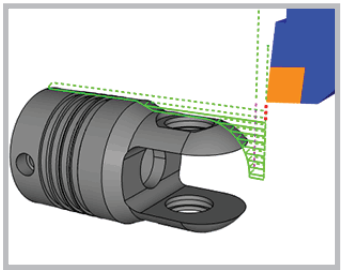
BobCAD-CAM™

MILL TURN

CNC programming for mill turn has never been this easy!

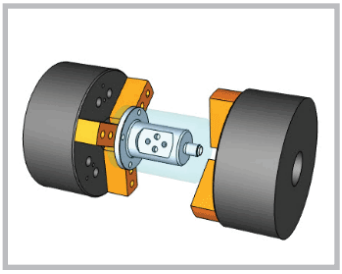
Spend more time running parts and less time programming with BobCAD's Mill Turn CNC software for Live Tooling lathes that use C-axis. Use your main or sub spindle, upper or lower turret, part catcher, tails stock, Y-axis and more with our standard Mill Turn package. BobCAD's simple wizard-driven interface makes programming quicker and easier. 5-axis turning centers that use a B-axis (Milling head) are fully supported, allowing for complex multi-tasking machines with up to 10 turrets and 10 spindles. BobCAD-CAM gives you the control to easily program intricate features and compound angles found on parts for medical, aerospace, oil & gas, automotive, consumer products and many more.

FEATURES:



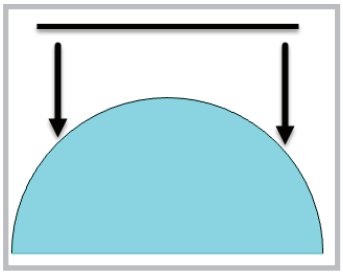
Turning

Multiple turning cycles to rough & finish your parts with options that go beyond traditional canned cycles commonly available on cnc controls. Advance features that minimize geometry editing, limit and control toolpath.



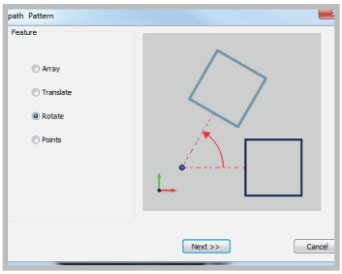
Multi-Spindle & Turrets

Programming on your main or sub-spindle with your upper or lower turret using BobCAD's submachine / work-groups. Supporting up to 10 spindles and 10 turrets.



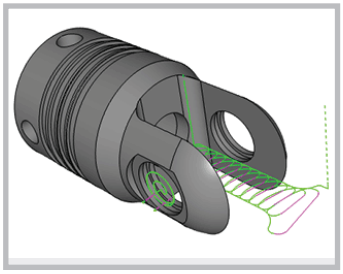
Wrapping Groups

Machine features into the outside diameter of your parts using wrapping groups. Programming with the C axis your tool will be pointed to the axis of rotation. Great for engraving, pockets, slots and more.



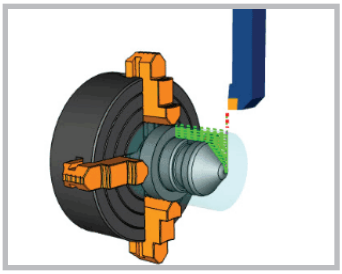
Toolpath Patterns

Reduce your programming time by creating patterns. Allows users to shortcut programming by making copies of machining features where multiple instances occur.



2D/3D Toolpaths

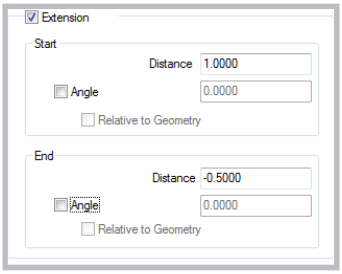
Expand your capabilities beyond on board programming cycles when utilizing the full suite of toolpath operations available. Complete 2D and 3D toolpath strategies for roughing, semi finishing and finishing using the same workflow as traditional milling.



Backplot

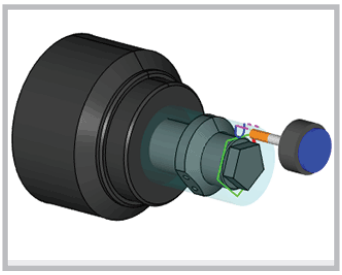
Display your tool and holder as you step through or play your toolpath operation. Rapid graphical feedback for direction of cut, tool hangout, sequence, cutter location, tool orientation and more.

FEATURES CONT:



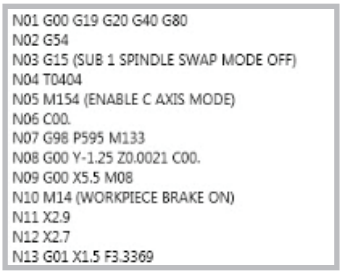
Active Chuck Jaws

Chuck configuration is now available where users can define the chuck and jaws by input or STL files. Jaws will open and close on your part / stock geometry. Visually check chuck jaws for collisions, spinning or if they are properly clocked for part transfers.



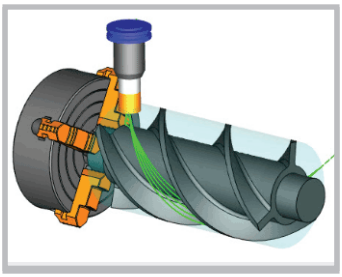
Face Milling

Program machining features on the end of your part like you would with a typical milling center. Drill, Tap, Profile, Pocket, Engrave, Edge break and more. Use long code , Y Axis or polar to match the code output that's optimal for the operation and control capabilities.



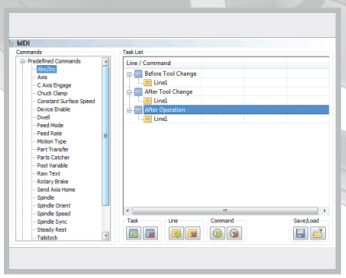
Post Processing

Mill Turn packages require machine specific post processors. Our posting team will build you a custom post processor based supplied samples and machine kinematics. Special functionality can be added using the post processors API, developed in-house or through BobCAD's posting services.



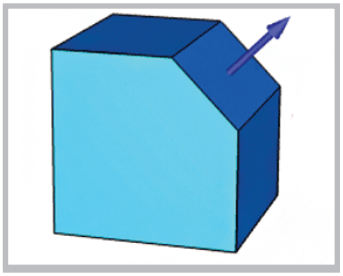
4/5 Axis Toolpaths

Advanced simultaneous cutting strategies for expert programming of Multi-task / Milling Head configured machines. Program complex models that require True 4 or 5 Axis. Control tool tilt, run of the tool, angle range limits and more.



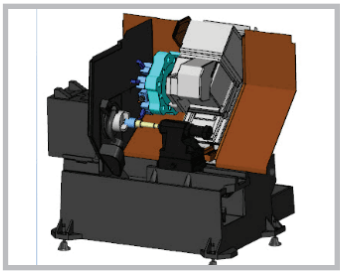
Custom Code Blocks

Why edit your g-code programs after posting to insert special blocks of code when you can use MDI right within the toolpath wizard? Users can add custom or saved blocks of code before & after tool changes or at the end of operations. Used to control turret location, part catchers, steady rests, part transfers and other auxiliary functions.



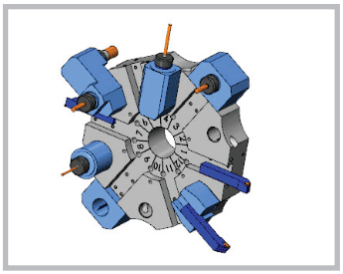
Index Systems

Use index systems to align tool orientation (clock the part) for your Y axis programming. Once an index system is established you can use both 2D and 3D toolpath machining features.



Machine Simulation

Use 3D models to display a "virtual machine" and its components in simulation. Reduce setup time and programming errors by detecting collisions, over travels and more. Find and resolve issues before you ever get out to the machine.



Tool Crib

The Mill Turn tool crib is used to establish, modify and configure your turret with tools, holders, adapters and their mounting orientation. Quickly rearrange configurations by unmounting or moving tool assemblies from one station to another. Use the shelf to store commonly used tools that are not currently in use. Save complete turret configurations for future projects.