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LTR/1600

FULLY AUTOMATIC MACHINE FOR CUTTING RECTANGULAR PIECES OF FOAM

LTR1600 FULLY AUTOMATIC MACHINE FOR CUTTING RECTANGULAR PIECES OF FOAM

DESCRIPTION OF THE MACHINE:

The automatic cutting system for laminated foam rolls class LTR1600 automatically cut rectangular pieces from a foam roll of large dimensions (max diam 150cm, max width 160cm) with automatic stacking of the cut pieces

The operator loads the foam roll on the machine then he sets up the length and the quantity of rectangles requested for the production lot plus (with option device LTR/AUTO) the cutting width of each strip.

TECHNICAL FEATURES:

- 9 Blades groups equipped with one sharpener for each group and located under the material
- HSS steel blades diam. 150 mm cutting on an upper plate to support the material with a slot for the blade
- Each blade group has one single motor for blade rotation (fixed speed).
- Strongly recommended the device LTR/AUTO Automatic positioning system of the blades to the preset cutting width programmable on a touch screen panel. Blades move automatically to preset cutting width.
- A metering system with pliers pulls the laminated foam through the blades till to the preset cutting length
- The strips of material obtained will be separated by a transversal cutter and the rectangles will drop on the conveyor belt
- Once the full lot will be stacked and unloaded, conveyor belt will return to initial position to restart operations.
- Operator can remove the foam rectangles while machine is cutting and stacking the next lot (no idle time for unloading, machine always runs)
- Mechanic platform with loading arm to move upwards the laminated foam roll for easy handling. When the roll is in position, two chucks with expanding pliers will enter in the papertube to clamp and rotate the roll for feeding the material towards the cutting section
- Lazy loop device to feed the fabric without tension
- Roll platform with an area to keep a second roll in position ready for loading
- All the positioning devices and numeric controls for each positioning function guarantees the best possible accuracy of positioning but the final result depends on the material therefore the accuracy on the material could be less.

ADVANTAGES:

- The space occupation of this unit is 4,5 x 3,8 mt and it does the same production of a spreader plus a CNC cutter, therefore the investment and the space occupation for this unit is much less.
- One operator is able to cut and stack up 60 pieces/min (up to 2.700 pieces/hour)
- Huge reduction of manpower cost.
- No need of using a CNC cutter or a roll slitting machines.

DEVICES ON REQUEST

- LTR/ AUTO Automatic positioning of the blades to the preset cutting width with step motor on each blade and automatic programmable sharpening system of the blades (recommended device)
- LTR/TV Camera with external TV screen to see inside the machine during automatic run

TECHNICAL DATAS:

- Minimum cycle time : 5.5 sec
- Average cycle time..... : 5.5 to 6,5 sec
- Blade diameter : 150 mm in HSS steel
- Number of blades : 9
- Positioning accuracy of pliers to cutting length : +/- 1 mm
- Positioning accuracy of blades to cutting width..... : +/- 0,5 mm with LTR/AUTO device
- Internal diameter of the foam roll tube..... : 150 mm (available on requests up to 200mm)
- Max dimensions of foam roll..... : Diam. 150cm, Width 160cm, Weight kg. 150
- Max length of each rectangle..... : up to 400mm
- Minimum cutting width of each rectangle..... : 100 mm
- Max stacking height : 38 cm
- Voltage..... : 400V ±5% 50Hz 3-phases (other voltages on request)
- Space requirements and weight..... : 550 x 380 cm
- Weight..... : 3.500 kg
- Installed power..... : 5,5 kW
- Compressed air..... : 6 bar