

# Schmidt & Heinzmann focuses on cutting and stacking: Examples to be seen at the Composite Europe in Stuttgart

*Bruchsal, 28.08.2019: – Schmidt & Heinzmann shows its entire competence in the processing of dry fibers at the Composite Europe from September 10th - 12th in Stuttgart in hall 9 booth C26. One example is a composite leafspring for trucks and vans which is up to 60% lighter than a conventional steel component. Furthermore, the strength can be specifically increased where it is needed and corrosion resistance is also a unique advantage. Schmidt & Heinzmann is performing the cutting as well as the stacking of the single layers of the shown component and afterwards produces the preform. The company, which is well known in the market for its preforming machines, will have the focus on the upstream processes of cutting and especially stacking in the future. That offers customers furthermore the process steps along the value chain from a single source.*

## Overall economic concepts for stacking and co.

Schmidt & Heinzmann attaches great importance to cost efficiency and efficiency to all process steps from cutting and stacking to preforming. 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. When using several materials within one stack, Schmidt & Heinzmann relies on its Multiple Cutter Concept. According to the motto „one cutter one material“, this concept defines exactly which material is processed on which cutter. This shortens the cycle time and increases the process reliability to ensure a constantly good quality. For getting clean cutting edges, the selected cutting technology (polygon blade, circular blade, ultrasonic blade) has to be matched perfectly. The precise stacking of the single layer cuts is made by a variable gripper device which holds the cuts with vacuum, needles or finger modules. Finally the stacks will be processed into preforms. All process steps are completely automated.

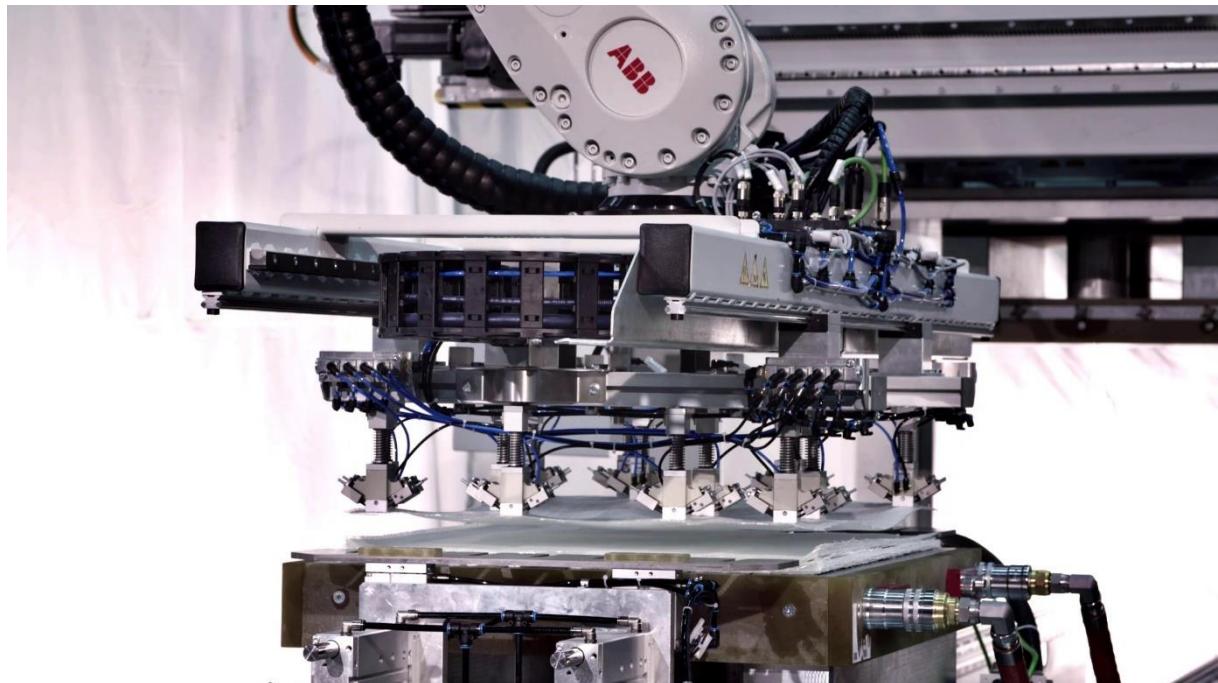
Different sensoric ensure a stable process during cutting and stacking. If necessary an automatic correction of defined process parameters is possible. The production planner which is integrated in the machine control monitors the overall process and enables thus optimal cutting, handling and stacking sequences. This guarantees the achievement for the shortest possible cycle time. The stacking solutions from Schmidt & Heinzmann can have additional features as ultrasonic welding, part labeling or camera-based quality control.

## New gantry system will shorten cycle times

The new developed gantry system by Schmidt & Heinzmann reduces significantly the cycle time for preforms. In combination with the already existing moving tool table a higher degree of freedom will achieve more flexibility and possible applications. While one part is feeding into the tool with the movable tool table and is processed there, the gantry can already carry out an up or downstream process step. The own designed software from the company enables itself the adjustment of all process parameters and can be operated intuitively by the customer. By using the appropriate tools, the variable system is suitable for a wide range of applications such as cutting, bonding, deburring and drilling.

**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.



*Automated stacking from Schmidt & Heinzmann*  
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 40 years.

The product portfolio includes:

- Cutting systems for all kind of fibers
- SMC production machinery
- Fiber spraying systems
- Bonding machines for automated processes
- 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 2018 with more than 130 employees.

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