



CMC TEXPAN

Machinery and Technology

"ECOFORMER SL"

The evolution of an excellent concept





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CMC TEXPAN's "ecoFormer SL" represents an evolution of the traditional wind forming concept.

It is aimed at optimizing the separation of finer and coarser flakes (that's to say, better crosswise distribution of mat weight) by making the air flow inside the wind forming chamber more efficient.

The air flow path has been analysed by means of a Computational Fluid Dynamics (CFD) simulation in order to work out the most effective configuration of the unit.

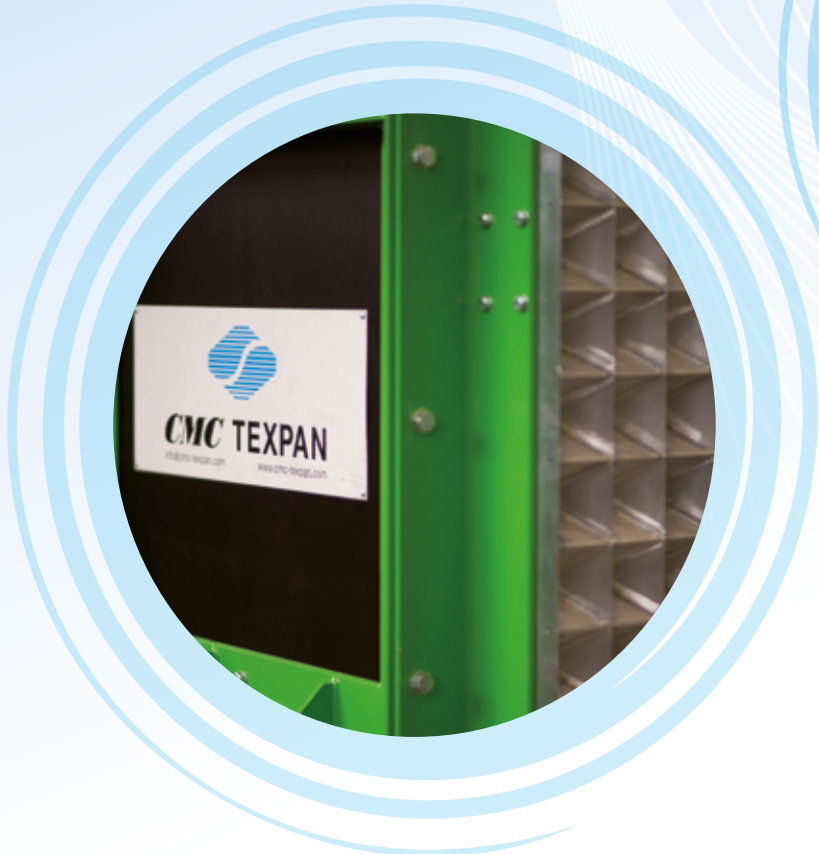
The unit is perfectly suitable for revamping applications as well, since it has the same overall dimensions of a standard wind forming chamber.

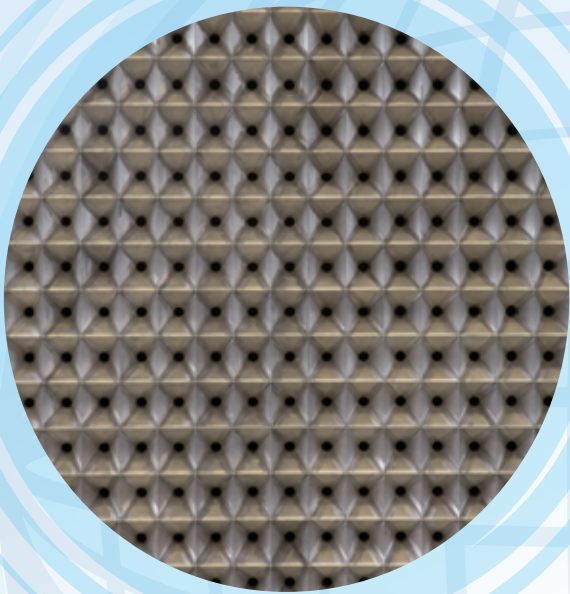
Glued particles are fed into a dosing bin by means of the relevant feeding conveyor.

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

The core of the "ecoFormer SL" system is represented by a diffuser plate with holes of a special shape: this unit receives the air flow blown by centrifugal fans through a plenum chamber and provides for perfect control and distribution of the air flow among the single blowers.

Special attention has been given to maintenance friendliness: generously sized inspection doors enable simple cleaning of blowers, so as to ensure an excellent and uniform distribution of the air flow.





Advantages:

- better cross weight distribution;
- maintenance-friendly;
- reduction of pressure loss, energy saving.



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