

Wing Jig Information

Large Jig (Red / Blue)

Maximum Span Possible: 72 inches

Maximum Clearance (Bottom of Rails to Supports): 1.25 inches

Nominal Diameter Mounting Rails: 5/32 inches

Nominal Distance Between Mounting Rails: 2 inches

Important Note: Make sure dihedral angle is set to what you desire

Small Jig

Maximum Span Possible: 36 inches

Maximum Clearance (Bottom of Rails to Supports): 1.925 inches

Nominal Diameter Mounting Rails: 1/4 inches

Nominal Distance Between Mounting Rails: Variable

(anywhere 2.5 inches to 5.5 inches should work)

Important Note: Make sure base is square unless you want sweep

With the Laser Cutter

I tested a variety of sizes for the two jigs. The nominal dimensions above will work for sure. However, I found the optimal sizes in Pro/E to be:

Large Jig Rail Diameter: 0.145 inches

Large Jig Distance Between Rails: 2 inches

Small Jig Rail Diameter: 0.24 inches

I have placed my test samples in the tall locker if you wish to see the difference 0.01 inches or 0.02 inches makes. The first piece tests the different diameters and has holes of:

0.21, 0.23, 0.25, 0.27, 0.29 inches,
0.11, 0.13, 0.14, 0.15, 0.16, 0.17, 0.19 inches.

The second piece examines different widths and contains tests of:

1.95, 1.98, 2.00, 2.02, 2.05 inches.

In general, you can tell the difference 0.02 inches makes but with wood and glue, exact dimensions are not quite as critical. Basically, I would suggest using the nominal dimensions or my optimal dimensions above. I have placed one of each jig on the Aero side of B019 so you can test the first piece you cut out to ensure it will work.