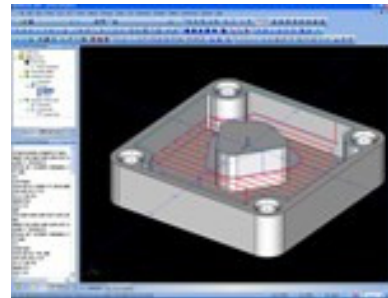
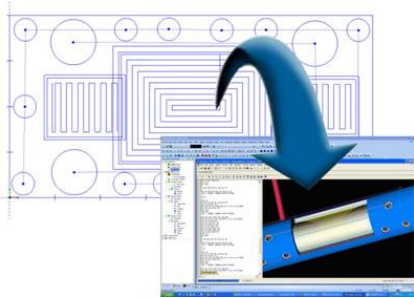


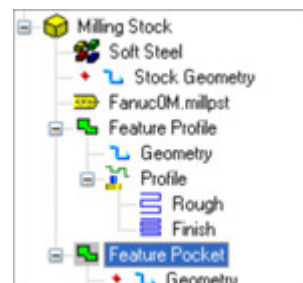


BobCAD V23 brings you a wide range of major enhancements and smarter automation in machining technology just as a start. The look and feel is easier to work with and raises the bar in CAM intelligence and functionality. V23 has introduced powerful and easy-to-use 4th Axis functionality for indexing, profiling and machining contours in the rotary axis.



V23 provides you with advanced CAD design capabilities for editing imported files or constructing parts from beginning to end, using free-form surfacing operations and solid modeling technology the easy way. From 2D geometry construction, print making and part dimensioning to model editing and complex part design. V23 is capable of helping you make edits on the fly and allowing you to meet your design requirements fast.

- Text & Geometry Projection
- Surface & Solids from Text
- Geometry Verification
- Geometry & Solids Editing
- Part Dimensioning
- Spline Construction
- 2D & 3D Wireframe Construction
- Free-Form Surface Creation
- Primitive Solids for Modeling
- Hole Pattern & Gear Construction
- Solid, Wireframe & Transparent Viewing
- Layer & User Coordinate System manager
- File Import: SolidWorks .sldprt, AutoCAD .DWG, DXF, RhinoCAD .3dm, IGES, STEP, STL, SAT, Parasolids X_B & X_T & .cad (BobCAD V21 files).



NEW CAM TREE

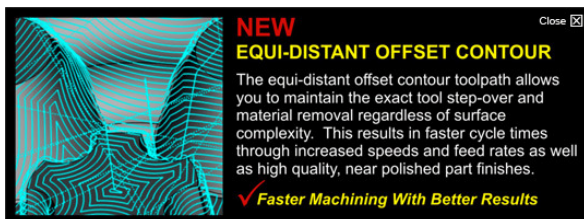
BobCAD-CAM V23 now offers a CAM Tree for creating and managing your programs. The system offers Associative Toolpath functionality that enables the user to create a complete job and make changes on the fly without having to start from the beginning. Just make the changes and update the Job Tree. This includes special functionality for posting. BobCAD have made vast improvements in the intelligence of the system that provides the ability to build or pre-define actual machining operations and combine operations into features rather than have to do them separately.

- New Profiling
- Cross Posting
- Solid NC Verification
- User Definable Drilling job sets
- New Facing Operations
- Tool Library
- New Offset Pocketing operations
- Job Tree - Job Management
- View & Define Stock
- Program by Tools or by Features
- Reorder Machining in the Job Tree
- DNC & Communications
- Customizable cutting conditions for materials.

V23 ProMILL

The BobCAD-CAM V23 PRO upgrade gives you a substantial advantage in 3D Machining Technology. The New advanced 3D toolpath & machine features allow you to reduce cycle times and produce a higher quality finished part, such as:

- Z-Level Roughing & Finishing toolpath
- Equal Distant Offset Contour Toolpath.
- Z-Level Toolpath Controls



The NEW V23 Lathe system

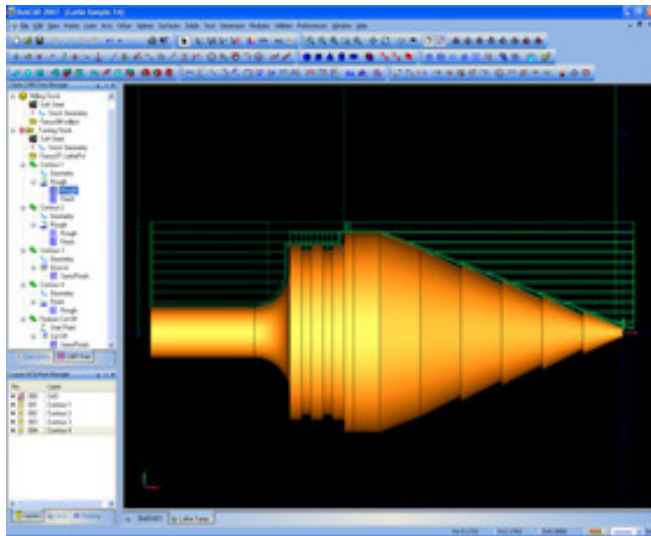
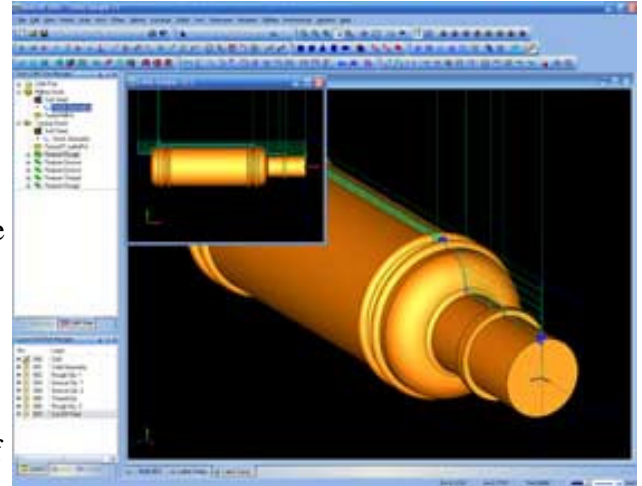
The NEW 2 Axis Lathe system offers powerful machining features while giving you control over writing NC programs the easy way.

COMPLETE PART MODELING

V23 Lathe gives you powerful & easy to use design features for wireframe or solids. BobCAD-CAM integrates with your existing CAD system for bringing in DWG, STL, DXF, IGES, SolidWorks and many other file formats that can all be machined directly once inside the BobCAD-CAM software!

DATA/CAM TREE MANAGER

V23 Lathe provides you full control over machining operations. Multi-operation jobs become simple, allowing you easy analysis of cutting paths and many other attributes such as tool orientation and cutting direction control.



POWERFUL MACHINING




V23 Lathe includes complete roughing & finish contouring. Control finish quality easily with user defined feed rates using CSS or RPM variable. Complete Internal & external Threading, Peck drilling and boring as well as smart roughing for inside and outside diameters.

ASSOCIATIVE TOOLPATHS

Our associative toolpaths give you on the fly editing capabilities. Regardless of changes to the geometry or machining strategy, you will never have to start over when you don't need to!


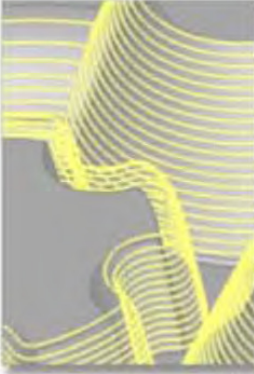


COMPARE

What's Different about the NEW V23 Software

	V21 CAD/CAM	V23 CAD/CAM
General Graphics Enhancement (OpenGL) Interface		✓
 Wireframe Viewing for Solids	✓	✓
Natural Rendered Part Viewing		✓
Translucent Model & Stock Viewing		✓
CAD Data Manager		✓
Layer Manager		✓
User Coordinate System (UCS) Manager		✓
CAM Tree / CAM Manager		✓
Improved External File Compatibility	✓	✓
 DXF File Support	✓	✓
IGES File Support	✓	✓
AutoCAD DWG File Support	✓	✓
SolidWorks .sldprt File Support	✓	✓
Parasolids X_B/X_T File Support	✓	✓
SAT File Support	✓	✓
STL File Support		✓
RhinoCAD 3dm File Support	✓	✓
CAD Design	✓	✓
 2D & 3D Wireframe Geometry Construction	✓	✓
Hybrid Modeling & Surface Construction	✓	✓
Enhanced Solids Editing Utilities		✓
Solids Fillet, Taper, Extrusion & Chamfer	✓	✓
Copy, Paste, Translate, Mirror & Rotate	✓	✓
Part Dimensioning	✓	✓
Measure & Verify Geometry	✓	✓
Text to Surface Projection	✓	✓
Optimise Geometry & Erase Double Entities	✓	✓

COMPARE

What's Different about the NEW V23 Software

		V21 CAD/CAM	V23 CAD/CAM
General Feature Driven CAM			✓
	Fully Associative Toolpaths		✓
	Tool & Material Database		✓
	Cutting Condition Tables		✓
	Re-Sequencing of machining Operations		✓
	Manual Toolpath Editing	✓	
	Automatically Calculated Speeds & Feeds		✓
	3D Cut by Region or By Area Option		✓
	3D Automatic Hole Avoidance for models	✓	✓
	Machine Part by Cutting Feature or By Tool		✓
	Toolpath Cutting Operations		✓
	Profile Milling	✓	✓
	Pocket Milling	✓	✓
	Face Milling		✓
	2D & 3D Engraving		✓
	Multi-Operation Drilling		✓
	3D Slice Planar	✓	✓
	3D Slice Radial	✓	✓
	3D Slice Spiral	✓	✓
	3D Z-Level Roughing		✓
	3D Z-Level Finishing		✓
	3D Equal-Distant Finishing		✓
		✓	
Simulation & Posting			✓
	Predator Virtual Simulation (Built-In)		✓
	Automatic Posting & Cross Posting		✓
	Predator DNC (Built-In)		✓