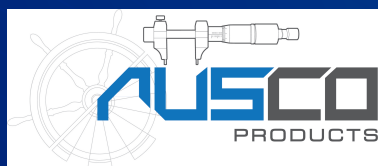


ALL NEW BobCAD-CAM

V31

CAD | MILL | LATHE | MILL TURN | WIRE EDM | BOBART | NESTING | EDITOR



BobCAD-CAM  TM

Whether you're a leading manufacturer or just starting out, BobCAD-CAM has the features, training & support you need to machine better parts **FASTER** and **EASIER**, for **LESS**.

THE NEW BobCAD-CAM

BobCAD-CAM's Version 31 release introduces incredible power on both the CAD and the CAM side of things. We have upgraded the entire customer experience to be more intuitive, modern and efficient. The new user interface reduces many mouse miles!

We have stepped away from the antiquated toolbars, and layered menus of the old Windows applications and breathed new life into the software by integrating a modern, Ribbon-style user interface.

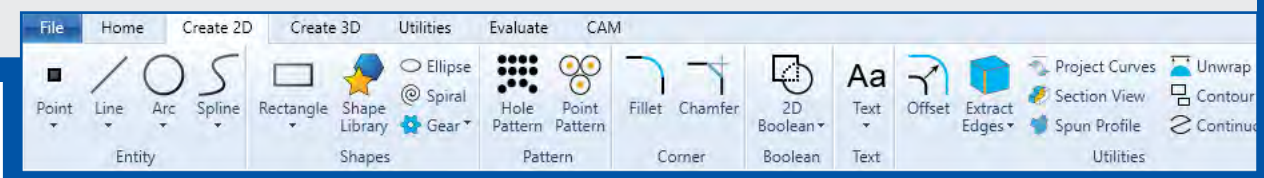
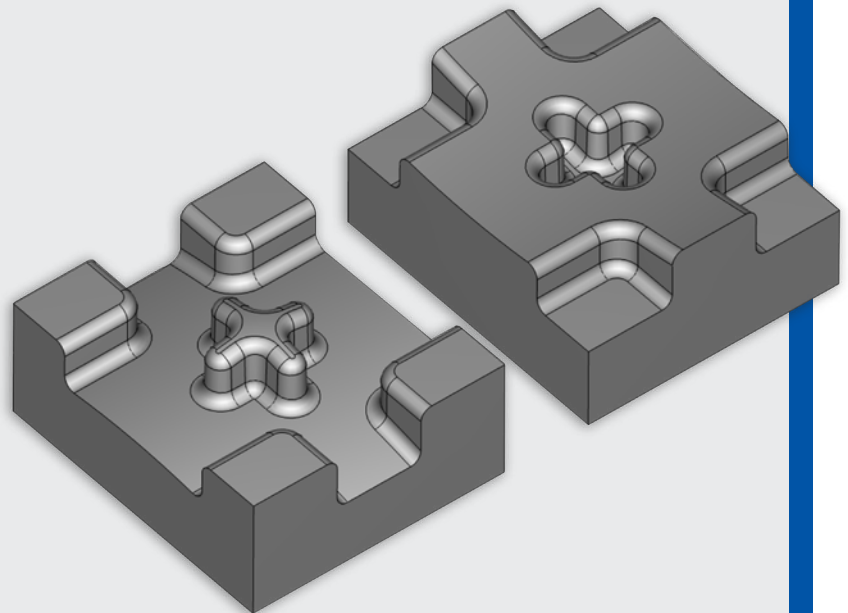
We have upgraded the entire customer experience to be more intuitive, modern and efficient.





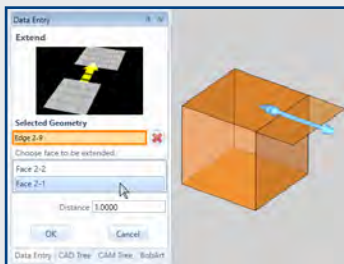
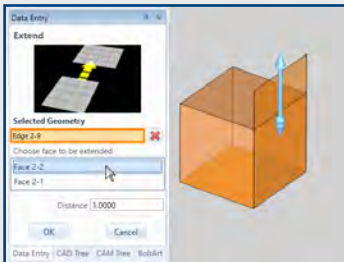
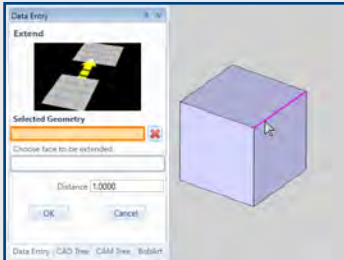
▶ EASY TO USE CAD FEATURES

- Ribbon Bar Interface
- CAD Design Tree
- Dynamic Drawing
- Snap Grid
- Predictive Sketch / Construction Geometry
- Auto Dimension
- Leader Arrow Notes
- Shape Library
- 2D/3D Wireframes
- Multipoint Spline Selection
- 2D Booleans
- Project to Z Plane
- Non-Uniform Scaling
- Section View

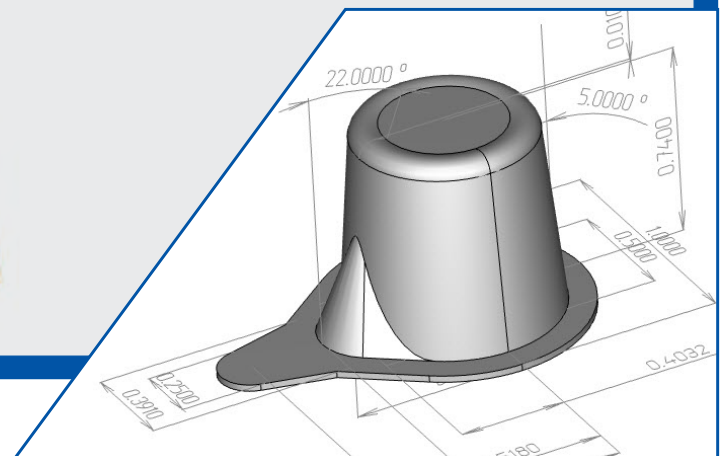
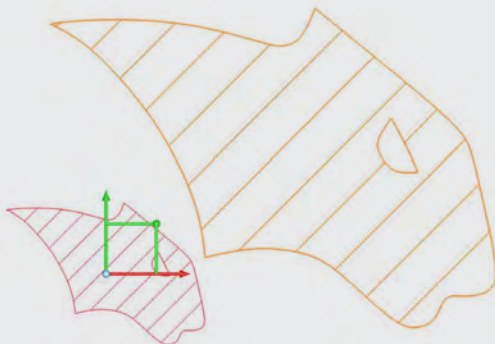




▶ EASY TO USE CAD FEATURES CONTINUED



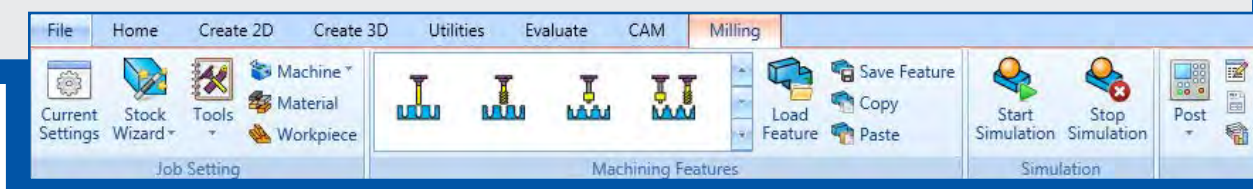
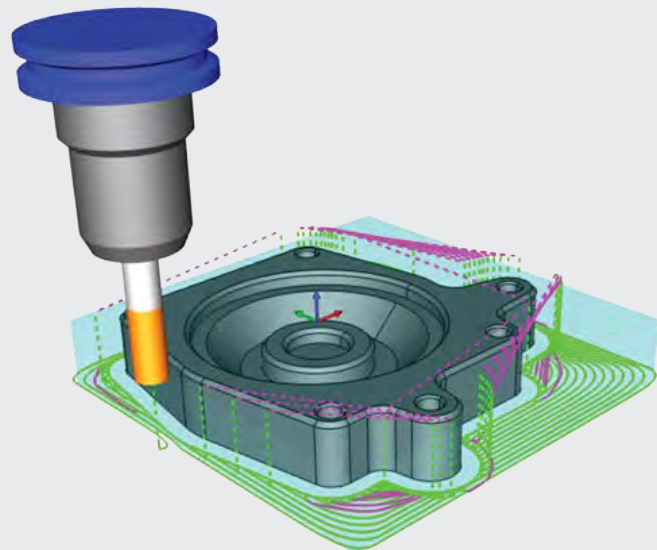
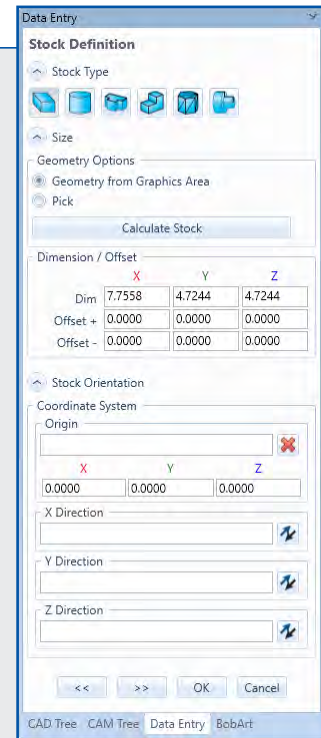
- 2D & 3D Geometry Creation Tools
- Surface Construction
- Solid Modeling
- Solid Boolean Operations & Surface Editing
- CAD Utilities, Translation, Mirroring, Stitching & Unstitching
- Gear, CAMs & Sprocket Design Wizards
- Bolt Hole & Grid Patterns
- Text/Font Features & Complete Part Dimensioning
- Geometry Cleanup & Optimize with Erase Double Entities
- CAD Data Translation & Interoperability





▶ CAM PROGRAMMING POWER

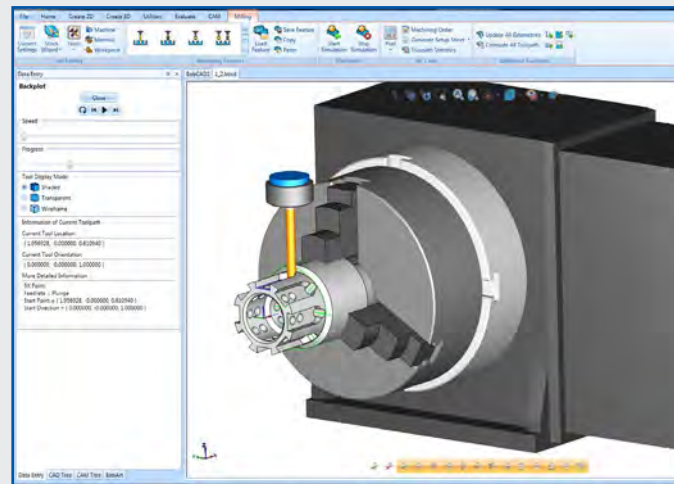
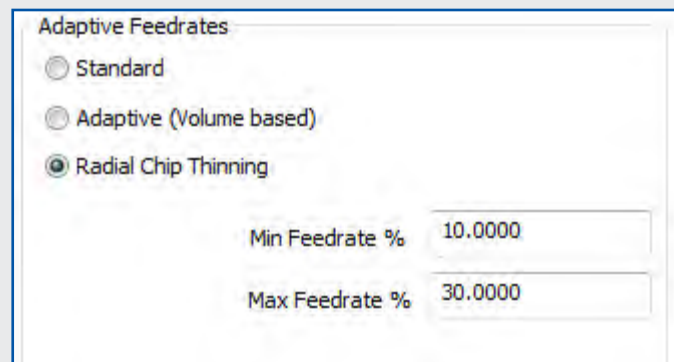
- Tool Crib
- Job Setup Wizard
- CAM Wizards
- Advanced Tool Patterns
- Dynamic Machining Strategies™
- Copy & Paste Operations
- Toolpath Statistics
- Toolpath Editor
- Toolpath Groups
- Locking Toolpath Features
- Geometry Selection Manager
- Customizable Setup Sheets
- Stock Wizard
- Multiple Machine Setups
- Material Speed & Feed Library





▶ CAM PROGRAMMING POWER CONTINUED

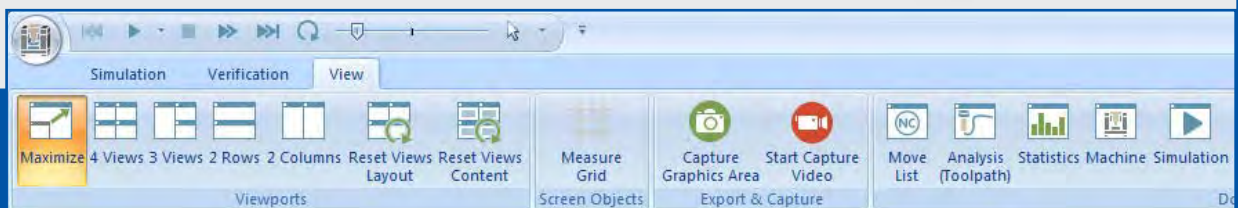
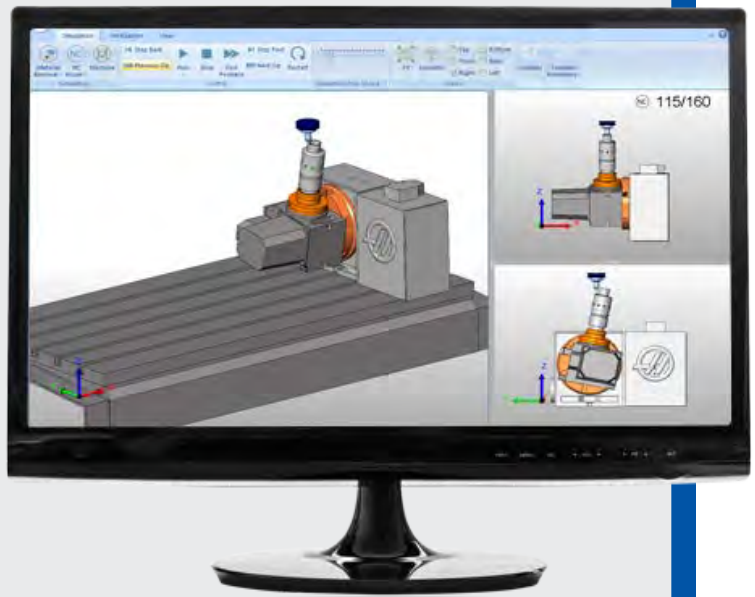
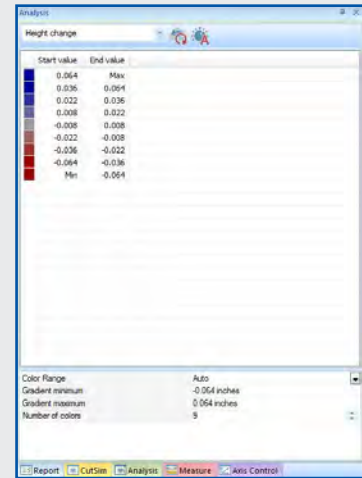
- Tool Holder Library
- Individual & Compound Drilling Operations
- Tool Database
- Material Based Calculated Speeds & Feeds
- Independent Lead In/Out Control
- Ability to Save & Load Features
- 3D Simulation
- Work Offset Selection
- Coolant Selection
- Sub Program Output
- 3D Arc Fit – G17, G18 & G19 Plane Cutting
- Transform Plane & Coordinate Rotation
- Origin Tracking
- Associative CAM Tree
- Backplot
- Update All Geometry
- Advanced Feedrate Mapping, Volume and Chip thinning





▶ SIMULATION CAPABILITIES

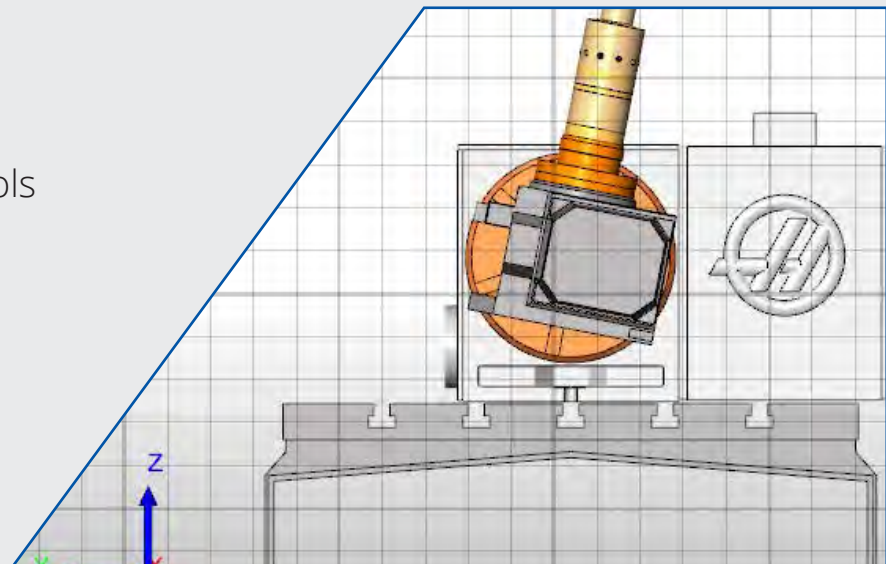
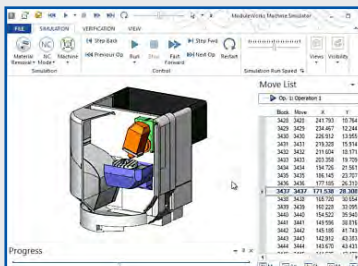
- Set Travel Limits & Detect Over Travels
- Use Machine Kinematics
- Detect Part Gouges Against Your Tool, Tool Holder and Machine Components
- Calculate Cycle Times
- Dynamic Machine/Material/Tool Viewing
- Section View/Smart View
- Multi Window Simulation
- Toolpath Section Viewing
- Measure Grid
- Zoom Window
- Show Previous View
- Tool Holder, Shank Arbor
- Tool Focus/Workpiece Focus





▶ SIMULATION CAPABILITIES CONTINUED

- Analysis – Tool Number, Operation Number, Deviation, Height Change, Orientation Change, Toolpath Length, Mark Parts, Single Marking, Gouge Excess
- Statistics (Move, Operation, Sequence) – Feed Rate Time, Rapid Time, Change Tool Time, Total Machine Time, Min/Max XYZ, Feed Rate
- Dynamic Elements/Workpiece & Holder Tree
- Deviation Analysis
- Move List
- Simulation Play Controls
- Video Capture
- Toolpath Mode/Material Mode
- Time Based Mode/Length Based Mode
- Save Simulation Models as STL
- Measure Between 2 Points
- Remove Chips
- Works With STL Stock
- Customize Graphics & Background



EXPRESS
3 AXIS STANDARD
3 AXIS PRO
3 AXIS PREMIUM
4 AXIS STANDARD
4 AXIS PRO
5 AXIS STANDARD
5 AXIS PRO

2.5 AXIS TOOLPATH

• Profile	•	•	•	•	•	•	•	•
• Pocketing	•	•	•	•	•	•	•	•
• Rest Roughing	•	•	•	•	•	•	•	•
• Engraving	•	•	•	•	•	•	•	•
• Thread Milling	•	•	•	•	•	•	•	•
• Plunge Roughing	•	•	•	•	•	•	•	•
• Facing	•	•	•	•	•	•	•	•
• Chamfering/Corner Rounding	•	•	•	•	•	•	•	•
• Drilling & Tapping	•	•	•	•	•	•	•	•
• Drag Knife	•	•	•	•	•	•	•	•
• Morph Spiral		•	•	•	•	•	•	•
• High Speed Adaptive Pocketing		•	•	•	•	•	•	•

3 AXIS TOOLPATH

• Planar	•	•	•	•	•	•	•	•
• Spiral		•	•	•	•	•	•	•
• Radial		•	•	•	•	•	•	•
• 3D Plunge Roughing		•	•	•	•	•	•	•
• Z-Level Roughing		•	•	•	•	•	•	•
• Z-Level Finishing		•	•	•	•	•	•	•
• Advanced Z-Level Finish			•	•	*	•	*	•
• Project Curves			•	•	*	•	*	•
• Advanced Planar			•	•	*	•	*	•
• Advanced Roughing			•	•	*	•	*	•
• Flatlands			•	•	*	•	*	•
• Equidistant Offset			•	•	*	•	*	•
• Pencil			•	•	*	•	*	•
• High Speed Adaptive Roughing			•	•	*	•	*	•
• Rest Machining			•	•	*	•	*	•
• Morph Spiral			•	•	*	•	*	•
• Offset In/Out			•	•	*	•	*	•

SURFACE BASED TOOLPATH (3, 4, & 5 AXIS OUTPUT)

• Flowline				•	*	•	*	•
• Parallel Cuts				•	*	•	*	•
• Cuts Along Curve				•	*	•	*	•
• Morph Between 2 Curves				•	*	•	*	•
• Parallel to Multiple Curves				•	*	•	*	•
• Project Curves				•	*	•	*	•
• Morph Between Surfaces				•	*	•	*	•
• Parallel to Surface				•	*	•	*	•

4 AXIS TOOLPATH

• Indexing				•	•	•	•	•
• Wrapping				•	•	•	•	•
• Rotary				•	•	•	•	•

5 AXIS TOOLPATH

• Trimming							•	•
• Indexing							•	•
• Swarf Machining								•
• High Speed Multiaxis Adaptive Roughing								•
• Rest Machining								•

TURNING TOOLPATHS

- OD/ID Roughing
- OD/ID Finishing
- OD/ID Grooving
- Drilling
- Threading
- Cut Off With Chamfer & Fillet
- Corner Break Options
- Stock Feed
- Pattern Repeat Cycles
- Auto-Assignment of Finish Passes
- Tap

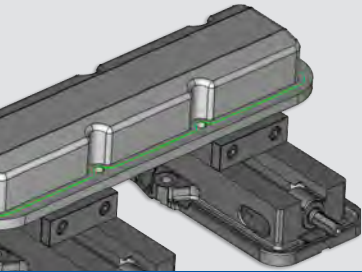
DRILLING TOOLPATH

- Center Drill
- Drill
- Chamfer Drill
- Chamfer Mill
- Ream
- Bore
- Tap
- Rolling Tap
- Counterbore Drill
- Counterbore Mill

MATRIX LEGEND

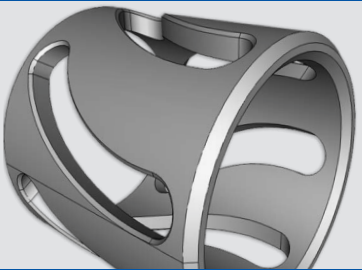
- Included
- * Requires 3 AXIS Pro or Premium & Above

MILL



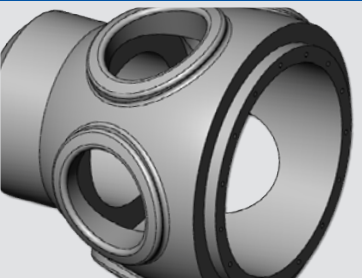
Loaded with the latest in cutting edge CAM functionality, BobCAD-CAM combines ease of use and efficient 2.5 & 3 axis toolpath strategies. BobCAD Delivers the speed and power shops need to program faster, reduce cycle times and extend tool life.

MULTIAXIS MILL



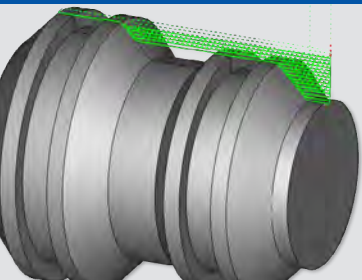
For 4 & 5 axis jobs, BobCAD-CAM simplifies complex toolpath programming and makes it easy to control the tool motion, tool axis and position of the workpiece so you're able to cut your parts exactly how they need to be cut. BobCAD delivers the speed and power your shop needs to program faster, reduce cycle times and extend tool life.

MILL TURN



For fast and easy programming of CNC mill turn machines, the BobCAD-CAM Mill Turn module combines all of the available milling, turning and drilling toolpaths into one simplified multitask machining solution. With it, you can program your C, Y & B axis cutting movements on anything from single-turret/single-spindle setups to multi-turret/multi-spindle configurations.

LATHE



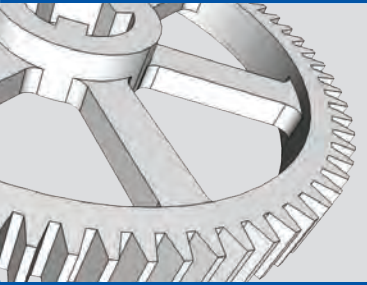
Designing and programming jobs for your CNC turning centers has never been easier. The new, completely rebuilt Lathe system gives you the power to quickly create efficient toolpaths for all of your roughing, finishing, threading and grooving operations.

NESTING



This advanced nesting system allows you to achieve a higher per job profitability via improved sheet yields and reduced waste. The powerful true shape nesting engine and intelligent sheet optimizers run your job through up to 102 trials to deliver the best possible part placement.

WIRE EDM



A complete wireframe, surface and solid modeling CAD-CAM system that delivers ultra precision cuts with superior finishes in an easy to use CNC programming software. It allows you to create and import part models, assign wirepath strategies, simulate and generate g-code specific to your wire machine & controller.

BOBART



Transform logos, images and other artistic design elements into geometry that can be used to create toolpath for embossing, engraving and much more. It's the perfect add-on for sign makers, custom woodworkers, jewelry designers, mold makers and musical Instruments.

MACHINE SIMULATION PRO



Test and confirm that every move inside your CNC is collision-free. Using Machine Simulation Pro to add machine components to your simulations, you're able to prove out position values, fixture locations and verify that your machine, table and fixtures have the necessary clearances to avoid potentially costly crashes.

FIRST-CLASS TRAINING & TECH SUPPORT

Training Solutions

- > On-Site Training
- > In-House Training
- > Seminars
- > Online Training

Live Tech Support

8:00 am – 7:00 pm EST M-F

Online Documentation

Available 24/7

Forums

Connect with BobCAD-CAM community to ask questions and share tips & tricks.

SYSTEM REQUIREMENTS

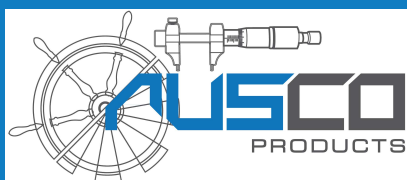
Visit:

<http://bobcad.auscoproducts.com.au/system-requirements/>

to review the system requirements for BobCAD-CAM

AVAILABLE IN

English | Spanish | Turkish
Japanese | Portuguese | Russian



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