

End-of-line packaging solutions

hhs
Baumer Group

Sustainable, reliable, safe
and cost-efficient.



Let's stick together

baumerhhs.com

Systematic advantages.

From the adhesive storage unit to the packaging line:
Uncompromising quality from a single supplier

Our entire system is designed and optimised for the end-of-line packaging process: Nine modules work together smoothly from material supply to the quality-tested final product, so that you benefit from a number of different advantages.

Resource-efficient for increased sustainability

- 50% or more reduction in adhesive consumption with dot application
- 50% lower energy consumption
- Energy savings from lower application temperatures
- No compressed air required for tesla application heads
- Melt-on-demand technology

Designed for more safety

- No risk of burns when re-filling hot melt units
- No adhesive stored in the production area
- No exposure to adhesive vapours
- Maximum safety provided by overtemperature switches in all components
- No spilled granules in the production area
- No lifting or carrying of heavy bags of adhesive

Networked for higher reliability

- Networked production enhances efficiency
- No need to stop production due to low adhesive in the hot melt unit
- No interruptions in production caused by contaminated machines
- Faster production start-up
- Automatic maintenance recommendations from the system
- Long service life: Min. 1 billion cycles for tesla application heads

Engineered for greater cost-efficiency

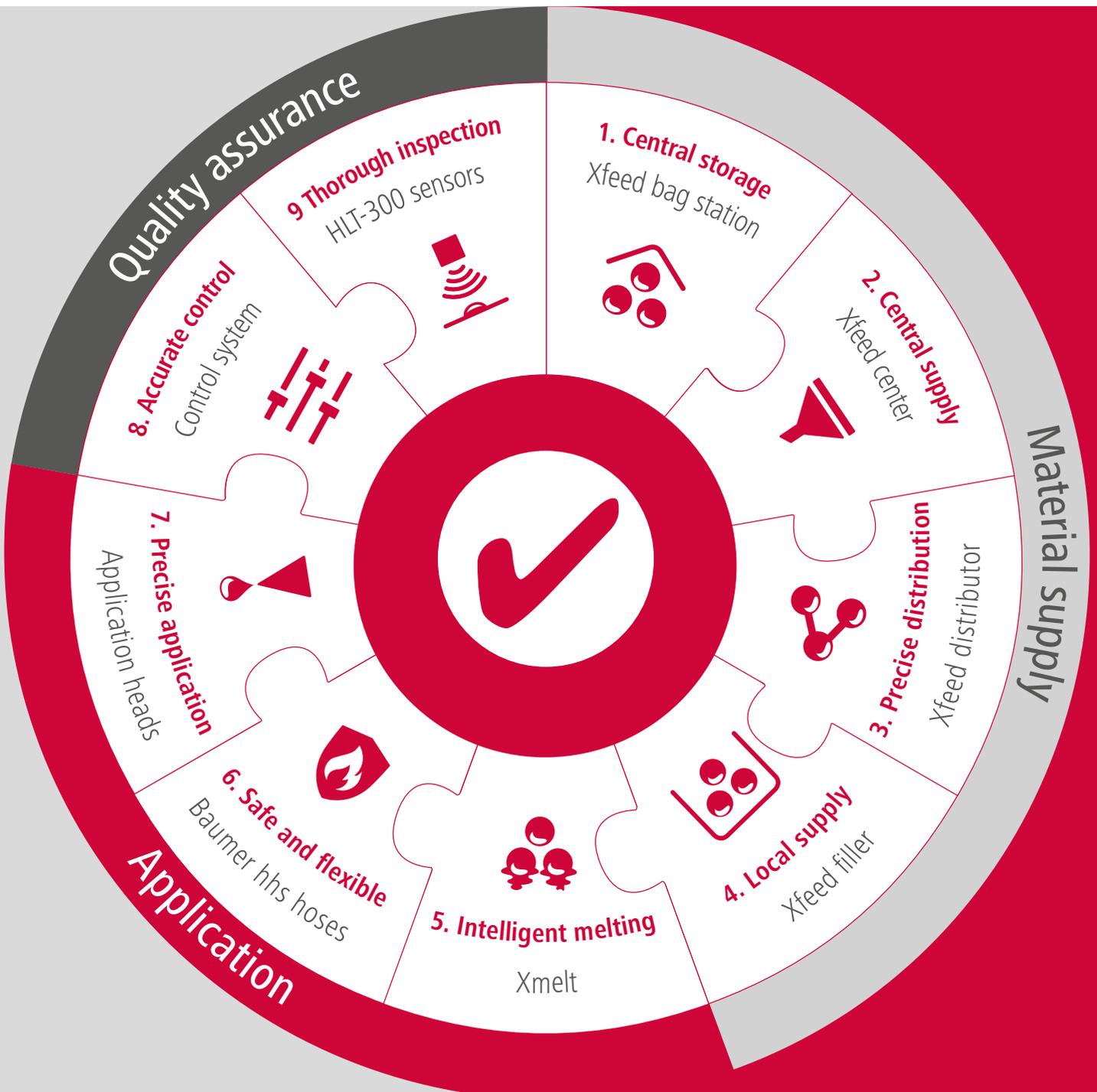
Cuts costs by over 50%:

- Lower adhesive consumption
- Lower maintenance costs
- Fewer wear parts
- Higher machine availability
- No unnecessary transport paths
- Lower HR requirement
- Higher degree of automation

Modular equipment for a perfect system

Optimise all or part of your end-of-line packaging process by integrating individual Baumer hhs modules into existing production lines. Bi-directional communication between components makes your overall system safe, sustainable and reliable.

Depending on your requirements, you can benefit from one of our three system integration levels: go, evo or pro. Just contact your representative for more information.



Perfect interaction: The system modules.

Full networking and 100% quality control
from adhesive storage to the final product



1 Central storage.

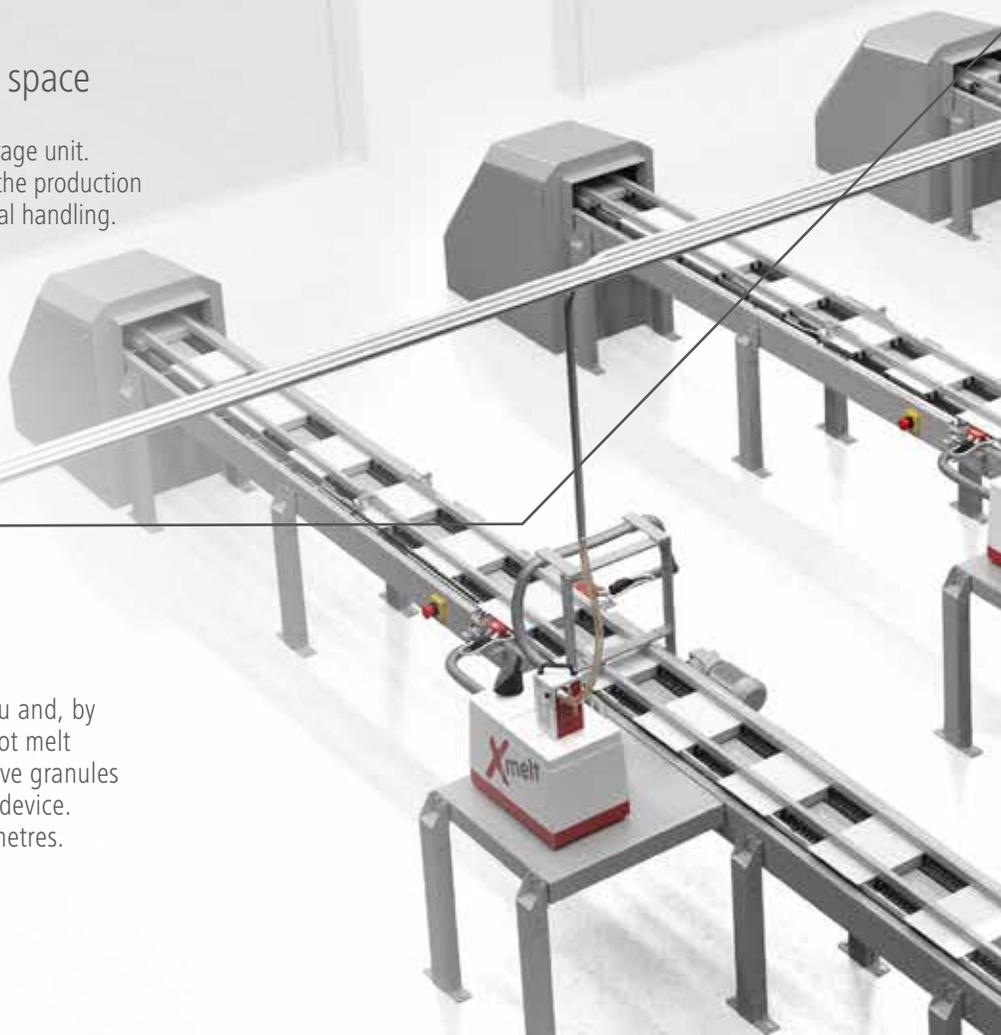
Xfeed bag station:
Supports logistics and saves space

The Xfeed bag station is the central adhesive storage unit. Bags of adhesive no longer need to be stored in the production area. That simplifies storage, logistics and material handling.

2 Central supply.

Xfeed centre:
Automated adhesive feed

Our Xfeed centre keeps an eye on things for you and, by automating the feed process, makes sure the hot melt units don't run dry. Only that amount of adhesive granules actually needed is distributed to each terminal device. Suitable for conveying distances of up to 200 metres.



3 Precise distribution.

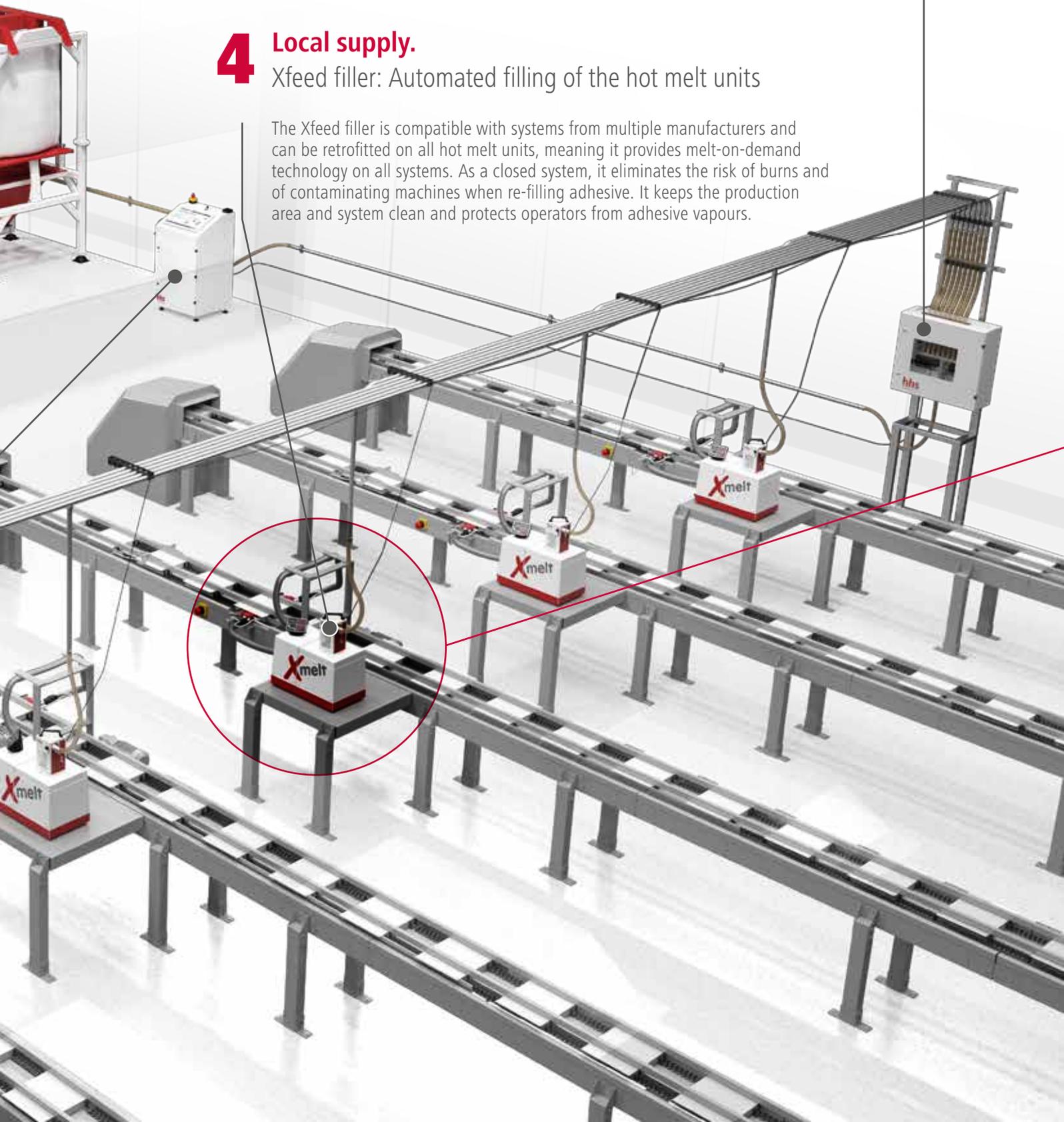
Xfeed distributor: Feeds adhesive to the right machine

With the Xfeed distributor, precisely the right amount of adhesive granules is delivered to the right packaging line. The Xfeed distributor is designed for four to eight terminal devices but can be expanded for up to 20.

4 Local supply.

Xfeed filler: Automated filling of the hot melt units

The Xfeed filler is compatible with systems from multiple manufacturers and can be retrofitted on all hot melt units, meaning it provides melt-on-demand technology on all systems. As a closed system, it eliminates the risk of burns and of contaminating machines when re-filling adhesive. It keeps the production area and system clean and protects operators from adhesive vapours.



5 Intelligent melting.

Xmelt: Material-saving and energy-efficient

Xmelt gently melts adhesive with two heating zones and, together with Xfeed or Xfeed Single, can be converted into a tankless system. The Xmelt unit liquefies your adhesive granules and keeps the target temperature constant. The efficient insulation and the system design combine to ensure maximum energy efficiency. The result is shorter heating times and a faster start to production.

6 Safe and flexible.

Hot melt hoses from Baumer hhs:
Built-in safety

With their integrated overtemperature switches, our hoses offer maximum safety in production. They function independently of the control system for the highest possible level of safety. Different hose sizes are available for simple integration into any system.



7 Precise application.

Our application heads for uniquely precise adhesive application

The hot melt application heads are the heart of our system design. Precision application gives you maximum production reliability. With tesla, we offer a magnetic application head that has a lifetime of up to 1 billion cycles. Our pneumatic aerto application heads likewise have an excellent reputation as reliable terminal devices, especially for high-viscosity adhesives and special installation situations. The aerto application heads are known for applying glue without any tailing whatsoever. Both of these application heads can be operated via a programmable logic controller (24 volt).

8 Accurate control.

Baumer hhs application control units reduce costs immediately

With the dot board and tesla go, you can start saving significant quantities of adhesive right away. Precision-controlled glue application turns standard line application into a defined row of dots, and that saves so much, that your new system can pay for itself in just 50 days. For more complex applications, you can turn to our Xact and Xpect controller solutions.

9 Thorough inspection.

Sensors for precision product monitoring

Trust is good, control is better – especially at the end of the packaging process. Our HLT-300 glue sensor reliably detects every single dot. Flawed products are detected immediately and can be ejected. The sensors can be connected right to the PLC (24 volt).

Efficiency cuts costs and helps the environment.

Teaming up to save over 50% on glue

One key to greater cost-efficiency is to switch from glue beads to dots. With tesla hot melt application heads and the dot board, adhesive consumption can be reduced by 50% and more for many types of packaging without

compromising on the quality or reliability of the glued joints. The dot board amplifier converts the PLC input signals into high-frequency signals for precision dot application.

Glue consumption - dots:

4 x 30 mm / 80 packs / min. (7 dots)



22 kg / day

Glue consumption - lines:

4 x 30 mm / 80 packs / min.



48 kg / day

Reduction of 26 kg / day 6,500 kg / year

Year = € 26,000*

GlueCalc-App:

With our GlueCalc app, you can calculate right at your production lines how much you can reduce both costs and associated CO2 emissions by switching to dot application. The GlueCalc app is available now from the App Store for free download.

* Example calculation based on 250 working days/year, 3-shift operation and glue costs of €4.



Baumer hhs – Your competent partner

Baumer hhs, based in Krefeld, Germany, is your worldwide partner for reliable and innovative glue 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 production. The Baumer hhs solution centre in Krefeld offers you assistance with new applications and in selecting the right adhesives.

We want our customers to be excited – with our premium products and our impeccable all-round service. But it's best to see our products for yourself! Just call or send us an e-mail.

We'd be happy to help you with your next project!

