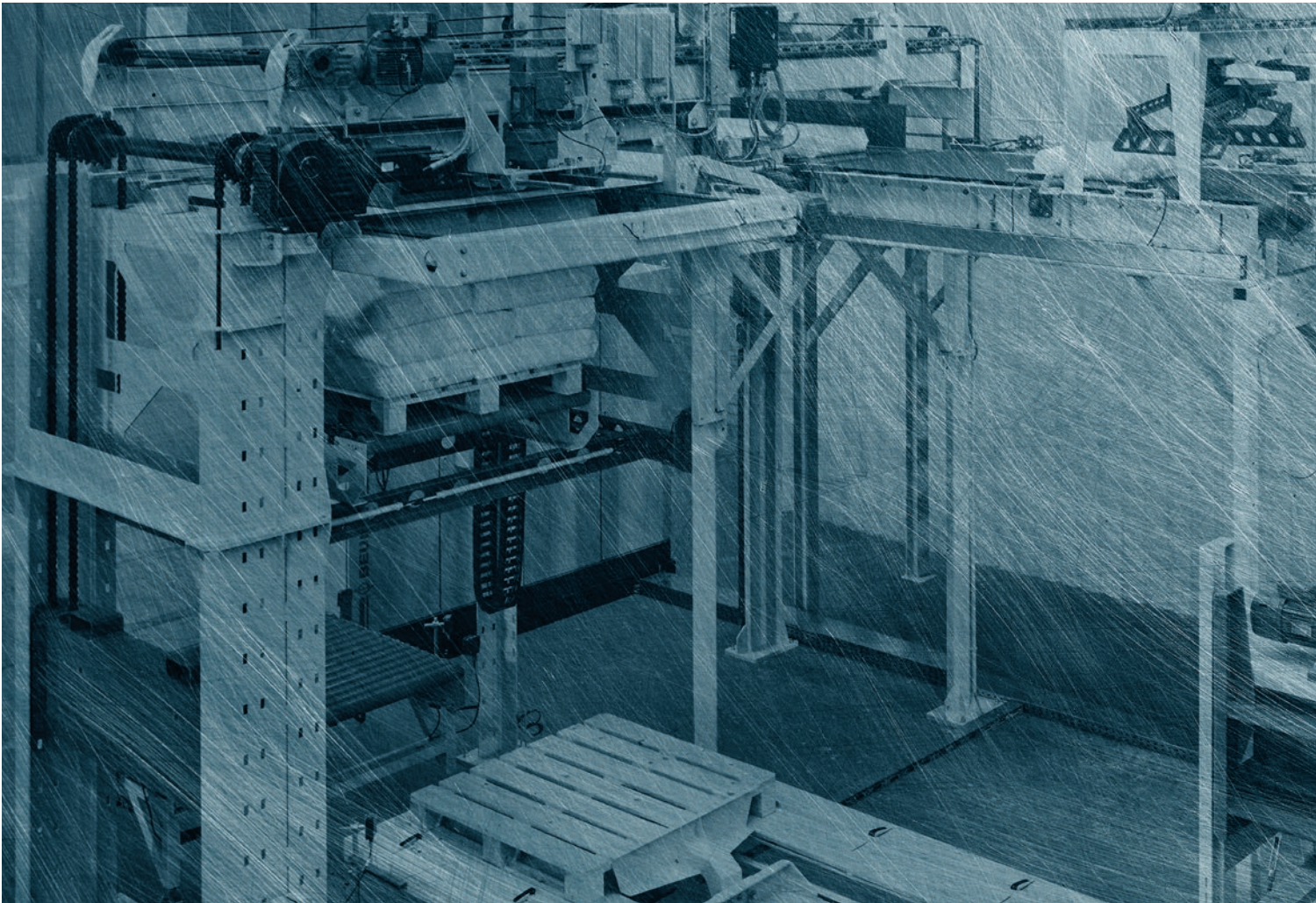


**BEUMER PALLETISING  
TECHNOLOGY**  
**PRECISE, EFFICIENT, RELIABLE**

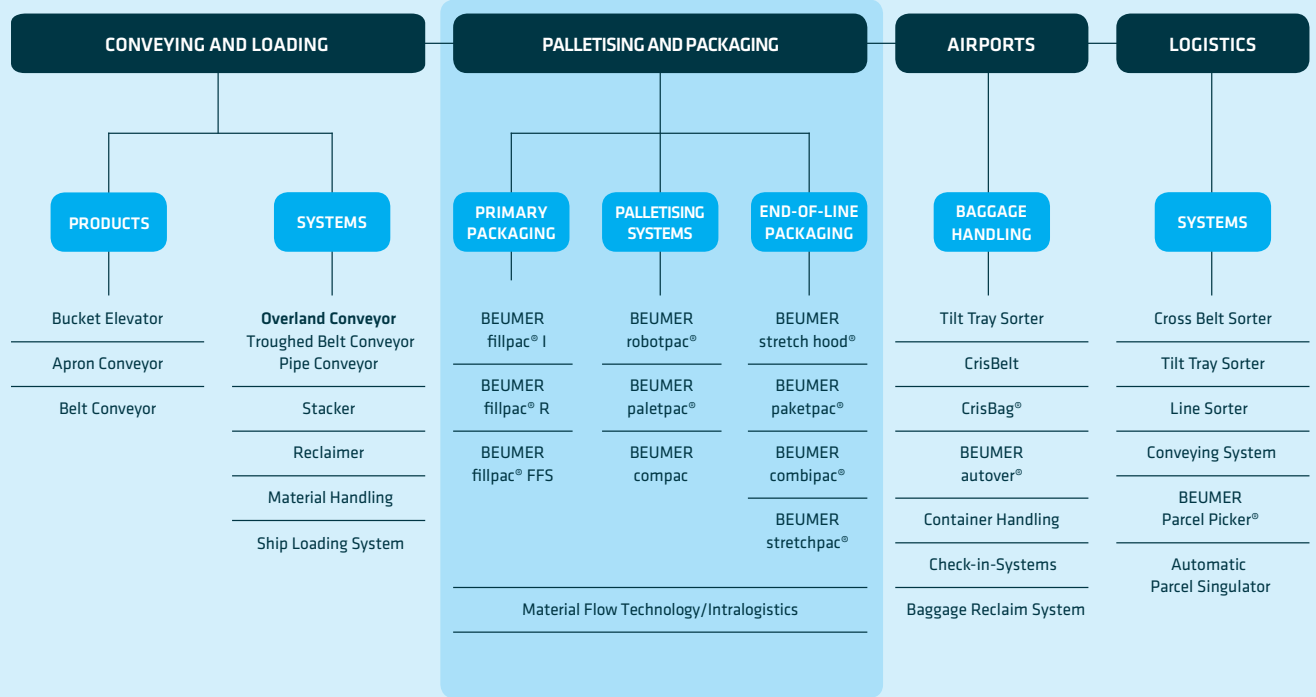


# EFFICIENT AND PRECISE IMPRESSIVE STACK QUALITY

For more than 40 years, BEUMER Group has designed and developed innovative palletising technology for various products. Whether for the building materials, cement, chemical or food and animal feed industries – BEUMER palletisers feature first-class stack quality and high reliability.

## CUSTOMER SUPPORT

Customer Care, Parts Logistics, Hotline Support, Training and Qualification, Modernisation, Residential Service



### PERFECT SOLUTIONS FOR ANY PALLETISING REQUIREMENT

In order to remain internationally competitive, companies need high-capacity palletisers, with a long service life, even under extreme conditions.

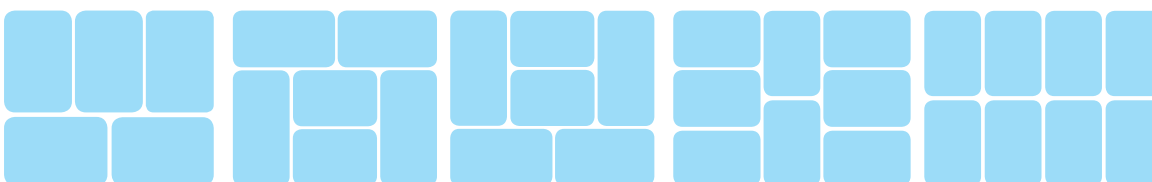
BEUMER palletising technology is customised to meet different requirements and requests and takes the characteristics of the individual packaged goods into account, as well as the desired packing patterns and pallet sizes. BEUMER Group palletising systems ensure gentle handling and optimal palletising of all packages.

The optimally palletised load units ensure safe transport and positive feedback from the receiver.

BEUMER Group offers the BEUMER robotpac®, BEUMER paletpac® and BEUMER compac series, a graduated and comprehensive product range for a variety of tasks. The modular design of each machine allows for quick and easy adjustments, in case higher capacities are required.

### HIGHLIGHTS

- Graduated and comprehensive product range consisting of high-level and robotic palletisers
- Maximum capacities of up to 6,000 units per hour
- Simple upgrade due to modular design
- More than 40 years of experience in designing, developing and installing high-capacity palletisers



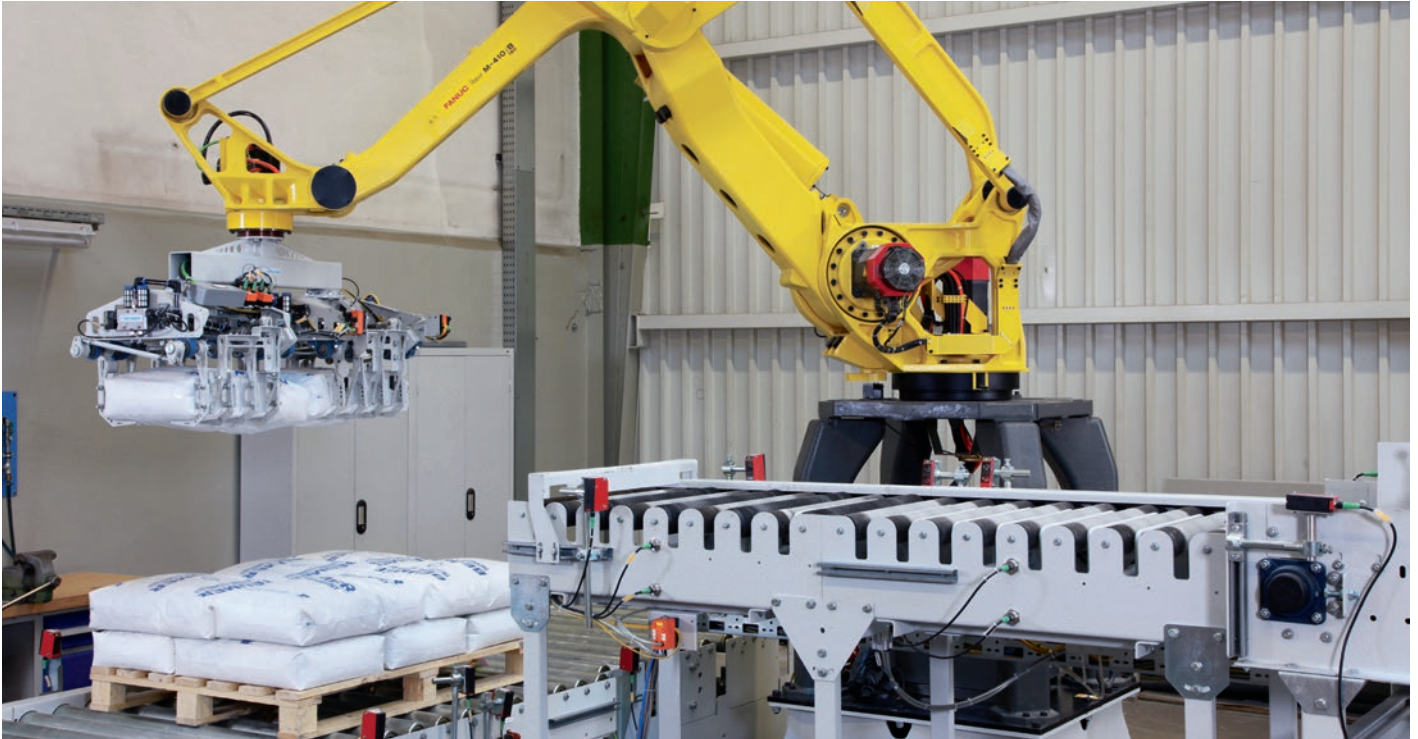
5-bag pattern

6-bag pattern

8-bag pattern

BEUMER palletising technology offers substantial programs for all common packing patterns and pallet sizes. At the touch of a button, the systems can be flexibly adapted to any size or material change.

# BEUMER ROBOTPAC® INNOVATIVE PALLETISING TECHNOLOGY



The BEUMER robotpac® allows reliable, safe and automated palletising of different materials.

In many industries, not only bagged goods need to be palletised, but also cartons, cardboard boxes, crates or canisters. BEUMER Group has developed flexible robotic palletisers with gripper elements to meet the different requirements of these items. The BEUMER robotpac® series ensures first-class stack quality, gentle product handling and high reliability.

## INNOVATIVE PALLETISING TECHNOLOGY WITH STATE-OF-THE-ART TECHNOLOGY

The BEUMER robotpac® palletises and depalletises various types of packages using specifically developed gripper elements. The BEUMER interface control ensures a user-friendly handling, as well as a flexible adjustment to changing conditions of use. Even complex processes with varying basic parameters can be solved in a reliable and efficient way.

BEUMER robotpac® systems feature energy efficiency and maximum accuracy when the layers are formed on pallets. They are also suitable for bagged products and can be reconfigured very easily for frequent product changes.

## HIGHLIGHTS OF BEUMER ROBOTPAC® SERIES

- › High flexibility for various tasks
- › Little floor space required due to compact design
- › Exchangeable grippers for picking up various packaged goods
- › Simple change of the packing pattern – at the touch of a button or fully automatic through barcode recognition
- › Up to 1,900 units per hour, depending on the model
- › Reliable, even under extreme conditions

BEUMER robotpac® systems can be equipped with different grippers. This ensures high flexibility. You can palletise different sized load units on the same pallet using gripping systems that can stack packages from above into available gaps.



#### FORK GRIPPER

Whether handling bagged goods or cardboard boxes: the fork gripper ensures reliable, gentle and precise stacking of both product types. It can handle up to 600 units per hour.



#### DOUBLE FORK GRIPPER

The powerful double fork gripper stacks bagged goods and cardboard boxes with a capacity of up to 900 units per hour; this is also possible by moving two units per travel path.



#### FINGER GRIPPER

The finger gripper is a high capacity tool for stable bags. It can palletise up to 1,200 bags per hour.



#### DOUBLE FINGER GRIPPER

The double finger gripper is used if large quantities of stable bags need to be palletised. It can position up to 1,900 bags per hour for the palletising process.



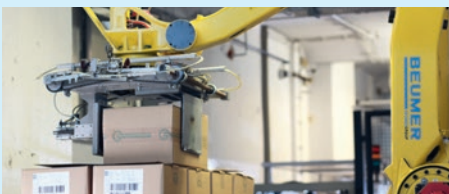
#### PALLET GRIPPING DEVICE

The installation of a pallet gripping device allows for feeding the empty pallets without an additional empty pallet conveyor.



#### SUCTION GRIPPER

The suction gripper is recommended for bundles with suctionable surfaces: it can stack up to 400 bundles per hour while gently handling the product. Even unstable packaged goods can be palletised reliably.



#### PARALLEL GRIPPER

The parallel gripper performs especially well when palletising stable bundles with parallel side walls, i.e. cardboard boxes: it can stack up to 600 cardboard boxes per hour.



#### SPECIAL GRIPPER

For individual requirements, special gripping systems are developed and dimensioned for the specific products and performance characteristics.

# BEUMER PALETPAC®

## RELIABLE PALLETISING OF SENSITIVE AND ROBUST GOODS



The BEUMER paletpac® systems offer particularly high stack quality and reliability when stacking products on pallets.

BEUMER paletpac® high-level palletisers fulfil the requirements of various industries. The BEUMER paletpac® is particularly suited for the gentle palletising of highly sensitive bagged products in the lower capacity range. BEUMER paletpac® high-capacity palletisers are used for gentle, safe and efficient palletising of robust bagged products in particularly high quantities.

### HIGH-LEVEL PALLETISERS FOR SENSITIVE BAGGED GOODS

BEUMER paletpac® systems are characterised by exceptional stack quality and reliability. A multi-program interface includes all common packing patterns, and can be individually adjusted to the different requirements of the chemical, food, and building materials industries. The BEUMER palletising systems are particularly suited for sensitive bagged goods such as plasters, screeds, animal feed, granulated material and pulverized or micronized chemical products.

The models in the lower performance range can achieve throughputs of 600 to 2,500 bags per hour. Their special design with a ventilated stacking table and special coatings reduces friction. The state-of-the-art drive system minimises noise and wear. Motors that save energy due to frequency controls and servo technology, product-specific turning devices, and optimal electric control systems ensure efficient, safe and precise palletising.

Overview: palletising capacity										
Bag pattern	Packing pattern	BEUMER paletpac® 600	BEUMER paletpac® 1250	BEUMER paletpac® 1800	BEUMER paletpac® 2500	BEUMER paletpac® 2500 A	BEUMER paletpac® 3000	BEUMER paletpac® 4000	BEUMER paletpac® 5000	BEUMER paletpac® 6000
3er		360	800	1,200	1,300	1,400	1,200**	–	–	–
4er		480	1,100	1,250	1,800	2,100	1,600**	2,000**	2,800	3,200
5er		600	1,250	1,800	2,200	2,500 3,000*	2,400**	2,600**	4,000	5,200
6er		450	1,200	1,350	1,800	2,600 2,600*	2,700**	2,600**	3,600	3,600
		600	1,400	1,800	2,500	2,500 3,000*	2,700**	3,000	4,000	4,500
7er		500	1,400	1,800	2,100	2,500 3,000*	3,000	3,500	3,800	4,400
		720	1,500 1,600*	1,800 2,300*	2,500	2,500	3,000	3,500	4,000	4,500
8er		550	1,350	1,800 1,900*	2,500 2,600*	2,500 3,700*	3,000	4,000	5,000	6,000
		550	1,200 1,650*	1,800 1,900*	2,500 2,600*	2,500 3,700*	3,000	4,000	5,000	6,000
10er		650	1,600	1,800	2,600 3,000*	2,600 3,800*	3,000	4,200	5,000	6,000

\* Bar-type turning device \*\* higher performance possible

## HIGH-LEVEL PALLETISER FOR ROBUST BAGGED GOODS

Whether handling fertilisers or cement: if the bags are arranged in certain patterns, high-capacity palletisers from the BEUMER paletpac® series can palletise up to 6,000 bags per hour while ensuring high stack quality and gentle handling of the bags. This achieves impressively high daily outputs and helps process your orders faster.

Optimised turning devices are used in order to bring the bags into the required bag pattern, e.g. twin-belt turning devices for sensitive goods and bar-type turning devices for more robust items. The high-performance models feature state-of-the-art drive systems, where parameters can be adjusted variably and are extremely easy to use.

## HIGHLIGHTS OF BEUMER PALETPAC® SERIES

- › Gentle handling of bags
- › Precise stack formation
- › Programs for all common packing patterns
- › Intuitive adjustment of the parameters for variable bag and pallet sizes
- › Simple handling
- › Low-noise and low-wear drive systems
- › Compact, container-optimised
- › Easy maintenance due to improved accessibility
- › Performance range for sensitive goods: 600 to 2,500 bags per hour
- › Performance range for robust goods: 1,800 to 6,000 bags per hour

# BEUMER PALETPAC®

## THE PERFECT DEVICE

### FOR OPTIMAL ALIGNMENT



#### CLAMP-TYPE TURNING DEVICE

The clamp-type turning device aligns bagged goods using a specific clamp. This gentle procedure is available for all BEUMER paletpac® systems up to a performance class of 2,500 bags per hour.

- › Performance increase by turning the item quickly and in line with the packing pattern
- › Proven procedure for layer preparation



#### TWIN-BELT TURNING DEVICE

The twin-belt turning device of the BEUMER paletpac® system is particularly gentle when turning the packages. The gentle handling is possible due to different speeds of two separately driven belt conveyors, which makes it particularly suitable for the building materials, cement, chemical and food industries.

- › Extremely gentle bag handling at up to 2,500 bags per hour
- › Exact results due to precise layer preparation
- › Extremely low energy requirements and little wear and tear
- › Reduction of operational costs due to omitted changeover times
- › Optimal accessibility for maintenance work



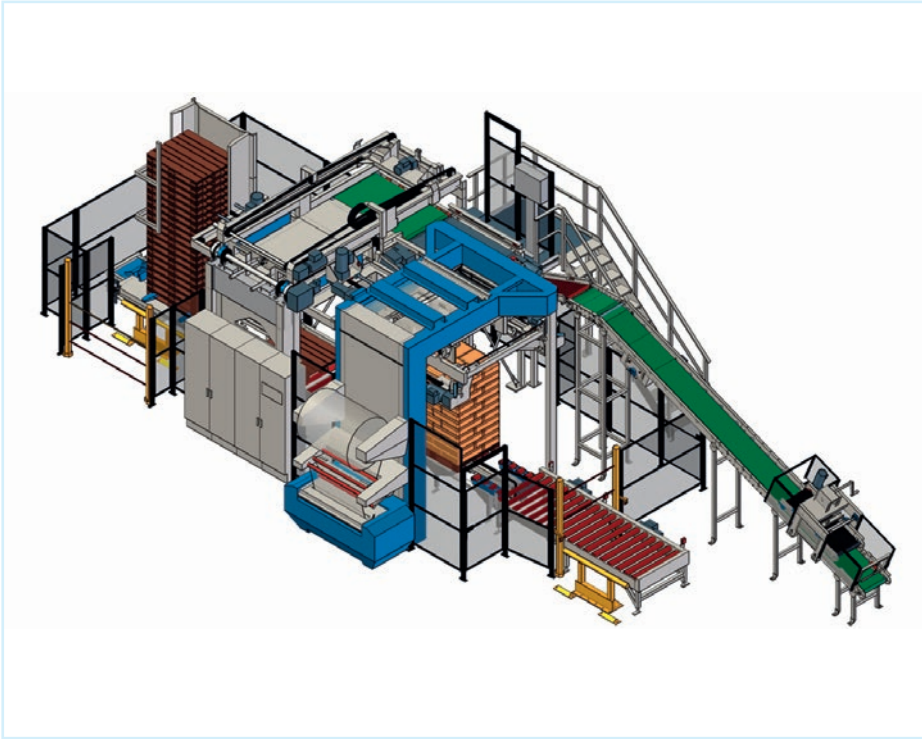
#### BAR-TYPE TURNING DEVICE

On the bar-type turning device, a swivelling bar pushes the laterally guided bags into the desired position. The BEUMER paletpac® can be used regardless of the performance capacity, but it is particularly efficient for sturdy products and large mass flows.

- › Ideal for less sensitive bagged goods and high throughput
- › Simple solution for turning bags by 90 degrees to form layers
- › Low energy requirements by not using pneumatic or hydraulic systems
- › Practically maintenance-free, easy accessibility
- › High reliability due to modern, efficient geared motors



# BEUMER COMPAC PALLETISING AND PACKAGING IN CONFINED SPACES



Compact, space-saving system for palletising and stretch hooding



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® 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, costs and efforts, during installation and operation.

## HIGHLIGHTS OF 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
- › Joint safety circuit
- › Minimal platform size of only 2.3 m<sup>2</sup>

# SIMPLY WORLD-CLASS CUSTOMER SUPPORT

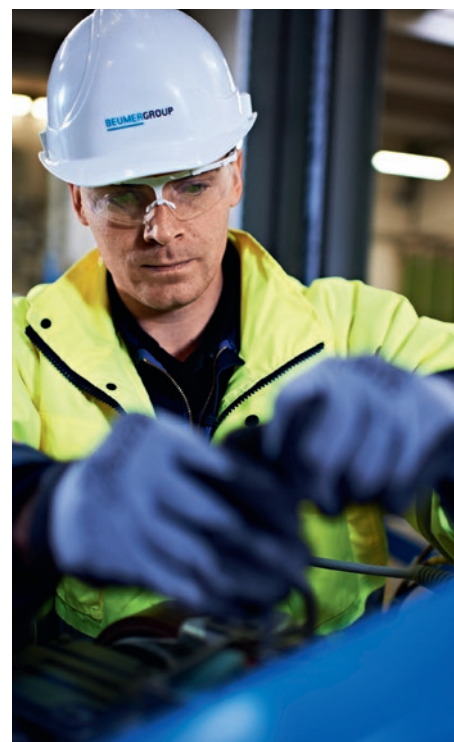


BEUMER Group is known worldwide for its individually tailored customer support. This is based on a global network of regional service centres. Our support solutions will keep your systems operating – 24 hours a day, 365 days a year.

## BEUMER GROUP – EVERYTHING FROM ONE SINGLE SOURCE

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.



*At BEUMER Group, the focus is always on people.  
We build strong partnerships through personal  
relationships and individual attention.*



#### CUSTOMER CARE

Our customer care programme 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.



#### 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, multi-skilled 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.

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DIFFERENT**

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"made different" seal are characterised by their  
sustainability based on their economic, environ-  
mental and social performance as measured by  
the BEUMER Sustainability Index (BSI).*