The most common manufacturing technology for composites used today involves manual stacking of carbon fiber sheets of material, followed by curing in an autoclave, oven or press. The development of an innovative technology for the automated fabrication of complex preforms had to meet the increased market demand and face the challenge of improving the quality, repeatability and accuracy while reducing the final price per part cost.

With our deep-rooted experience Techni-Modul Engineering has developed a new kind of automated manufacturing solution that responds to these expectations by ensuring the same quality every time a component is built and therefore brings value to the composite market.
The latest generation of robots on the market are able to cut, pick and place but, in addition, Techni-Modul has introduced a robotized preform cell able to control the good positioning of each ply as well as its fibre orientation. So the robot cell provides supervisory functionality as well as production functionality.