

## Press Release

### **The dot board from Baumer hhs significantly reduces adhesive consumption in hot melt applications**

**Krefeld, July 15, 2020** – The dot board from Baumer hhs enables customers to reduce adhesive consumption in many hot melt applications by 50% or more, and thereby lower the associated CO<sub>2</sub> emissions. The key is to switch from gluing lines to defined dots, which can be accomplished with a minimum of cost and effort by combining the dot board with tesla hot melt heads from Baumer hhs. Processes such as erecting trays or manufacturing wrap-around packaging can often be converted to dot application without compromising on the quality or reliability of the glued joints. Most of the time, in fact, this method even produces better results: Because heat is ideally distributed in the glued joints, dot application avoids cohesive failure and improves the quality of the joints. “The savings on adhesive are so significant that investing in our equipment usually pays off for customers within just two months. Monthly cost cuts can be in the region of several thousand euros, depending on the application. Customers can calculate the reduction in costs and CO<sub>2</sub> emissions quickly and easily with our GlueCalc app”, says Martin Kotecki, Packaging Business Development Manager at Baumer hhs, emphasizing the innovative technology’s short ROI.

The equipment is simple to install: The dot board – part of Baumer hhs’s tesla hot melt product family – is integrated in the control cabinets of the machine controllers, establishing a connection between the application heads and the PLCs. The tesla heads dispense adhesive with maximum precision, making them ideal for applying exactly metered dots of glue. The dot board converts the input signals from the packaging machines into high-frequency signals, which are required by the tesla heads to apply rows of dots.

“Many systems made by other manufacturers can apply only beads of glue, and they usually are programmed in such a way that packaging producers are restricted to defining the start and end points of the glue beads, in other words their length. Using our dot board and tesla hot melt heads, producers can overcome this limitation and significantly cut costs by simple means”, Kotecki says. Converting packaging processes to high-frequency dot application with conventional pneumatic heads would considerably increase spare part requirements and thus production costs. “It’s very hard with these heads to achieve a sustainable packaging process like the one we offer by combining the dot board with our tesla hot melt heads”, Kotecki continues.

With their powerful, electromagnetic drives, the hot melt heads in the tesla family from Baumer hhs are suitable for numerous packaging applications that previously could only be run on failure-prone, electropneumatic heads. And the tesla heads offer yet another advantage: Thanks to their high performance,

customers can achieve faster machine speeds for many of their applications, once they've converted their gluing systems to the innovative equipment from Baumer hhs. The company's precision sensors reliably monitor the quality of even the smallest glue dots and effortlessly keep up with the highest machine speeds.

The dot board ideally is combined with the Xmelt hot melt unit from Baumer hhs. This automated gluing technology takes sustainability and cost-efficiency to a new level on both latest-generation packaging systems and older machines that have been gluing food packaging for years. But even without the Xmelt, customers can significantly cut energy consumption and costs by combining the dot board with the tesla hot melt heads. Baumer hhs's tesla and aerto application heads can also be installed with minimum effort in gluing systems from other manufacturers.

"We additionally offer the dot box version for customers who don't want to make any changes to their control cabinets. The dot box is a controller that we install directly in a customer's production line. It likewise makes it possible to switch from glue lines to dots in just a few minutes, slashing glue consumption and CO<sub>2</sub> emissions", Kotecki says. The dot box offers the same functionality as the dot board. It has an added touchscreen for setting up and operating the gluing process with tesla heads. The dot board and dot box can generally also be used in cold glue applications, such as for tamper-evident packaging, which frequently incorporates glue patterns that combine hot melt and cold glue.

### **Comprehensive approach to optimising glue consumption**

As the world's leading manufacturer of solutions for industrial gluing and the associated quality assurance systems, Baumer hhs takes a comprehensive approach to continuously increasing the efficiency and profitability of automated gluing for the benefit of customers. For example, the company supplies packaging manufacturers and end-of-line solution providers with its GlueCalc smartphone app, an intelligent tool for quickly and easily optimising glue consumption for every single job. All they have to do is enter a few parameters in the user interface, and the GlueCalc app calculates how much they can reduce glue consumption and CO<sub>2</sub> emissions in packaging manufacturing or end-of-line processing if they switch from line to dot application with tesla heads and the dot board or dot box.

"As a pioneer of automated gluing, Baumer hhs has become a one-stop shop for its customers, meeting all their needs with an extensive portfolio of products and services and decades of practical know-how. Particularly for end-of-line solution providers, the combination of our tesla hot melt heads with the dot board or dot box is a welcome alternative to their previous gluing equipment. Customers who have switched their gluing systems to our innovative equipment report reductions of 50% or more in glue consumption, which also improves the carbon footprint of their products and companies. In short, it helps them enhance their overall competitiveness", says Kotecki, summarising market feedback on the innovative technology from Baumer hhs.

For examples of gluing processes that have been successfully switched to dot application, visit YouTube at:  
<https://youtu.be/PhlwYTzfurk>



With the dot board and tesla hot melt heads from Baumer hhs, end-of-line packaging specialists and other customers can reduce adhesive consumption by 50% or more and lower CO<sub>2</sub> emissions – without compromising on the quality or reliability of glued joints. The dot board makes it possible for them to apply defined dots of glue instead of lines in many applications, such as erecting trays or producing wrap-around packaging.

**Press contact:**

Redaktionsbüro Maruschzik  
Am Sonnenhang 3a  
87629 Füssen  
Germany  
Phone +49 8362 92 56 177  
j.m@redaktion-maruschzik.com

**Company contact:**

Baumer hhs GmbH  
Petra Schneiders  
Phone +49 2151 4402 105  
Fax +49 2151 4402 111  
pschneiders@baumerhhs.com  
www.baumerhhs.com

**Baumer hhs GmbH**

Baumer hhs GmbH, Krefeld/Germany, is a leading, internationally operating manufacturer of industrial gluing systems in conjunction with quality assurance and camera verification systems. Baumer hhs offers its customers a carefully coordinated portfolio of solutions for a host of different demands on cold glue and hot melt application in automated production environments, including application heads, pumps, pressure vessels, control and monitoring systems. The portfolio is rounded off by a comprehensive range of services, from consulting and the testing of innovative applications at the hhs solution centre in Krefeld, all the way to every form of after-sales service. Solutions from Baumer hhs are used in the folding carton and corrugated board industry, in print finishing, special-purpose machines and many other applications.

For more information on the Baumer hhs company, its products and its services, go to: [www.baumerhhs.com](http://www.baumerhhs.com).