

Cutting Tenons



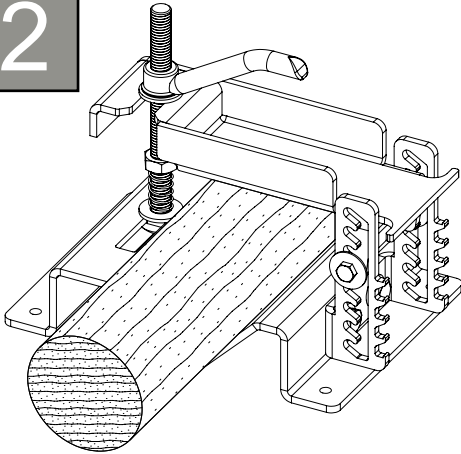
WARNING: If the log comes loose or unclamped while cutting the tenon, **DO NOT** drop the drill or try to grab the log! Stop the drill and remove it from the end of the log. Re-secure the log, and resume cutting

1

- Obtain the log you want to tenon
- Cut it to length and make sure the ends are flat. If the ends are not even/flat, the tenon will be crooked



2



- Secure the log in a vise, clamp, or fixture with a “V” shaped notch
- The **Log Lock (LL1545)** is a safe, easy, economical way to clamp logs, and is available on our website

3

- If the log diameter is larger than the tool can accept, taper the end with a draw knife



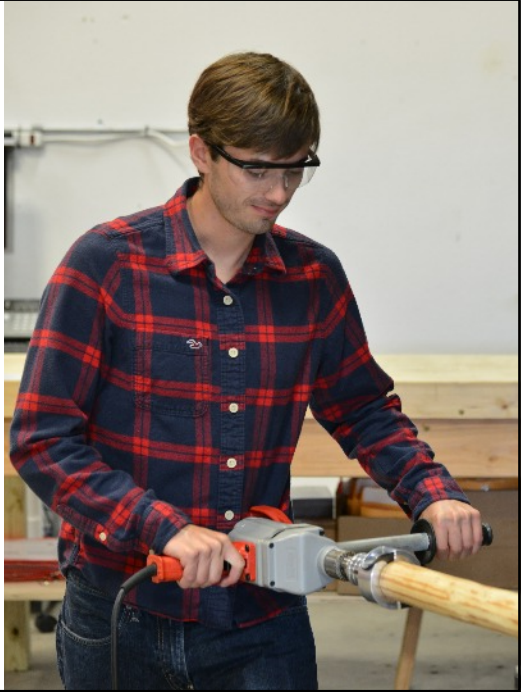
Cutting Tenons (cont.)



ALWAYS unplug the drill before adjusting the blades or adjusting the chuck

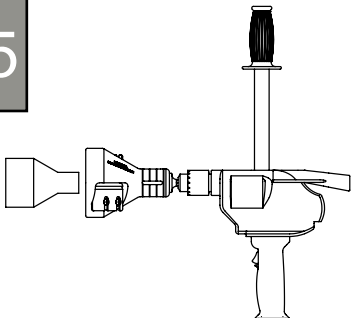
4

- Carefully install the tenon cutter into an unplugged 1/2" drill, and tighten it firmly. Use the tee handle to tighten the chuck
- Square up to the log so that the cutter is flush against the flat face of the log
- Apply body pressure by leaning into the drill before starting the drill
- Pull the trigger to cut the tenon
- Wait until the drill comes to a stop before removing the cutter from the log



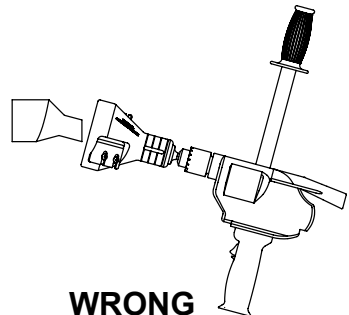
- Make sure the tool is square against the end of the log before cutting
- If the tool is held at an angle the tenon will be cut angled

4.5



CORRECT

Drill in-line with log



WRONG

Drill not in-line with log (crooked)

Drilling Holes (Mortise)

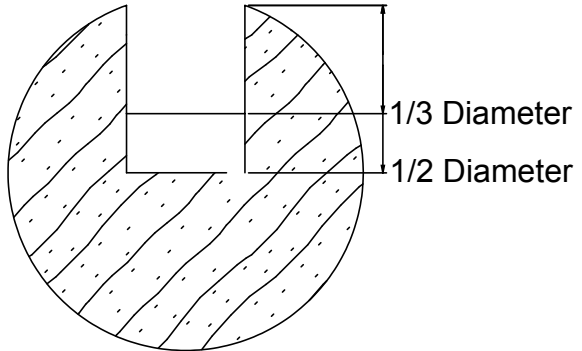
1

- Measure and mark the locations of all holes before drilling
- Place the center of the bit on the desired hole location
- Take care to hold the drill perpendicular to the log
- Use a forstner bit (or spade bit) to drill the hole



2

- Drill mortise between $\frac{1}{3}$ and $\frac{1}{2}$ of the log diameter
- Do not drill more than $\frac{1}{2}$ of the log diameter unless a specific project calls for a deeper mortise



Additional Tips

- It takes time to master using these tools
- Make a plan of what you want to build before you begin
- Have a list of all tools and materials you will need
- Do not over complicate your first few projects
- Practice reading the natural twists and defects in the wood
- Practice cutting tenons and using the tools on scrap material