Easily program your 2D & 3D parts!

BobCAD-CAM milling software delivers the functionality you need to program everything from simple engraving, profile, pocket and hole cycles, to complex simultaneous 4 & 5 axis milling routines. It incorporates a full range of sophisticated, efficient and modern machining strategies through a simple wizard-driven interface that makes programming quicker & easier, even for new and occasional users. Dynamic Machining Strategies™ minimize your programming while advanced solid simulation lets you test and confirm your work, giving you confidence in your part programming.

FEATURES:

**Feature Based Job Tree**
The best of both worlds come together in BobCAD's CAM Tree, Operations and Features. BobCAD's machining features gives users the ability to create single operations per feature or to customize multiple operations tied to a single feature. This flexible programming workflow eliminates redundant tasks required in operation only CAM Trees.

**Hole Making**
2, 3, 4 and 5 axis hole making is simple with BobCAD's intuitive hole making wizards. Choose from Standard Drilling, Cross Drilling, or Multiaxis Drilling. Select points, arcs or solid models to define hole locations, sizes and depths. Users can quickly Spot, Drill, Tap and Counterbore with a single machining feature. Post your holes in separate moves or canned cycles.

**3D Milling**
Simple or Complex BobCAD's got you covered with up to 21 machining strategies that tackle the most difficult of projects. Advanced features to control where toolpath is created, what it avoids and it's feedrates. Superior surface finishes is what you expect and BobCAD delivers!

**Backplotting**
Display your tool and holder as you step through or play your toolpath operation. Rapid graphical feedback for direction of cut, tool hangout, sequence, cutter location, tool orientation and more.

**5 Axis Milling**
True, full-featured simultaneous toolpath strategies for advanced multiaxis part programming. Controlling tool tilt, avoid areas, feed rate mapping and much more that unlocks the full potential of your 5 Axis CNCs. Table Table, Head Table, Head Head 5 axis machine configuration with advanced posting feature to support Machine Comp in Z, Machine Hybrid compensation RTCP, TCP, TCPC, DWO, Origin Tracking and coordinate rotation.

**Reporting**
Documenting your programming process with live feedback as you fine tune your toolpath features are available in many forms. CAM Tree Flyouts, Setup Sheets, Tool Assignment, Gouge and Collision reports, Move Operation and Sequence statistics: All created automatically and easily accessible at any stage of machining.

**CAM Tree Flyouts**
Top level editing and display of critical parameters of the Job, Tools, Stock, Machine Setup, Features, Operations and more. Faster edits and quicker display of those settings user want to see or change most.

**Advanced Feedrates**
Multiple feedrate adjustments and mapping to optimize tool motion. Eliminate dog leg moves, slow down material entry exit and link moves, volume based, radial chip thinning, surface radius and tool contact feed optimization, feed control zone and more!
Job Tree Templates
Maximize your shop's programming efficiency by saving a Job Tree as a template. Allowing users to shortcut programming by pre-populating the Job Tree with stock, setup locations, machining features and more. Faster programming for in-house processes or dedicated machining centers and applications.

CAM Libraries
Our CAM libraries aid the everyday machinist by storing and providing quick access to programming critical data. Create new, edit and call from the Tool, Holder, Adapter, Thread or Material libraries.

2D Milling
Offering a wide variety of powerful operations for 2D / 2.5D cycles. Work from wireframe sketches, surface edges or faces. More powerful and efficient than conversational programming. Capture and reuse machining processes on future projects to reduce overall programming time, while working directly on user created or customer supplied CAD files.

4 Axis Milling
Indexing, Wrapping Groups, Rotary, Advanced Rotary and True 4 axis are all fully supported. Get the most out of your machine when using your 4th axis with BobCAD.

Simulation
Get a real view of what's happening on the machine before you ever cut a chip. BobCAD's solid simulation is loaded tools to validate your machining process, gouge check, find left over stock and much more.

Fixtures
Virtual simulation of your setup and workpiece is standard in BobCAD CAM V32, select display and avoid fixtures gaining better control and confidence in your part programming.

Adaptive Toolpaths
High efficiency, high speed and highly used by manufacturers all over the world! Adaptive toolpaths are quickly becoming the standard for 2, 3, 4 and 5 axis roughing. Reduce your cycle times, extend tool life and minimize wear and tear on your equipment with this modern toolpath strategy.

Cycle Time Estimates
Process planning, quoting or scheduling? Use BobCAD’s Toolpath statistics and get detailed automatic reports about: Time Data, Toolpath Extents, Toolpath Data and Speed and Feeds.

Toolpath Editor
Fully customize your toolpaths for unique or challenging scenarios. By deleting, trim and relink, move, replace, break, modify attributes or extend cut moves. Users can directly modify their toolpaths outside of the toolpath wizards parameters.

Toolpath & Workoffset Patterns
Toolpath & Workoffset Patterns Create multiple copies of machining features or setups using either a toolpath or workoffset pattern. Post copies in long code or with multiple work offset locations (G54, G55, G56). Great for production with 2 or more same part workoffset locations.