## **Dovetails made easy. No math or measuring!**

# Router Bits Required



# 70134 1/2 inch diameter by 1 inch cut length and 1/2 inch ball bearing





#70133 8° Dovetail bit, 1/2 inch diameter with 5/8 inch ball bearing, or 5/8 inch router guide

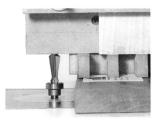


Always the Better Idea.

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Use **Center Finder** at bottom of page to mark center of tail board, then visually center align with one of the slots as shown.



Put Tail Jig (S-jig3) on top of pin board and a business card. Adjust dovetail bit height to just touch the backer board. This will cut a joint with end grain slightly proud (business card thickness) of the boards.



Rout pin slots with dovetail bit producing tail board.





After marking

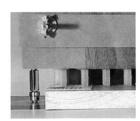
Place
pin board on
table, align tail
board and draw
two lines
showing the
location of one
pin.





Incorrect Correct Incorrect

5 Align pin board marks with Pin Jig (S-jig4) and clamp in place.



Place Pin Jig (S-jig4) on top of tail board and a business card. Adjust pattern bit height to just touch the backer board. This will cut a joint with end grain slightly proud of the boards.

Rout tail slots with pattern bit producing pin board.



Glue joint together and sand end grain smooth.

#### **Center Finder Instructions**

To find the center of the tail board, align the board so the same measurement appears both to the left and to the right of the "0" mark on the center finder.

Center Finder 4

3

2

1

0

1

L

2

3

4

Center Finder

## How to make S-jig3 and S-jig4



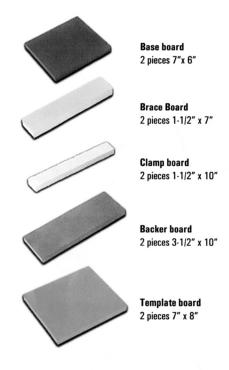
Simply follow the 5 STEPS shown to make both the Tail jig (S-jig3 left) and the **Pin jig** (S-jig 4 right). Both are pictured above in router table use position.

#### **Hardware required**



#10 washers

### 3/4" thick MDF\* boards required



\*TIP: Purchase 3/4" thick MDF (Medium Density Fiberboard) shelving from your local home building supply store

S-jig3 and S-jig4 can be used with both hand held and table mounted routers

Tail Jig S-jig3 in Table mounted router position



Pin Jig S-jig4 in Hand held router position





Glue and screw (with two 1-1/4" screws) base board and brace board making sure that the boards are square. Pass over joiner or cut edge with table saw as shown above.

Tail Jig

NOTE: two complete assemblies required. HINT: Pre-drill holes.



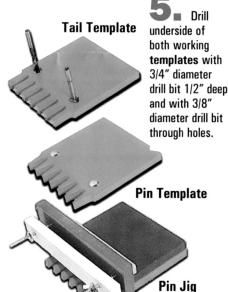
Screw backer board to base and brace assembly with two 1-1/4" screws into brace. CAUTION: Make sure screws will not be cut by router bit during use.

Clamp backer board assembly and clamp board together 1" up from the bottom edge of backer board. Drill 5/16" holes 1-1/4" from each edge of clamp board. Insert carriage bolts from back, add large washers and wing nuts.

**NOTE:** Two complete assemblies required.



Screw Template Master™ to template blanks with two 3/4" #10 screws and two #10 washers 2 inches from back edge. Rout template blanks with pattern bit to make working templates.





Attach working templates to backer board assemblies with two 3/4" #10 screws and two #10 washers. Use paper spacers between base and working template to square the backer to the template. Refer to User's Manual on how to make test cut and how to adjust working jigs. After adjusting, use the remaining four 1 1/4" screws to lock the working templates in place.

