

## 1. TECHNOLOGY DESCRIPTION

The scope of this unit is to form isotropic webs, taking off fibres from the main cylinder and avoiding doffers and condensing rollers.

Usually 2 doffers and condensing rollers are used to form webs which must be overlapped, but the total grammage is related to their capacity to take off and to condense fibres from the main cylinder. Their speed is also reduced by the need to retain fibres.

This system allows to keep less fibres per revolution because less fibres are on the cylinder, to take them easier, to obtain a more even web, to maintain the cylinder cleaner, to have the possibility to increase its speed and then to increase the card capacity.

By this way, our clients got till 400 kgs/hour per meter width.

Isoweb consists in an ejection established externally at the cylinder surface by a Venturi section, in a vertical profiled duct where fibres are conveyed, in a net conveyor rotating around a suction box where the web is formed.

The machinery are constituted of :

- . blowers of a capacity of about 1000 mc/hour per meter width,
- . air distributor related to the required width,
- . a vertical profiled duct containing an adjustable Venturi section which allows to obtain an air speed of about 200 m/sec at the section level and an induced air speed of about 50 m/sec at the top of the duct, close to the cylinder surface.
- . a web roller regulator,
- . a net conveyor motioned by electric motor and inverter ,
- . a suction box with fans of a capacity related to air blowers.
- . mechanic registers to set up the unit, guiding systems, cantilever device for changing the conveyor.

Due to the high production rate, it is advisable to use a double card, to have a perfect feeding, to dismount the doifer, to adopt a suitable wire, to put the card at 800 mm. from the ground for having the possibility to install the apparatus. All details will be supplied.