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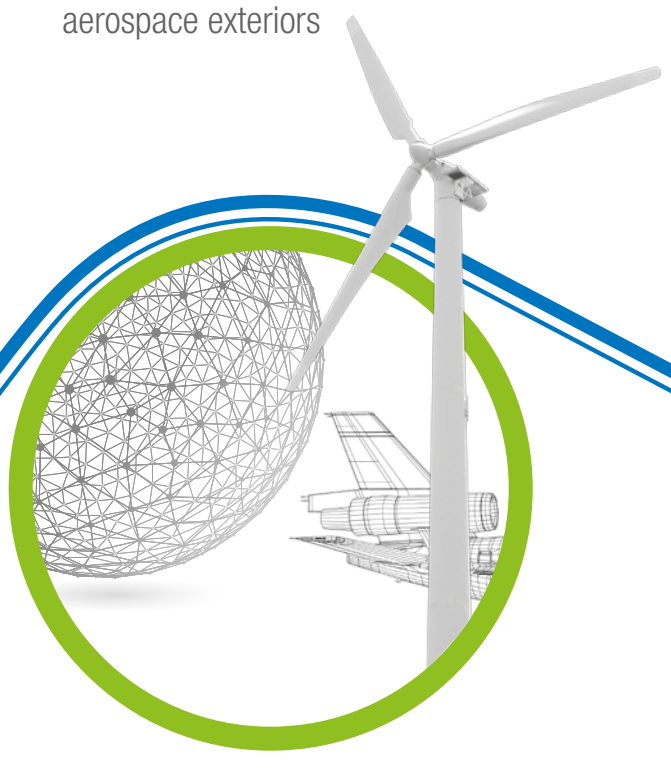
Cavitec covers the whole process and manufacturing knowhow for Prepreg technology specialized in:

Hotmelt based applications

for any kind of lightweight structural parts such as wind energy applications, sport goods and aerospace exteriors



Solvent based products

for Printed Circuit Boards and Aerospace interiors

Thermoplastic Prepregs

for Automotive industry and Civil engineering

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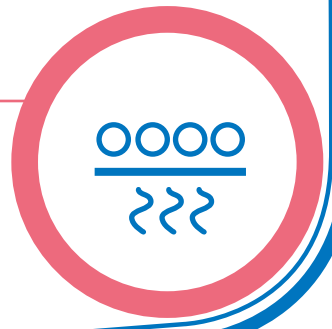
Prepreg technology characterized by:

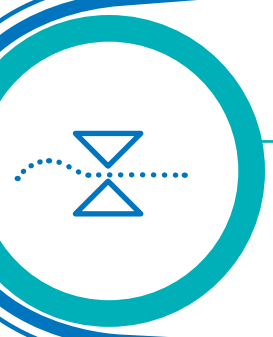
Heating plates

The plates are laid out for high speed production. The contact pressure is maintained by idle rolls on top of the plates. The perfect flatness of the plates guarantees equal heat transfer over the width of the prepreg.



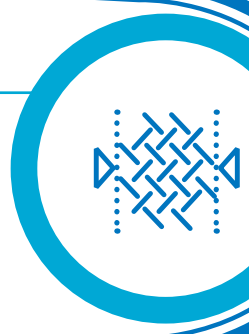
Fabric unwind station

The unwind station is specially designed for very tension sensitive products. All kind of fabrics, also multi-axial, can be unwound distortion free.



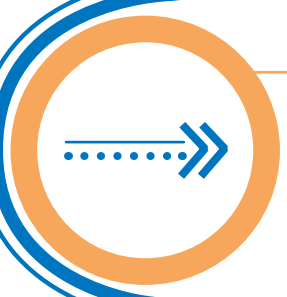
Fiber spreading device

The system is for spreading the UD fibers to reach a compact surface and even thickness. Gaps between the fibers are unacceptable. The spreading device is equipped with mirror finished bars and a high precision tension control system.



Non-stop film unwind station

The non-stop system is able to splice the running silicon paper or matrix film. The new roll is prepared with a double sided tape. The splicing and cutting process is activated by an automatic cycle. This system is especially convenient for webs which may only be touched on one side. An accumulator system is not practicable for these types of products.



Non-stop roll change

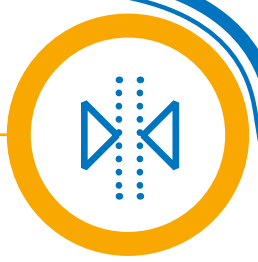
The non-stop system prevents waste material caused by prolonged heat contact. The cross cutter is integrated in a turret rewind station. The special cross cutter roll presses the prepreg or film around the empty card board, which is prepared with double sided tape. A special knife system, ejecting from the cross cutter roll, cuts the web at exactly the right time. The winding process continues on the new roll.

High precision calender rolls

The rolls are the heart of the rigid calender system. The precise pressure between the rolls along the contact line ensures a constant thickness over the entire width of the prepreg.
The rolls are designed in a way that possible deflections are compensated, even at high line pressures. The cylindricity is not negatively influenced under heated conditions.

Patented electronic gap control system

The roll gap is continuously measured with a non-contact system very close to the working surface of the rolls.
An electronic actuator is continuously adapting the distance of the bearings in order to compensate any irregularity of the bearings. Accuracy of the gap is within +/- 1 micron for all coaters and calenders.



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