

## PROFESSIONAL DOWEL JIG KIT

### COMPONENTS

1. 1 x Doweling Jig
2. 1 x 2.5mm Hex Key Wrench
3. 3 x Drill Depth Stops 1/4", 5/16", 3/8"
4. 3 x Brad Point Drill Bits - 1/4", 5/16", 3/8"
5. 9x Drill Bushings – 3 x 1/4", 3 x 5/16", 3 x 3/8"  
(Three assembled on the doweling jig- see jig below)
6. 3 Center Points – 1/4", 5/16", 3/8"



5 Year Limited Warranty

**SAFETY WARNING:** Read, understand, and follow your power tool manufacturer's instructions for safety. Always wear safety glasses or eye shields before commencing power tool operation. Always keep hands, face, and body at a safe distance from spindles and cutting tools. Always keep a firm grip on tool handles when in operation. Always disconnect from power source before adjusting power tools.

### TIPS

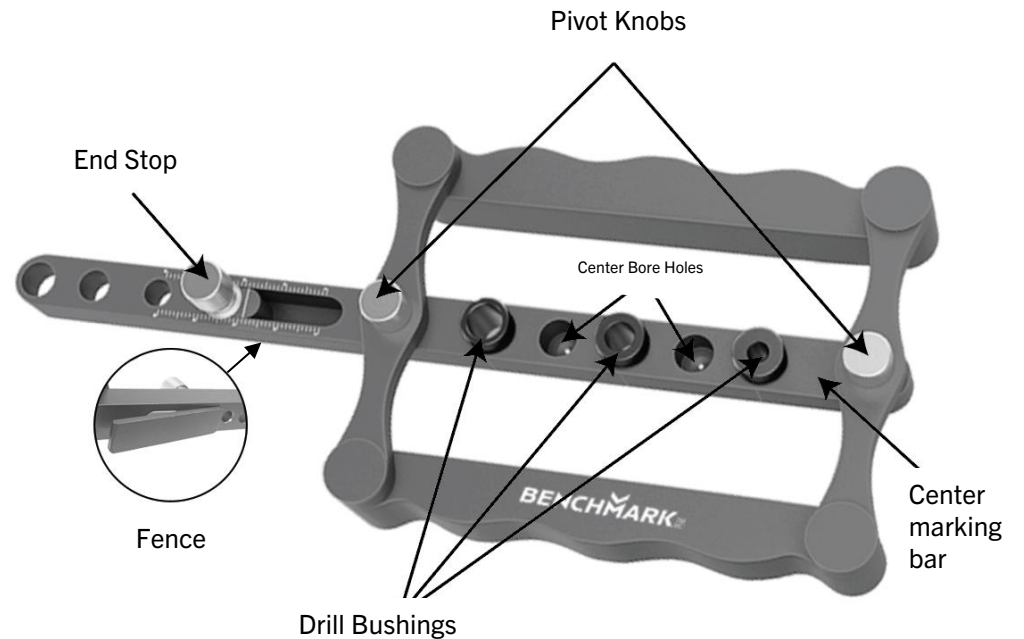
1. For narrow stock pieces it may be necessary to shorten the dowel pin or to drill a deeper hole in the edge of the matching board.
2. It is always a good idea to make practice joints on scrap stock pieces before using your new dowel jig.
3. Be sure to use the depth stop to prevent drilling too deep and to achieve desired drilling depth on all your holes.
4. Only use 1/4", 5/16" and 3/8" drill bits with this jig to avoid damage. Always withdraw the bit to clear out the wood shavings from the hole and drill bit.
5. Do not glue up your boards until you have the entire dowel joining process complete. Gluing your stock too soon may result in an undesirable fit of your joints.

### NEED ASSISTANCE?

Call us on our toll-free customer support line:  
1-866-349-8665 (Monday-Friday 9am-5pm Eastern Standard Time)

- Technical questions
- Replacement parts
- Parts missing from package

### KNOW YOUR PROFESSIONAL DOWELING JIG



**USING THE PROFESSIONAL DOWEL JIG****DRILLING THE FIRST HOLE**

This jig does not require clamping to the board to be drilled. Simply lay the jig on the board from 5/8" (17mm) to 2" (50mm) wide and squeeze it together.

**NOTE:** The center marking bar will be precisely centered.

1. Choose the best dowel pin size based on the thickness of your project boards. See Fig. 1 below.

BOARD THICKNESS	DOWEL PIN/DRILL BIT	BOARD THICKNESS	DOWEL PIN/DRILL BIT
1/2"-5/8"	1/4"	13mm-16mm	6mm
5/8"-3/4"	5/16"	16mm-19mm	8mm
3/4"-1 1/2"	3/8"	19mm-38mm	10mm

Fig.1

2. Determine the drilling depth, based on the joint you are making.

**NOTE:** Holes generally should be drilled 1/8" deeper than the length of the dowel's insertion depth, to provide room for glue.

3. Select the drill bit that corresponds to the selected dowel size (Fig.1) and put the drill depth stop on the drill bit at the desired depth. Tighten and loosen the drill depth stop on the bit with the supplied hex key.
4. Secure the first workpiece in a vise or clamp.
5. Install the drill bushing, which corresponds to the drill bit size chosen, into the dowelling jig.
6. Shift the dowelling jig onto the board and position the drill bushing over the desired dowel (drill) location.
7. Firmly squeeze the jig to clamp it onto the workpiece.

**NOTE:** The end stop, in conjunction with the fence, can be used to set drill locations accurately between 0-23mm, the '0" setting is approximately 10mm from the edge of the board.

8. Drill through the drill bushing on the Dowel Jig and into the board.
9. Empty hole of wood shavings.

**DRILLING SUBSEQUENT HOLES**

10. Loosen clamp and slide jig so that the drill bushing is now aligned with the next desired hole, adjust end stop and fence (if required) to hold in place.
11. Squeeze the jig to tighten onto the board, and drill.
12. If subsequent repetitively spaced holes are required, then remove the end stop and fence from the jig.
13. Chose a center point pin that corresponds in size to the drill bushing.
14. Depending on the space between dowels required, either drop the pin into the first or second hole drilled, or in one of the corresponding holes on the end of the jig. This will ensure a series of accurately spaced holes down the length of the board.
15. Repeat above steps and drill corresponding holes in board #2.
16. Apply wood glue to the dowel pins and assemble the joint.

**NOTE:** It is always a good idea to practice first on scrap wood.

**TIP:** You may want to dry fit your joints before applying the glue to ensure proper alignment of your boards

**BENCHMARK WARRANTY**

If this Benchmark tool fails due to a defect in material or workmanship within five years from the date of purchase, return it to any Home Hardware store with the original bill of sale for exchange. 3-year warranty for the battery and charger. This warranty does not include expendable parts including but not limited to blades, brushes, belts, light bulbs. This warranty covers defects in material or workmanship only. It does not cover normal wear and tear, failure due to abuse/misuse, or defects caused by careless or accidental mishandling. If this Benchmark product is used for commercial or rental purposes, this warranty does not apply.

**BENCHMARK**<sup>TM</sup><sub>MC</sub>

**BENCHMARK TOOLS CANADA**

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