



650 A Dovetail Machine



Key Advantages of the OmeC 650A Dovetail Machine

If you're ready for an automatic dovetailer, look at these advantages before making your decision:

1. **Continuous cycling:** The OmeC 650A has pendulum loading: While one side (left or right) is cutting the operator is loading the other side. With a good operator this machine constantly runs. Other machines have to complete the cycle before unloading and running again, constantly stopping.
2. **Score:** On/off scoring is available with most automatic dovetailers including OmeC, though unnecessary in shops using solid stock for drawer sides. The scoring feature adds a considerable amount of time to processing and is usually unnecessary when the unit is programmed correctly for the material being used and chip-breakers are implemented.
3. **Concentric tooling:** OmeC dovetailers change to concentric (2-sided) tooling on the automatic machines. Most competitors use eccentric (1-sided) bits which cannot cut plywood cleanly, increasing tool wear and replacement frequency. Tooling in the automatic machines are flatly seated in the collet.
4. **Tool size:** With the concentric bit of OmeC, we adjust the bit size electronically, allowing you to tighten or loosen the joint as needed. An eccentric bit has to be adjusted mechanically. Both have to be re-aligned with every bit change or sharpening, however, OmeC's alignment requires a few keystrokes while others require a wrench.



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5. **Cut depth:** The 650A touchscreen asks you cut depth, so you can cut the female a little deeper, giving a glue pocket to the joint. There is no opportunity to adjust cut depth on others.
6. **Part width:** Omec 650A Dovetailer asks for the part width (drawer height). Without this information, the computer can't calculate the dovetail quantity to part size. The operator could put in a 4" piece and ask for 10 dovetails and it will run. The 650A will give you an error message, alerting of inaccurate information.
7. **Flexibility:** Inputting the 1st dovetail location allows flexibility from 1" to 1-1/4" on drawer sizes. Without this measurement your drawer heights are fixed at 1" increments. The Omec 750CN's variable pitch can cut all sizes of drawers (within height limits).
8. **Dado cut:** The 1st dovetail location can be adjusted to cut the drawer bottom's dado, avoiding a hole in the drawer end.
9. **Fixed Pitch:** Omec 650A will cut both the 25 and 50mm dovetail (1/2" and 1" pins). It requires no part removal, loosening of (2) bolts, sliding the fence and a keystroke to change pitch.
10. **Fixed Fences:** Left and right fences are fixed with the 650A, so Zero remains the same. Adjustable fences on Servo driven dovetailers will require locating Zero for its start point.
11. **Linear bearing vertical stop:** The 650A 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, forcing the bit to collide with a rake tooth resulting in considerable damage.
12. **Ball Screw Drive:** As used in CNC routers, the Omec 650A and above are 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. **Memory:** Most machines offer memory to store drawer sizes. Omec allows you the opportunity to create multi-character file names and store up to 40 files. Example: File Name: "Pencil Maple" would be the same size as "Pencil Ply". These may be the same size drawer, but have different tool calculation (joint tightness) and travel speed.

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