

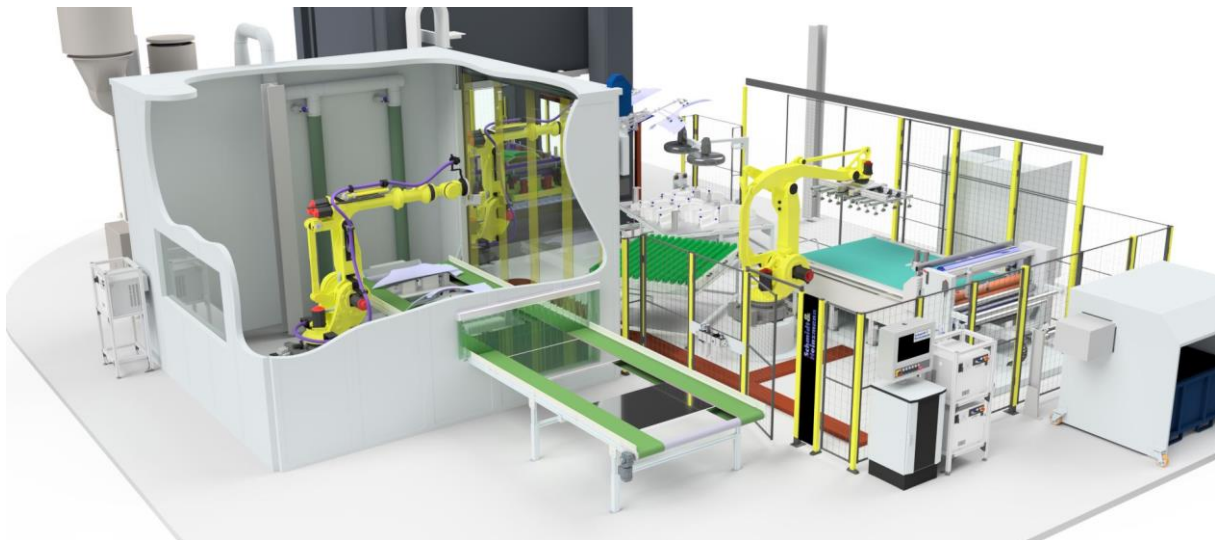
## Schmidt & Heinzmann expands product portfolio with deburring cell

Solution will be presented at JEC World

*Bruchsal, Germany, 12.04.2022: Schmidt & Heinzmann is showing its newly developed deburring cell from 03.05. – 05.05.2022 at the JEC World in Paris (hall 6 booth N72). This new development is the logical extension of the company's product portfolio, which covers almost the entire manufacturing and processing process for composite materials: from the manufacturing of semi-finished material, through the cutting and stacking of the individual layers, to press automation.*

### Optimized manufacturing process of SMC components through integrated deburring

Schmidt & Heinzmann has developed a deburring cell that is integrated directly into the press automation. The company thus takes on the next production step in the value chain leading to the finished component. After pressing and cooling, the component is automatically fed into the deburring cell, which significantly reduces the logistical effort involved in component manufacture. Emissions are significantly reduced by the housing of the cell and its intelligent extraction and dust removal. An automatic quick changer for tools significantly increases the availability of the entire line.



*SMC press automation with integrated deburring cell*  
Picture: Schmidt & Heinzmann GmbH & Co. KG

### Overall economic concept for cutting and stacking of dry fibers

Schmidt & Heinzmann also offers economical and efficient solutions for the processing of dry fibers. At first, an intelligent nesting process allows an optimal cutting pattern for the cuts, 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. Afterwards the stacks are permanently fixed by ultrasonic welding for further transport or can be processed into preforms by using a preforming center from Schmidt & Heinzmann. Labelling of the stack or preform as well as camera-based quality control are also possible.

Different sensors ensure a stable process both during cutting and stacking and adjust defined process parameters independently if necessary. The control-integrated production planner monitors the entire process and thus enables optimal cutting, handling and stacking sequences. This guarantees the achievement of the shortest possible cycle time, which already convinces customers from the automotive and aerospace industries.



*Cutting & Stacking Cell for dry fibers with several cutting tables of the model "AutoCut".*

Picture: Schmidt & Heinzmann GmbH & Co. KG

## **Virtual Reality – Processes live on site!**

Visitors can experience a deburring cell and cutting and stacking 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 50 years.

The product portfolio includes:

- Cutting systems for all kind of fibers
- SMC production machinery
- Automated cutting & stacking systems
- Deburring & Trimming Solutions
- Preforming systems for the automated production of textile preforms
- Bonding machines for automated processes
- 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 2021 with more than 130 employees.

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