

* **BBG sets new standards with Vertipour: the world's first solution for vertical glass encapsulation**
* **Compact technology - more efficient, ergonomic and cost-effective**

*Mindelheim/Germany, 20. October 2025.* BBG, the system partner for the plastics processing industry, presents Vertipour, the first process for the vertical encapsulation of glass panels with polyurethane (PUR).

The vertical filling process has a noticeably positive effect on component quality, particularly when finishing large-format glazing: The number of air inclusions and flow defects decreases, while the PUR flow behavior in glass encapsulation is improved. This process even allows for the encapsulation of thin-walled areas without any problems.

The ergonomic design, which offers more benefits than conventional methods, also makes it easier to access the two halves of the mold. The operator only has to make a half turn for access.

Furthermore, the investment costs decrease with the complexity of the system. At the same time, the new development minimizes the consumption of material and energy during encapsulation. Moreover, Vertipour molds allow for space-saving transport and storage.

**This translates into specific customer benefits**

Whereas glass encapsulation processes used to be horizontal, the Vertipour system developed by BBG literally turns the process by 90 degrees. The name is derived from "verti" for vertical and "pour" for the English word pour. Glass panels are molded in an upright position - very much like in a conventional injection molding machine.

The simplified design of the system reduces its manufacturing costs. One axis and one direction of movement are sufficient for encapsulation instead of four to five axes in the systems used so far. This reduces the programming effort, thus allowing BBG to use a simplified control unit.

Significantly lower energy requirements thanks to the simplified mechanical components improve energy efficiency, too. Material can also be saved, as the optimized flow behavior means that fewer venting points are required in the encapsulation mold, for example for screw bosses, ribs, pins and bottlenecks.

The space-saving solution also allows molds to be transported and stored upright. Last but not least, the system is designed to be automation-friendly so that cleaning, application of release agent, loading and unloading can be carried out by robots.

**Paradigm shift in glass processing**

This innovation is BBG's response to the challenges of ever larger vehicle glazing. Starting with the first pop-up glass panels in the 1980s, the dimensions of the glass panels have grown continuously. As a result, encapsulation molds and mold carrier systems have also become larger, more complex, more elaborate and more expensive. It has also become increasingly difficult to ensure the ergonomic design of the machines, which has led to rising costs.

**Breakthrough through simulation and practical testing**

The developers and designers at BBG have therefore rethought the subject of glass encapsulation from the ground up. First flow simulations showed promising results, says project manager Bernhard Satzger. "The subsequent production of test specimens also confirmed the potential of the solution."

**Target groups and applications**

Vertipour is primarily aimed at companies in the glass finishing sector for the automotive industry, boat building and photovoltaic module production. In view of the major advantages, the vertical PUR filling process is also suitable for polyurethane processing companies from other sectors.

BBG offers Vertipour as a complete modular solution comprising mold carrier system, peripheral components, automation modules and mold.

**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 construction. 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, composites processing and the production of fiber composite components in a large number of industries.

BBG is a family-owned business, which is run by Hans Brandner and is located in Mindelheim/Allgäu. BBG 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. The company is represented by its own subsidiaries in China, the USA and Mexico. With a headcount of around 170, BBG generated worldwide sales to the tune of 27 million Euros in 2024.

**Photos:**

Ein Bild, das Kopierer enthält.

KI-generierte Inhalte können fehlerhaft sein.

Photo 1:

Vertipour is the world's first mold carrier system for the vertical encapsulation of glass panels with polyurethane (photo: BBG).

Ein Bild, das Menschliches Gesicht, Person, Lächeln, Shirt enthält.

KI-generierte Inhalte können fehlerhaft sein.

Photo 2:

Bernhard Satzger, Vertipour project manager (Photo: BBG).

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