

## BobCAD-CAM Hobby V17

### CAD Features

BobCAD Version 17 has an easy to use and understand CAD interface that will allow you to design your parts from beginning to end quickly. Version 17.0 will allow you to import DXF or IGES files from external CAD systems, verify geometry and edit your drawings on the fly by using a wide range of simple CAD functions. Toolboxes have been added to make access to frequently used CAD functions easy and fast. Whether you import the CAD file or draw it in the 17.0 system, you have the ability to create custom prints with full part dimensions as well. Basic functions include working with Splines, Radii through points, Line, Point and ARC menus, gears, bolt hole patterns, mirroring and translating geometry as well as unlimited undo/redo and working with layers just to name a few. Viewing your parts, rotating 3D geometry and verifying all of your part data has been made easy all the way down to being able to choose the drawing colors or screen background of your choice.

#### Additional features include:

- Mirroring/Translating & Rotating
- Unlimited Undo/Redo, Cut, Copy & Paste
- Part dimensioning
- Multiple part viewing and rotation
- Drawing with Points, Lines, Arc's, Splines, Fillets and more
- Verify Geometry, Trim Geometry & layer functions
- Special drawing & editing toolboxes

### Milling

BobCAD17 is being used in a wide variety of shops for a wide variety of applications. This is due to the versatility of the program, customizable CAM menus, multiple cutting options and its ability to create fast accurate toolpaths and NC Code. Whether you're doing 2D work or creating complex 3D part programs, BobCAD 17 allows you to generate accurate toolpath faster, easier and for less. Customizable machine configurations and CAM drop down menus, make it workable with just about every G-code based controller in the world.

#### Milling features:

- 2D Profiling Drilling/Boring
- 3D Profiling Engraving
- Pocketing Auto Z roughing 2D
- Hatching Auto Z roughing 3D
- 3D Surfacing Radial Surfacing
- Helical Threading Clean Circle
- Bolthole Patterns Cross Sectioning
- Follow Curve Ruled Surface
- Auto Ruled Surface WinSkin 3D
- Involute Gear Ramp On/Off
- Solid Machine Simulation Geometry from code

### Lathe

Version 17 has many lathe functions that are designed with simplicity and ease of use. The program has pre-designed tools that can be manipulated and modified to meet your turning requirements. You may also perform face milling during your turning operations.

#### Lathe Features:

- Horizontal/Vertical auto roughing
- Grooving
- Slotting
- Face Milling/Live Tooling
- Gouge Checking
- Tool Library
- User definable tools

## **Productivity Features**

In addition to the many CAD and CAM features found in Version 17 we have also added features that can only be found on systems costing thousands more. Our machine tool simulation uses existing or imported G-Code data to simulate actual machine movements based on tool length, diameter and if compensation is used. You can create geometry from G-Code files that were created with BobCAD or on other systems. In addition we include complete and integrated RS232 communications with DNC capability.

- 2D & 3D Design or DXF & IGES file import!
- Engraving with true type fonts!
- Simple and complex Horizontal or Spiral Pocketing!
- Automatic Z-Level Roughing & Finishing!
- Automatic Hole Drilling Operations!
- Special CAM Cutting Options!
- Customizable CAM menus!
- Customizable tool libraries!
- 3D Skin, Revolved, Radial and Cross Sectional Surface Toolpath options!
- Automatic Profiling, Hole Patterns & Gear Generator!
- Solid NC Code Verification!
- Complete RS 232 & DNC Communications!
- Available Post Processors!
- 2 Axis CNC Lathe Programming!
- Much, Much More!!