



OFFICINA ABA Srl

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Cutting Machines



Longitudinal cutting machine with blades \varnothing 800mm, single-engine + transversal cut

The machine is built for the longitudinal and transversal cutting of layers of thermofixed and non-thermofixed textile fibres, available with working heights starting from 2000mm up to 3000mm. The layer produced by a non-woven line is normally cut in two directions for the production of panels for insulation and soundproofing, automotive sector, etc.

This machine is particularly suitable for layers up to 200mm high.

The longitudinal cutting machine is composed by one inlet and one outlet calender with rubberized and motorized rollers, the pressure and the opening movement of the top rolls of the calenders takes place through N. 4 pneumatic cylinders, the movement of the 4 roller supports takes place on ball sliding blocks.

The blades, \varnothing 800mm each, are keyed with clamps on a single cylinder which is supported by two runners that slide on recirculating ball guides, the penetration and the lifting movement of the blades is carried out by N. 2 screw jacks joined together and motorized and everything is moved by the machine's electrical panel.

The transversal cut always takes place from below with a \varnothing 800mm blade mounted on a carriage that slides on recirculating ball runners and the transversal movement takes place via a toothed belt in polyurethane and steel.

The aforementioned blade slides in a gap between the two upper pressing profiles, which block the material at the time of cutting.

Fast pneumatic cylinders move said aluminium profiles and the whole slides on large-sized recirculating ball runner blocks. Said transversal cutting machine can be made movable in order not to stop the material during the cutting time.

The time required for the cross cutting cycle on a useful height of 2.5m is approximately 3/4 seconds.

All the machine motors are controlled by an inverter with 1/12 adjustment range.

Longitudinal cutting machine with singularly motorized blades \varnothing 610mm + transversal cut

The machine is built for the longitudinal and transversal cutting of layers of thermofixed and non-thermofixed textile fibres, available with working heights starting from 2000mm up to 5500mm. The layer produced by a non-woven line is normally cut in two directions for the production of panels for insulation and soundproofing, automotive sector, etc.

This machine is particularly suitable for layers up to 150mm high.

The longitudinal cutting machine is composed by one inlet and one outlet calender with rubberized and motorized rollers, the pressure and the opening movement of the top rolls of the calenders takes place through N. 4 pneumatic cylinders, the movement of the 4 roller supports takes place on ball sliding blocks.

The blades, \varnothing 610mm each, are mounted on runners that slide on recirculating ball guides, positioning takes place automatically, the blade moves from left to right with its own motor for positioning by means of encoder, the penetration and the lifting movement of the blades is made by pneumatic pistons.

The part of the lower supports for product can be positioned by hand or you can have a roll of canvas as support where the product flows over and every time the upper cuts are positioned in a new position, the canvas is moved forward to create new slots for the blades on new cutting positions.

The transversal cut always takes place from below with a \varnothing 800mm blade mounted on a carriage that slides on recirculating ball runners and the transversal movement takes place via a toothed belt in polyurethane and steel.

The aforementioned blade slides in a gap between the two upper pressing profiles, which block the material at the time of cutting.

Fast pneumatic cylinders move said aluminium profiles and the whole slides on large-sized recirculating ball runner blocks. Said transversal cutting machine can be made movable in order not to stop the material during the cutting time.

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