

Schmidt & Heinzmann shows its advanced product portfolio at CAMX 2021

Phoenix, AZ / US, 13.07.2021: Schmidt & Heinzmann shows its entire competence in machinery and equipment for production von SMC material as well as processing of SMC semi-finished material and dry fibers at CAMX – booth J85. The company’s product portfolio includes almost the entire manufacturing and processing process for composite materials: from manufacturing of the semi-finished material, cutting and stacking to press automation.

Press Automation ensures high process stability

OEMs are continuously increasing their quality standards, especially when process stability, high surface quality, tight tolerances of weight, shape and position as well as economical production are the focus. To keep the product specifications and to remain economical at the same time, it makes sense to automate the manufacturing processes – especially when process steps have been implemented manually so far. With its solution for automation of the entire SMC press process Schmidt & Heinzmann offers high process stability and reproducibility. Every process step from unwinding of the material, cutting and stacking of the layers, loading and unloading of the press as well as ejecting of the pressed part from the production cell runs automatically.

At first, an intelligent nesting process allows an optimal cutting pattern for the cuts. This enables an efficient use of the material, which significantly reduces material waste. To attain precise cutting edges, the company chooses the right cutting technology among polygon knife, round knife or ultrasonic knife which perfectly fits to the material. The company also relies on its cutting unit “AutoCut”. This 2D free-form cutting unit is specifically designed for usage in automated production cells and for geometrically challenging cuts of SMC or other mat-type semi-finished materials or textile fiber reinforcements.

The intelligent and flexible combination gripper can handle each component exactly and can be used for the loading of the press with semi-finished material, as well as for unloading the molded component as well as for cleaning of the mold. This shortens the cycle time and can also be used to securely realize cuts and components for large tools or special geometries.



Press Automation including cutting unit “AutoCut”, scales with weight control and compensation function and robot handling.

Picture: Schmidt & Heinzmann GmbH & Co. KG

Next Generation SMC Line: Cube

Conventional SMC lines are designed for the production of glass fiber reinforced highly filled composite and their layout is more or less unchanged since the 1960s. With its new generation of SMC Line “Cube” Schmidt & Heinzmann brings the production of SMC semi-finished material into the digital age and makes it highly attractive for high performance applications and modern, flexible production facilities.

The radical new layout allows for unique features:

- The new sensor concept enables the analysis of process data during production. That means that process data for each single centimeter of material is available. In total, more than 100 values can be recorded, saved or adjusted in real time. This increases process reliability as well as the quality of the material.
- The compact design reduces the footprint by 65%
- The controls were minimized so that the external control cabinet could be completely eliminated which saves additional floor space. Cube is delivered in one piece -plug n play. Commissioning time at customer’s side – 3-5 weeks for classical SMC lines – is completely unnecessary

For more highlights visit Schmidt und Heinzmann at CAMX exhibition – Booth J85.



Next Generation SMC Line: Cube

Picture: Schmidt & Heinzmann GmbH & Co. KG

Virtual Reality – Experience stacking live on site!

Visitors can experience a stacking solution live on site at the Schmidt & Heinzmann booth by using virtual reality. The company is already using this technology for realization of major projects. It enables an early identification of disruptive factors which increases planning reliability and reduces the costs in machine commissioning. In addition, the virtual reality offers the customer the possibility to get a detailed impression of the machine already in the planning phase.

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 40 years.

The product portfolio includes:

- Cutting systems for all kind of fibers
- SMC production machinery
- Fiber spraying systems
- Bonding machines for automated processes
- Automated cutting & stacking systems
- Preforming systems for the automated production of textile preforms
- Automation solutions for composite cut and part handling
- 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 2020 with more than 130 employees.

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