

STAXX BOX

FIBER PLACEMENT MACHINE

- Highly Flexible and Reliable 4-Axis Fiber Placement Machine
- For Automated Production of Small Components at Low Cost

STAXX BOX - SMALL FIBER PLACEMENT MACHINE

Area of Application

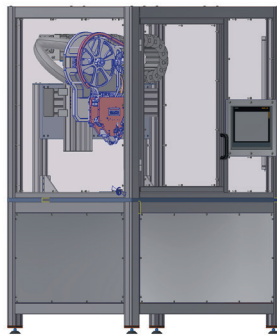
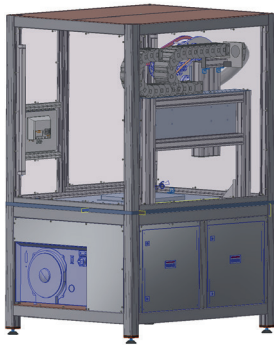
The STAXX BOX is a robust standalone 4-Axis Fiber Placement Machine that integrates a standardized single tow end effector with a rotatable layup table in the smallest installation space.

With its condensed design it can be comfortably relocated and is an ergonomic and user friendly system ready for production. This compact, flexible and easy to use automated fiber placement machine is ideally suited for the automated production of small composite parts at low cost.

Technical Data

Material spool with tow tension control	Deflection roll
Optional: Level measurement	Optional: Tow break detection
Compaction roller with anti-stick polymer coating	Robust cutting unit for tows above 50k
Controlled pneumatic compaction unit Force up to 30dN (~kg)	Controlled Heating unit with infrared emitter, diode laser or flash-lamp
Backfilm collection spool	Material flexibility: Any given width from 1/8" width up to 2" (50,08 mm)
Internal water cooling for demanding material	2 Sets of compaction rollers for 1" and 2"

Compact Work Cell Configuration



Special Features

Flexibility combined with industrial readiness

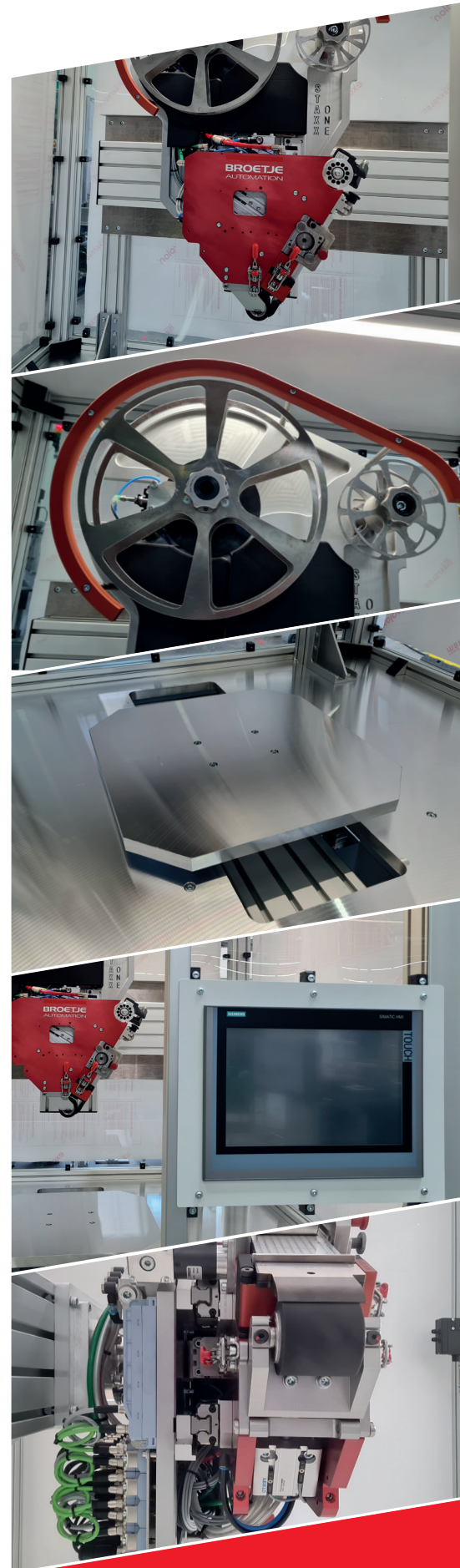
- Robust system for demanding materials
- Various material types (PrePreg, TowPreg, DryFiber, Thermoplast, etc.)
- Flexible tow width
- Siemens NC Controls
- Modular cell concept with good accessibility

Digital Twin

- Full Simulation of entire cell layout
- CAM System for offline programming based on 3D/2D CAD data
- Collision analysis
- Simulation for both, machine and layup concept

Cost efficient approach

- No foundation needed
- Standardized system components



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