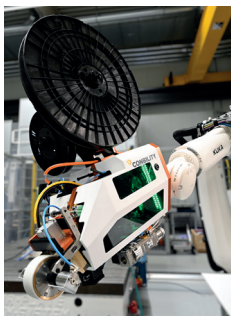
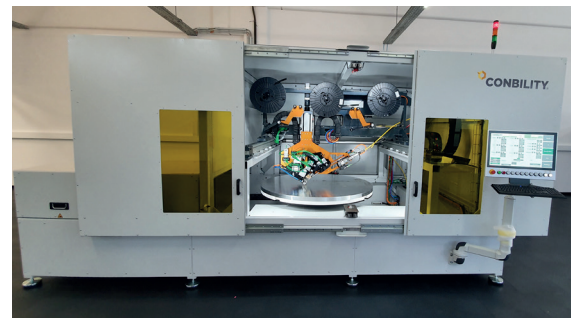


2D and 3D Tape Processing Systems and Job-Order Manufacturing

Turnkey machine for laser-assisted tape placement with in-situ consolidation for manufacturing of tailored composite blanks

- Rotary heating table: Ø 2 m (scalable)
- Laser-safe machine system (laser safety class 1)
- Modular integration into production lines (e.g. subsequent thermoforming & injection moulding)
- 3-spool-applicator (scalable)
- Process speed: up to 1 m/s
- Integrated 4 kW laser system (scalable)



Hybrid multi-technology tape placement/winding unit: Compact and configurable applicator for the processing of thermoset preregs (e.g. towpregs) and thermoplastic tapes

- Placement and winding operations
- Scalable widths for tapes/ preregs: up to 100 mm
- Optional backing paper unwinding unit
- Modular applicator for integration in existing robot / machine systems or Turnkey manufacturing cells (customized - including robot system, laser safety cell, winding axis, etc.)

Your Benefits:

- One-stop shop for process know-how, technology transfer and machine systems for UD fiber-reinforced lightweight manufacturing
- Highly-flexible shop floor for processing of your UD tapes and manufacturing of your parts
- In-situ consolidation technology: cost- and time-efficient, high laminate qualities
- Expertise in building special-purpose machines
- Modular usage of different heating systems, according to the customers' requirements: e.g. high-power diode lasers, VCSEL-lasers, Infrared heater

Evaluation of materials,
Development and realization
of prototypes, trials / feasibility
studies and series production

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