SMART PICK & PLACE

Nowdays, composite parts manufacturing industry is constantly challenged to produce ever larger volumes at ever lower costs. It also faces four major challenges in its production processes: raw material costs, carbon footprint, reliability and labor costs. For manufacturers of composite parts, it is therefore essential to use reliable solutions to address these issues. At Techni-Modul Engineering (TME), our expertise is to bring innovations to reach your goals. Our SMART Pick & Place technology has been created to optimize your lay-up process in order to meet increasing production rates. We totally re-examined this production process by developing an automatic technology to pick one or several ply from an initial reference and to place it/them in a final position (flat or 3D position) according to a lay-up drawing. Our SMART Control solution can complement SMART Pick & Place in order to check at 100% the conformity of the lay-up.

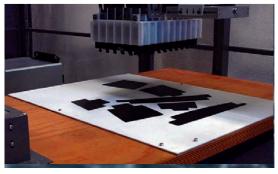






A symphony of automated tools for greater efficiency

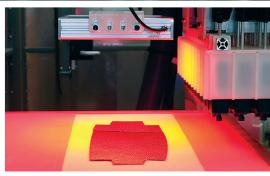




Place







SMART Control solution



FEATURES

- Automatic technology to pick one or several ply from an initial reference and to place it/them in a final position (flat or 3D position) according to a lay-up drawing.
- All SMART solutions are supervised by a single MES (Manufacturing Execution System): SMART Pilot, which ensures perfect interoperability between SMART solutions.



SOME BENEFITS

- Reduction of cycle time (80-120 plies per hour)
- Increased quality and repeatability for production
- Improved working environment
- Adaptability to different composite materials (dry fabrics and prepregs)



SMART Stacking cell



APPLICATIONS

. **SMART**

SMART Kitting: automatic kits preparation

. SMART

SMART Stacking: automatic stacks preparation

SMART

SMART 3P: automatic pick, peel and place solution (for prepreg)

TME AT A GLANCE

Techni-Modul Engineering is an industrial engineering company that designs, realizes and implements standardized and turn-key solutions in support of composite parts manufacturing. We provide optimized and innovative composite manufacturing solutions worldwide for various processes and for different functions.





