

***BC-5 NAILING BENCH FOR ASSEMBLING WINE, SPIRITS, TOOL, AND GIFT BOXES***

The Omec BC-5 nailing bench has been designed to assemble the top and bottom of boxes using staples, panel pins or small nails.

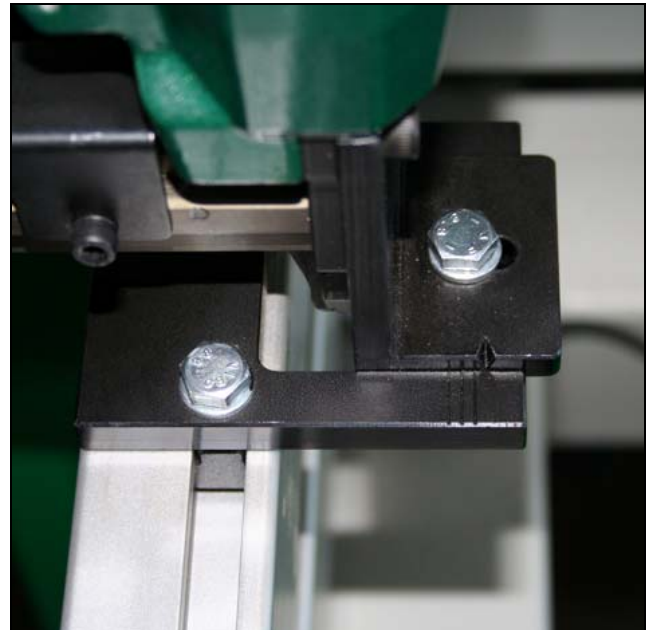


The bench has five nailing machines mounted on an aluminium profile setsquare: three on the long side and two on the short side.

All the adjustments are fast and easy. The machine is controlled by an electric panel with a PLC integrated in the base.

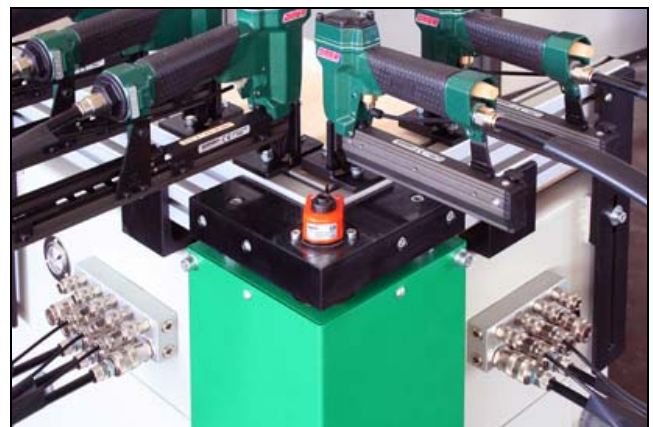
You can change the position of the nailing machines by simply loosening the screws on the horizontal clamp. The minimum and maximum distances from the centre of the nailing machine to the edge of the box are: 30-400 mm for the short side, 30-550 mm for the long side. Therefore, boxes with the following maximum and minimum dimensions can be worked: 80-450 mm for the short side and 80-600 mm for the long side.

You can adjust the thickness of the boards with the vertical clamp so the nail is exactly in the centre of the board. The thickness can be adjusted from 5mm to 16 mm.



The bench also has a presser on the long side that keeps also boards that aren't perfectly flat held against the setsquare. The presser can be activated with a selector on the control panel of the machine.

The height of the boxes can be adjusted with a handwheel that has a position indicator. The bottom aluminium setsquare is fixed; the top setsquare can be adjusted to a maximum height of 260 mm.



The work cycle is controlled by a sensor on the support setsquare. Simply place the box on the setsquare to enable the nailing cycle.



machines can be fitted on the basis of the final user's requirements. The same goes for the type of nails to be used, which can be chosen when the machine is being ordered.



On boxes with just a bottom, the operator nails the two sides of the box, then turns the box over and nails the other two sides. On boxes with a top and bottom, the operator repeats the above operations also to nail the top.

The Cycle is fully automatic and timed by a PLC: the operator places the box to assemble on the support set-square. The horizontal supporting bench rises and moves the bottom up to the stop on the nailing machines, which then nail the piece. Then the horizontal bench returns to the rest position, ready for another nailing cycle.

The machine has a safety system that acknowledges the presence of the box under the nailing machines to prevent nails being accidentally shot out of the machines even if the operator activates the sensor.

Furthermore, when a box with a top and bottom is nailed with the presser on the long side activated, the bench acknowledges the presence of the top and prevents the presser rising when the bottom has been nailed.

The work cycle is extremely fast, despite the fact that there are four nailing cycles per box, and 120 boxes/hour with tops and bottoms can be nailed together.

The Omec BC-5 nailing bench is normally sold complete with 5 nailing machines, but it has been designed to allow for a variety of different users' requirements. Therefore, more or fewer nailing