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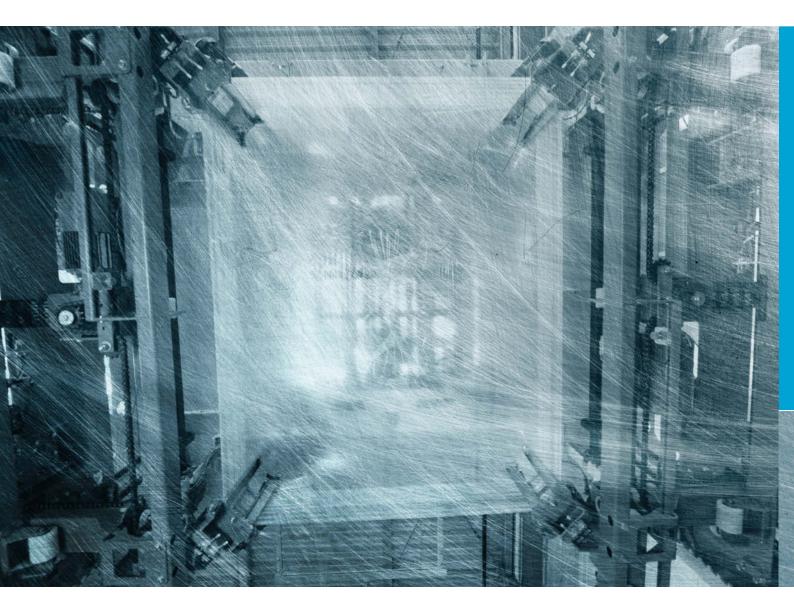
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Products and technologies carrying BEUMER's "made different" seal are characterised by their sustainability based on their economic, environmental and social performance as measured by the BEUMER Sustainability Index (BSI).





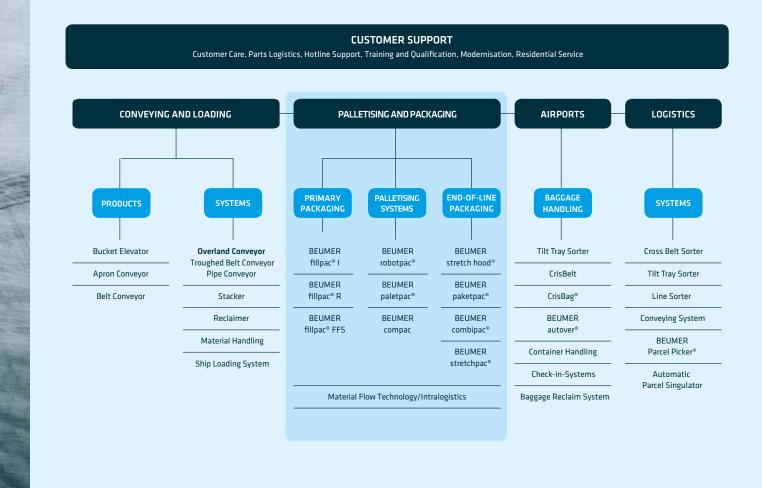
BEUMER PACKAGING TECHNOLOGY SAFE, CLEAN, PROFITABLE

PACKAGING TECHNOLOGY



MODERN PACKAGING WITH PROVEN METHODS

The efficient and safe packaging of products is a big cross-industry challenge successfully mastered by BEUMER Group through long years of engagement and experience. Irrespective of the application, be it in the chemical, building materials or food and beverage industry, BEUMER Group equipment and solutions make reliable and sustainable packaging of any product possible.



FROM PRIMARY PACKAGING ...

As a filling technology expert, BEUMER Group is a dependable partner when it comes to bagging various pourable and free-flowing, fine-grain and coarse-grain products in a reliable, economical and efficient manner. An entire series of innovative filling systems is best proof of our expertise:

- Rotary impeller filling machines BEUMER fillpac[®] RH/RV
- Air rotary filling machines BEUMER fillpac[®] RA
- Inline impeller filling machine BEUMER fillpac[®] IH/IV
- Air inline filling machines BEUMER fillpac[®] IA
- Form fill seal system BEUMER fillpac[®] FFS

... TO SECONDARY PACKAGING

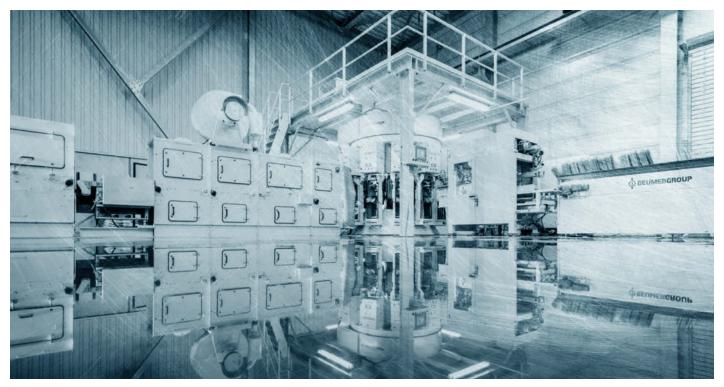
Films help to protect palletised goods from inclement weather, tampering and incidents. Each of the numerous film packaging technologies has its advantages and is particularly suited for certain applications. That's why BEUMER Group offers comprehensive solutions for all common packaging methods:

- BEUMER stretch hood[®] for packing with stretch hoods in small spaces
- BEUMER compac for palletising and packing using stretch hoods
- BEUMER paketpac[®] for palletless packing

HIGHLIGHTS

- Primary packaging for the building materials, cement, mineral and chemical industry
 - · Low investment costs
 - High parts availability
 Low maintenance
- Secondary packaging for all industries
 - High flexibility of handling for various product sizes
 - \cdot High throughput
 - Weather and intrusion protection
 - \cdot Ease of handling

PRIMARY PACKAGING WITH BEUMER FILLPAC® FILLING TECHNOLOGY ON A NEW SCALE



BEUMER fillpac® machines ensure the best possible filling options for a wide range of products, using air or turbine packers, or rotary or inline filling procedures.

The BEUMER fillpac[®] series offers filling systems for any requirements – perfectly adapted to the flow behaviour and the grain size of the products. They are used for reliable, gentle and sustainable bagging of building materials, cement, minerals and chemicals.

TAKING THE RIGHT TURN

The BEUMER fillpac® R turbine rotary filling machines and BEUMER fillpac® I turbine inline filling machines are best suited for free-flowing, fine-grained products such as cement or various types of gypsum. Their motorised impellers ensure a particularly high filling pressure, thus achieving optimum compaction of the fine-grained materials.

POWERFUL AND MULTI-TALENTED

The air rotary filling machine BEUMER fillpac[®] R and the air inline filling machine BEUMER fillpac[®] are ideal for bagging coarse-grain products with a particle size of up to 10 mm. The machines use blowers for particularly gentle conveying of various products into bags.

HIGHLIGHTS OF THE BEUMER FILLPAC[®] SERIES

- Available in turbine or air inline filling versions
- Capacity from 300 to 6,000 bags per hour
- The latest electronic weighing and filling control systems ensure high weight and filling accuracy
- Optional bag placer for fully automatic filling

PRIMARY PACKAGING WITH BEUMER FILLPAC® FFS FORM, FILL, SEAL



Even products with low dimensional stability can be reliably filled and sealed using the BEUMER fillpac® FFS

High product temperatures, special flow characteristics and low dimensional stability – these are some of the challenges when bagging and packaging chemical and petrochemical products. As a partner to chemical companies, BEUMER Group has developed an innovative, compact high-precision form fill seal (FFS) system to address these challenges: BEUMER fillpac[®] FFS.

THREE FUNCTIONS IN ONE

The BEUMER fillpac[®] FFS fulfils three functions with one compact and spacesaving system: It forms bags from a prefabricated tubular PE film, fills them with the corresponding product and seals bags at a rate of up to 2,600 bags per hour.

FLEXIBLE IN ALL RESPECTS

The symmetrical structure of the BEUMER fillpac[®] FFS is unique and enables operation from any side of the system. Thanks to various options like print mark control, automatic exchange of film rolls, a detached film releasing unit, free or rail-based manoeuvrability and the possibility of processing pre-stretched film, the system can be adapted individually to any kind of customer requirement. A further advantage is its modular structure which ensures simple operation and easy cleaning as well as short retrofitting and maintenance times.

HIGHLIGHTS OF THE BEUMER FILLPAC[®] FFS

- Bag forming, filling and sealing in one system
- Capacity of up to 2,600 bags per hour
- > Compact, space-saving design
- > Robust low-vibration technology
- Intuitive operation with an ergonomic control panel (HMI)

OUTER PACKAGING WITH BEUMER STRETCH HOOD® INNOVATIVE, EFFICIENT, FLEXIBLE



Spreading of the film hood and transfer to the crimping device

The BEUMER stretch hood® series is an innovative, modular packaging system for securing palletised load units with stretch hoods. State-of-the-art control technology, customisable configuration and a flexible set of functions ensure that the system can be perfectly incorporated into any environment. This is the basis on which the BEUMER Group has developed an efficient and surprisingly compact system, the BEUMER stretch hood® A. whose high system performance, ergonomic operation and extremely space-saving dimensions make it a sure winner.

FLEXIBLE AND POWERFUL

Depending on the model, the BEUMER stretch hood systems process up to 200 pallets per hour, with film thickness between 40 and 200 microns and a package height of up to 2.8 metres – average energy consumption being under 0.05 kilowatt hours per pallet. Thanks to waterproof films and skilful exploitation of vertical and horizontal tension forces, the BEUMER stretch hood[®] ensures perfect transport protection for a great range of products.

SUSTAINABLE PRODUCT SAFETY

Systems from the BEUMER stretch hood[®] series guarantee maximum load stability with minimal film consumption and master high throughput rates as well as changing product sizes. You also achieve a high, reproducible level of process safety while maintaining consistently low film consumption. Due to the heat-free packaging method, the BEUMER system uses very little power. Lower material and energy consumption as well as support for recyclable films benefit both your budget and the environment.



Understretch

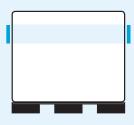
closed hood



Understretch open hood



Various foot reinforcements



Various strapping

Shelf warehouse stretching, closed hood

Shelf warehouse stretching, open hood

Packaging methods

EXCELLENT RESULTS FOR AN ENDURING IMPRESSION

As far as economic efficiency and dependability go, the BEUMER stretch hood[®] is practically unrivalled. The high-quality final packaging minimises the risk of returns and ensures an excellent display of the packaged goods. Particularly in the consumer goods market, aspects such as gentle handling and good visibility of product play an important role – and BEUMER Group recognises the significant need to deliver product at its highest value state.

EFFICIENT PACKAGING IN A VERY SMALL SPACE

The high-performance BEUMER stretch hood® A packaging system has a footprint of only 13.7 m². The innovative film transport system also guarantees safe and rapid tool changes straight from the floor. Optimised processes improve plant availability and reduce the number of film roll change cycles. Since energyefficient technology is used and there is no need for air-cooling of the film sealing seam, the system also excels with its very low operating costs.

HIGHLIGHTS OF THE BEUMER STRETCH HOOD[®] SERIES

- > High load stability
- Transparent film enables an excellent display of packaged goods, and opaque film can be used to provide ideal visual protection for sensitive goods or goods at risk of theft
- > Weather and intrusion protection
- Minimal energy and film consumption
- Powerful performance due to optimised work sequences
- Ease of handling
- > Automatic ultrasound calculation of film length
- Durable frame and robust drive elements

SECONDARY PACKAGING AND PALLETISING USING THE BEUMER COMPAC









Fast exchange of the film roll with fork-lift trucks – simple control via BEUMER Group HMI

Small floor space, high capacity: even in areas where more storage space is required, bagged goods can still be efficiently palletised and packaged. In order to save space, we combined two highly efficient BEUMER systems. The result is a system that requires little space, saves costs and impresses with its great performance: the BEUMER compac.

POWERFUL COMBINATION FOR PALLETISING AND PACKAGING

BEUMER compac is a combination of the BEUMER paletpac[®] palletiser and the BEUMER stretch hood[®] packaging system. It enables you to precisely stack up to 2,500 bags per hour onto pallets on a floor space of only 13.5 m x 7.5 m and then package the bags with the proven BEUMER stretch hood procedure. The palletised load units are transported on a single roller conveyor to the packaging system. It is not necessary to centre the pallets, due to the short conveying route.

The entire system, from palletising to packaging, is operated and controlled via a common control cabinet including HMI. This saves time, cost and effort during installation and operation.

HIGHLIGHTS OF THE BEUMER COMPAC

- Performance range: 1,200 to 2,500 bags per hour
- Less space required, smaller floor space due to compact system design
- Ground-level bag flattening conveyor, no separate access necessary
- Only one control cabinet, joint operation and control of palletising and packaging
- > Common safety circuit
- Minimal platform size of only 2.3 m²

SECONDARY PACKAGING WITH BEUMER PAKETPAC® SAFE WITHOUT PALLETS



Products can be efficiently transported and stored with the innovative BEUMER paketpac® palletless film packaging system

BEUMER Group also offers completely palletless packaging solutions, thus delivering an unparalleled eco-balance. The BEUMER paketpac® not only improves the ecological and economical packaging aspects but also provides efficient transport packaging of goods in regions lacking natural resources (such as wood).

ECOLOGICALLY AND ECONOMICALLY VALUABLE

Transport packaging solutions that have eliminated a pallet carrier can be both cost-effective and environmentally friendly. BEUMER Group offers two packaging options for the BEUMER paketpac[®]: either the film-saving shrink technology or the innovative stretching technology. The superb stacking quality is another strong argument in favour of the system. The reduced weight and dimensions of the packages facilitate loading and lower the storage and transportation costs.

HIGHLIGHTS OF THE BEUMER PALETPAC[®] SERIES

- Superior eco-balance and product purity
- > Thorough weather protection
- Less on-site storage required
- Fewer working steps, higher reliability
- > Use of recyclable materials

SIMPLY WORLD-CLASS CUSTOMER SUPPORT



We also act as the main contractor on behalf of our customers and provide comprehensive, highly customised concepts.

Competent engineering, fast and reliable on-site service as well as optimal spare parts supply round out our offering and ensure high reliability of the systems.

Our support solutions will keep

24 hours a day, 365 days a year.

your systems operating -





entitles you to multiple service options, such as maintenance and repair on site through our field service engineers or regular safety checks according to statutory rights. If hardware replacements are needed, our comprehensive warranty service ensures you are always covered.

MODERNISATION

We are constantly developing new ways to upgrade our software and hardware to extend a system's lifetime, lower energy costs and increase efficiency. We will keep you informed of all relevant upgrade opportunities, based on an understanding of your business and system needs.







At REUMER Group, the focus is always on neonle We build strong partnerships through personal relationships and individual attention.

TRAINING AND QUALIFICATION We offer standard and tailored customer training programmes to make sure your teams are fully qualified to operate your systems. With hands-on guidance, conducted either on-site or at BEUMER Group locations, your teams can maintain optimal operational performance.

SPARE PARTS LOGISTICS

We guarantee spare part replacements around the world through our local companies. As a BEUMER Group customer, you will have your own individual contact to assist you with technical inquiries, warranty issues or repair orders and to secure that your order is delivered on time.





HOTLINE SUPPORT

Our hotline support is manned 24/7 by highly trained, multiskilled engineers who all have at least four years of direct field experience. Most cases are solved remotely, however, should the problem require more specialised attention, a BEUMER Group engineer will be quickly sent out.

RESIDENTIAL SERVICE With our residential service, we are on-site every day to take complete responsibility for your system uptime, performance and operational efficiency. We can take care of all maintenance and management, including system improvements, contingency plans, specialist advice and repairs.