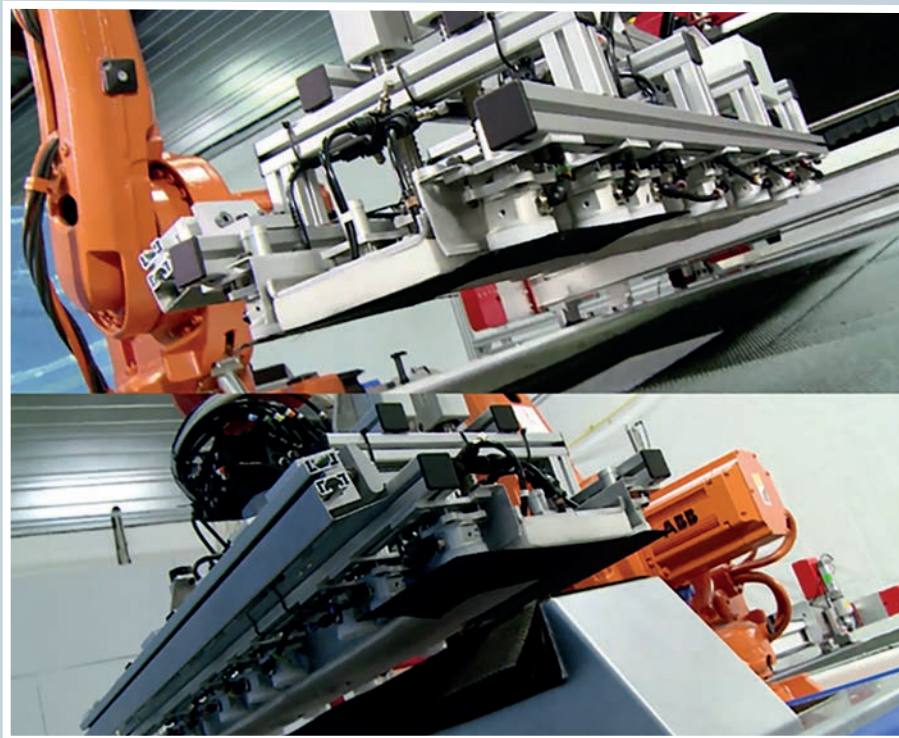


# SMART PICK & PLACE



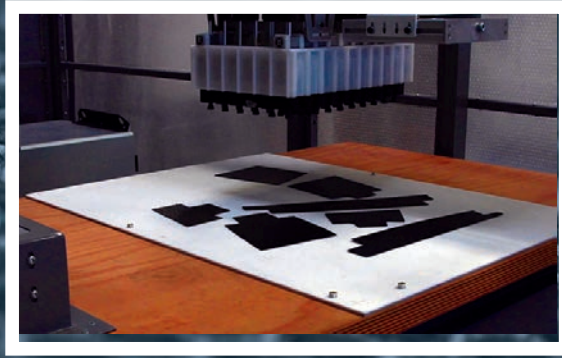
Nowdays, composite parts manufacturing industry is constantly challenged to produce ever larger volumes at ever lower costs. It also faces four major challenges in its production processes: raw material costs, carbon footprint, reliability and labor costs. For manufacturers of composite parts, it is therefore essential to use reliable solutions to address these issues.

At Composite Alliance Corp. (CAC), 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**

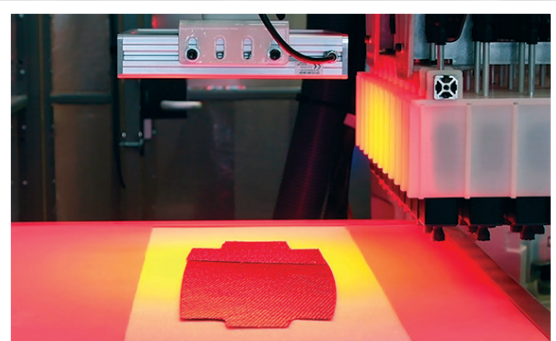
## Pick



## Place



## Control



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 Kitting: automatic kits preparation
-  SMART Stacking: automatic stacks preparation
-  SMART 3P: automatic pick, peel and place solution (for prepreg)

## CAC AT A GLANCE

Composite Alliance Corp (CAC) is a global tooling, machinery and service supplier offering a wide selection of standard and custom solutions in support of composite part design and fabrication. Our goal is to advise, equip and assist our customers in using cost effective advanced manufacturing processes to maximize performance and to widen the applications of composites.



[www.compositealliance.com](http://www.compositealliance.com)

