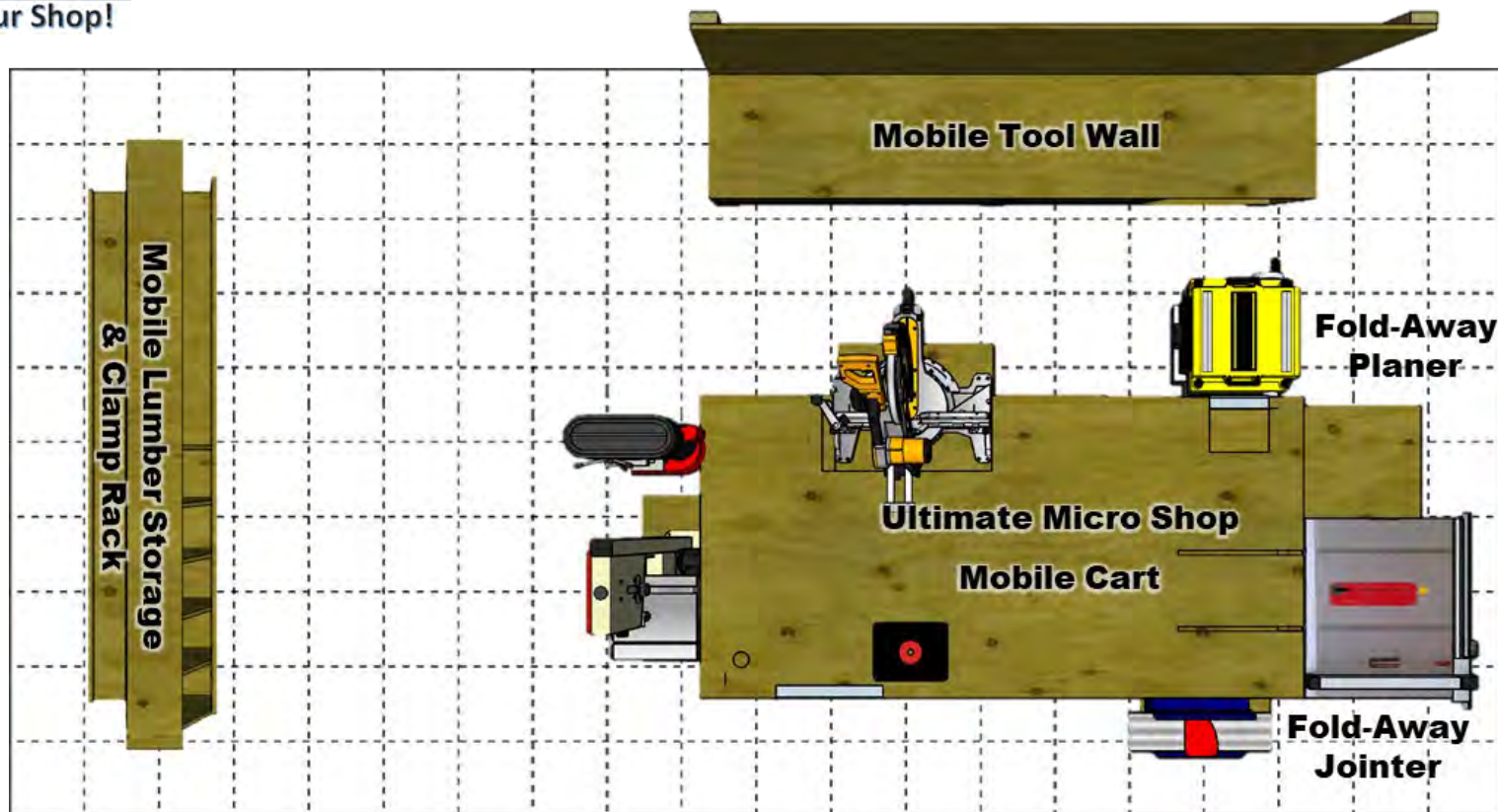


SHOP LAYOUT GUIDE

v6.2, 14APR21



**A FREE GUIDE WITH TEMPLATES
DESIGNED TO HELP YOU
MAXIMIZE YOUR SHOP!**



SHOP LAYOUT VIDEO

How to Use This

NOTE: IF YOU ARE VIEWING THIS AS A "FILE-PREVIEW" IN A WEB BROWSER, YOU NEED TO FULLY DOWNLOAD THE PDF TO VIEW THE EMBEDDED POWERPOINT & LINKS.

Open this file in PowerPoint (THE POWERPOINT FILE IS ATTACHED TO THIS PDF)

- Move, rotate, and Arrange the machine icons on your template page Print as desired ([NEED SOME POWERPOINT TIPS?](#))

OR (FOR THOSE THAT PREFER ANALOG)

- Print the Template Page that best fits your space.
- Print the Scale Machine Templates Page
- Cut out Machines similar to your own & arrange them
- Use the sample "boards / plywood" to check for interferences
- Photograph the layout or tape them in place

(PDF INTERNAL LINK) OPEN THE ATTACHED POWERPOINT

Additional Resources

 [Website: Benchtopwoodworks.com](http://Benchtopwoodworks.com)

 [Youtube Channel](#)

 [Find out about Unlimited Plans on Patreon](#)

 [Instagram](#)

 [All of my plans are available on Etsy](#)

Plans to Help You Maximize Your Shop:

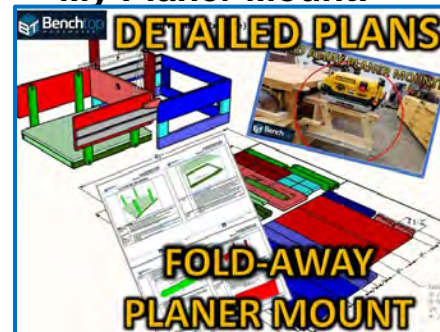
My Shop's Mobile Base:



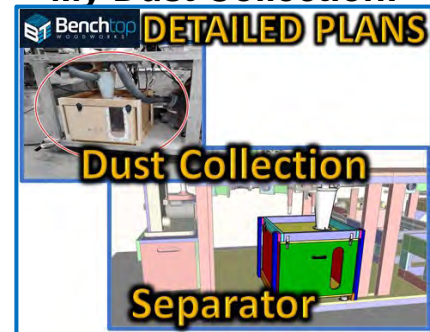
My Mobile Tool Wall:



My Planer Mount:



My Dust Collection:



Shop Layout Guide

Tips for preserving the most usable space in a shop (no matter how large or small it may be):

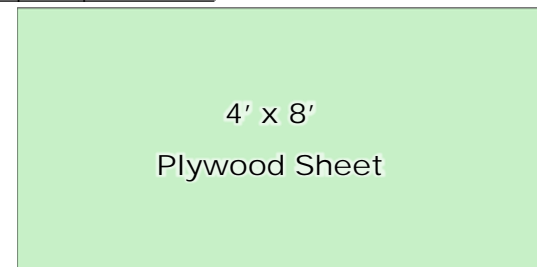
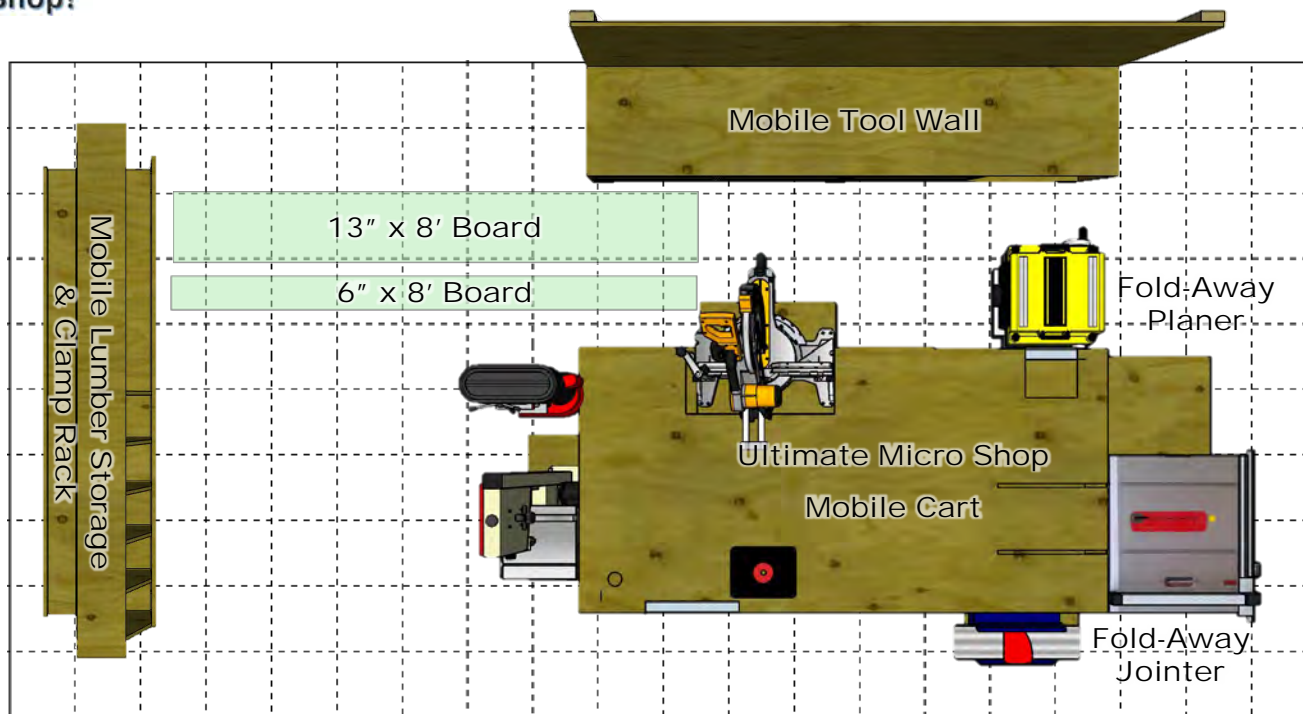
1. Keep material storage close to where they will enter the shop
2. Place machines used to break down and mill close to material storage
3. Align work flows so that they are parallel (Long runs for: Milling, Table Saw, Miter Saw, Band Saw, etc should all be parallel if possible)
4. Align “dead-space”, non usable parts of machines (drill press column, sides of planer/jointer, rear of miter saw, etc.) can be placed directly adjacent to other machines without causing an interference.
5. Group by function/process (Milling / Shaping) (Fine cut / Sanding)
6. Keep assembly tables/areas central. We are constantly working on pieces and storing them in between operations.
7. Mobility is key. Keep things on wheels when possible, workflow & space needs will change over time and sometimes during a project.
8. Plan for project part storage during a project (cubbies or bins for non-assembled part storage)
9. Remember to “think 3-D”. Each machine has a different ideal working height, this can help you when planning your space-saving solutions and storage.

EXAMPLE: *A jointer and planer are best at or just below waist level, a scroll saw can be used while seated. I use this concept of “thinking 3-D” in my fold away planer and jointer mounts to store machines in “un-used space” under the bench. I also used this same concept to locate my dust collection under my workbench as opposed to wall or ceiling mounted.*

My goal is to give you some tips & tools to help you visualize ways you can make the most of your shop space.

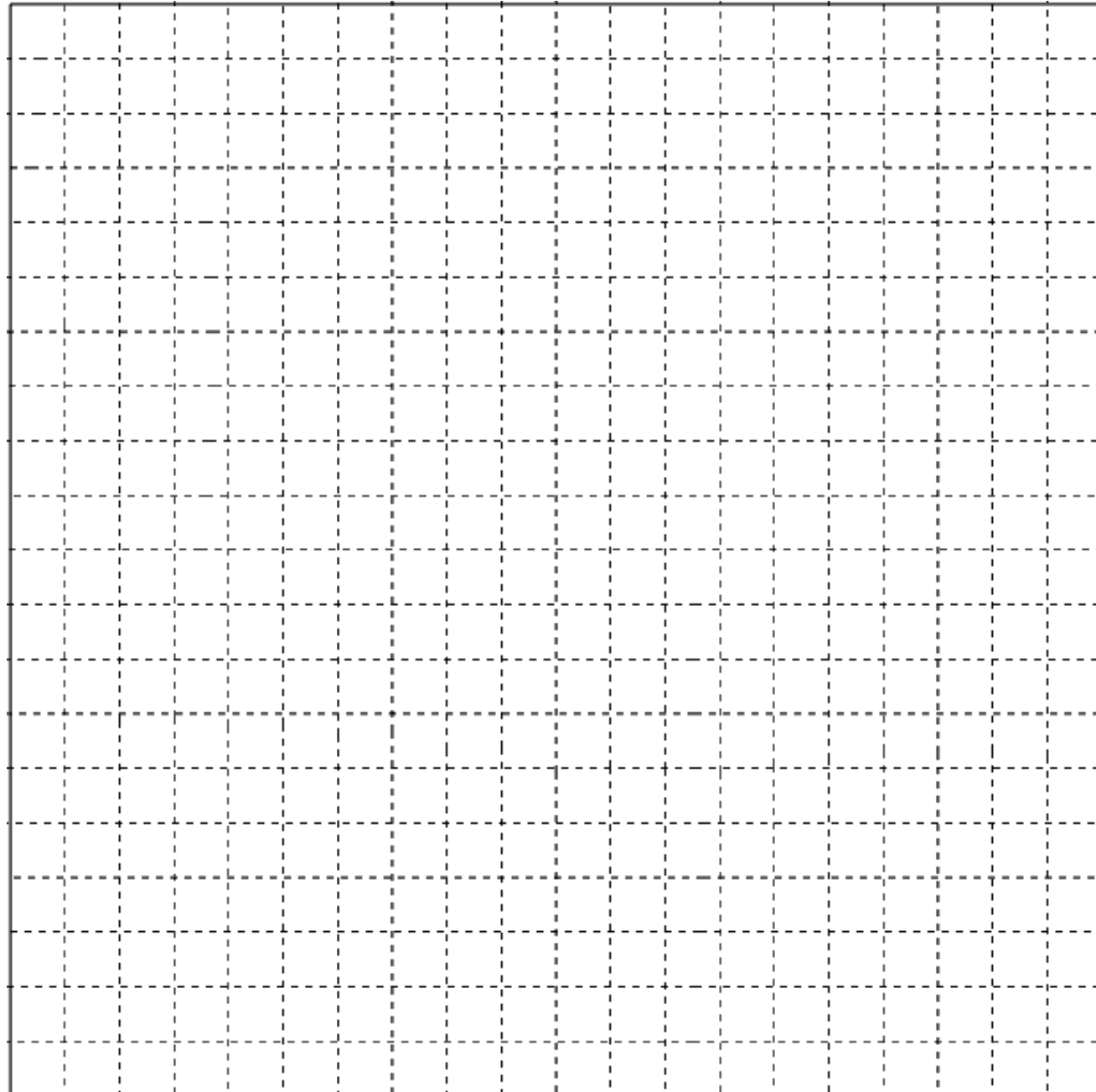
(PDF INTERNAL LINK) OPEN THE ATTACHED POWERPOINT

My Current Shop Layout (20ft x 10ft)



Maximize Your Shop!

	Tool	Dimensions
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		



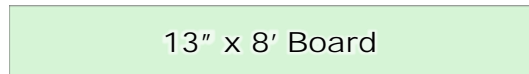
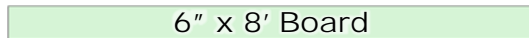
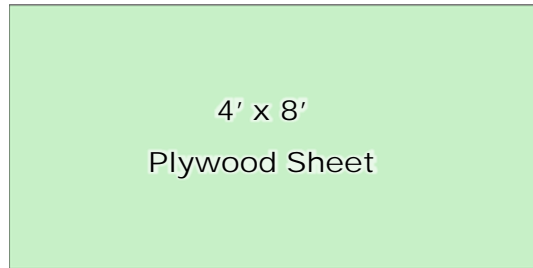
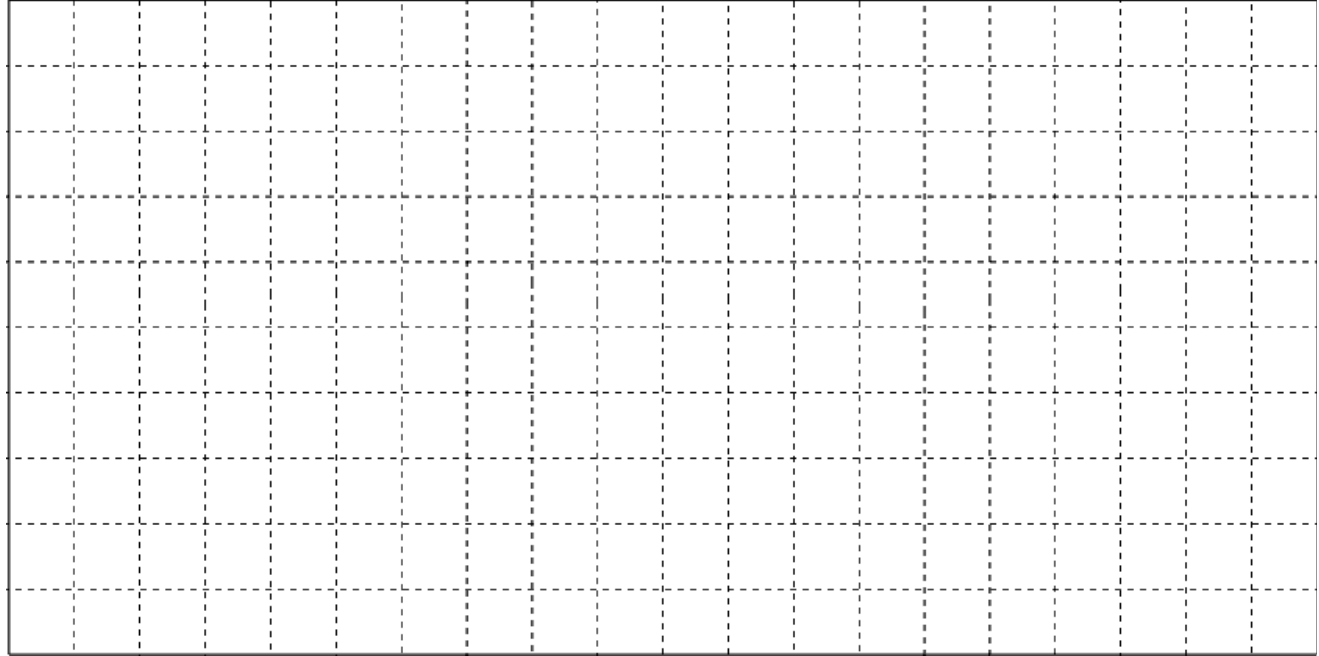
4' x 8'
Plywood Sheet

6" x 8' Board

13" x 8' Board

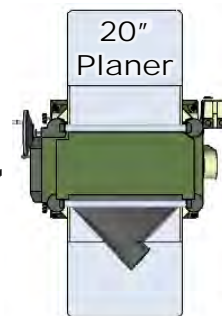
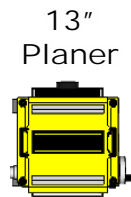
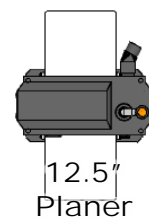
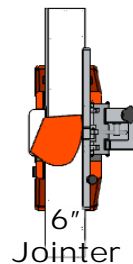
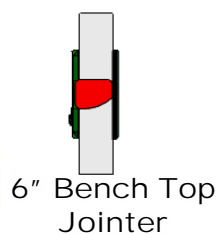
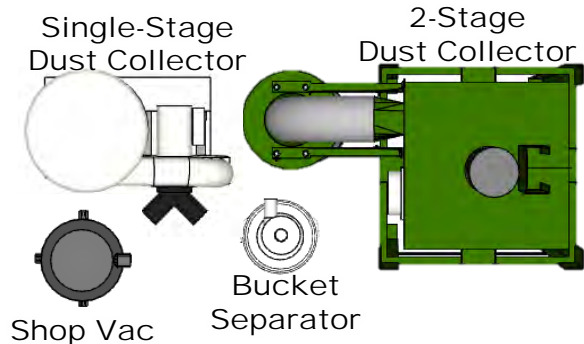
1-Car Garage Shop Template (10ft x 20ft)

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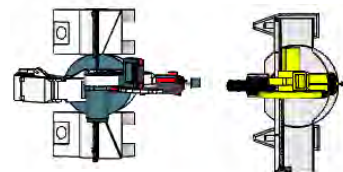
	Tool	Dimensions	Ideal Height
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Scale Machine Templates



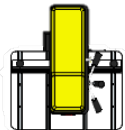
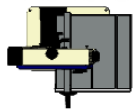
- Use these scale machine models to help plan your shop layout to Maximize Your Shop's Space!
- Plan the perfect layout for the tools/machines that you have in your workflow.
- See the interferences on paper rather than after you build or move things
- Print and cut or arrange digitally

Miter Saw



Sliding Miter Saw

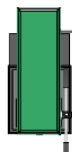
10" Band Saw



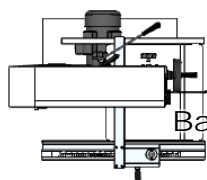
Bench Top Drill Press



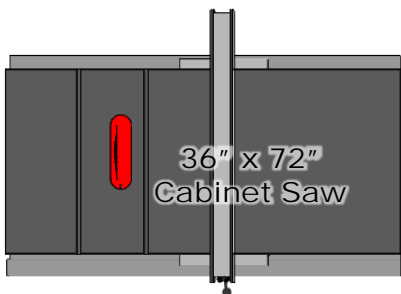
Bench Top Drill Press



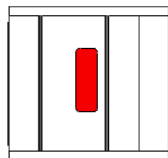
Floor Drill Press



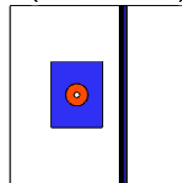
20" Bandsaw



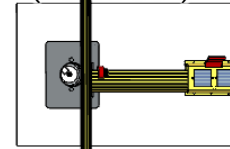
28" x 30" Contractor's Saw



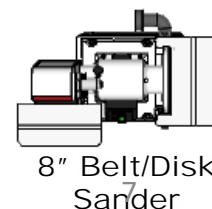
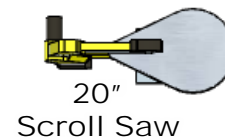
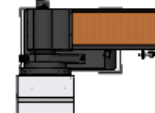
Router Table or Shaper (32" x 32")



Router Table (25" x 38")



6" Bench Top Belt/Disk Sander



Scale Machine Templates

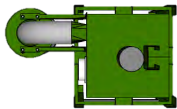
(HALF SCALE FOR 58'x39' TEMPLATE)

Single-Stage
Dust Collector



Shop Vac

2-Stage
Dust Collector



Bucket
Separator

8"
Jointer



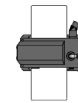
6" Bench Top
Jointer



6"
Jointer



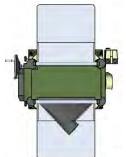
12.5"
Planer



13"
Planer

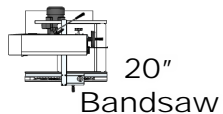


20"
Planer



- Use these scale machine models to help plan your shop layout to Maximize Your Shop's Space!
- Plan the perfect layout for the tools/machines that you have in your workflow.
- See the interferences on paper rather than after you build or move things
- Print and cut or arrange digitally

10" Band Saw



20"
Bandsaw



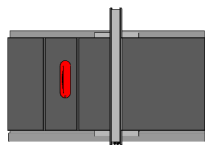
Bench Top
Drill Press



Bench Top
Drill Press



Floor
Drill Press



36" x 72"
Cabinet Saw

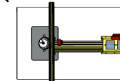
28" x 30"
Contractor's Saw



Router Table
or Shaper
(32" x 32")



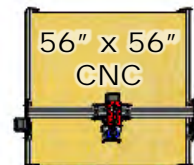
Router Table
(25" x 38")



Mobile Lumber Storage
& Clamp Rack

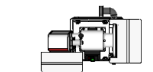


28" x 28"
CNC



56" x 56"
CNC

6" Bench Top
Belt/Disk
Sander

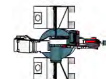


8" Belt/Disk
Sander

Miter Saw



Sliding
Miter Saw



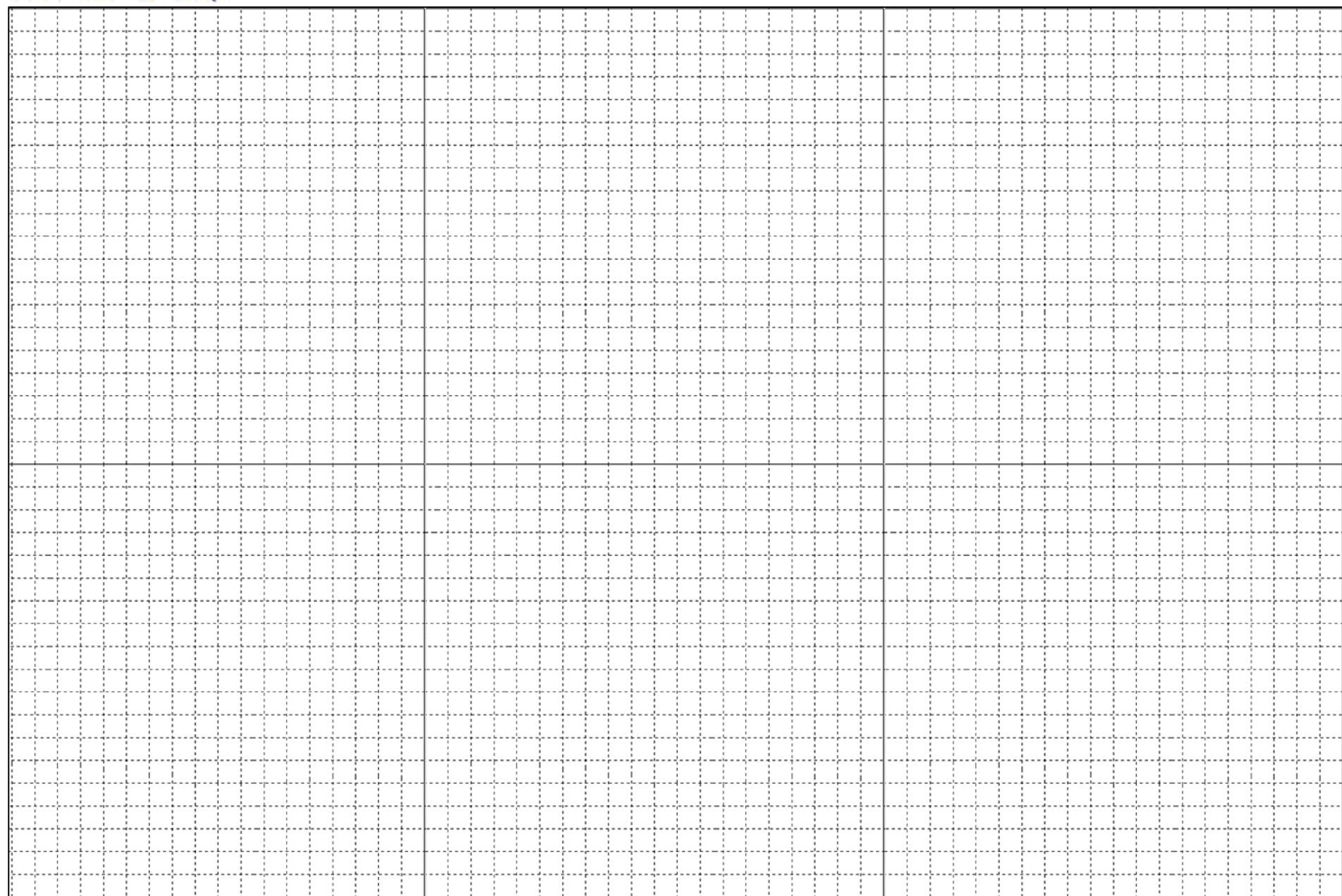
20"
Scroll Saw



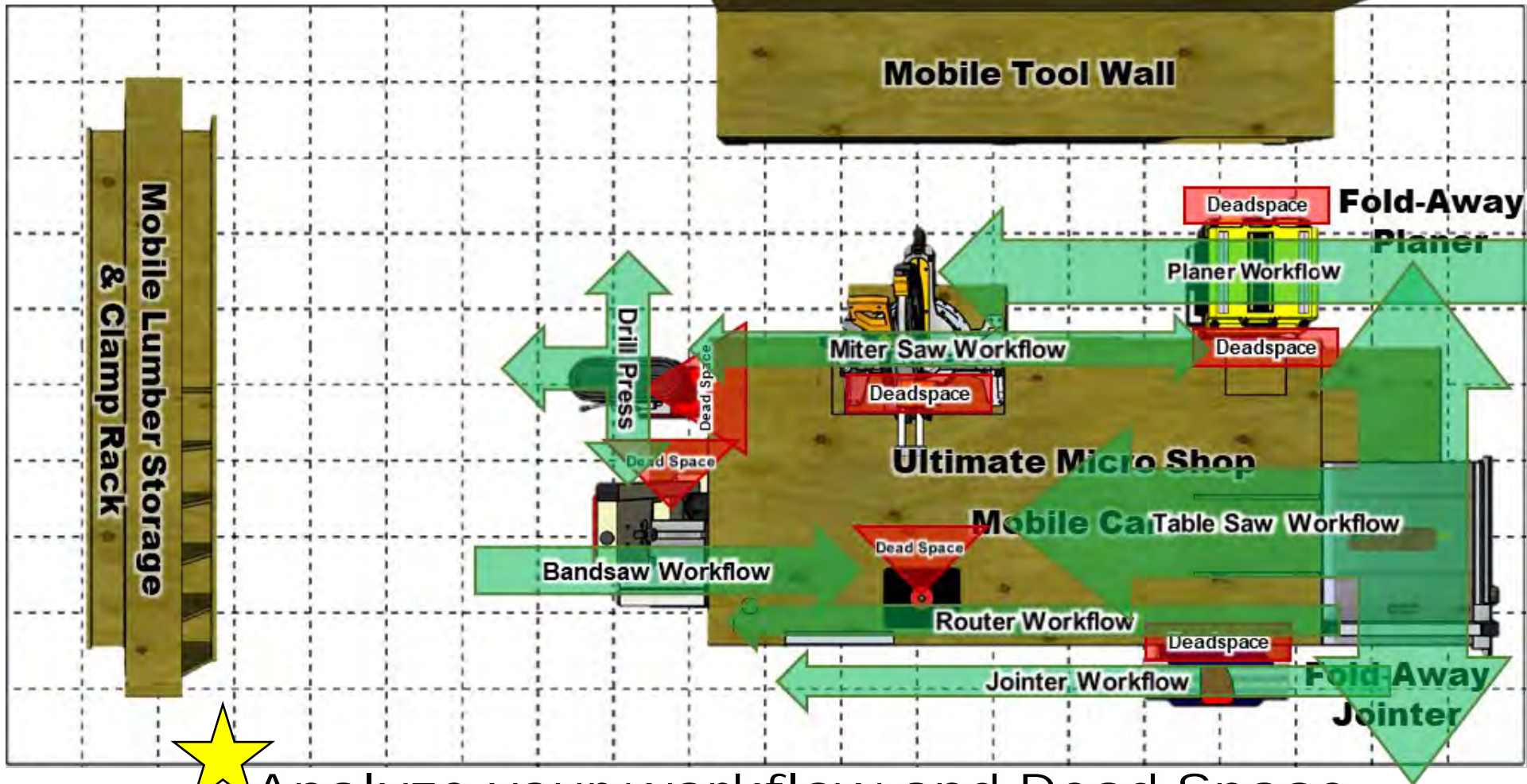
Generic Shop Template (58ft x 39ft)

Free Unlimited Distribution! Original Content by Bench Top Woodworks © 2015-2021

Maximize Your Shop!

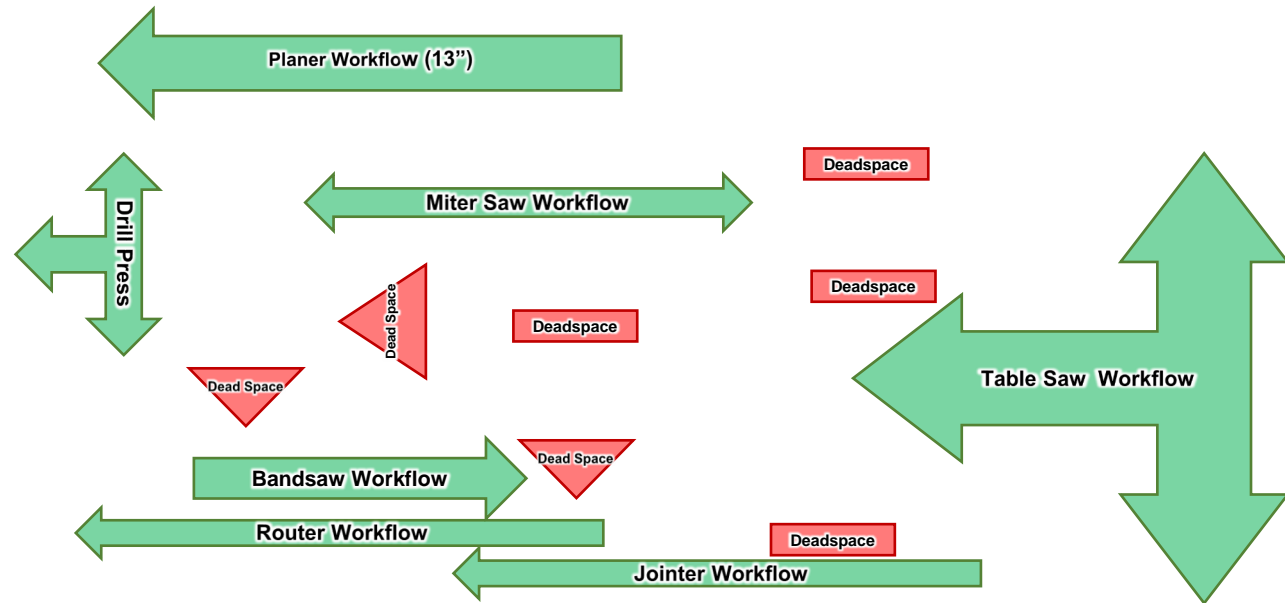


Example Workflow Logic (20ft x 10ft)

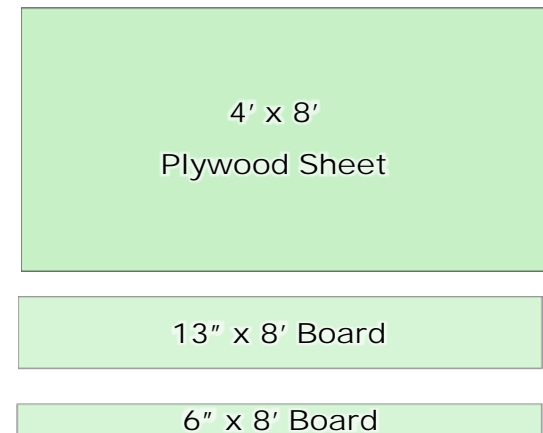


★ Analyze your workflow and Dead-Space for each machine! Identify Interferences and Capacities for each

Workflow Arrows Template



★ *Use these Arrows to Analyze your workflow, capacities and Dead-Space for each machine* ★

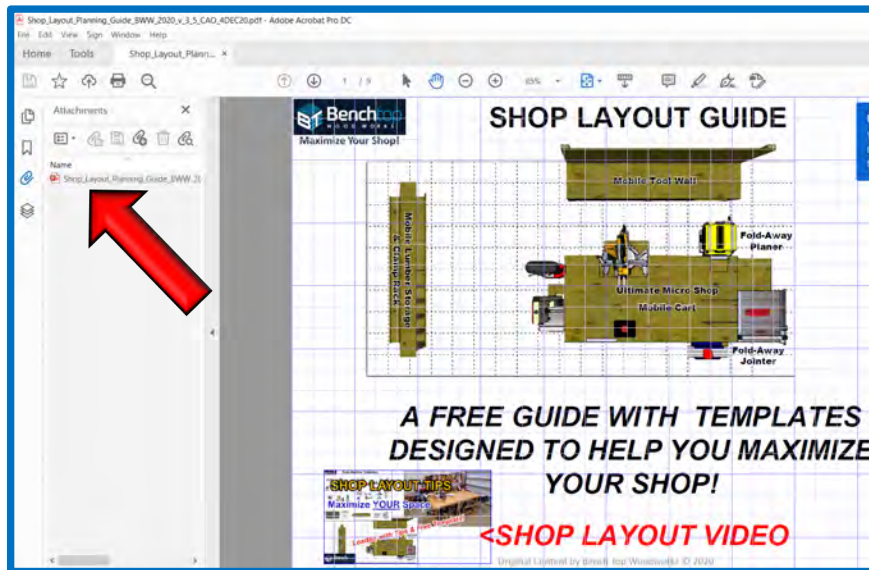


PowerPoint Opening Tips

How to Located and Open the Attached .pptx File:

Note: There is an attached Microsoft PowerPoint File attached to this PDF for your use! Some folks have had difficulty locating and opening it. These instructions are for Adobe PDF viewer, if you are using a different program the steps will be similar, but specific to your PDF Viewer. The PowerPoint file must be opened on a computer with PowerPoint installed or using a program like Google Documents.

1. Look to the Left Side of your PDF Reader. If the File is not visible, follow the next steps:

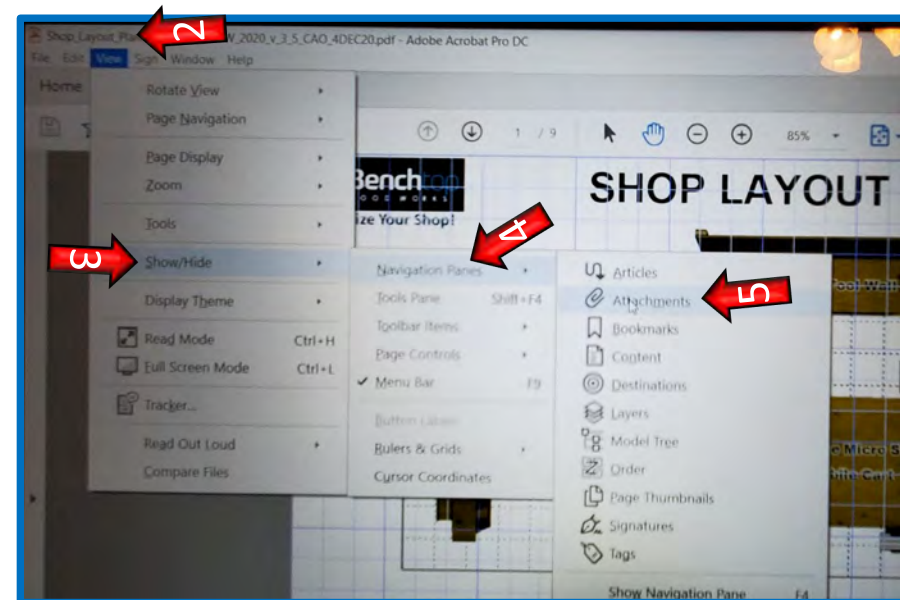


2. In the top menu select “View”

3. Select “Show/Hide”

4. Select “Navigation Panes”

5. Select “Attachments”



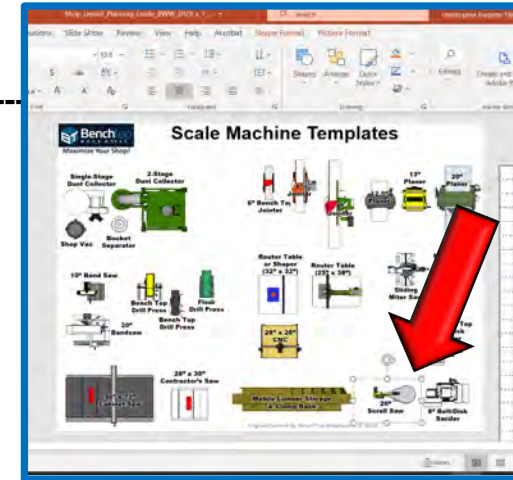
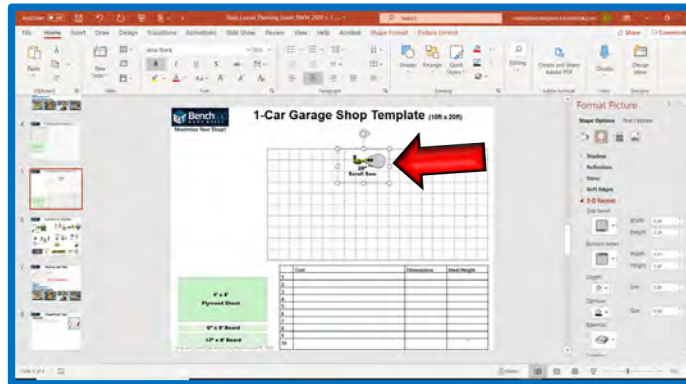
6. The attachment bar will open and the .PPTX files will be visible. Select and open the file!

PowerPoint Editing Tips

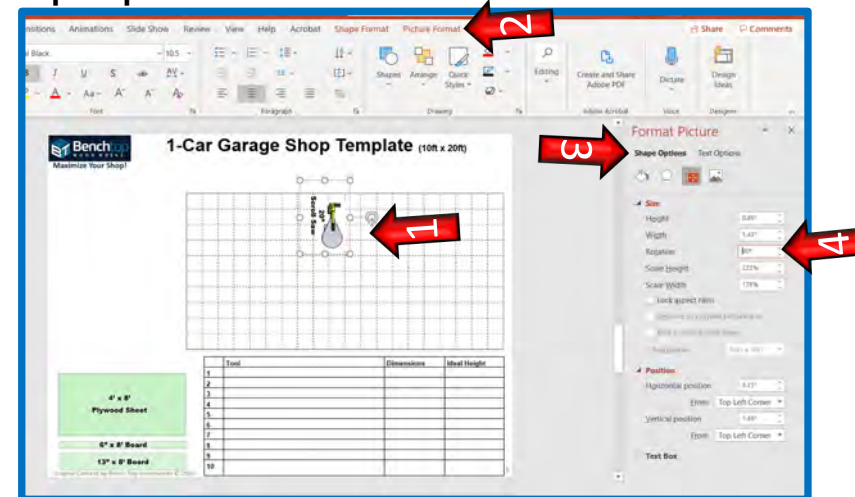
Maximize Your Shop!

How to move & rotate:

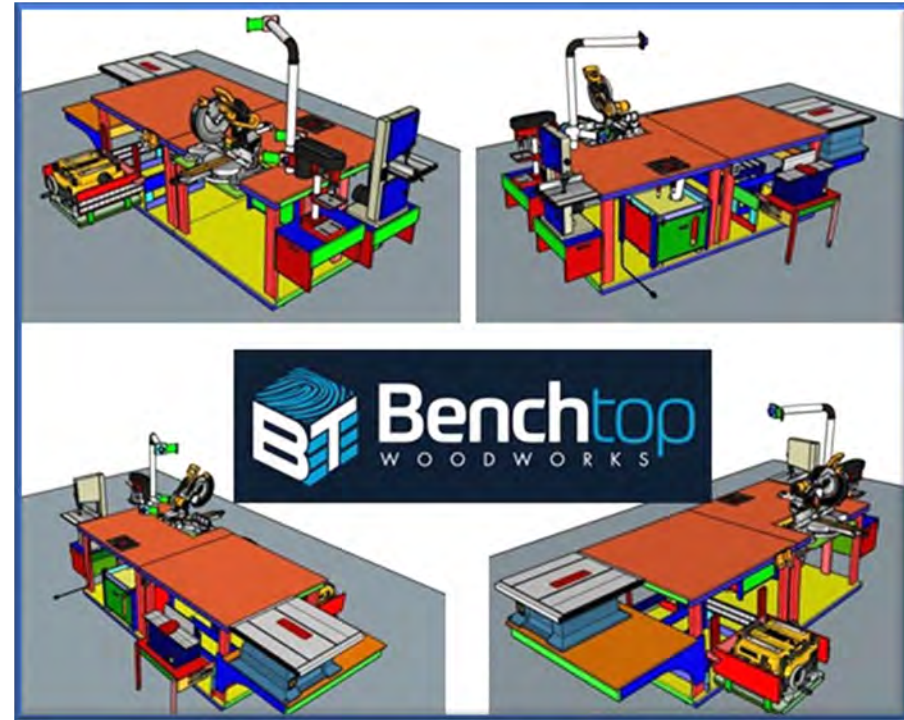
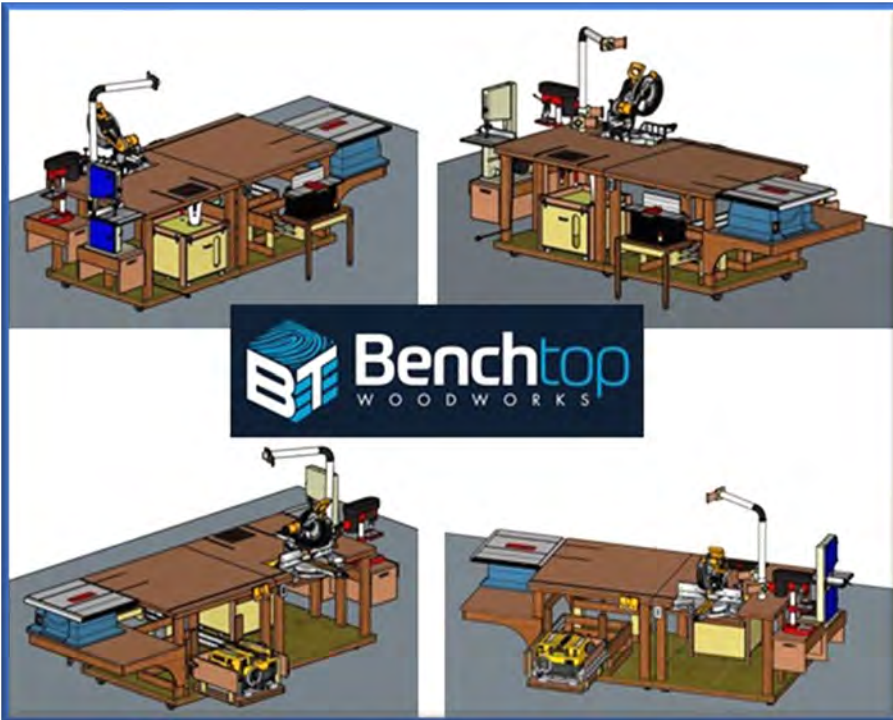
1. Go to the machine templates page, select the machine you want.
2. Right Click & "Copy"
3. Go to the shop template page and "Paste", drag to where you want it.



4. To precisely rotate: Select the item > format picture or shape > Shape Options > Dimension icon > Size > Rotation



5. To remove text: select the machine area (both text and machine will select), click a 2nd time directly on the text, edit delete the text as needed.



My Story:

I grew up woodworking and apprenticing under my father. He was a shop teacher for 33 years & a woodworker his entire life. Some of our best memories were in the shop or on the job-site. I'm an engineer by training, but leader by trade. My family and I have moved around 6x during the past 10 years for my job in the Army. I've renovated several houses & built furniture for my family, friends and customers along the way. Its not easy to keep a shop that's both fully-capable and moves easily, so I designed my layout to solve those challenges.

In 2015, I was encouraged to share some of my experience and passions for teaching, woodworking & doing so in a 'small' footprint. This was when I launched my business, BenchTop Woodworks. This has all been in my limited 'spare time' I have been deliberate to not allow it to compete with family time and other priorities. By purchasing one of my plans or made to order items, you've helped me to continue doing what I enjoy & support my family. I'm very grateful for your business and support. I hope this free shop layout guide helps you maximize your shop space! Feel free to share with others that might be able to get some use from it!

-Chris Harpster