BenchMark

Several of the rip fence systems that come with a tablesaw or that can be purchased aftermarket require a continuous surface for the support pad on the rip fence. This is the primary purpose of the right extension table but it also supports stock when making wide rips. On machines like the Unisaw an extension table can be purchased or the table can be made in the shop.

The extension table described here was built to satisfy the following requirements:

- 1. Have a table surface that can be accurately aligned to the cast iron table of the saw.
- 2. Does not hinder machine mobility.
- 3. Maintain table alignment when the machine is moved.
- 4. Incorporate a router.
- 5. Be long enough to support a 30" Unifence.

The table is made of 3/4" material which in itself would not be sturdy enough; a web frame is added to the bottom side of the table to increase its strength. The frame does not extend to the perimeter; if the frame were extended the angle iron support frame would have to be lowered which would have interfered with opening the motor cover door. The down tubes (as shown) do prevent the motor cover from opening fully but the opening is sufficient for cleaning.

The support frame for the table is a 1 1/2" angle iron weld-up. It is attached to the cast iron table using the three bolt hole pattern in the side of the iron table used to attach an extension wing. The support frame is supported in turn by down-tubes attached to the saw cabinet. In order to make the support frame removable, these down tubes are welded to plates which are in turn bolted to the saw cabinet. The down tubes could be bolted or welded to the support frame where they attach.

The table surface is attached to the support frame by a series of 1/4-20 bolts with jam-nuts that can be used to very accurately adjust the table surface. These bolts can also be used to un-warp the table if needed. The primary benefit of using the bolts to attach the table is that is uncouples the support frame from the alignment of the table. The effect is that the support frame need not be perfectly aligned with the machine in order for the table to be in alignment.

It is important to note that this design will shift the center of gravity of the saw towards the extension table by enough that the machine could tip over if the extension table is overloaded. This design requires a suitable mobile base. The machine must be firmly attached to the base and the base itself must have a sufficiently long wheelbase to prevent tip.

The router insert is located as close to the saw as possible. This was done primarily because of the location of the saw in my shop would not allow access to a router mounted at the far end of the table due to the saws' placement abutted against a wall. The router installation is not permanent like most router cabinet setups. It should also be noted that with a router installed (as shown) the motor cover cannot be opened. There are two sets of drawings which show the table dimensions, they are the same except for the rotation of the router insert.

The design shown is not suitable for all applications, the driving element for the design of the support frame is mobility. This particular design could be adapted to a stationary machine as well. In that application, a table that can be easily aligned would be just as beneficial.

EXTENSION TABLE FOR A CABINET SAW



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