

**Leaving an innovation
fingerprint where others
leave a carbon footprint.**



At Baumer hhs, sustainability is not just a buzzword. It is a deeply rooted part of our corporate culture.

At Baumer hhs, we drive sustainable innovation.

This has been firmly embedded in our DNA since the company was founded over 35 years ago.

Our mission: To continuously improve our own products and processes and to optimize our customers' manufacturing processes for a better and more sustainable future. Why? Because we believe that sustainability not only increases profitability, but also uses resources more efficiently and minimizes the ecological footprint. Our focus is always on the production safety of our customers, the functionality of their packaging and the reliability of our products.

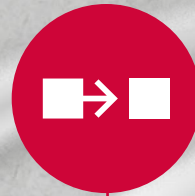
Sustainability is a matter of course for us. We save energy, promote recycling and repair instead of throwing away. For us, sustainability is not a goal, but an ongoing process that guides our actions.



Engineering

A dynamic culture of innovation is firmly anchored at Baumer hhs: We live innovation! Continuous improvement to maximize the performance of our products. Our team of highly qualified designers and sales staff ensure that we are at the forefront of adhesive application technology and quality assurance. Through close collaboration and understanding of the market, we meet the needs of our customers.

- Innovator for non-contact adhesive application
- Market leader for electric adhesive application heads
- Innovative solutions for thermal insulation and multi-zone melters
- Energy-saving concepts for all packaging production applications



Efficiency

Our systems are designed for maximum efficiency, reliability and durability - from concept to delivery. We not only save energy during operation, but also ensure raw material savings and efficiency for our customers.

- Use of bio-based adhesives
- Adhesive savings through dot application
- Waste reduction through optimized start-up behavior
- Minimized cleaning effort



Customer Care

We offer innovative products and modern service that brings real added value. Our virtual customer service and digital condition monitoring are perfect examples of this. With our remote maintenance service, we access machine data and use our experience to detect problems at an early stage before they cause downtime. Our exchange programme offers rapid assistance.

Factory remanufactured products with warranty and as good as new.

- Spare parts sets
- Repairing instead of throwing away
- Exchange programme for quick help
- Preventive maintenance and care programme
- Remote diagnosis



Scan the QR code and explore how Baumer hhs solutions minimise energy consumption in hot melt application.



Quality

Our products are designed to ensure the production of high-quality packaging for our customers. A long service life and the possibility of repair are a quality feature of Baumer hhs for our customers. Already during the development phase we pay attention to fulfil this requirement by selecting high-quality materials.

- Circular design
- Long service life
- Repairability
- High-quality components and materials

When sustainability meets innovation: Your advantages with solutions from Baumer hhs

At a time when sustainability is increasingly becoming an indispensable standard, Baumer hhs offers innovative solutions that reduce material consumption and improve the recyclability of your products. Our technologies help you to fulfil the requirements of the 'Packaging and Packaging Waste Regulation' and drastically optimise the CO₂ balance of your production processes. With the 'less is more' principle, you not only achieve greater cost-effectiveness, but also make a valuable contribution to environmental protection. Discover the four areas in which Baumer hhs can support you on the way to a more efficient and greener future.

Our products stand for:

- Efficient use of energy
- Long service life
- Repairability
- Adhesive savings
- Cost savings
- Saving of resources
- Reduced carbon footprint



Profitability

The efficient use of adhesives can not only lead to considerable cost savings, but can also significantly reduce the environmental impact. The use of dot application (dotting) instead of continuous lines, adhesive consumption can be reduced by up to 50%. This not only halves CO₂ emissions, but also offers significant economic benefits and a reduction in the energy required.

1. Conclusion: Dot application is crucial for reducing adhesive costs by up to 50% and increasing economic efficiency, without compromising the effectiveness of the adhesive bond.

2. Conclusion: Energy costs can be significantly reduced if less adhesive is melted.



Reduced climate impact

When evaluating the environmental and economic aspects of packaging production, it is crucial to consider both economic and ecological costs. By using CO₂ equivalents, we can assess the climate impact of adhesive and energy consumption on a comparable basis. Our analyses show that adhesive consumption has a significantly greater impact on greenhouse gas emissions than the energy consumption for melting and heating the devices.

Our calculations have shown that halving the use of hot melt adhesive from 6 kg to 3 kg per hour in annual production saves CO₂ emissions comparable to driving a car around the world 5 times. We should talk about this.

3. Conclusion: The use of adhesives contributes significantly to CO₂ emissions. Halving the use of adhesives significantly reduces the CO₂ footprint.



Improved recycling

The aim is to maximise the recyclability of packaging. We promote this by using our technology to apply only as little adhesive as the packaging function requires. One example of this is hot melt application in dot mode. It reduces the amount of foreign material introduced into the recycling process, which increases the fibre yield. Each glue dot is dimensioned in such a way that the specifications

of the European Paper Recycling Code are even exceeded and packaging is therefore fully recyclable.

4. Conclusion: The use of dot application for packaging minimises the amount of foreign materials in the recycling process and also ensures the recyclability of packaging.



Trouble-free production

Sustainability in packaging production also means avoiding production waste and disruptions. Improper use of hot melt systems can cause burns. New hot melt

hoses have a metal inner core to prevent burns. The automatic temperature reduction and the two-zone tank of the Xmelt melter also contribute to trouble-free production.

Environmentally responsible and future-orientated.

This is how we think sustainability at Baumer hhs.

Sustainability is more than just a buzzword; it is a commitment that is deeply rooted in the philosophy of Baumer hhs. We are at the beginning of an exciting journey that affects our customers, employees and the environment in equal measure. In our efforts to act in an economically, socially and ecologically sustainable manner, we have asked ourselves profound questions:

How can we operate in the market in an economically sustainable way for our customers in the long term? How can we create socially sustainable working conditions for our employees and protect the environment at the same time? How can we minimise the ecological impact of our company?

Our motto has evolved from this process: Rethink. Renew. Recycle. It reflects our commitment to constantly looking for innovative ways to contribute to climate protection and sustainable production.



Green power

Since June 2022, Baumer hhs in Krefeld and Berlin has been using exclusively green power from renewable energy sources.



CO₂-footprint

Determination of the CO₂ footprint of Baumer hhs as a basis for CO₂ reduction projects.



Glue-Calc APP

Our GlueCalc APP calculates exactly how much adhesive and CO₂ our customers can save.



Packaging

Filling material for shipping packages made from renewable raw materials, plastic-free shipping notes and mailers, pendulum packaging.



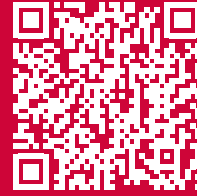
Plastic replacement

Replacing plastic with recycle in production.



Development projects

Projects on the subject of 'sustainable packaging' and bio-adhesives.



Scan the QR code and find out more about how we live sustainability in our company.



Eco-Design

Eco-Design as the standard in engineering, with regular staff training and the use of state-of-the-art design methods.



Design for recycling

Baumer hhs products are durable, recyclable and repairable.



Refurbishing

Exchange programme for replacing defective components with reconditioned components in manufacturer quality. Like new!



Recycling centre

Disassembly and sorting of old equipment into material classes at our own recycling centre.

Our co-operation partners



4evergreen is a cross-industry alliance that focuses on improving the circularity of fibre-based packaging. The organisation is driven by the insights and initiatives of its members through four technical working groups that focus on different aspects of fibre-based packaging. We at Baumer hhs are proud to be part of this co-operation.

www.4evergreenforum.eu



Together with the natureOffice agency, Baumer hhs is working on a forward-looking sustainability strategy. The first step is to determine the CO₂ footprint, taking into account all 3 scopes. This serves as the basis for defining reduction targets and anchoring a long-term climate protection strategy in the company.

Our passion: Reliable and innovative systems for adhesive application and quality assurance

Baumer hhs, based in Krefeld, Germany, is your global partner for adhesive application and quality assurance systems. For us, quality and precision are basic principles of engineering and manufacturing, and professional services are an integral part of our products.

We maintain a constructive and collaborative dialogue with our customers and suppliers, which forms the basis for solutions that optimally meet their individual needs. Our trained sales staff and technicians support you with any issues you encounter in system configuration, production, maintenance and servicing.

Reliable, solution-oriented

The name Baumer hhs stands for reliable and innovative solutions in industrial gluing. We develop products that help our customers meet the highest market requirements.

Protecting your investment

Products from Baumer hhs are known for their long service life, low maintenance and adaptability to future requirements. That's our definition of a secure investment.

We listen closely

Maintaining a constructive and collaborative dialogue with you forms the basis for solutions that optimally meet your individual needs. Our specialists in Sales and Technology work hand-in-hand to turn possibilities into realities for you. Give us a call or send us an e-mail. We would be happy to talk about your challenges. And perhaps this will be the first step towards a new partnership!

Eco-conscious

Our products are engineered for maximum sustainability, and inside our organisation, we constantly search for ways to make an even greater contribution to climate protection and sustainable production practices. Learn more about our projects:



1986

hhs-Leimauftragssysteme GmbH established **Hans Henning Sasse** in Ratingen, Germany

1999

Relocation from Ratingen to Krefeld

2001

Integration into the Swiss Baumer Group

2014

New company headquarters built in Krefeld

2019

Relocation to our new production facility in Berlin

2023

Opening of our second production facility in Krefeld



Learn more about us

hhs
Baumer Group

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