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MODEL VN2E ELECTRONIC VEE NAIL[®] FRAME ASSEMBLY MACHINE

The latest motion control technology is now available in the model VN-2E, electronic vee nail frame assembly machine. The on board computer stores all fastener and clamp position information in its data base memory. Data is manually entered and stored by part number through the keypad and the exclusive "posiloc" fastener position locator.

The on-board data base stores the following information.

- 1 - Part number
- 2 - Number of fasteners per corner.
- 3 - Exact position of fasteners relative to outside tip of corner.
- 4 - Top clamp position.
- 5 - Rabbet clamp position.

Data can be instantly retrieved, revised or deleted when necessary. To actuate a joining sequence, the operator manually enters a part number through the keypad, or with the optional bar code scanner, scans a properly formatted bar code.

The servo controller will then retrieve clamp position-data and the fastener position data from the data base stored in the controller memory. The clamp positions are automatically displayed on the key pad LCD screen. The machine is now ready to go to work. Using the stored data, it is impossible for an operator to use more or less fasteners than has been predetermined for maximum strength and economy. Clamp positions are displayed on the LCD screen for operator set up, no guessing as to the best location that will clamp securely but not mark the moulding.

When all is said and done, the model VN-2E is a smart machine. It allows the operator to repeatedly and efficiently produce high quality miter joints with virtually no skills. Fasteners can be inserted in up to six positions across the miter and up to three fasteners can be inserted (stacked) at each of the six positions.

The ideal application for the machine is for a high volume custom framer or a high production manufacturer of ready made frames or framed art.



PROGRAMMING OPERATION

Part numbers and data entry are entered on the 20 key membrane type key pad. Easy access to standard and optional programs via function keys. High contrast four line LCD display.



Part numbers can also be entered via optional bar code scanning software. On scanning a properly formatted bar code, the LCD keypad display immediately shows top clamp and rabbet clamp positions and fastener position data is downloaded from the data base memory. Bar code scanning is simple, efficient and accurate and it helps to eliminate mistakes common in a high production environment. Bar code scanners can be mounted or hand held as shown.



Optional PC based bar code printing software prints a bar code label with up to three lines of alphanumeric data such as part number, part description, job number, etc. . . . Bar code print outs track intermediate components to complete assemblies.



Entering fastener positions is simple with the unique and exclusive "posiloc" handle. No measuring is necessary, just point and click. At each location where you wish to insert a fastener, place the pointer at the insertion location, press the button on top of the handle and then via the keypad enter the number of fasteners at that location. You can enter up to six positions for fasteners across the miter joint with up to three fasteners (stacked) at each location.

For each style of moulding there is an ideal position for the top hold down clamp and the horizontal "rabbet" clamp. These positions can be determined and stored in the data base memory with the moulding part number. When the operator selects the moulding part number, the screen will display the clamp positions to be used.

Operation is quick and easy. Enter the part number via the key pad or with the optional bar code scanner, set the clamps in the displayed position, place the moulding in position on the table and step on the guarded footpedal. Upon actuation of the footpedal the machine responds instantly advancing to the preselected fastener positions and driving in the number of fasteners selected for each position.

The fastener driving mechanism is rapidly and accurately positioned by computer controlled servo motor with rotary encoder and ball screw. The rotary encoder feeds position data to the computer with an accuracy measured in thousandths of an inch.

IMPORTANT WARNING

It is extremely important that operators be thoroughly instructed in the proper and safe operation of the machine prior to use. Vee nail stampings have sharp edges and can cause serious injury. Hands and fingers must be kept out of the clamping and nail driving area at all times and must never be placed under the safety guard while the machine is operating. When the machine is not in use or is undergoing maintenance or adjustments, disconnect and lock out electrical and all service. Safety guards must never be removed except during maintenance or adjustment. The machine must not be operated unless in perfect operating condition and all guards are securely in place and in proper adjustment.

IMPORTANT NOTICE TO PURCHASER AND USER

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