Vectric Gadget Man Dovetail Maker Version 4.0

MAY 2020

Dovetail Gadget Agenda

- **Job Setup**
- **Running the Dovetail Gadget**
- **Joint Setup**
- **Making the Toolpaths**
- **Testing the Fit**

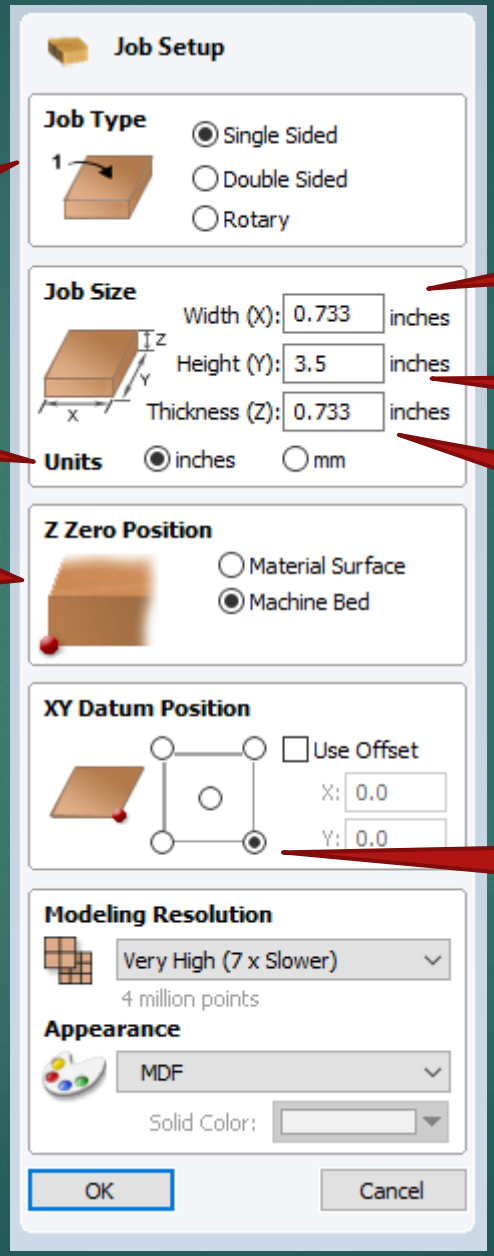
Please Note: This Gadget builds a Dovetail Joint by controlling the number of Tails and Pins equally over the size of material by entering the number of dovetails in the joint. The Bit selected plays a large role in the joint settings.

Dovetail Gadget Job Setup

Job Type – Set to ‘Single Sided’
Milling operation is on the End of the material

Job Size – Units: Set to Your Units

Z Zero Position – Set to ‘Your Style of Milling’
I use ‘Machine Bed’



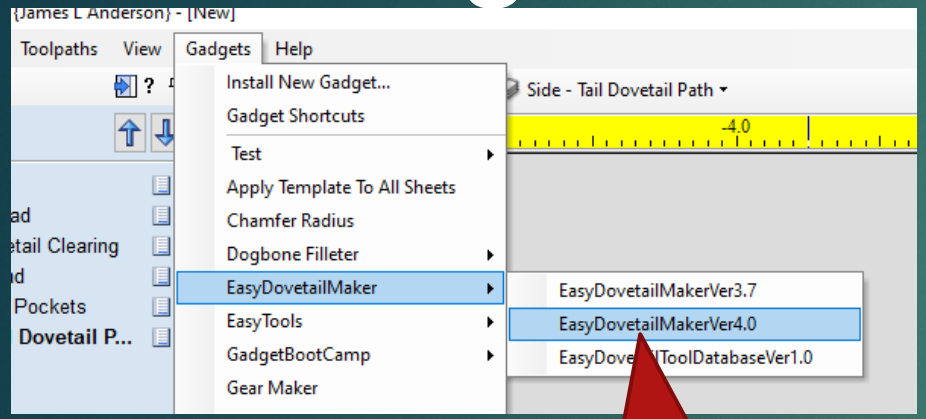
Job Size – Width: Set to your material thickness

Job Size – Height: Set to your material Width

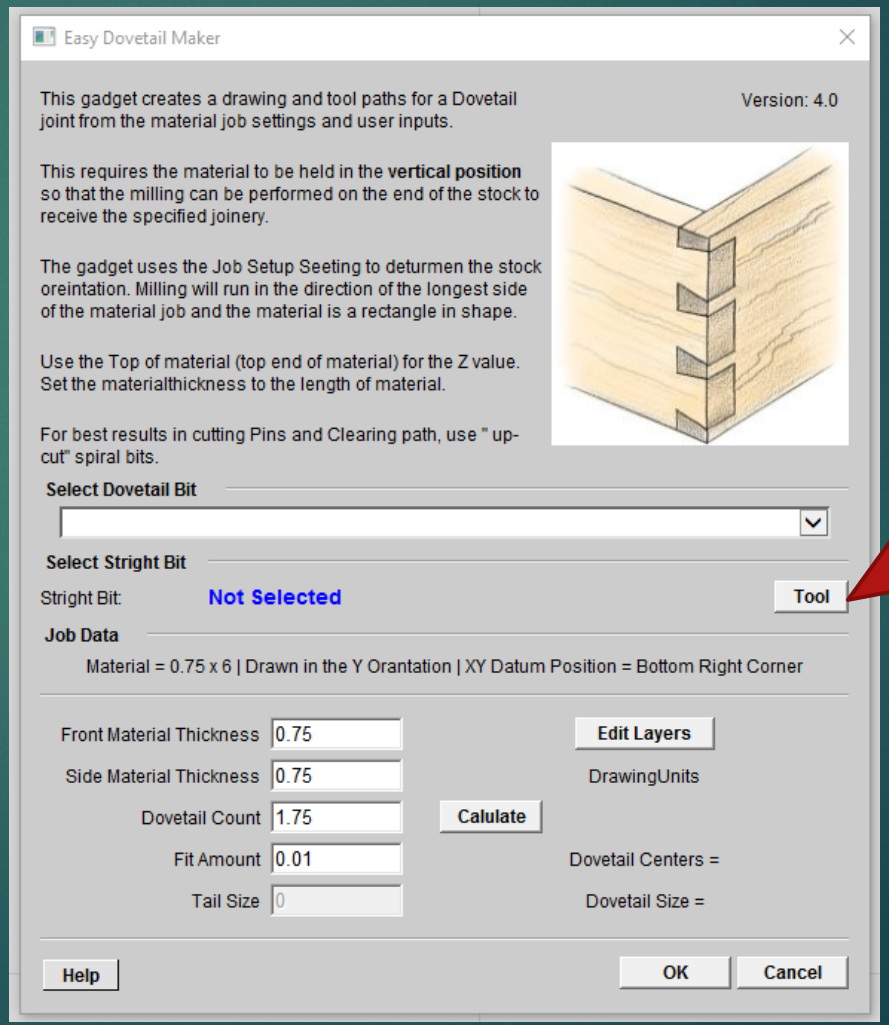
Job Size – Thickness: Set to your material thickness

XY Datum Position –Set to your Mill
I use the Lower Right on my Mill configuration

Dovetail Gadget
Running the Dovetail Gadget



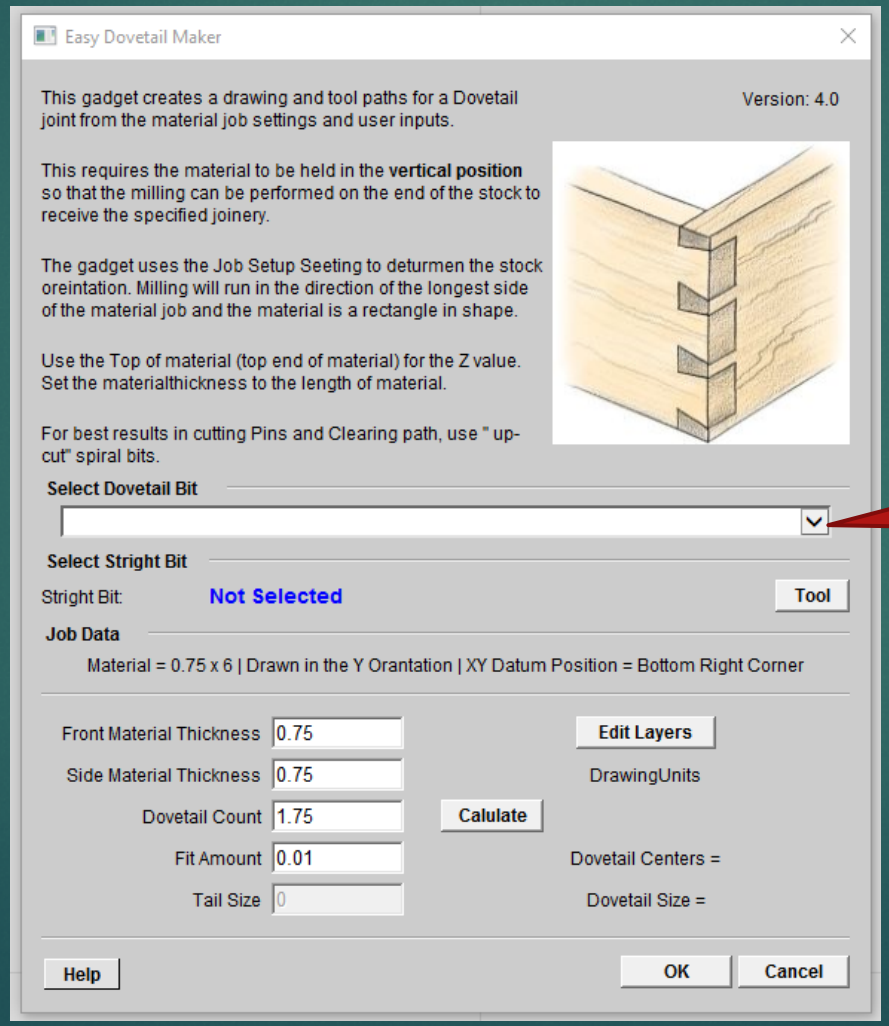
Run Easy Dovetail Gadget



Version 10 or higher - Select Tool From The Tool Database

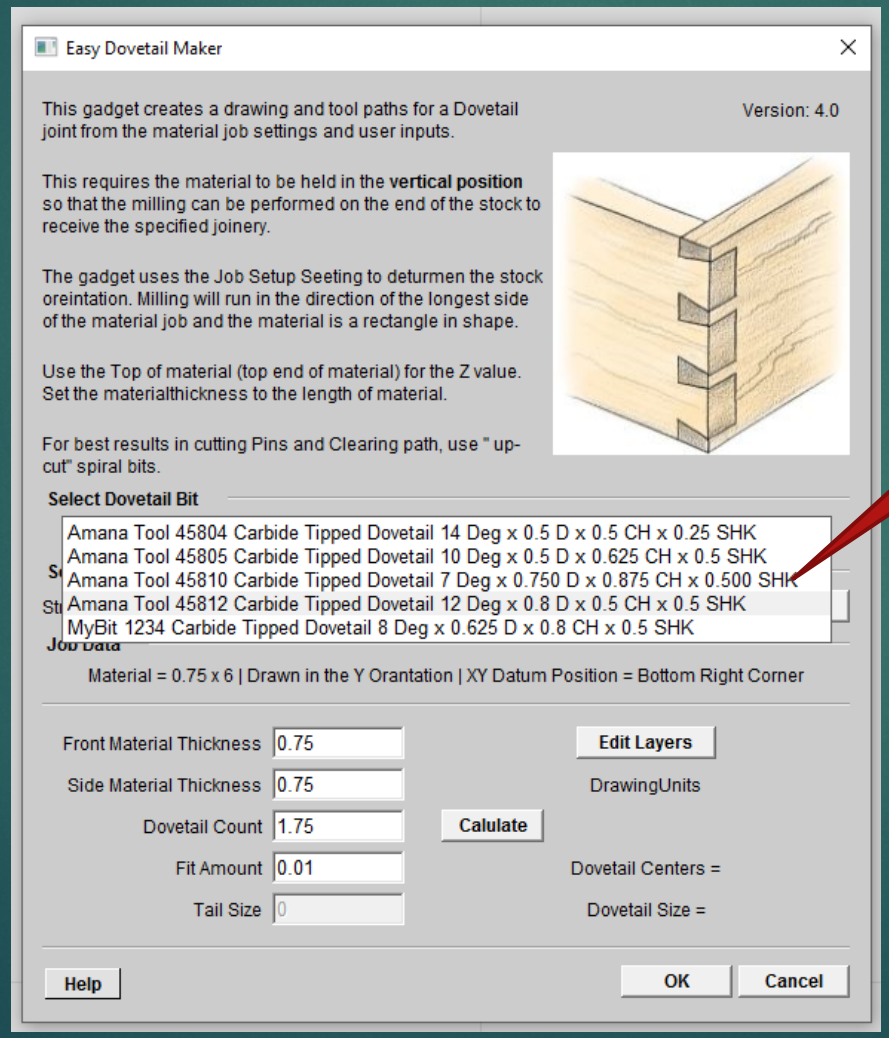
Version 9 or lower – Enter The Tool Diameter

Dovetail Gadget
Running the Dovetail Gadget



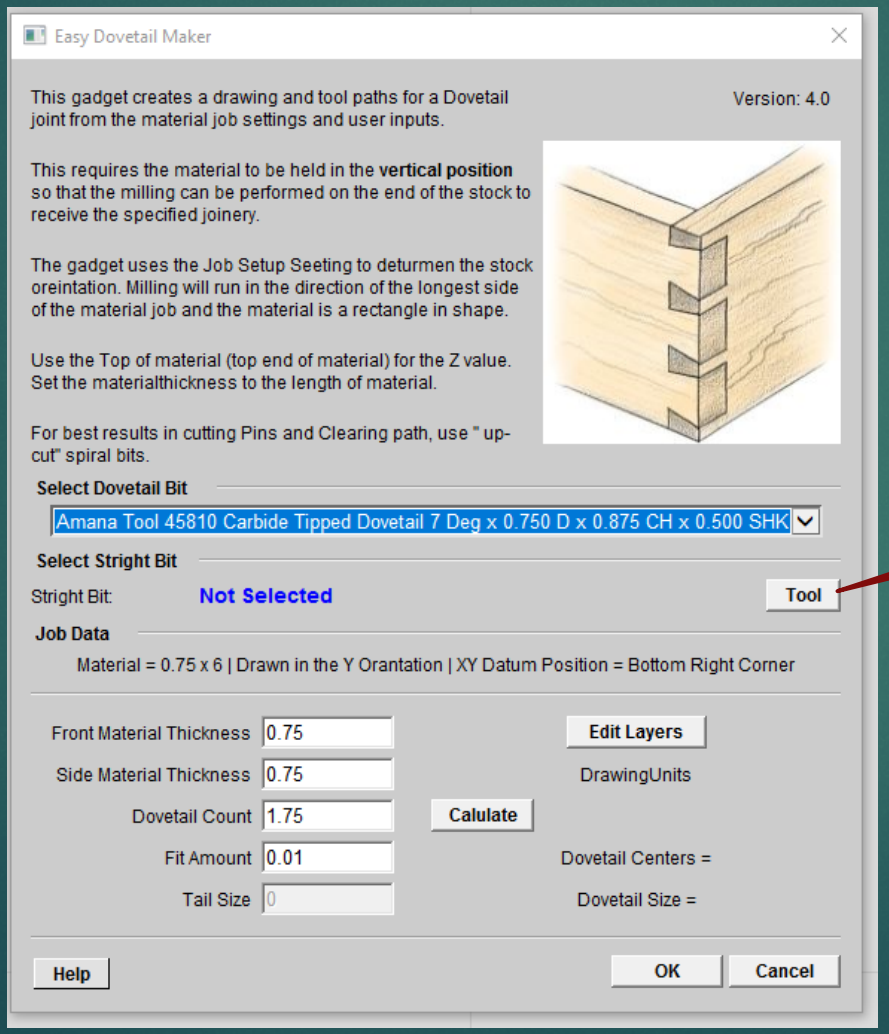
Drop the list to select a Dovetail From The Tool Dovetail Database

Dovetail Gadget
Running the Dovetail Gadget



Select a Dovetail bit

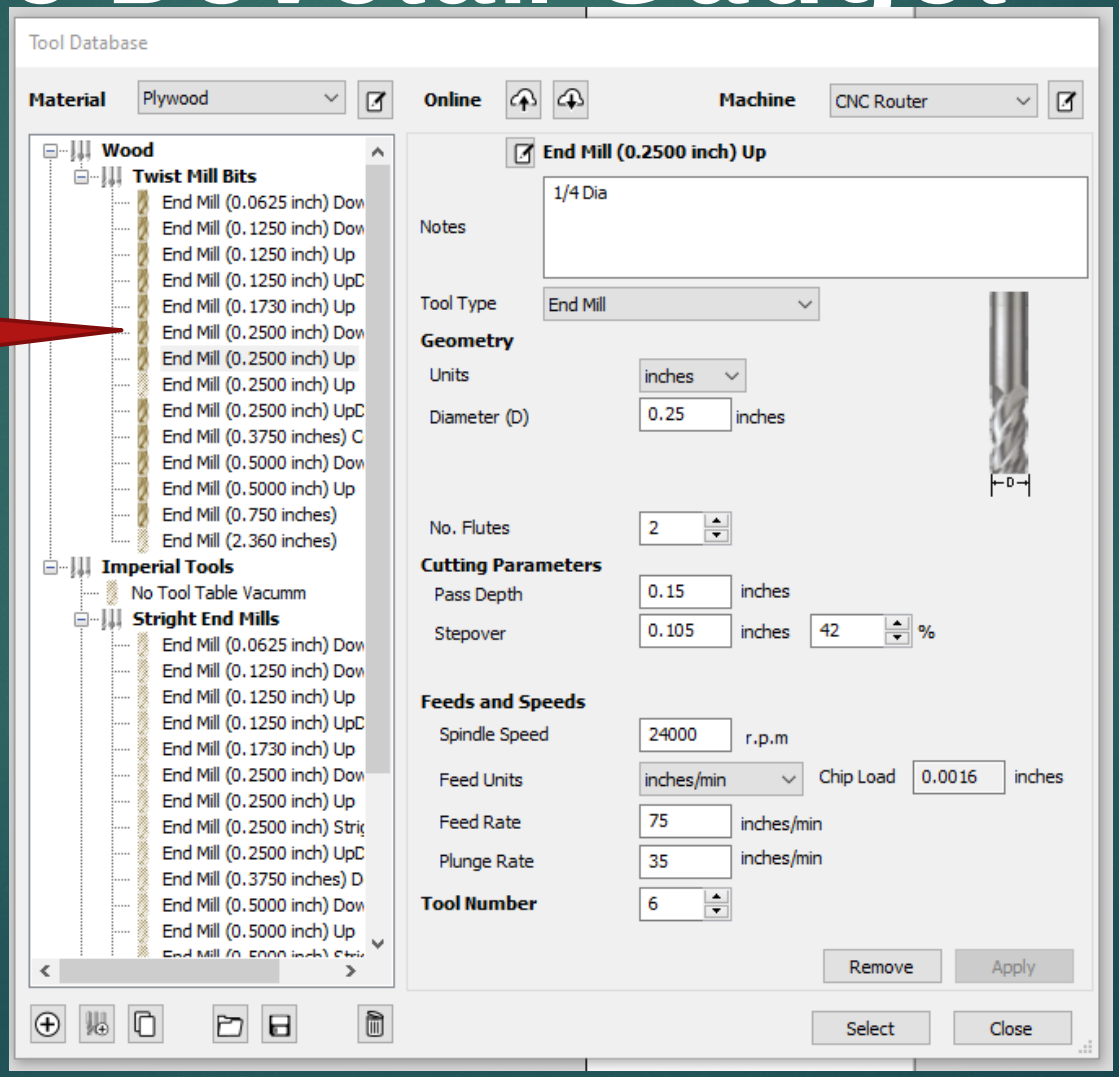
Dovetail Gadget
Running the Dovetail Gadget



Select a straight Tool from the standard Tool database

Dovetail Gadget
Running the Dovetail Gadget

Select a Tool Diameter smaller or equal to the slot size. You may have to re-select if required



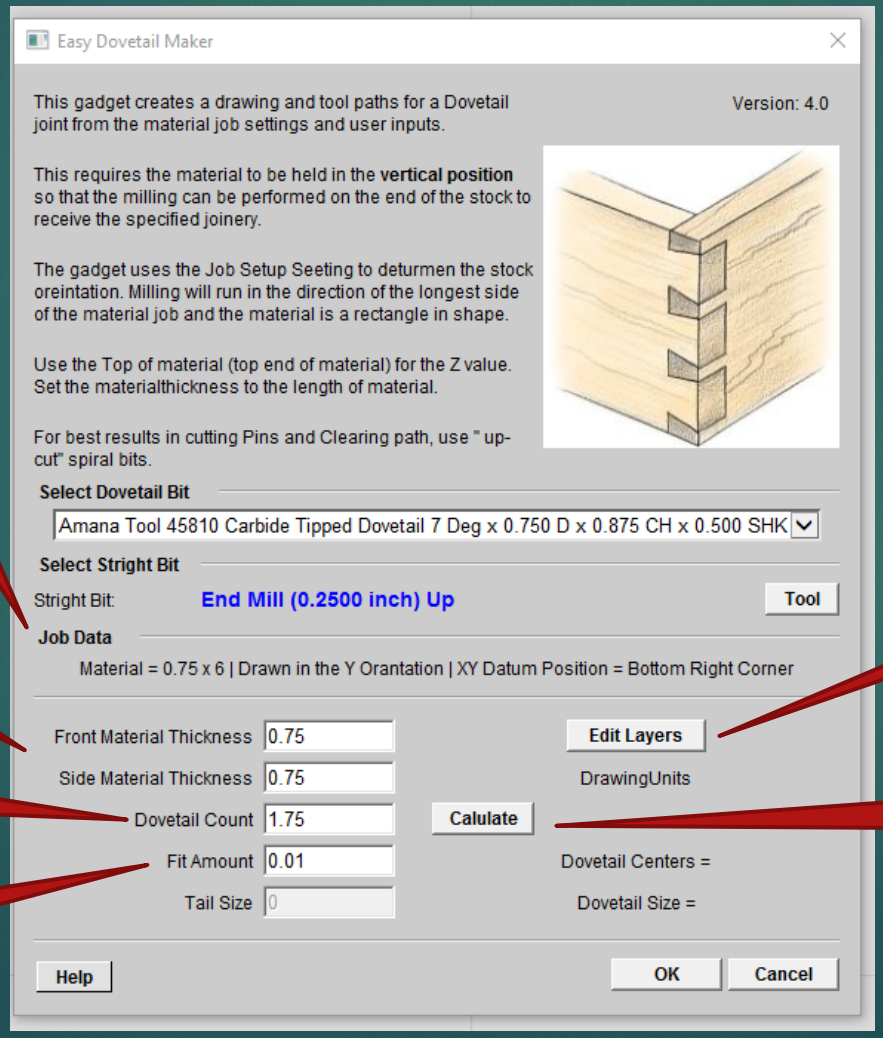
Dovetail Gadget
Running the Dovetail Gadget

Note: Job data is displays here

Note: Front and Side material thickness can be adjusted based your needs

Enter the number of Dovetail for the joint

You can adjust the fit with entering a value here

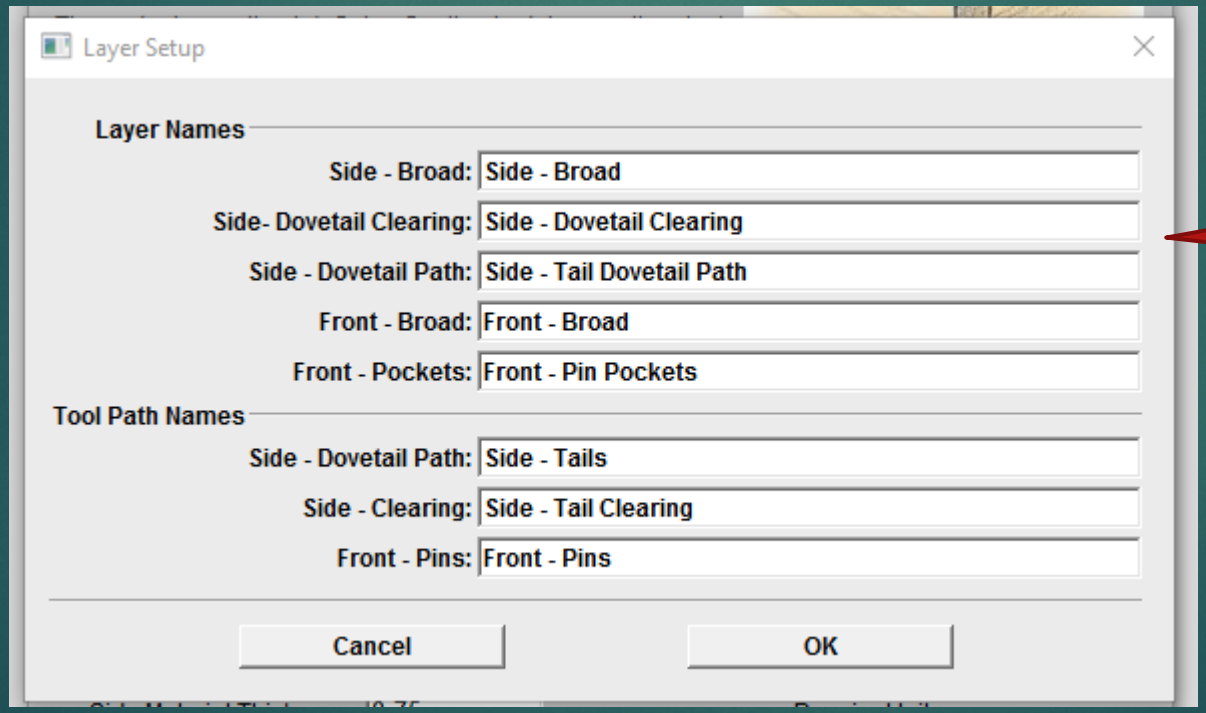


Displays the Tool Selected

Display the Layer and Tool-path naming dialog

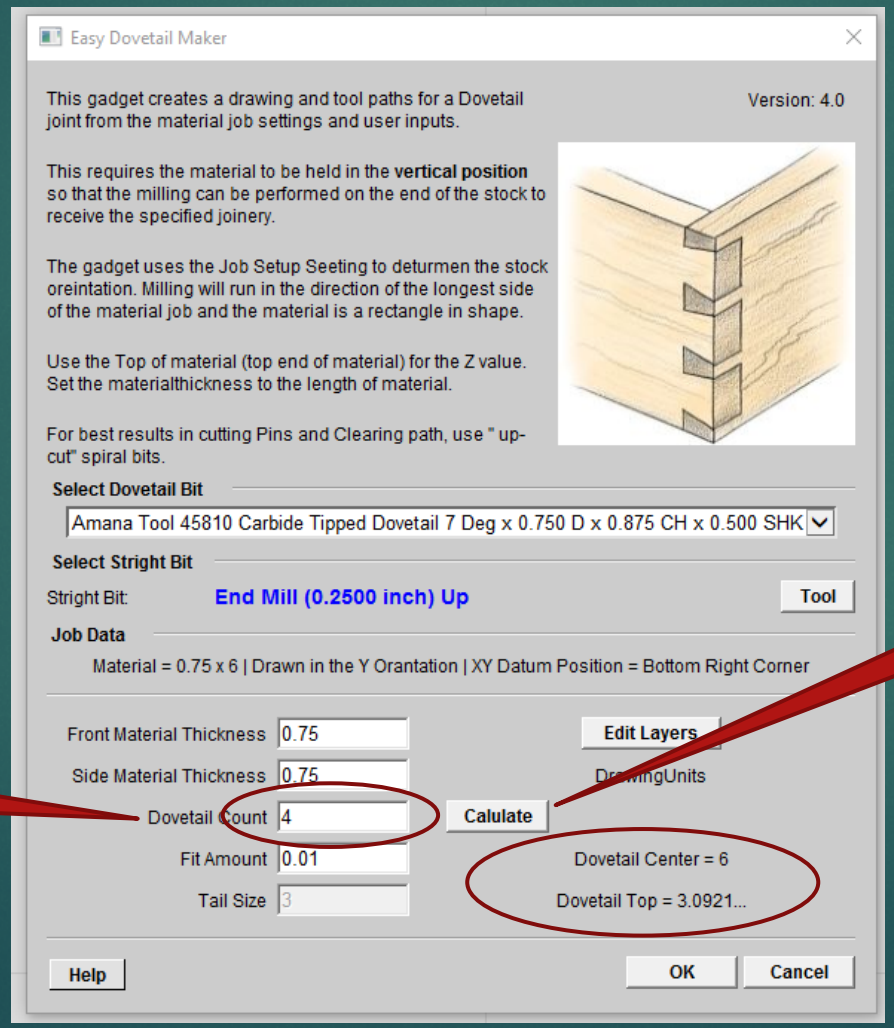
Select the Calculate button to display the Joint data

Dovetail Gadget
Running the Dovetail Gadget



Edit Layer and Tool-path names

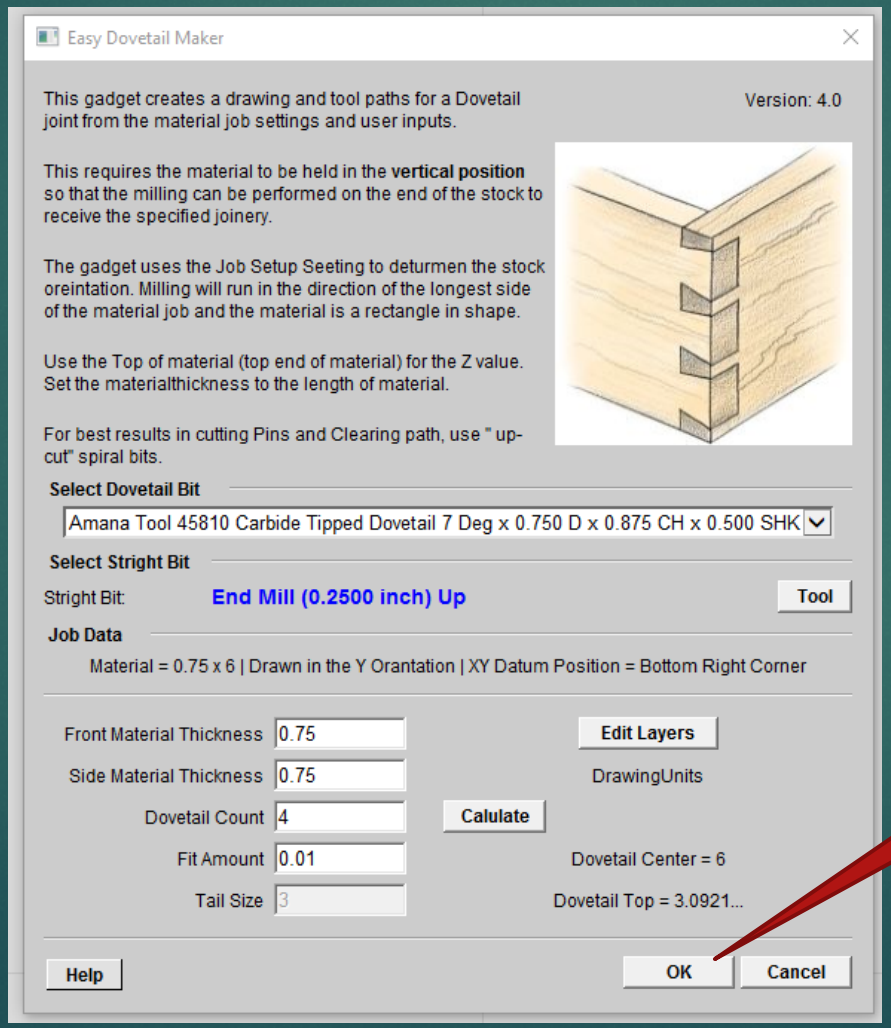
Dovetail Gadget
Running the Dovetail Gadget



Enter the number of Dovetail for the joint

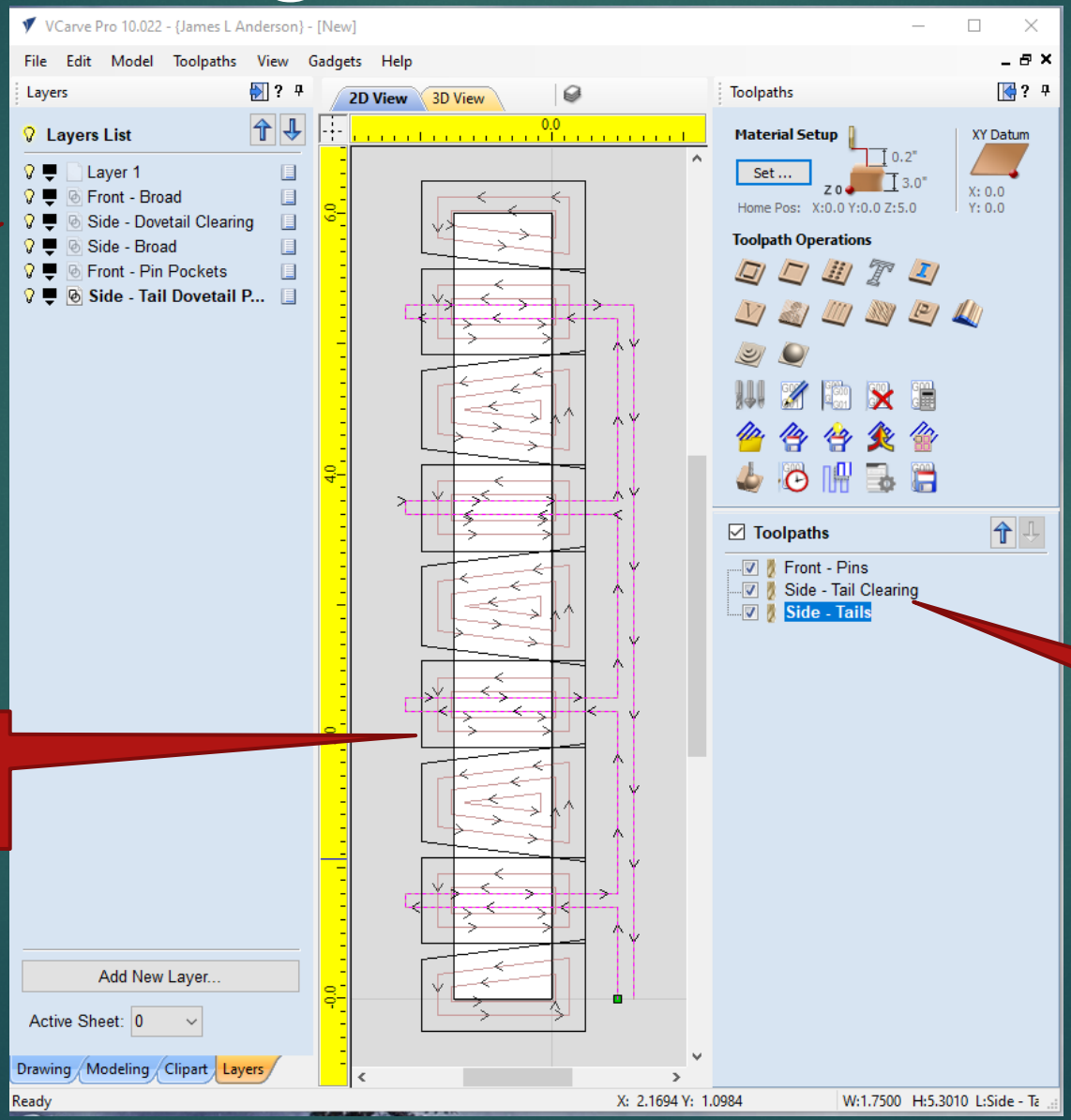
Select the Calculate button to display the Joint data

Dovetail Gadget
Running the Dovetail Gadget



Select the OK button to build the drawing and toolpaths

Dovetail Gadget

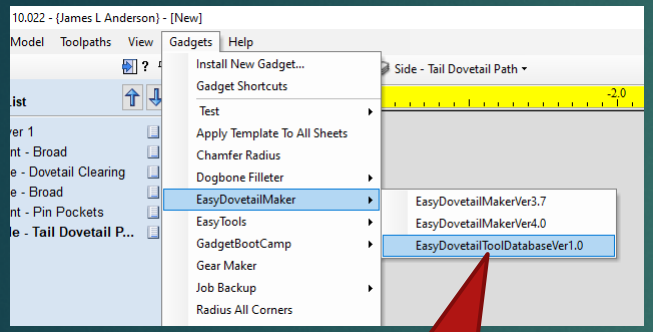


Note: The Layers are named so each milling of the Dovetail joint

Toggle on and off layers to display the Joint cuts

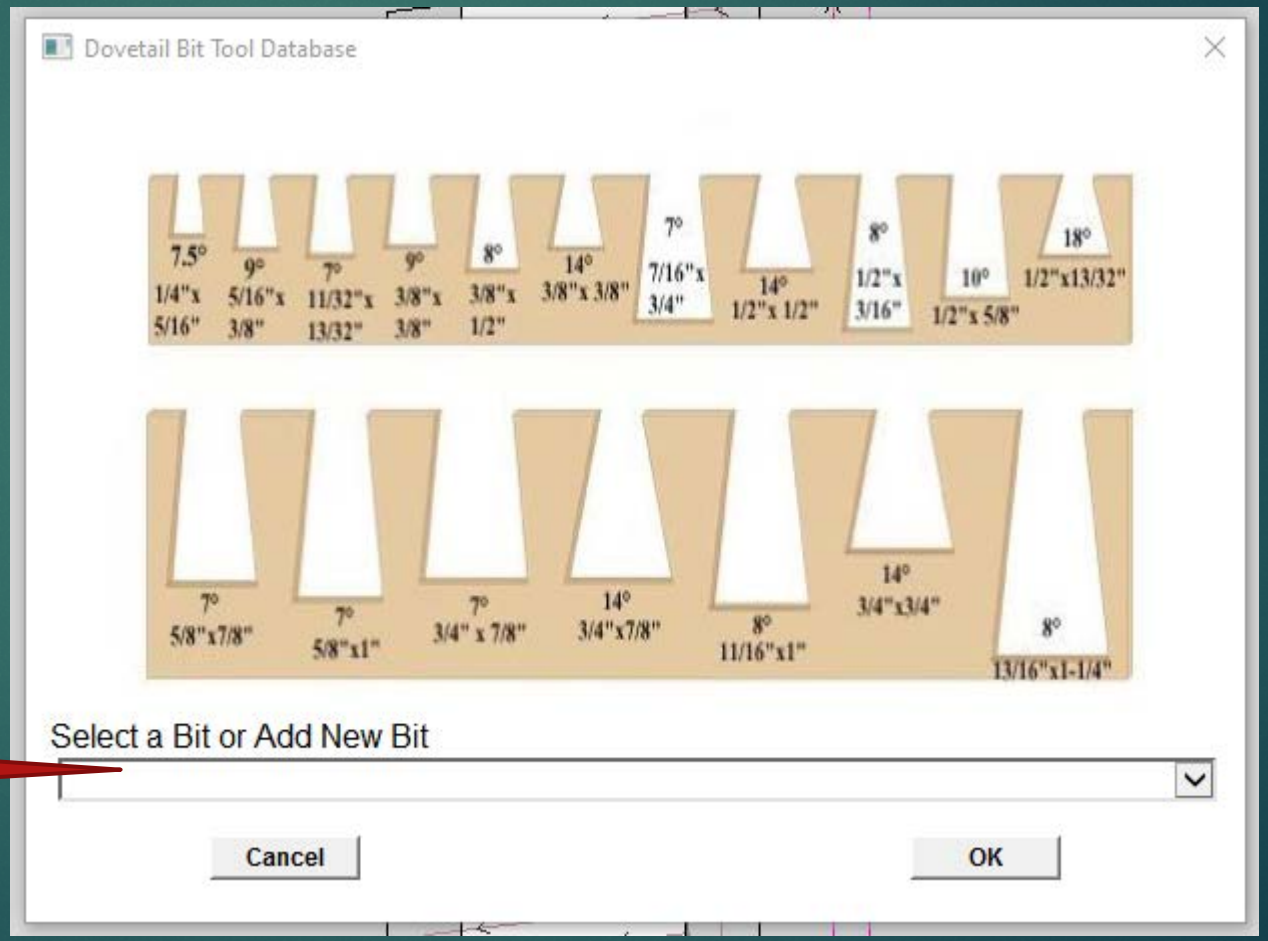
Note: The tool-paths for milling the dovetails

Dovetail Bit Gadget
Adding and Editing Dovetail Bits

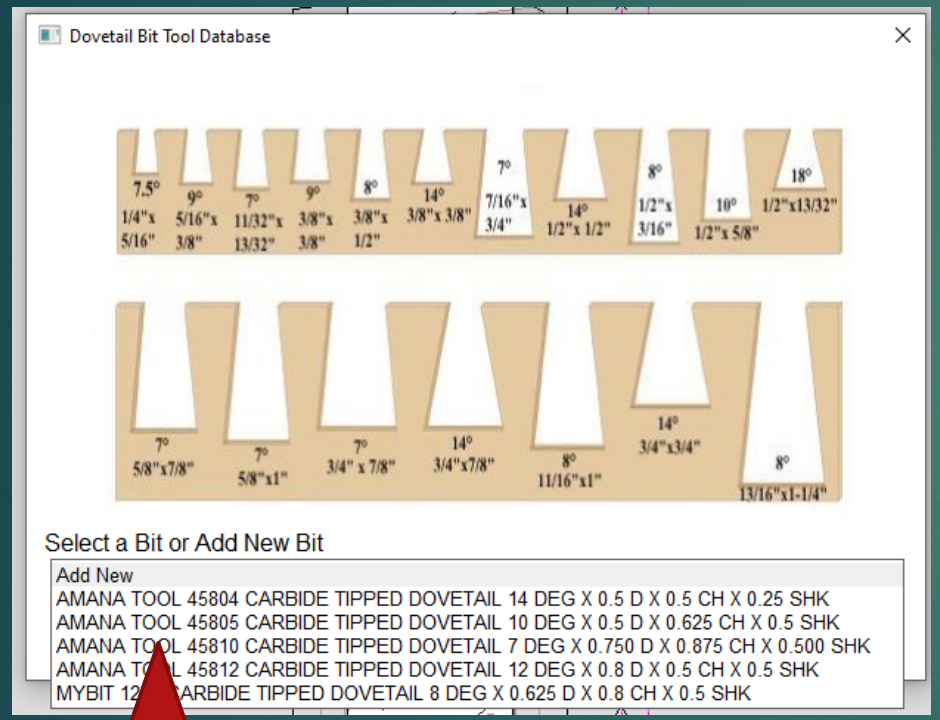


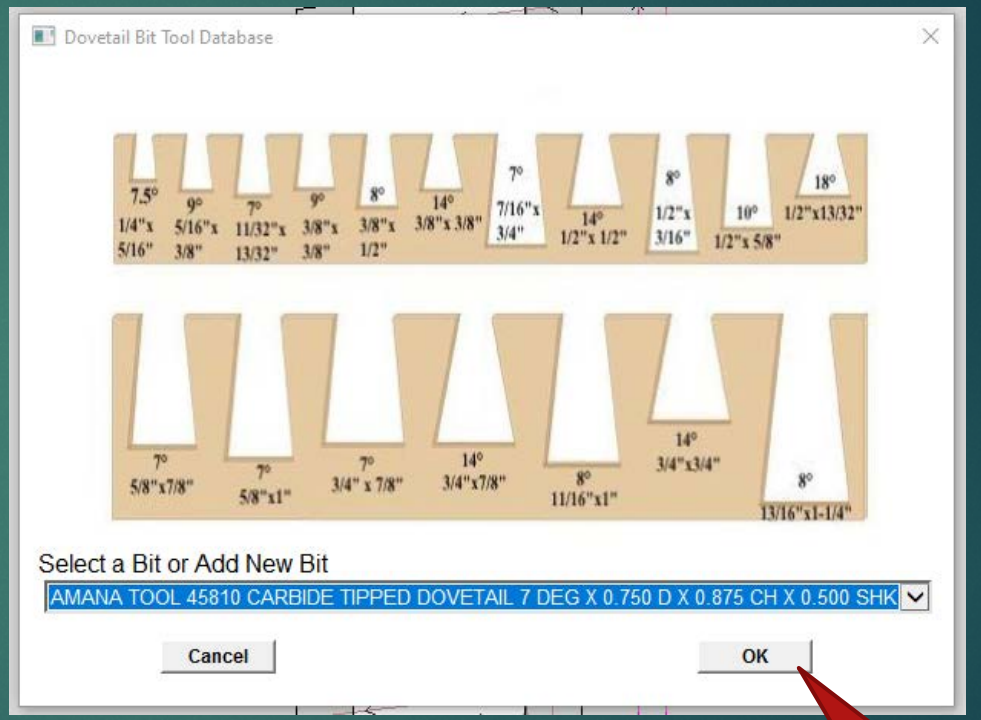
Open the Dovetail Tool Database Gadget

Select the Add New or Select a bit to edit



Dovetail Bit Gadget
Adding and Editing Dovetail Bits

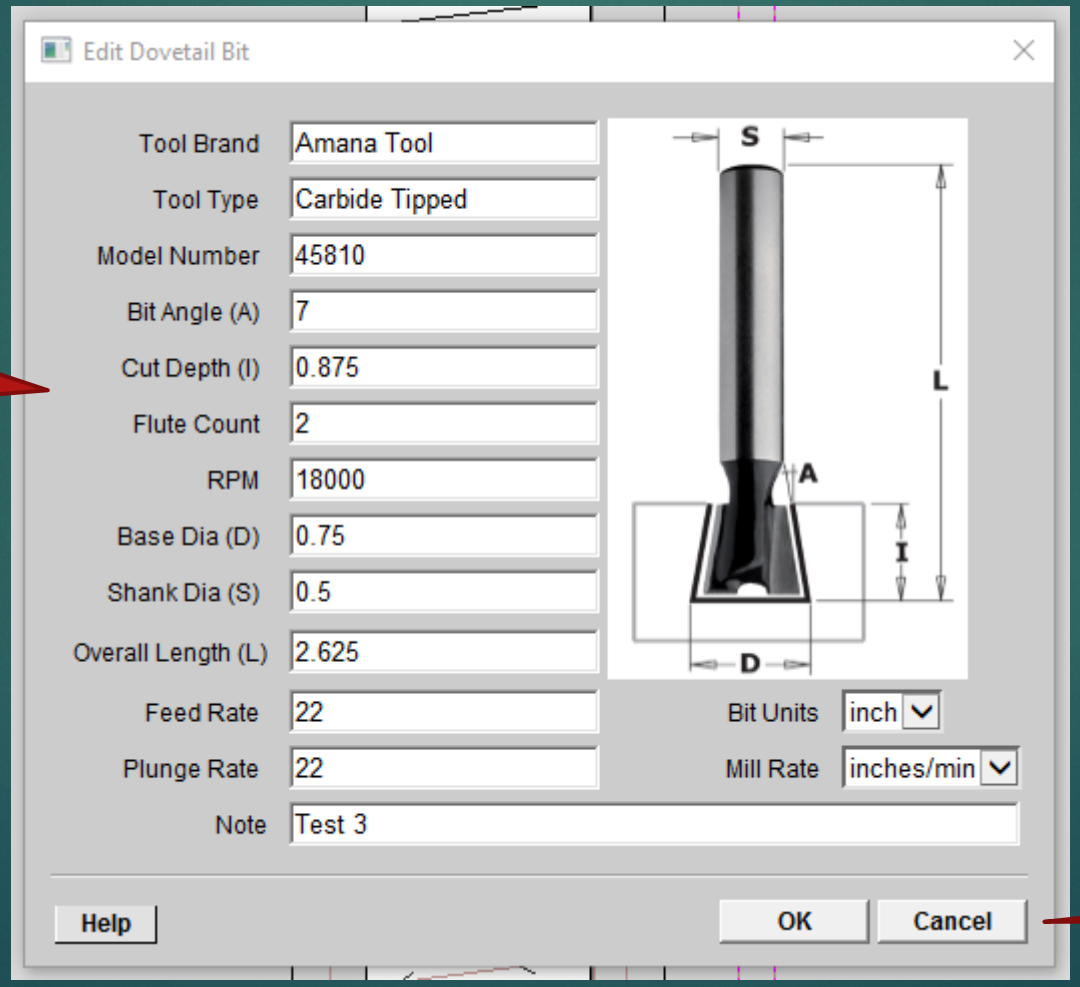




Select Add New or Select a bit to edit

Select the OK button to Open the

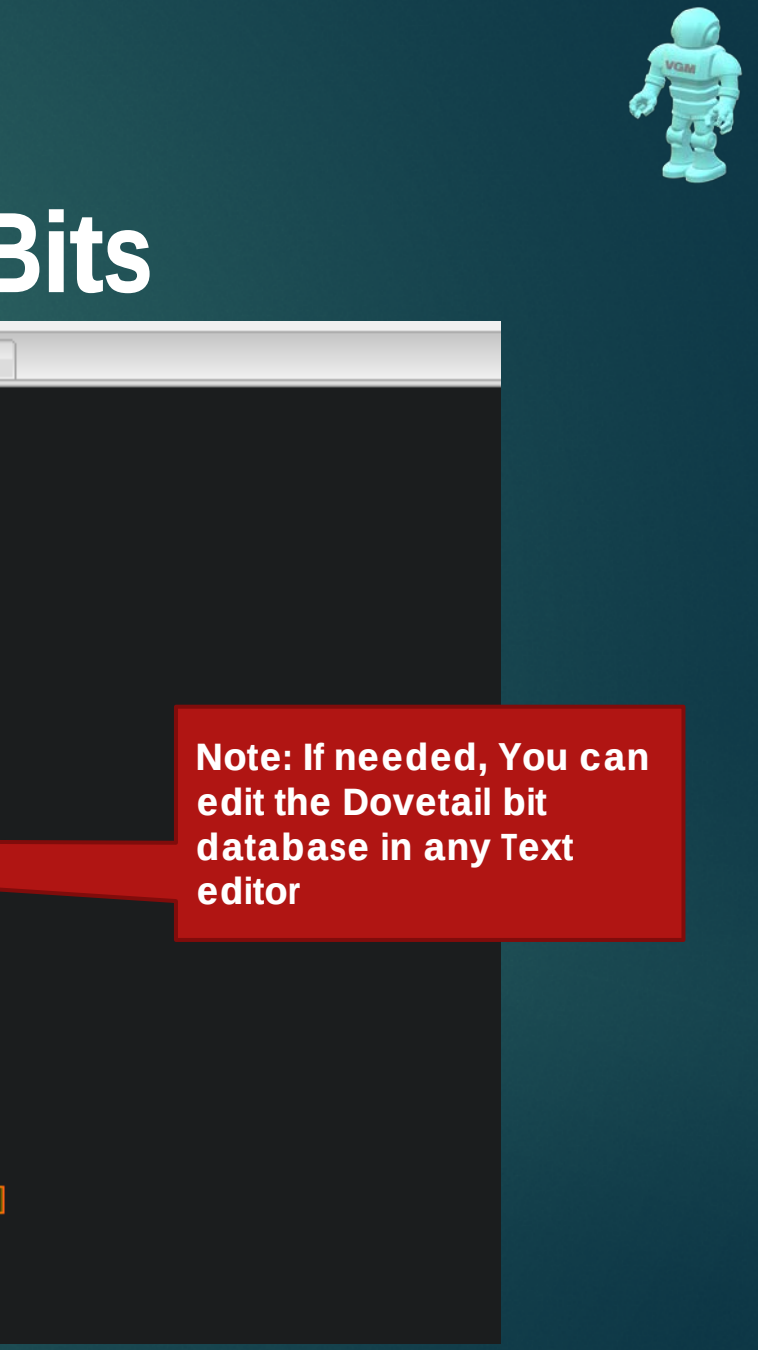
Dovetail Bit Gadget
Adding and Editing Dovetail Bits



Update the tool data as needed

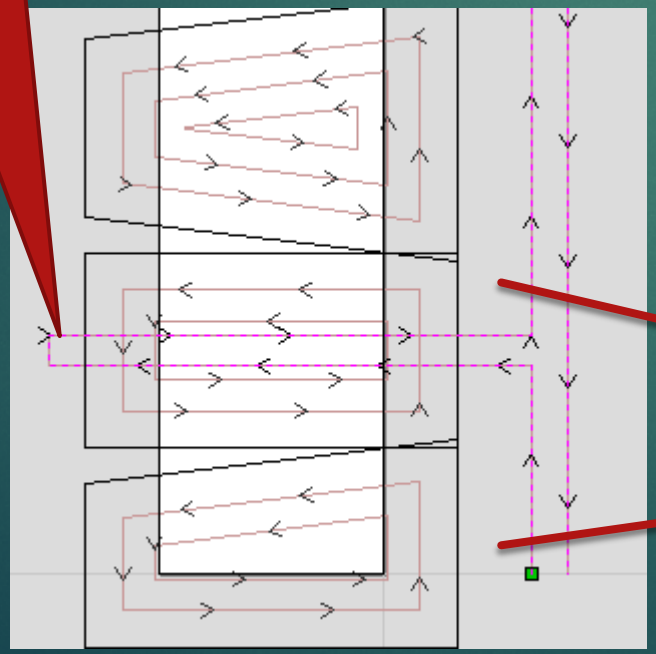
Select the OK button to save your changes

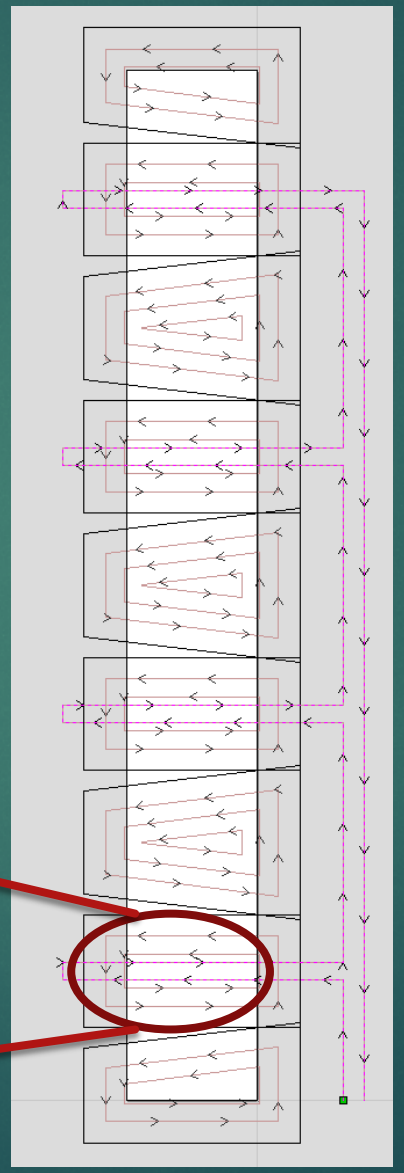
Dovetail Bit Gadget
Adding and Editing Dovetail Bits

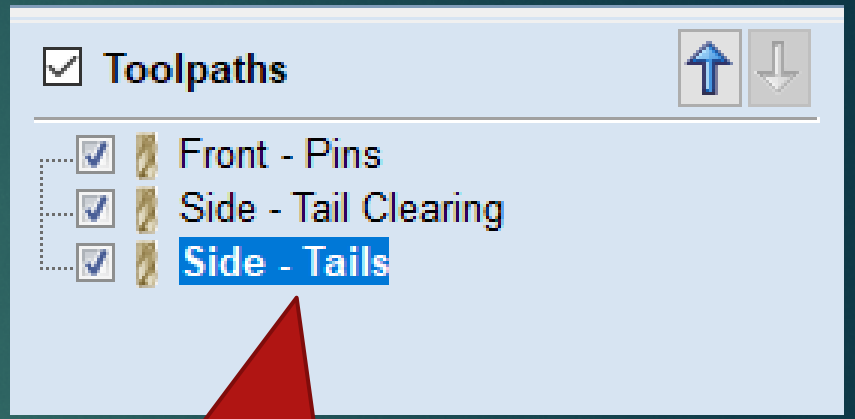


Dovetail Gadget Mill Setup

Note: The Fit adjustment is integrated in the Dovetail path geometry.







Note: The Milling is by Side or Front board

Dovetail Gadget
Running the parts

Note: Material is clamped to the front of the mill and is projected the thickness of the material above the mill table.

Note: Use material to flush the top so it is projected above the mill table.

Note: Remove material as shown here.


Thank
You