

# ShopBot Design Checklist (v1.0)

**File Formats that can be Imported:** PDF, DXF, DWG, EPS, AI

## Creating a New File

**Size:** Input the width and height of your material

**Material:** Select the top of the material for the “Z Zero” and input the thickness

**XYZ Origin:** I select the bottom-left of the material. Others select the center. Your choice. Leave “Origin Offset” unchecked.

**Data Scaling:** Leave unchecked

**Units:** Inches

## Importing a Design

File > Import > Import Vectors

Edit > Select All Open Vectors; Edit > Join Vectors.

## Drawing a Design

Define the Boundaries of Your Design

Create and Edit Vectors Within Your Design

Define Layers as Needed

## Tool Pathing a Design

Select Tool Path Tab on the Right Side of the Screen

Select the Top Left Icon – Job Options (looks like a block of wood)

Rapid Z Gaps Above Material:

Clearance: Height of Clamps Plus Extra

Plunge: > 0.1”

Home Position: Usually Center of Material (X,Y) and Plenty of Mat'l Access Room (Z)

## Cutting Shapes

Select a Shape from Your Design

Select a Cutting Operation

Fill in the Cutting Specifications

Select the Correct Bit. Use the Same Bit for All Cutting Operations.

Add Tabs to All Operations that Cut All the Way Through the Material

## Arranging the Cutting Order

Weaken the Material Inside-Out

Do Perimeter Cutting Last

## Previewing a Design

Select Bottom Left Icon – Preview

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Reset Preview

Preview All Tool Paths

Verify the Result is What You Want (Shift will Pan. Scroll will Zoom. Mouse will tilt.)

## **Saving the Tool Path**

Check Estimated Machine Time. Reserve this Amount Time Plus Setup/Cleanup Time.

Click the Floppy Disk Icon. Output All Visible Paths to One File.

Click the Floppy Disk Icon and Save the Tool Path File

Save Your PartWorks Design File. You will Likely Need to Edit After the First Iteration.