed part information, barcodes, drawings and other images to realize the full potential of automated line processing capabilities

Update

InStock: Inventory and Remnant Management
Save time and money with this powerful software tool for organizing and tracking stock material and reusable remnants on the factory floor in conjunction with your optimizer

Update

SquareOne: Full-Cycle Production Monitoring (MES)
From kitting, to shipping, to on-site installation, an easy-to-use job tracking solution to help you detect problems, meet deadlines and guarantee orders are complete

Framework: Parametric Product Design and Cutlisting
Create product libraries using the flexible assembly, part and machining editors. Use Framework on the front-end for job entry to create a cutlist or use Framework to fill in data "gaps" potentially left by other software such as ERPs

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EURO SOFT

Innovative Software for Manufacturing

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