Ein Bild, das Zeichnung enthält.

Automatisch generierte Beschreibung

**PRESS RELEASE**

* **BBG:** **lightweight plastic parts with paper honeycomb core for aviation and automotive engineering**
* **Manufacturing solutions from a single source**

*Mindelheim, 31 of July 2024.* BBG, system partner for the plastics processing industry, is reporting increased demand for systems for the production of lightweight components. Most recently, major orders came primarily from customers in the aircraft, passenger car and commercial vehicle sectors. Orders focused in particular on manufacturing solutions for the production of lightweight components with a paper honeycomb (PHC) core.

Pressing prepregs with PHC is one of the most sought-after processes in addition to PUR-CSM (PUR composite spray molding), LFI (long fiber injection) and RTM (resin transfer molding).

**Components are lightweight, stable, corrosion and temperature resistant**

Customers use the molds and production systems supplied to manufacture overhead locker covers and partition walls for aircraft interiors, load floor covers for cars and panels for commercial vehicles, among other things.

The components are very stable despite their low weight. Depending on the requirements profile and intended use, they can be manufactured so as to ensure corrosion and temperature resistance and CLASS A surface quality.

**The right process for every lightweight part and the optimum components**

BBG production systems for fiber composite components are used by a large number of industries. They work efficiently and save resources and materials so that customers benefit from low energy and production costs.

Depending on the respective requirements, different processes are used to manufacture mudguards for tractors, radiator grille panels for trucks, sliding headliners and body components for passenger cars and commercial vehicles or battery boxes for electric vehicles.

BBG's end-to-end systems include components for all production process steps: from material provisioning and machine loading through to the production, removal, quality control, post-processing and packaging of components. Important material and production data can be recorded and assigned to individual components for product traceability in order to certify production processes.

**End-to-end solutions from a single source**

As general contractor, the Mindelheim-based family-owned company is in charge of the project planning, design and implementation of end-to-end systems. The company is responsible for selecting and integrating the modules and coordinating the interfaces. The range of services offered also includes automation, installation and commissioning, including operator training.

BBG develops and manufactures core system components such as molds, mold carriers and press systems itself, while other modules are supplied by long-standing partners. In addition to new projects, the Mindelheim-based company also retrofits existing systems.

In the field of automation, there is a particular demand for handling systems and automation cells that use robots to load tools, rework components or apply mold release agents to mold surfaces.

**Automation in the future: how BBG makes use of artificial intelligence**

A research project at BBG in Mindelheim is currently investigating what the automation of production processes with the help of artificial intelligence (AI) could look like in the future. The project involves building an end-to-end installation for testing and demonstrating research results.

Partners of the "EKI - Engineering for AI-based Automation in Production Environments" project include dtec.bw - Zentrum für Digitalisierungs- und Technologieforschung der Bundeswehr *(dtec.vw - Center for Digitalization and Technology Research of the Federal Armed Forces),* Helmut-Schmidt-University/University of the Federal Armed Forces at Hamburg, and Weidmüller Interface GmbH & Co. KG at Detmold.

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

BBG GmbH & Co. KG is an international system partner for the plastics processing industry with its own mold, machine and plant engineering units. 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. The company also focuses on solutions for lightweight construction, the processing of composites and the production of fiber composite components in a large number of industries.

The family-owned BBG business, which is run by Hans Brandner and is located in Mindelheim/Allgäu, 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. BBG’s subsidiaries represent the company in China, the USA and Mexico. With a headcount of around 170, BBG generated worldwide sales to the tune of 20 million Euros in 2023.

**Photos:**

Ein Bild, das Buch, Papierprodukt, Im Haus, Kunst enthält.

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Photo 1:

The paper honeycomb process is used to manufacture lightweight components that are very stable despite their low weight (Photo: BBG).



Photo 2:

BBG's customers use the PHC process to manufacture overhead locker covers and partition walls for aircraft interiors, for example... (Photo: iStock ampueroleonardo).



Photo 3:

... or loading floor covers for vehicles such as this design for the front trunk of an electrically powered pickup truck for the American market (photo: BBG).

Ein Bild, das Im Haus, Maschine, Waschbecken, Küchengerät enthält.

Automatisch generierte BeschreibungPhoto 4:

In addition to handling systems, robot-equipped automation cells that apply mold release agents (pictured) to mold surfaces, for example, are particularly in demand for the purposes of automation (photo: BBG).

**Please visit the following website for a download of the press release (Word documents) and print-quality photos:**

[**https://www.auchkomm.com/aktuellepressetexte#PI\_575**](https://www.auchkomm.com/aktuellepressetexte#PI_575)

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