



BEUMER
technology in motion



Conveying technology Palletizing technology Packaging technology

BEUMER solutions for the chemical industry. Efficient. Safe.





Conveying technology Palletizing technology Packaging technology

Customised intralogistics solutions for the chemical industry.





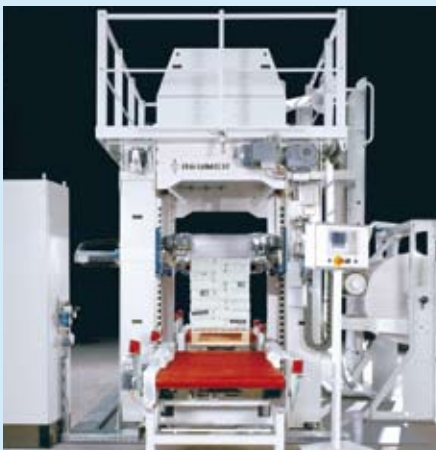
BEUMER
technology in motion

Everything from a single source – we know the movements of the chemical industry.

As a world-leading manufacturer of conveying, loading, palletizing and packaging equipment for intralogistics, we know the movements of the chemical and petrochemical industries. Sensitive, valuable products are involved with very particular characteristics: Some of them are



handled at high temperatures and have high volumes and weights, some are less stable substances with unusual flow behaviour – such as granulates, often with high lubricant content – some react to friction and particular types of packaging materials and shapes. Highly sensitive chemical products require innovative technologies in order to ensure longevity, safe transport and the preservation of their value. That means technical systems that serve to optimise value-adding processes in the chemical industry.



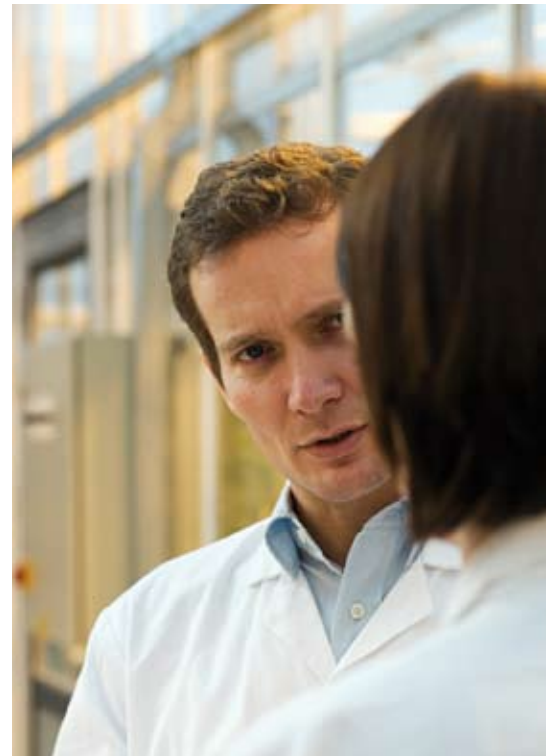
With BEUMER you have a reliable partner and problem-solver at your side from start to finish. We can offer you a complete range of products. And, if you require, we can act as general contractor and even supply the bag-packing equipment you need.

Specialised knowledge and market experience: the basis for successful systems.

We put this knowledge into practice when we develop plants and systems for the chemical and petrochemical industry. We speak the language of our customers, and our global sales and service network means that we are close to our customers wherever they are in the world. Our local presence, coupled with lots of local service stations – and our ability to adapt to the diverse needs of our customers –



allow us to perform at the highest level at all times. Working closely with our customers' experts from the chemical industry we develop and implement innovative, customised solutions.



High technology for tailor-made solutions in the chemical industry.

BEUMER machine and system software is developed by specialists who have precise knowledge of customers' particular requirements – such as when palletizing and packaging goods. Packaged goods are handled gently, and palletized load units are stacked perfectly, ensuring safe transport and making a positive impression on the recipient.



Conveying technology Palletizing technology Packaging technology

BEUMER conveying technology.
Get your products on the move.





Always safely on track with BEUMER.

For many years BEUMER has been supplying plants and systems all over the world for single-item transport and the transport of bulk materials. We always have the right solution for specialised transport tasks.

Conveying equipment for chemical products. Efficient and safe.

Chemical products, such as granulates and fertilisers, have to be filled and sealed in special bags or other forms of packaging such as big bags and octabins, then conveyed safely and correctly – to places such as palletizing and packaging stations, warehouses or dispatch departments.



Using our comprehensive expertise in the fields of conveying, palletizing and packaging, we develop tailor-made solutions for every task in the chemical industry.

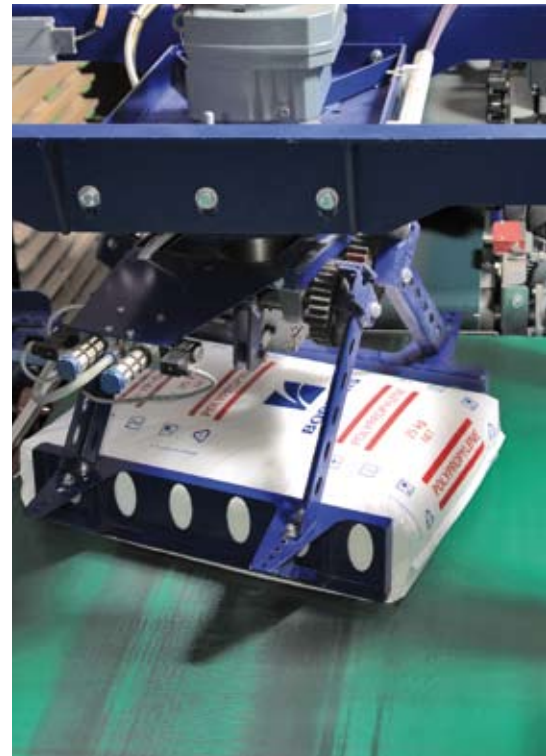


BEUMER roller and pallet conveyor systems for the transport of sensitive products.

BEUMER roller and pallet conveyor systems are ideally suited to the transport of sensitive, high-value products. High volumes and weights are no obstacle, nor are the various forms of packaging and materials. Drive elements with frequency converters mean that our systems can always be started up and shut down gently, as the products require – adapted exactly to whatever processing stage is involved.

Only the good get through.

The goods pass through two monitoring stations to ensure that only faultless examples reach their objective. A metal detector checks whether there are any metal objects in the bags. For this, the bags are conveyed on an electrically and magnetically non-conductive belt through a detector coil – but without touching it. A “check weigher” then compares the actual weight with the target weight. Contaminated products and units with the wrong weight are rejected. All the rest is labelled with the relevant product designation (e.g. date and batch) using an inkjet printer.





Conveying technology Palletizing technology Packaging technology

**BEUMER palletizing technology.
Delicate products, perfectly stacked.**





With us you can stack your goods safely and neatly.

When it comes to the palletizing of various loading units in the chemical industry, varying customer requirements demand a comprehensive and multilevel array of products and services. BEUMER offers palletizing solutions that are absolutely tailored to these specialised needs. Highly sensitive products, high temperatures, unusual flow behaviour – granulates for instance, often with high lubricant content – reactions to friction and particular types of packaging materials – all this necessitates specially developed equipment for the construction of palletizing and packaging systems.

Stacking solutions that add up. BEUMER paletpac® systems.



BEUMER paletpac® systems offer a convincing range of solutions for every requirement. They produce exceptional quality stacks, are highly reliable, and are constantly being adapted to the many and various demands of the chemical industry. Altogether a system for demanding customers.

We oppose friction.

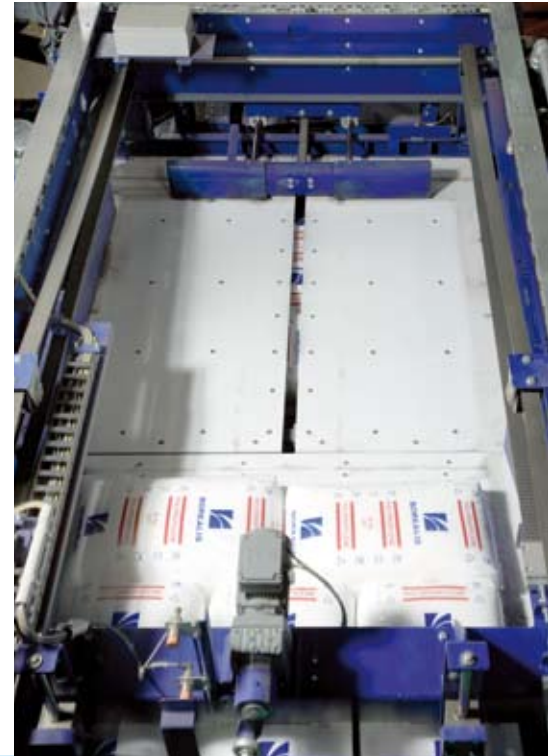
Innate product heat and sometimes high ambient temperatures can increase the friction between the bags and the surfaces they lie on, and with that the adhesion which makes precise palletizing difficult. BEUMER uses special coatings to reduce this friction.

BEUMER has developed an adjustable stacking table with frequency-regulated ventilation for the subsequent handling of products in the palletizing process. It guarantees simple, safe palletizing when the layers are being built up. The bags float on a cushion of air, which prevents from friction between the bags' surface and the stacking table and avoids the uncontrolled flow behaviour of granulates.

Of course, when we developed our systems we also bore in mind the fact that the PE bags used in the chemical industry have very slippery surfaces, and that specialised packaging types such as octabins and big bags are also used.

BEUMER robotpac®. The high-tech system that gives you flexibility.

The **BEUMER robotpac®** series of products palletizes and depalletizes a huge range of packaging units using specially developed gripper elements. The BEUMER adjustment control system ensures user-friendly operation and a flexible response to changing conditions of use. Even complex processes with varying parameters are dealt with reliably, safely and efficiently.



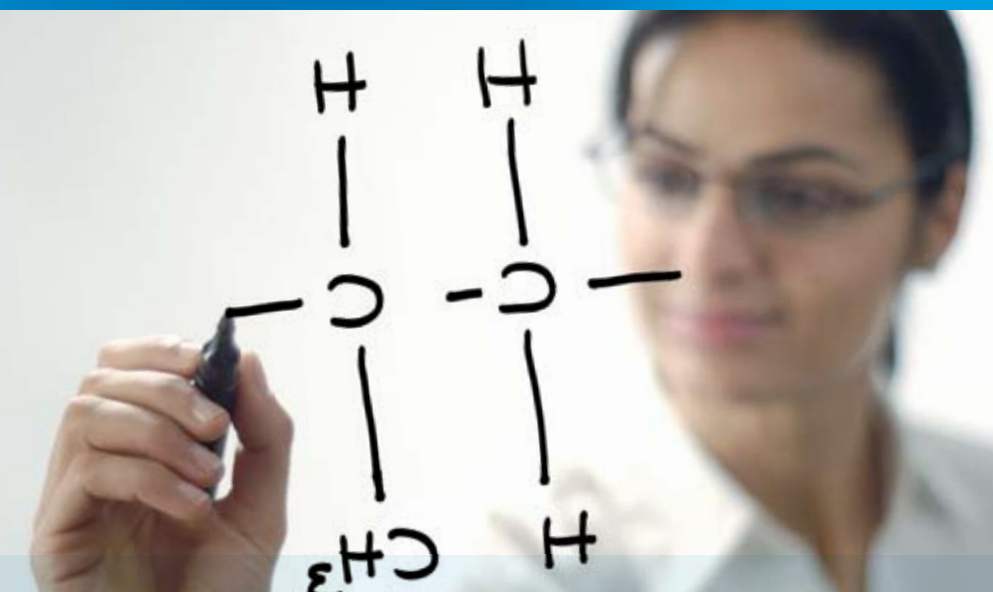
BEUMER slip sheet placer – we protect the products before they are stacked.

Before palletizing, a slip sheet is placed onto the pallet by the slip sheet placer, which protects the first layer of the palletized product stack from things such as splinters of wood and small nails on the pallet. The slip sheet can even be used in place of a pallet.



Conveying technology Palletizing technology Packaging technology

BEUMER packaging technology. The powerful, neat solution for valuable products.





Surely the ideal protection.

The various BEUMER packaging systems offer the chemical industry solutions for the protection of palletized load units. Whether it's just weather protection that is required or full transport protection, we will work with you to select the process best suited to securing your load units, while taking into account the overall logistics concept involved.



BEUMER folio-/thermopac® – a process which utilises a thermo-shrink film. Various kinds of packaged goods can be protected for storage and transport by covering them with a film hood. The thermo-shrink film is a safe and environmentally friendly packaging material.

BEUMER paketpac® – the palletless packaging system **BEUMER paketpac®** utilises the flat film or counter-hood method. The counter-hood method employs a flat film to reinforce the package base, and a shrinking hood and subsequent counter-hood for the optimised protection of the load units.

BEUMER stretchpac® – our fully automatic wrap-stretch machine utilises either the principle of the rotating film roll – **BEUMER stretchpac® S** – or the

Stretch, shrink, wrap – the choice is yours.

The **BEUMER stretch hood®** is the innovative packaging system for the optimum protection of palletized load units. This powerful packaging machine combines the latest control technology, highly advanced functional modules and a unique film handling system, thus, practically and efficiently meeting the diverse demands that arise when packaging products ready for shipment. A side-folded tube is used to make a hood corresponding to the height of the package stack. Before covering, the elastic film is stretched far enough to allow it to be drawn right over the stack, and such that it lies close to the package afterwards.



rotating pallet – **BEUMER stretchpac® R**. The stack of packaged goods is also protected by laying a film slip sheet on top of it.



BEUMER barcode system – for safe allocation.

To ensure that the products are identified correctly, all of the important information such as the barcode, product designation, storage site and date are applied once again to the outside of the packaged pallet. This can be done using either of the two systems – a conventional barcode system or an RFID system. Of course, both systems can also be used together if required.

The BEUMER warehouse management system rounds off our range of products for the chemical industry. It guarantees coordinated storage as well as smooth, efficient procedures.

A close-up photograph of a hand holding a small, transparent globe of the Earth. The hand is positioned as if presenting the globe. The background is a soft, out-of-focus light blue.

Innovative and customised solutions from the intralogistics experts. BEUMER worldwide.

We are always there when you need us!

Worldwide service.

Our service managers' regular inspections ensure:

- Sustained operational capability of your equipment
- Reduction of downtimes
- Exchange of experience
- Qualification of the maintenance team
- Continuous product optimisation
- Optimum spares stocking

Fault correction / BEUMER Hotline.

- Qualified worldwide support at short notice
- Online fault correction
- Worldwide availability of service engineers
- Short-notice deployment option
- Rapid action on the ground service

Technical consulting.

We can advise and train your staff, either in our own training centre or in your company. This ensures:

- Optimum equipment and system operation
- Qualified evaluation of equipment condition
- Long-term optimisation strategies

Maintenance and repairs.

- Personnel specifically qualified for your equipment
- Basis for extreme operational reliability
- Qualification of your personnel in the context of maintenance





We know the way. Worldwide.

As one of the international leaders in the development and manufacture of intralogistics solutions for conveying, loading, palletizing, packaging, sorting and distribution technologies, we know the routes your products take and their respective specific properties. This is true for both the chemical industry and many other industries.

This knowledge is integrated into the development and construction processes of all our equipment and systems using a customer-oriented approach and high degree of innovation.

The proximity to our customers in every part of the world is maintained and ensured by a global sales and service network. Our workforce of almost 900, an annual turnover of EUR 150 million, our own subsidiaries and holdings, as well as manufacturing facilities in each continent and representatives in over 70 countries are the solid foundation of our export-orientated activities.

Our presence on the ground ensures individual adaptation to regionally varying requirements.



Our corporate philosophy.

Family spirit is a fundamental factor in the success of BEUMER as a globally operating concern. Shareholders, executive management and staff are essential members of a community in which constructive cooperation is a significant element representing our corporate philosophy. The owners' commitment to considerable reinvestment in the company is a prerequisite for securing the future, and is the basis of the success-orientated partnerships between our company and our customers.



BEUMER
technology in motion

BEUMER

Maschinenfabrik GmbH & Co. KG

PO Box 1254 · 59267 Beckum · Germany

Tel. +49 (0) 25 21 - 24 0

Fax +49 (0) 25 21 - 24 280

E-mail: BEUMER@BEUMER.com

Further information is available at

www.beumer.com

BEUMER reserves the right to make modifications that serve technical progress.