

New solutions for the manufacturing of composite parts and SMC semi-finished materials bring even more efficiency and process control

Schmidt & Heinzmann presents AutoCut Pick&Place and Cube

Bruchsal, 14th February 2024: Making a good process even better – Schmidt & Heinzmann will show how this can be achieved at the leading trade fair for fiber composite materials “JEC WORLD” in Paris from March 05th – 07th. The company will be presenting solutions for the automated manufacturing of components as well as SMC semi-finished materials at the Baden-Württemberg Pavilion in Hall 6, Booth N82.

With the AutoCut Pick&Place customers will be able to produce their stacks from SMC or dry fiber fabrics even more efficiently in the future, as the new solution combines several process steps and the new SMC line Cube makes the production of SMC semi-finished materials fit for the future. With its fundamental new design as well as control and sensor technology the system meets all current and future requirements for a modern production line.

Cutting & Stacking redesigned: AutoCut Pick&Place

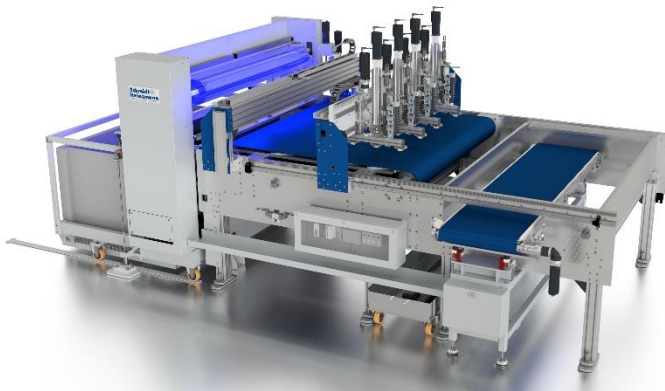
With the compact AutoCut Pick&Place, Schmidt & Heinzmann has redesigned the automated cutting, weighing, and stacking of SMC materials as well as dry fiber fabrics. In addition to the well-known features of the AutoCut such as

- » Simplest programming thanks to generic software, which enables fast and material-saving production
- » Different cutting technologies for various materials
- » Automated compensation function for correct stack weights

the new model now also offers on the smallest footprint the option of stacking and weighing of the plies directly on the AutoCut. In this case, an integrated gantry system with a multifunctional gripper builds the stack. Compared to a traditional machine concept a handling robot can be saved.

Benefits

- » Faster handling due to shorter traveling distance
- » Faster installation and start-up thanks to integrated functions
- » Reduced footprint due to compact design



Stacks can now be manufactured even more efficiently by using the new AutoCut Pick&Place
Picture: Schmidt & Heinzmann GmbH & Co. KG

The next generation of SMC lines: Cube

The design of SMC lines has hardly changed since the 1960s. Therefore, it is not surprising, that the current machine concept is exclusively designed to meet the needs of SMC material production. Issues such as reducing emissions or ergonomics in the workplace were less important so far. With the fundamentally adapted layout of the Cube, Schmidt & Heinzmann succeeded in developing a new machine concept that meets the highest production requirements with its compact design and at the same time takes into account the current and future requirements of a modern working environment. With the new controls and sensor concept for recording, analyzing, and storing production data, the Cube catapults SMC production into the digital age and enables the production of even higher-quality SMC material.

Benefits

- » Live analysis and logging of all process data for each single centimeter of material
- » Maximum reproducibility and lowest scrap rates
- » Roving tension optimized unwinding creel for fault free mass production
- » New de-aeration concept for minimized air entrapments
- » Ergonomic operability of key elements
- » Decentralized electronics, no external electrical cabinet
- » Compact design with reduction of footprint up to 50 %
- » Enclosed system for a cleaner and less contaminated environment
- » Designed for highest product quality and high-performance materials



The new Cube machine concept meets the highest production requirements and takes into account current and future requirements of a modern working environment

Picture: Schmidt & Heinzmann GmbH & Co. KG

About Schmidt & Heinzmann

Schmidt & Heinzmann has been developing and producing innovative tailor-made production machinery and automation solutions for the fiber-reinforced plastics industry for more than 50 years.

The product portfolio includes:

- » Cutting systems for all kind of fibers
- » SMC production machinery
- » Automated cutting & stacking systems for dry fiber fabrics and SMC semi-finished materials
- » Preforming systems for the automated production of GF and CF preforms
- » Press automation for manufacturing of SMC and WCM components
- » Customized special solutions

Headquartered in Bruchsal, Germany, and with offices in the United States and China, Schmidt & Heinzmann generated a turnover of 20 million Euro in 2023 with more than 130 employees.

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