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**PRESS RELEASE**

* **BBG presents molds for CFRP production at the JEC World: composite high-pressure vessels and Airbus window frames**
* **Composite processing molds from the specialist**

*Mindelheim/Germany, 19. February 2019.* At the JEC World composite trade show, BBG presents molds designed to process fiber composites for challenging applications in the automotive and the aerospace industries. At the trade show, which is scheduled to take place in Paris from 12 to 14 March, the mold maker will demonstrate their expertise by showcasing a composite high-pressure vessel and a window frame for the Airbus A 350 made of carbon-fiber-reinforced plastic (CFRP). The family-run company developed and manufactured the molds for both components at its headquarters in Mindelheim/Germany. BBG will be participating in "Bayern innovativ", a joint stand by the Bavarian industry, in Hall 6 at Stand F73.

**Composite high-pressure vessel: HD-RTM mold from BBG**

BBG has developed and manufactured the high-pressure resin transfer molding (HD-RTM) mold for the composite high-pressure vessel. A hollow part made of a CFRP fiber braid with a high fiber volume content is inserted into the two-part mold. A low-viscosity, resin-based mixture is then injected under high pressure, which penetrates the braid and encloses the individual fibers uniformly and without any defects. Since the vessel, which will be used under high pressure, such as in passenger car hydrogen tanks, needs to meet stringent requirements in terms of component stability, BBG has designed the HD-RTM tool with a high level of precision. Among other things, BBG has integrated a sealing system that ensures reliable processes and allows for industrial production without requiring subsequent processing steps when the resin mixture is processed under high pressure.

**Molds and production line for CFRP windows in the A 350**

For the series production of CFRP window frames for the Airbus A350, BBG has developed, built and delivered not only the molds but also the entire production line. The customer is ACE Advanced Composite Engineering GmbH, Immenstaad at Lake Constance, an Airbus supplier that manufactures the components at its Hagnau site.

In addition to the molds, BBG supplied the appropriate BFT-C mold carrier systems in the form of presses with clamping forces of 100 t and the mold turning stations. The in-mold turning station features a heating chamber to heat the molds and then insert them with the preforms into the BFT-C mold carrier, where resin is injected and the component is baked. After opening the mold in the mold carrier, the component is demolded in the demolding station. The window frames can then be removed easily.

**BBG’s customers are active the world over**

BBG GmbH & Co. KG, a manufacturer of molds, machinery and plants, is a renowned specialist for the plastics-processing industry. In addition to end-to-end production lines, BBG designs, develops and manufactures molds for processing polyurethane (PUR), PVC, TPE and other elastomers, as well as a wide range of composite materials. These include production processes such as PUR-CSM (PUR-Composite Spray Molding), LFI (Long Fiber Injection), RTM (Resin Transfer Molding), SMC (Sheet Molding Compound) or GMT (Glass Mat Reinforced Thermoplastic), which are used depending on the desired properties of the final products. The company also focuses on solutions for light-weight construction, the processing of composites and the production of fiber composite components in a large number of industries.

BBG, the family-owned business, which is located in Mindelheim/Allgäu and is run by Hans Brandner, supply their products to their customers all over the world, with the Asian market playing an important role in addition to the markets in Europe and North America. With a headcount of 170, BBG generated global sales to the tune of EUR 27 million in 2018.

**Photos:**



Photo 1:

BBG has developed and manufactured the high-pressure resin transfer molding (HD-RTM) mold for the composite high-pressure vessel shown here. (Photo by Rehau).



Photo 2:

BBG has developed, built and delivered not only the molds but also the entire production line for the series production of CFRP window frames for the Airbus A350. (Photo: Airbus S.A.S 2014 - photo by master films / A. Doumenjou).

**Please visit <https://www.auchkomm.com/aktuellepressetexte#PI_278> for a download of the press release (Word document) and print-quality photos.**

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