

**OMEC 650-M**  
**THE FIRST STEP TOWARDS THE**  
**MANUFACTURING OF DRAWERS**  
**AND FURNITURE PARTS**

The OMEC 650-M is the biggest model of manual milling machines manufactured by the OMEC company.

It is a full manual machine composed of a milling head that uses a pin to copy a template with four different joint pitches: 25-40-50-80mm.



The joint pitch, i.e. the male size, can be changed manually by loosening the two fastening screws of the template and rotating until the desired size reading appears on the lower side.

Workpieces are locked manually by means of pneumatic cylinders controlled by lever-operated valves that are fitted onto the machine base.

The milling machine is very easy to use. Adjusting screws can all be accessed from the front side of the head.



The milling cycle is obtained by gripping the two levers on the sides of the head and copying the contour of the previously adjusted template. This machine can process single male workpieces, single female workpieces as well as combined male-female workpieces.

The spindle is fitted with an eccentric milling cutter with only one cutting side. Therefore, after the sharpening procedure, the outer diameter can be adjusted by simply rotating the milling cutter towards the + symbol. This adjustment allows operators to sharpen the tool several times before replacing it.

With this operation it is also possible to adjust the joint's coupling depending on height.

The spindle's motor can be provided in the three-phase or single-phase version, so that it can be used non only for industrial purposes.

The high number of revolutions of the tool's motor guarantees a perfect machining of solid wood.

Compared to the smaller manual model (OMEC 450-M), this model has a larger worktop that allows operators to machine two male-female workpieces on the left side and another two on the right side, thus reducing significantly the machining time. The use of a pneumatic locking system, which offers workpieces a greater stability, is another way to increase the manual feeding speed of the milling head.



The equipment for the machining of small workpieces can be used to easily manufacture drawers with a front width up to 130mm.

We can therefore state that the Omec 650-M milling machine is the reference model for carpenters who need to manufacture small production lots with a high quality.

The machine can be equipped with several optional tools that make it suitable for many types of works.

The chipping of sides on the tool feeding area can be avoided by installing a set of wooden deburring tools on the reference stroke-pieces.

The special pitch kit allows for the machining of pitches of 16-18-32-36mm.

Using cylindrical milling cutters with standard pitches or with the special pitches provided, it is also possible to manufacture parallel joints of different sizes (8-9-12,5-16-18-20-25-30mm).

The kit with the rectangular pass-through male piece can be used to obtain some types of joints that used to be machined manually by master carpenters, such as: dovetails on sides and rectangular joints on fronts.

A specially designed template can be used to manufacture mortise joints of both blind and pass-through type.