



CMC TEXPAN

Machinery and Technology

WIND MAT FORMERS FOR SURFACE LAYER

State of the art technology
for top surface quality





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Wind mat formers provide for continuous spreading of a layer of fine wooden particles with graded structure.

They operate according to the wind separation effect, in which particle size progressively becomes finer towards the surfaces, thus making it possible to produce panels with premium quality surfaces.

Forming stations are usually equipped with two wind mat formers, located at the beginning and at the end of the forming station, to spread the lower and respectively upper layer of the mat.

Glued particles are fed into a dosing bin by means of the relevant feeding conveyor.

The function of the dosing bin is to level the material (by means of a rotary comb unit) and discharge it into the wind forming chamber as a regular and continuous flow.

In the wind forming chamber, an air stream blown through a nozzle unit (also called blower unit) provides for the separation of the particle flow: the lighter the particles, the further they will be blown by the air stream.

In this way, bigger particles will reach the inner portion of the layer, while finer particles will settle on the surface of the mat, conferring a smooth and fine finish to the panel.

The lower section of a wind forming chamber may be equipped with a horizontal vibrating screen or with a roller bed unit in order to remove any possible glue lumps.

Advantages:

- fine and homogeneous panel surface, suitable for all types of finishing;
- better cohesion thanks to graded layer structure;
- less rejects due to panel surface imperfections;
- less wearing of sanding papers.



Above data are non-binding and they are provided for information purposes only.



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