



**CMC TEXPAN**

Machinery and Technology

**FORMING LINES  
FOR PARTICLEBOARD**  
Three-layer particleboard at its best





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Mat forming is an essential step in particleboard production. Well-balanced particle mats (that's to say Surface Layers with a graded structure and a homogeneous Core Layer), will result in high quality particleboard panels, showing excellent mechanical properties and a smooth surface, which shall be a perfect substrate for melamine coating, even with the use of low-weight papers.

With its long experience and more than 150 forming stations supplied all over the world, CMC TEXPAN is a major supplier of forming systems for particleboard.

A typical forming station basically includes two wind mat formers for the Surface Layers and one or two mechanical mat formers for the Core Layer.

The system is usually meant for spreading a three-layer mat, consisting by:

- an uniform, homogeneous Core Layer made up of coarser particles, conferring excellent mechanical properties (panel strength, internal bond). Core Layers are spread by means of mechanical mat formers;
- two Surface Layers showing a graded structure, with particles becoming finer and finer towards the surfaces, for top quality surface finish. Surface Layer mats are spread by means of wind forming machines.

Forming stations may be equipped with different systems to enhance their function or to enable the production of multiple width formats.

These include:

- width adjustment units, consisting of movable sidewalls that can be appropriately adjusted in order to enable the production of different width formats, at the same time collecting the excess material, which will then be recycled back into the production process;
- disc separators, to remove oversize particles and contaminants from the material flow before it reaches the forming chamber;
- equalizing devices, to prevent coarse Core Layer particles to pass through the Surface Layer mat, what would otherwise worsen the surface of the finished product.

## Advantages:

- individually tailored configuration;
- high output capacities;
- economic savings;
- great spreading accuracy;
- top quality of finished panels.

## Options

Forming stations are fully customizable according to customer needs. Arrangement and configuration are individually studied to comply with each installation scenario.





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



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