



F11 TS Production



Below are some production number provided by a customer operating the OmeC F11TS single spindle CNC dovetail machine. These are the cycle time numbers he provided based on his specific dovetailer.

*12" drawer boxes with 12 pins - 50 seconds to machine all four parts or 72 boxes per hour.
9" drawer boxes with 9 pins - 44 seconds to machine all four parts or 81 boxes per hour.
4" drawer boxes with 4 pins - 34 seconds to machine all four parts or 105 boxes per hour.
3" drawer boxes with 3 pins - 30 seconds to machine all four parts or 120 boxes per hour.*

The limiting factor for the production of drawer boxes, on the OmeC F11TS machine, is the operator. **It's very difficult for any operator to exceed 80 boxes per hour** production due to the number of parts to be handled (80 boxes = 320 parts which they have to load twice to machine each end or 640 cycles). Based on the above information you should be able to extrapolate the production capacity for other sizes you may offer.

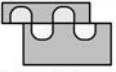
Here are some of the advantages of the Omec F11TS System:

- 1) **Variable Pitch:** *The need to remove tooling for odd size boxes is eliminated.* The Omec F11TS is both a fixed pitch and a variable pitch machine. Your current 1" patterns can be duplicated or you can eliminate the unbalanced drawer box appearance by allowing the machine to adjust the pitch to fit the material you wish to dovetail. The actual size of the joint can be automatically calculated and altered to give you the best appearance possible and allow your customers to **order any height drawer box** (within the 30" limit) with no special set up to produce odd sizes. All touchscreen and CNC adjusted.
- 2) **Simultaneous Cutting:** Males and female parts are cut simultaneously by the same tool ensuring a good fit each time. This is especially beneficial to operations running a "kitchen at a time" of components. You currently cut your males and females at separate stations which requires you keep the two machine precisely adjusted to each other.
- 3) **One Side Loading:** The Omec F11TS machine is operated from one side only minimizing the working footprint. With all operator functions occurring on one side of the machine, the dovetailer can be placed against a wall if needed. Access to the back of the machine is required for maintenance only. You will no longer have to operate the machine as an island allowing access to three sides.
- 4) **Pendulum Processing:** It is often believed that a multiple spindle machine is faster than a single spindle machine. This is true if you only consider the time taken to do the milling of an individual part and not the time to actually process the parts. The Omec machine allows the operator to load two parts while the dovetailer is machining two other parts. Your multiple spindle machines requires the operator to load two parts, wait for the cycle to complete, and then load two more parts. The operator is effectively always waiting on the dovetailer to finish a cycle. With the pendulum processing utilized by the Omec CNC dovetailer, the machine is usually waiting on the operator maximizing the operator's productivity.




- 5) **2-Button Height Change with 40-File Memory:** Changing drawer sizes from one saved size to another requires no more set up than retrieving a new program from the controller. Unless you change the thickness of the material being machined, there are no mechanical adjustments when going from program to program.
- 6) **Dado cut:** The 1st dovetail location can be adjusted to cut the drawer bottom's dado, avoiding a hole in the drawer end.
- 7) **Score:** On/off scoring is available with most automatic dovetailers including Omec. Though unnecessary in most shops dovetailing solid stock. The scoring feature adds a considerable amount of time to processing and predominately unnecessary when chip-breakers are used and the unit is properly programmed.
- 8) **Cut depth:** The F11TS touchscreen asks you cut depth, so you can make the female a little deeper, giving a glue pocket to the joint.
- 9) **Tool size:** With the concentric bit of Omec, we adjust the bit size electronically, allowing us to manipulate the operation to tighten or loosen the joint as needed. Omec's alignment requires a few keystrokes and others require a wrench.
- 10) **One Mill Cutter:** The Omec F11TS uses only one mill cutter making tooling changes quick and easy. The tool used on the F11TS is a helical twisted, double fluted, and solid carbide. This enables the machine to cut smoothly and quietly through most materials. We also offer tooling in diamond for those operating in more abrasive materials such as MDF or plywood. The tool is mounted in an ER25 collet on a Columbo router motor. (Keep in mind, this machine is effectively a two axis CNC router.) Tool change is relatively quick and simple with tool diameter being adjusted on the controller.
- 11) **Global Tooling:** The Omec F11TS requires one input into the touchscreen when a mill cutter is changed. By inputting the new size of the cutter in one location the software will automatically adjust the field in all saved files. Compare this to changing 25 tools on two machines and the required attention to match adjustments exactly.
- 12) **Ball Screw Drive:** As used in CNC routers, the Omec F11TS is driven on a Ball Screw drive system, maximizing accuracy with the least amount of maintenance. Other machines still run on hydraulics or belt drives with considerably higher maintenance costs and downtime.
- 13) **Linear bearing vertical stop:** The F11TS uses a linear bearing vertical stop that moves out of the way of the tooling. Others use a rake design similar to our manual machines. The rake design can get out-of-line with the spindle, having the bit collide with a rake tooth resulting in considerable damage.
- 14) **Optional Bar Code Scanner:** The optional bar code scanner automatically loads the correct program with minimal operator input. This streamlines the process of producing small quantities of various sizes, minimizing the time wasted setting up for different sizes.





F11TS-Automatic Pitch	
Side Width	100.00
Distance 1st Joint	5.00
Joints Number	3
Male Thickness	12.00
Female Depth	12.20
Machining Speed	4000
Joint Displacement	0.00
Engraver	0.00



Male/Female Joint



Offset

 
Broad boards **OFF**
 

A few current users of the Omec F11TS:

Bellmont Cabinets
Hoff Enterprises

Blockhouse Company, Inc.
WaltzCraft, Inc.

Indiana Furniture, Inc.
Benedettini Cabinetry

The Omec F11TS dovetailer is unique in that it's a production dovetailer, yet it is likely the most versatile dovetailer available today. This is consistent with Omec's approach to their drawer box clamp and automatic gluer as well.

Here is our video link showing the F11 in service and illustrating some of its capabilities:
<<http://www.youtube.com/watch?v=xPtz-4HJw9o>>

Please do not hesitate to call if you have any questions or if we may be of further assistance.

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NOTE : Macoser , Inc is the sole Importer of Omec S.r.l machines and parts in the USA market.