

**BROETJE**  
AUTOMATION

**STAXX BOX**  
AUTOMATED FIBER PLACEMENT

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**NT**

Fastening Systems

Assembly Stations

Jigs & Tools

Mobile Systems

Process Technologies

Operational Tooling

Digital Solutions

Factory Integration

Outfitting & Engineering

Project Management

Maintenance & Service

Composite Systems

**EQUIPMENT**

**SERVICES**

**PROCESSES**

**INTEGRATION**

Equipping  
the Factory of  
the Future

**STAXX BOX**

fiber placement machine

# SMALL FIBER PLACEMENT MACHINE – **STAXX BOX**

The **STAXX BOX** is a robust, standalone 4-axis fiber placement machine combining a standardized single-tow end-effector with a rotatable layup table in the smallest installation space.

With its condensed design, it can be easily relocated and offers an ergonomic, user-friendly system ready for production. It is ideal for cost-effective, automated manufacturing of small composite parts.

Material spool with tow tension control  
Optional: Level measurement

Compaction roller with anti-stick polymer coating

Controlled pneumatic compaction unit  
Force up to 30dN (~kg)

Backfilm collection spool

Internal water cooling for demanding material

Deflection roll

Optional: Tow break detection

Robust cutting unit for tows above 50k

Controlled Heating unit with infrared emitter,  
diode laser or flash-lamp

Material flexibility: Any given width from  
1/8" width up to 2" (50,08 mm)

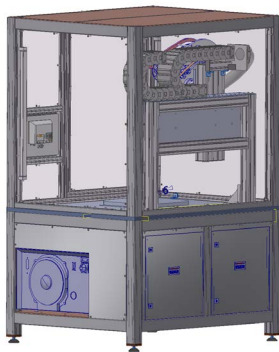
2 Sets of compaction rollers for 1" and 2"

- › Robust system for demanding materials
- › Various material types (e.g. PrePreg, TowPreg, DryFiber, Thermoplast, etc.)
- › Flexible tow width
- › Siemens NC Controls
- › Modular cell concept with good accessibility
- › Full Simulation of entire cell layout
- › CAM System for offline programming based on 3D/2D CAD
- › Collision analysis
- › Simulation for both, machine and layup concept
- › No foundation needed
- › Standardized system components

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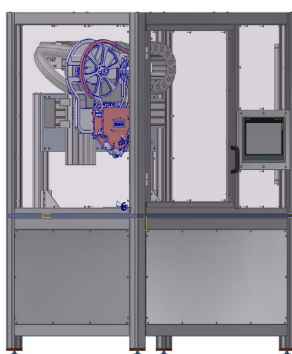
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