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*New in version 25.2715.4228*. **Import SVG Files** to perfectly emulate your scroll saw, band saw, and sabre saw!

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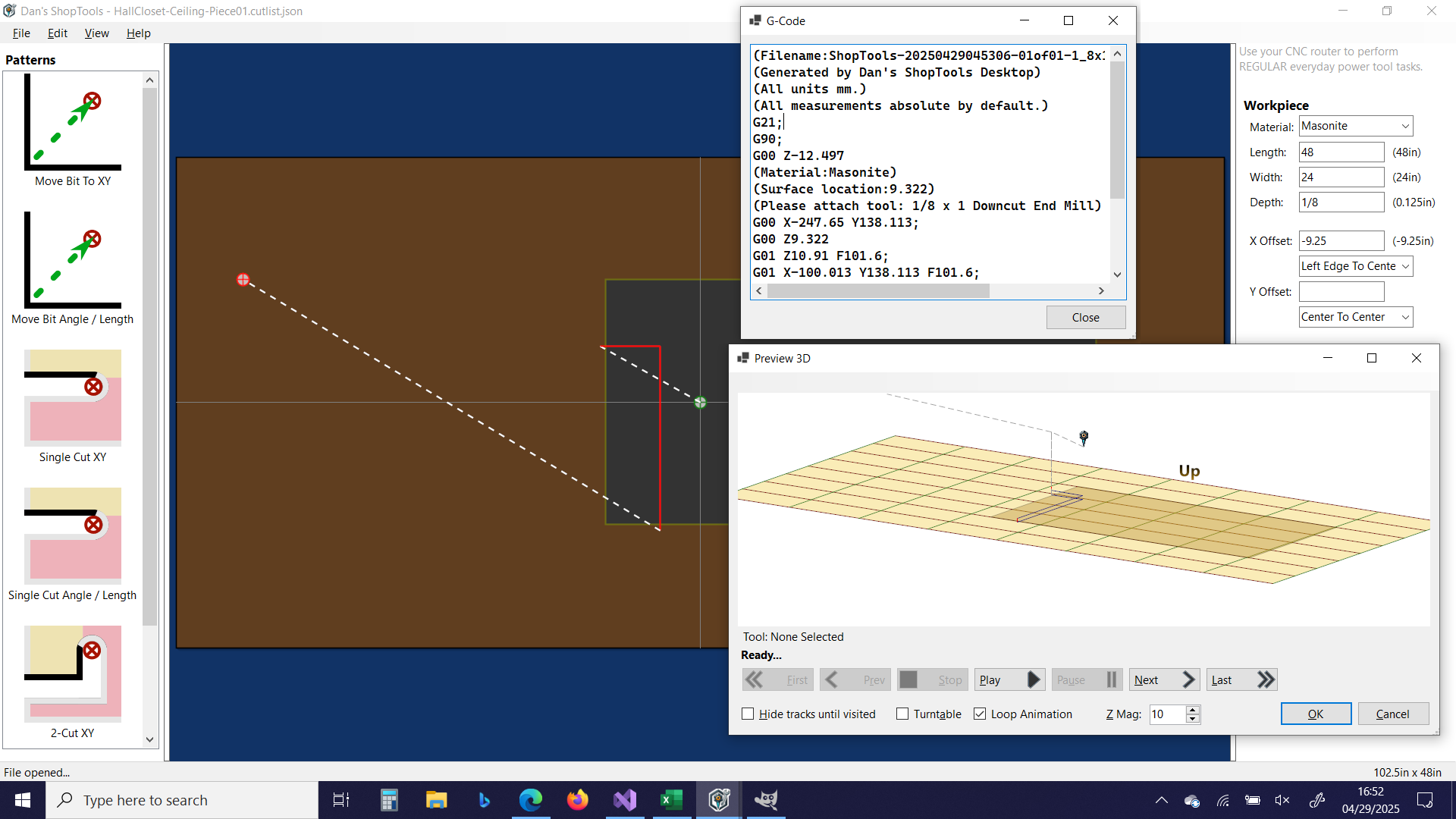
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## Introduction

One of the biggest complaints I've heard about CNC routers in recent years is that, even when you want to use your machine for simple ad-hoc drills and cuts, the time it takes to plan everything out, draft it in your favorite CAD application, and create your tool paths with a matching CAM application often outweighs the convenience. You could have saved time by just walking over to your traditional power tools and doing it manually. But that's about to change…

Welcome to **ShopTools**, the application that finally makes CNC routing easier than using your old power tools, except now, you don't have to touch those tools at all. That's right: with no CAD, no CAM, no expensive software or steep learning curve, you can just **drag, drop,** and **cut**.



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## Why ShopTools?

Have you ever wished your CNC router could just **replace** your power tools instead of adding another layer of complexity? Well, **wish granted**. ShopTools is here to make your CNC pay for itself by taking over the following jobs.

* **Drill Press**. Precisely placed holes, no measuring required.
* **Table Saw / Miter Saw**. Straight cuts, perpendicular or at any angle.
* **Band Saw**. Curve? No problem.
* **Scroll Saw**. Intricate, detailed work with machine precision.
* **Jigsaw / Sabre Saw**. For the times you just need a quick, accurate cut.

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## How It Works

Imagine defining your cuts *faster than you could mark them with a straightedge and pencil*. That's what ShopTools delivers. No marking. No CAD. No CAM. No tool-path configurations. You just accurately position your material on the waste board, and your CNC does the rest.

* **Use any numbering system**. Every measurement textbox supports every popular distance-type measurement expression. You can specify inches and fractions of an inch for one parameter, while using decimal inches or millimeters for another.
* **Template-driven workflow**. Just drag and drop movements, drill positions, and cut lines into place.
* **No job is too simple**. Even if you only need to drill one hole or make one cut, this is the perfect way to get it perfect the first time every time.
* **Lines at any angle**. Set a couple of parameters and go.
* **Save and reuse cut lists**. Open, edit, and export to G-code whenever you need.
* **One-time table setup**. Just set your dimensions, directions of travel, and origins. Done.
* **Check your cuts before exporting.** You can now review your cuts on a scale-model orthogonal 3D view of your table.

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## The Safest Way to Run Your Shop

Why get your hands near a spinning blade when you don't have to? With ShopTools, the only time you touch the machine is when you're **calibrating it, turning it on,** or **turning it off**. Everything in between is hands-free. Faster cuts, safer operation, and zero risk of kick-back or touching rotating equipment.

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## But Wait, There's More

Improvements are coming along pretty rapidly but if you encounter something that hasn't been addressed, just add an Issue and we'll make sure it gets some attention.

So, what's stopping you? Your CNC is ready to go to work. **Why not let it?**

Download ShopTools today and make your shop run smoother than ever.

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## Installing ShopTools

For the best results, follow these steps to download and install the current version of ShopTools.

* In the right-hand column of this page, locate and click the **Latest** entry in the **Releases** section.
* Read the release notes and scroll to the bottom of the section.
* In the **Assets** section, click **ShopToolsSetup.exe**.
* If you see a Downloads warning message stating that **ShopToolsSetup.exe isn't commonly downloaded, make sure you trust ShopToolsSetup.exe before you open it**, click the meatball menu next to the filename and click **Keep**.
  + In the **Make sure you trust ShopToolsSetup.exe before you open it** dialog, click **Show more**, then click **Keep anyway**.
* Open Windows File Explorer in your Downloads folder, and right-click **ShopToolsSetup.exe**.
* From the context menu, select **Properties**.
* Check **Unblock**.
* Click **OK**.
* Double-click ShopToolsSetup.exe to run the installation*.*

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### More Information

Since ShopTools Desktop is just a young application, it doesn't yet have much of a world-wide reputation. As a result, Microsoft products like Edge and Teams might warn you that since this application isn't downloaded very much, you should make sure you trust it before installing it. They will likely also cause you to take several additional unnecessary steps to get the software installed to make sure you really intend to place it on your PC.

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### Reporting the Setup File as Safe

If you have already learned to trust ShopTools and want to help build its reputation so other users don't have to perform additional installation steps, you can select the option to **Report this file as safe** on the meatball menu next to the warning **ShopToolsSetup.exe isn't commonly downloaded, make sure you trust ShopToolsSetup.exe before you open it**.

When you select **Report this file as safe**, you are directed to the Microsoft SmartScreen website where you can check **I think this is a safe website**.

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## Our Commitment to Security, Privacy, and Transparency

With ShopTools, our mission is to provide users with a powerful and efficient tool to enhance their productivity, nothing more, nothing less. We understand the importance of trust when it comes to using third-party software, and we take this responsibility seriously.

### Security and Integrity

When we compile and distribute ShopTools Desktop, we follow rigorous security protocols to ensure that our application does not pose any risk to your computer. We are committed to delivering a product that is safe, stable, and free of malicious components. To guarantee the authenticity of our software, every official release is securely code-signed by **Daniel Eric Patterson**. This authentic digital signature, issued by SSL.com, ensures that the version you install is an unaltered, original copy, free from any unauthorized modifications.

### Your Privacy Matters

We firmly believe that your data is yours alone. ShopTools **does not** collect, store, or transmit any personal information, period. Any data you generate, process, or exchange using our application remains entirely under your control. We have no access to it, nor do we ever attempt to monitor or retrieve it in any way. Our software is designed to work locally on your machine, ensuring complete privacy and peace of mind.

### Open Source for Transparency

To further reinforce our commitment to security and user trust, ShopTools is proudly open source. Our code is available for review on the GitHub **DanielAnywhere/ShopTools** repository. We encourage anyone in the community to inspect, audit, and verify that our software is exactly what we claim it to be, safe, transparent, and trustworthy. By making our source code publicly accessible, we aim to foster an open dialogue with users and developers alike, ensuring that ShopTools remains a reliable tool for all.

Thank you for choosing ShopTools. Your trust and security are our top priorities, and we are dedicated to maintaining the highest standards of integrity in everything we do.

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## Using ShopTools

The general workflow of using ShopTools is easy.

The following are the general steps for creating No-CAD / No-CAM cuts on your CNC router:

* Open ShopTools. If this is the first time opening the application, choose the **Edit / Settings** menu option to configure your table. This only needs to be done once.
* Set the Length, Width, and Depth of your workpiece. Optionally, position the workpiece and router at known offsets.
* Double-click a pattern or drag and drop it onto your work area, and set the properties like starting offset, length, angle, or whatever is applicable for the operation.
* Repeat the above steps until all holes and cuts are defined.
* Save your cut-list file if you wish to refer back to it later. Whenever you open a cut-list file you've saved earlier, you only need to export it to g-code to use it, skipping all of the above steps.
* Export your file to g-code and pass that file to your machine.

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### Tips and Tricks

Following are some tips and tricks that could save you some time.

* In most numeric textboxes, you can use basic expressions like {pre}0 - (190.84 - 139.7)mm{/pre}.
* When importing an SVG file, the absolute center of the object is aligned with the router starting location, allowing you to adjust the starting router location to perfectly offset your shape on your work area.

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## Developing With ShopTools

You can see the full SDK documentation for ShopTools here on the GitHub site at <https://danielanywhere.github.io/ShopTools>.

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## Platform Independence, Anyone?

If you would like to see a non-Windows (Linux UI) version of this application, please provide some feedback on the Issues page of this repository so I can get an indication of whether the effort might be worthwhile.