

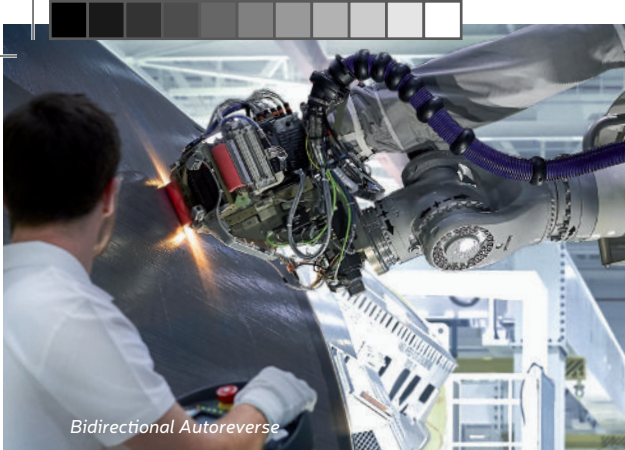


Coriolis C2

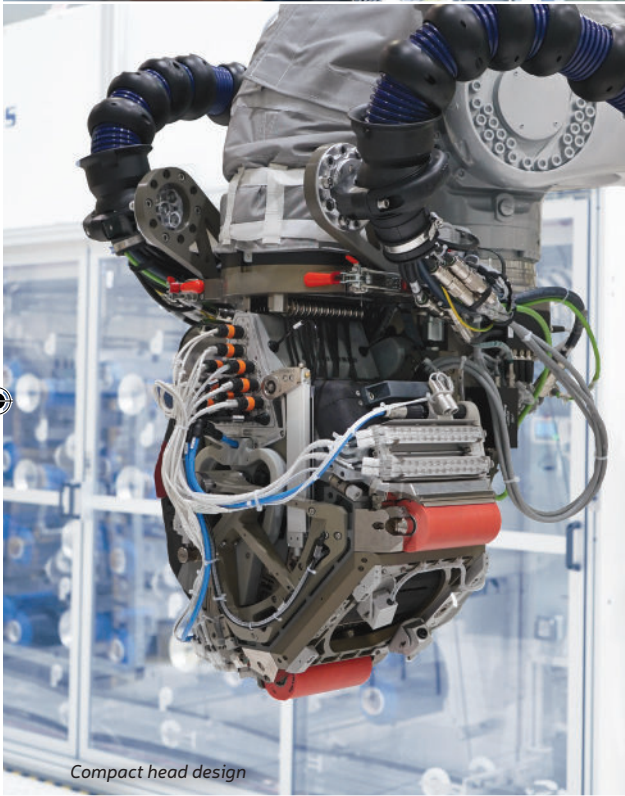
High speed bidirectional
fiber placement robot

- High performance robot for large part manufacturing (up to 80m)
- Maximised productivity due to 24-fiber (¼ inch) placement
- Unique Autoreverse functionality

 **CORIOLIS**



Bidirectional Autoreverse



Compact head design



15 kg spools

TECHNICAL INFORMATION

AFP process specifications

Tow configuration	24*1/4"
Cut and feed repeatability*	± 2.5 mm at 500 mm/s
Compaction force control	up to 2,000 N
Temperature controls (head, tubes and creel)	< 15°C
Maximum lay-up speed*	up to 1,2 m/s
Tolerance between course laid upon separate tapes	0/+2,5 mm
Minimum distance between cutting and feeding an individual fiber**	10 mm
Minimum fiber length*	110 mm
Dynamic head compliance	± 12.5 mm
Roller crush	≤5 mm
Spool loading	< 2 min
Renishaw tool probing accuracy	± 0.1 mm
Multiwinch® for low fiber tension	
Twist-free feeding tubes	
HMI for advanced production management	
Bar-code reader for material traceability	

Options

Offline programming software	Coriolis CADFiber® CATFiber®
Camera verification	Visual range
Integrated laser projector for contour inspection	
Automated calibration system for cut & feed actuators	

Cell configurations

Robot on a linear axis	Up to 80 m in length
Vertical axis positioner	0,5 to 6 t
Horizontal axis positioner	6 to 2x40 t

Main components

Robot	KUKA
Controller	Siemens
Linear axis	Güdel
Positionner	Coriolis

*Depends on the material, heat source and part shape and controller
 ** layup speed can be limited

APPLICATIONS

Fuselage & panel

Concave or convex panels with double curvatures

Spar & frame

High compaction around edges

Ply drop-offs and ramps over corners

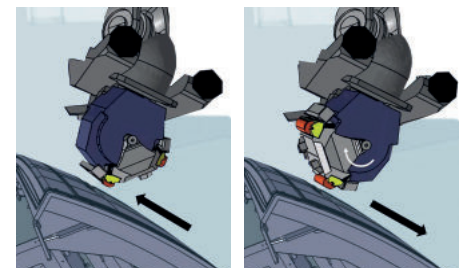
MATERIALS

Thermoset prepreg	200 to 400 gsm wet
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PACKAGING

Spool

Maximum diameter	292 mm
Maximum gross weight	15 kg
Maximum width	407 mm
Backing film rewinder	



Autoreverse system



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