

## OMEC F12 MILLING MACHINE FOR BOTTLE RACKS

Currently, the production of bottle racks and internal partitions for wood packing boxes involves quite non-standardized procedures and considerable labour. Production times are therefore quite long, costs high, and quality is not always what it should be. On the basis of these considerations, our company has developed the OMEC F12 milling machine.



This machine lets you automatically produce bottles racks and internal partitions for boxes.



The machine has a sheet steel base on which the loading magazine, a feed system, a milling head and a stacker are mounted. The machine is controlled by a 5-axes numeric control. One axis controls piece feed, two axes control the horizontal interpolation movement of the milling head and the other axis controls the vertical movement of the milling head. One axis controls the width adjustment for the loading magazine and for the stacker.

The fully automatic work cycle involves inserting the pieces to be worked in the infeed magazine, the pieces are fed to the blocking zone, the milling cycle starts, then the pieces are fed to the outfeed magazine stacker.

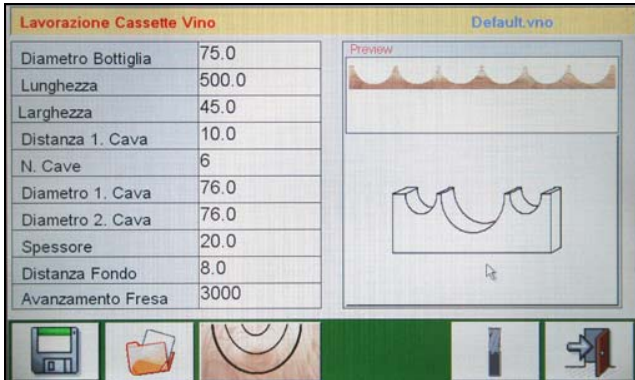
The machine works pieces in packs at a height of 24 mm; this means 4-6 pieces can be produced at a time. A bottom deburring unit is also used for burr-free machining of the pieces.

The machine is controlled by a pushbutton panel and a control panel.

The numeric control runs a Windows® CE operating system and dedicated software to produce racks and internal partitions for all types of boxes (for one bottle, two bottles, three bottles, six bottles side-by-side, and six bottles stacked). The software has been programmed for the maximum machining flexibility and lets you modify the size and number of bottle holders, the distance of the bottle holders from the edge, the size of the pieces, the cutting and tool feed speed and the compensation of tool diameter variation, within the operating limits.

All the machining data can be entered with a simple procedure, following the software instructions on

the machine's control panel with a touch screen monitor.



The CNC system can save up to 600 different machining programmes that can be recalled to suit the user's needs. The machine has a USB port to update the software.

All the work is done with one type of tool. The only manual adjustments required are those necessary for adjusting the dimension of the magazines to the dimensions of the pieces to work. Hourly production is 1000 pieces/hour.

A set of accessories can be fitted on the machine and optional programmes are available to machine chopping boards, inner partitions and housings for the installation of straps on bottle caps.



The fast, simple adjustments and replacement of tools and the machining programmes make this milling machine very versatile and ideal for manufacturing small and medium size runs cheaply, maintaining a high quality standard.

With this machine you can notably reduce the production cost and energy consumption per unit produced.