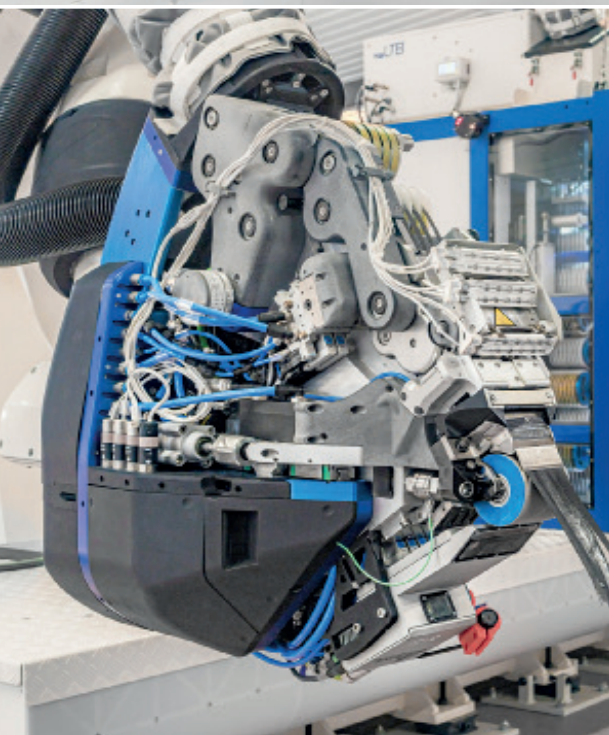
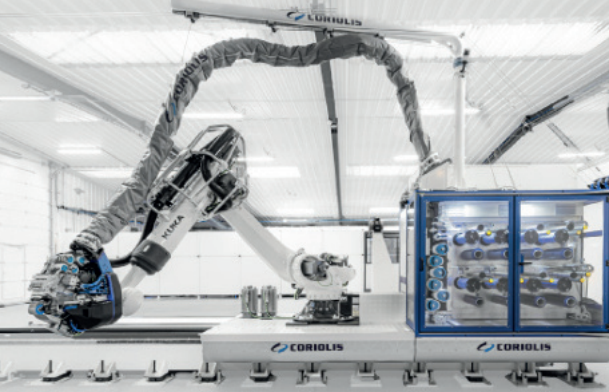


Coriolis C1.2

The latest innovation in
Automated Fiber Placement

- Versatile machine for complex shapes
- Multimaterial capability
(thermoset / thermoplastic / dry fiber)
- Cuts and adds at high velocities
- High capacity creel house for heavy spools
(15kgs / 33lbs)
- Ergonomic head and creel house
(tooling free)

 **CORIOLIS**



CORIOLIS C1.2

TECHNICAL INFORMATION

AFP process specifications

Configuration	8*¼" or 16*¼"
Lay-up speed	
Maximum head speed while feeding fibers	1m/s
Maximum head speed while cutting fibers	1m/s
Repeatability at 1m/s of cutting and feeding fibers	±2mm
Accuracy at 1m/s of cutting and feeding fibers	±2.5mm
Maximum lay-up speed*	1.5 m/s
Compaction force control	Up to 1200 N (8F), 2400 N (16F)
Temperature controls (head, tubes and creel)	< 15°C
Tolerance between courses	+2.5/-0 mm
Minimum distance between cutting and feeding an individual fiber**	10 mm
Minimum fiber length*	90 mm
Dynamic head compliance	± 5 mm
Twist-free feeding tubes	
HMI for advanced production management	V5
Bar-code reader for material traceability	
Ergonomic head	Tooling free maintenance

Options

Offline programming software	Coriolis CADFiber® & CATFiber®
Laser heating device	3 kW, 6 kW, 12 kW
Automatic Inspection System (AIS)	Edixia
Customer process monitoring	OPC UA communication for SCADA & OEE systems

Cell configurations

Stand-alone robot	
Robot on a linear axis	Up to 80 m in length
Vertical axis positioner	0.5 to 6 T
Horizontal axis positioner	0.5 to 2x40 T

Main components

Robot	KUKA Quantec or Fortec
Controller	Siemens
Linear axis	Güdel
Positionner	Coriolis Composites

*Depends on the material, heat source, part shape, controller and standard cycles

** Lay-up speed can be limited

APPLICATIONS

Fuselage & panel

Concave or convex panels with double curvatures
Complex parts with narrow radius

Spar & frame

High compaction around edges

Honeycomb & sandwich

Up to 30° core ramps with 8F configuration

MATERIALS

Thermoset prepreg	135 to 268 gsm dry
Thermoplastic prepreg	135 to 194 gsm dry
Dry fiber	135 to 268 gsm dry

PACKAGING

Spool

Maximum diameter	250 mm
Maximum gross weight	15 kgs
Maximum height	394 mm
Backing film rewinder	
Maximum height for dry fiber	297mm
Cardborad Core Inner diameter for Thermoset material	3 in (76+/- 1mm)
Cardborad Core Length for Thermoset material	406 +/- 1mm

 **CORIOLIS**
www.coriolis-composites.com

