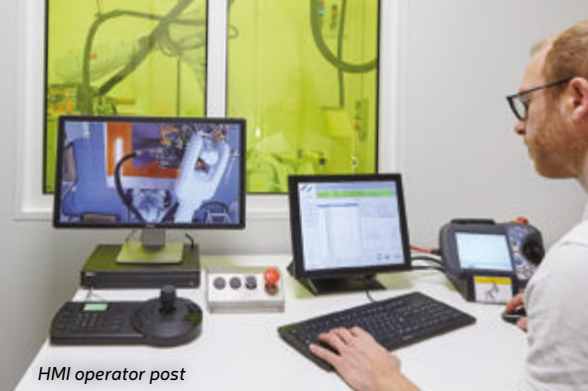


# Coriolis Csolo

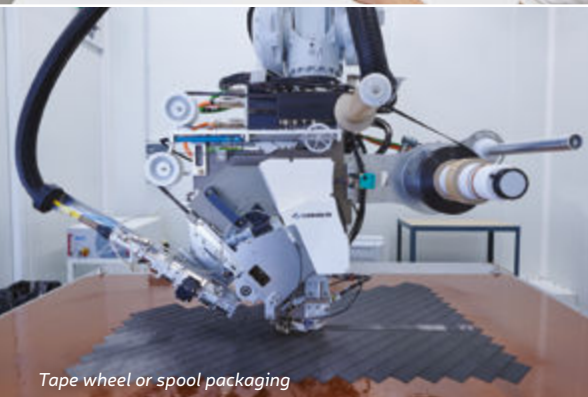
Compact fiber  
placement robot

- Single-fiber placement head with variable fiber width
- Particularly suitable for local fiber reinforcement
- Thermoset, thermoplastic and dry fiber manufacturing ability

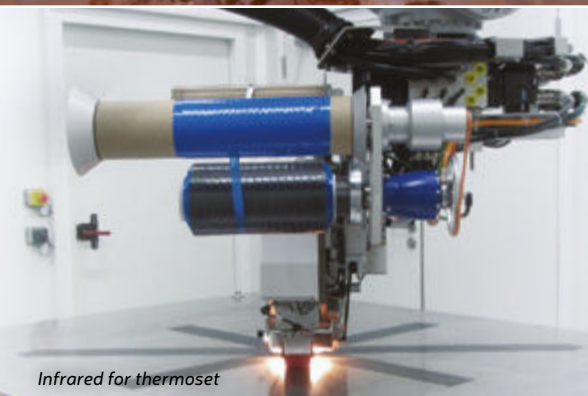




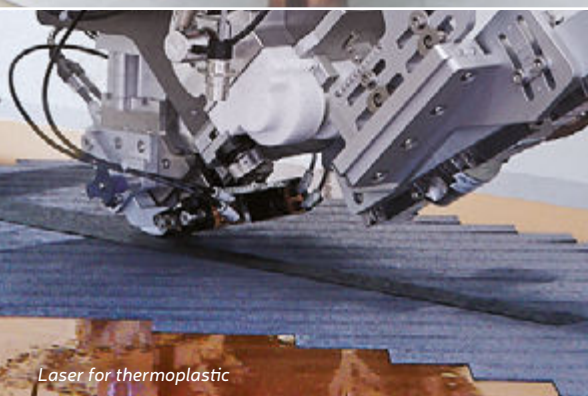
HMI operator post



Tape wheel or spool packaging



Infrared for thermoset



Laser for thermoplastic

## CORIOLIS Csolo

### TECHNICAL INFORMATION

#### AFP process specifications

Fiber configuration	Single fiber from 1/4" to 1 1/2"
Cut and feed repeatability*	± 2.5 mm at 1 m/s
Compaction force range	150 to 1,000 N
Temperature controls for the head	<15 °C
Maximum lay-up speed*	up to 1.2 m/s
Tolerance between course laid up on separate tapes	+2.5/-0 mm
Minimum distance between cutting and feeding an individual fiber**	10 mm
Minimum fiber length*	110 mm
Dynamic head compliance	±5 mm
Roller crush	≤5 mm
Spool or tape wheel on the head	
Non-adhesive outer surface	
HMI for advanced production management	

#### Options

Offline programming software	Coriolis CADFiber® and CATFiber®
Laser heating device	up to 6 kW
Infrared lamp	1200 W
Bar-code reader for material traceability	
Exchangeable head device and docking station	

#### 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 6 t

#### Main components

Robot	KUKA***
Controller	Siemens
Linear axis	Güdel
Positionner	Coriolis Composites

\*Depends on the material, heat source, part shape, controller

\*\* Lay-up speed can be limited

\*\*\*Other configurations possible

### APPLICATIONS

#### Fuselage & panel

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

#### Spar & frame

High compaction around edges
Ply drop-offs and ramps over corners

#### Honeycomb & sandwich

Precise core positioning assistance
Up to 30° core ramps

### MATERIALS

Thermoset prepreg	135 to 252 gsm dry
Thermoplastic prepreg	135 to 194 gsm dry
Dry fiber	135 to 252 gsm dry

### PACKAGING

#### Spool

Maximum diameter	200 mm
Maximum gross weight	7 kg
Maximum width	407 mm
Backing film rewinder	

#### Tape wheel

Maximum diameter	630 mm
Maximum gross weight	7 kg