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## DrillWizard Instructions

The **ONEWAY DrillWizard** can be used to drill cross holes in spindles and chair / stool seats in the production of furniture. When mounted in the banjo (toolrest base) on a lathe with indexing capabilities, holes can be drilled at various angles and at indexed positions (i.e. 0, 90, 180, & 270 degrees).

The compound lever action makes drilling holes as large as 1" a breeze, even in hardwood spindles!

**IMPORTANT:** Combination drill (and screw drivers) with a clutch mechanism may not work with this jig.

### Cross-Hole Drilling & Initial Setup

To use the DrillWizard set it up as shown in **Figure 1**. The drill holder is made to clamp onto the 42 MM ring that is standard on most corded hand drills. Install the drill as shown.

**Note:** The DrillWizard works best if the drilling is done with your left hand and the drill mount is mounted in the front holes of the slide.

Make sure you are drilling on center by **adjusting the collar** on the post. If your drill is too high there are extra holes on the bottom of the drill holder and you can re-mount it lower.

Using the hex adjusting bolt, tighten the rotating black scale with the pointer at the ZERO position as shown in **Figure 3**.

Figure 1.

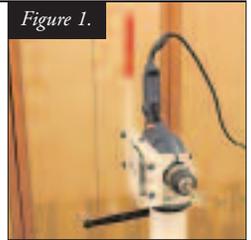


Figure 2.

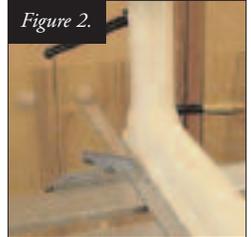


Figure 3.



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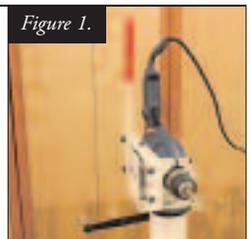


Figure 2.

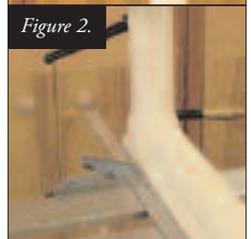


Figure 3.



Square the banjo to the bedways, and clamp the banjo to the bed (refer **Figure 2**.)

Bring your Tailstock barrel up to the DrillWizard. Loosen the toolrest clamp and square the DrillWizard as shown in **Figure 4**. Tighten down your toolrest clamp.

### **Important Notes:**

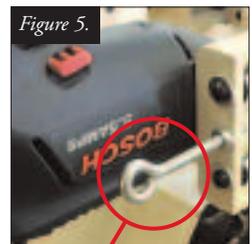
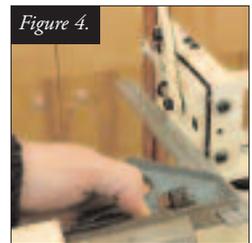
1. Do not loosen off the toolrest clamp again. Any angular adjustments are made by loosening the hex bolt and setting the angle with the scale.
2. Positioning is done by moving your banjo along the bed of your lathe and then squaring up the banjo when you have it in the correct location (Refer **Figure 2**).

### **Hole Depth**

The eye bolt on the end of the DrillWizard is for setting the depth of your holes. The thread on the eye bolt is 20 threads per inch so each turn of the screw is equal to .050 inches i.e. 1/2" is equal to 10 turns on the screw. Once you have the depth set, you can lock the eye bolt in place with the locking nut so that you can repeat the depth.

### **Drilling the Holes**

1. To drill a hole, loosen the hex bolt and set the required angle. Re-tighten the hex bolt **before** drilling.
2. Move the banjo into the correct position along the spindle. Remember to square the banjo to the bed every time it's moved (refer to Figure 3.)
3. Check for clearance when using indexing such as when using square stock.
4. Set (or check) the hole depth.
5. Drill the hole(s).



*Eyebolt  
(used to set hole depth)*

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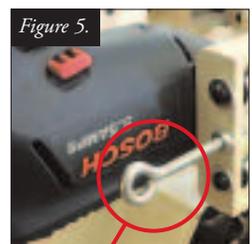
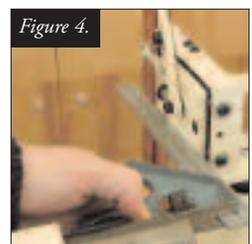
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