BEUMER SORTATION AND DISTRIBUTION TECHNOLOGY
SMOOTH AND FAST
PROFITABILITY, SPEED AND PRECISION – SYSTEM SOLUTIONS THAT WORK

The BEUMER Group – Always in motion to ensure everything runs smoothly. Most BEUMER sorters are fitted with contactless power and data transmission, which means less wear and a lower maintenance requirement. They are designed on a modular basis, so they are especially flexible. And they are also extremely quiet, creating a pleasant working atmosphere for your staff. Items are fed in dynamically and ejected gently, which helps all your work processes to run smoothly and reliably.
As an international leader in the manufacture of intralogistics products in the fields of conveying, loading, palletising, packaging, sortation and distribution technology, we know the routes your goods and products take and know what matters most.

Whether in the service sector or in industry – the demands on modern sortation and distribution systems are constantly increasing. Complex material distribution technology, flexibility in sorter tasks, the ability to adapt to local conditions and efficient order picking all play important roles. With sophisticated designs, the BEUMER Group offers individualised system solutions with powerful software that impress with their profitability, speed and precision. Years of experience designing user-specific systems and continuous research and development work reflect the BEUMER Group’s expertise. In our testing hall, various applications are tested regularly and new solutions are developed, for example in the areas of ergonomics, noise generation or product handling.

The BEUMER Group product range comprises fully automatic conveying and distribution systems for all kinds of piece goods. In courier, expedited and parcel services, mail-order businesses, retail distribution or airports: the computer-controlled BEUMER sortation systems – which meet all modern standards of quality – stand for high levels of availability, low maintenance costs and a top performance of up to 40,000 units per hour. Specific customer demands, such as optical character recognition (OCR) “on-the-fly”, certified weighing on the induction unit or certified volume measurement on the sorter, are no problem.
WE KNOW THE DEMANDS OF THE MARKET
A high level of economic efficiency combined with highest sorting capacities for various item sizes – these are the requirements of modern courier, expedited and parcel services. Powerful, strategically positioned sortation and distribution centres (HUBs) equipped with sophisticated plant technology are required to be able to provide a seamless supply network.

The BEUMER Group sortation and distribution systems provide you with a robust, powerful overall system you can rely on at any time. The BEUMER sorters convince by providing creative solutions for individual applications while ensuring smooth handling of items.

SMOOTH DISCHARGE – ONE OF OUR SPECIALITIES
The BEUMER Tilt Tray Sorter is the basic model of our modular system. The mechanical tilt elements enable a guided, two-dimensional discharge of the items to both sides. This makes the item slide off the tray without any catapult effect so that it leaves the tray at a clearly lower speed than with comparable systems. Large envelopes, parcels, packages and other sorting items are transported safely and discharged with maximum accuracy.

The tilt element of the BEUMER E-Tray Sorter is driven by an electric motor. The tilt elements are powered by contactless energy supply. Thus the tilting and running noise is reduced. The tilting movement is decoupled from the sorter speed so that the sorter speed is considerably increased.

The BEUMER Group ensures a smooth flow of large letters, packages, parcels and other mail. A high sorting speed and perfect system coordination shortens delivery times, whilst the extremely precise sorting system reduces the number of misplaced items. And that makes for happy mail recipients.
BEUMER – ALWAYS CLOSE TO OUR CUSTOMERS

The BEUMER Group develops customised solutions – from stand-alone machines to centralised, software-controlled material handling systems. Continuous and competent customer support, as well as reliable worldwide service, including repair and maintenance, complete the performance. In urgent cases, customers can contact us via the BEUMER Group Hotline at any time.

HIGHLIGHTS OF THE BEUMER TILT TRAY SORTER

- Exceptional sorting quality
- Gentle item handling
- Robust design
- Low-maintenance tilt element, electrical or mechanical
- Guided, two-dimensional discharge
- Low-maintenance, low-wear linear motor drive, alternatively the energy efficient BEUMER OptiDrive® design
- Low-noise running characteristics
- Modular design
WE HAVE BUT ONE GOAL: CUSTOMER SATISFACTION
MAIL ORDER

For mail-order companies, the BEUMER Group's sortation and distribution systems are simply unbeatable when it comes to handling a huge variety of different products for a wide range of customers. The computer-controlled sorting units can deal with up to 40,000 packages per hour – with a high level of availability and a low maintenance requirement.

WE ALWAYS HAVE JUST THE THING
Your customers expect around-the-clock delivery of goods in perfect condition. They expect a sorter that can transport and sort everything from camping equipment to shoes or clothing quickly, precisely and gently. One that is flexible enough to react to changing product lines and seasonal workloads.

The BEUMER Group sortation and distribution technology always has the right solution. Depending on the requirements and characteristics of the items to be conveyed, you can select either the BEUMER Belt Tray Sorter or the BEUMER Tilt Tray Sorter. Make your choice; reliable logistics means satisfied customers.

AN ACCURATE GRIP ON RETURNS
Goods that do not fit or are not liked are returned by the end consumer. Returns handling poses a problem for mail-order business that needs to be solved. The BEUMER Group develops complete customised concepts, taking all technical and economical challenges into account, such as multiple uses for returns sorters. The ergonomic design of the destinations plays an important role. Your employees will have everything under control.
BEUMER SORTER CONTROL AND SORTATION SYSTEMS

All machine-relevant functions are controlled by a programmable logic controller suited for industrial use. This real-time system, with worldwide maintenance service, executes control commands for all mechanical components of the BEUMER sorter and its peripherals (induction unit, scanner and destinations) and processes the signals from all sensors and watchdog units. The BEUMER sorter control comprises remote input/output devices that are networked via a standardised PROFIBUS/AS-i bus system. The BEUMER Sortation System is a PC-based Windows server, which represents the upper control levels and communicates with the customer host.

HIGHLIGHTS OF THE BEUMER BELT TRAY SORTER

› Power supply on demand, due to the contactless energy supply system
› Modular design
› Standard PLC with worldwide service
› Minimal maintenance requirements, easy access
› Considerably lower maintenance costs compared to conventional energy supply systems
BEUMER sorters ensure fast, gentle sortation and distribution of all types of products of various shapes and sizes.

Technical layout of a BEUMER sortation system for the DIRK ROSSMAN GmbH logistics centre

**EVERY PRODUCT HAS ITS OWN FORMAT**

Books, CDs and DVDs, magazines, newspaper bundles, clothing, shoes, drugstore goods or car parts – as diverse as the demands of retail distribution on a modern sortation and distribution system are, so diverse are the solutions the BEUMER Group offers with its high-performance sortation systems. The focus is on – in addition to the profitability of the overall machine – quick, smooth, flawless order picking, depending on the size, weight, shape and surface characteristics of the individual piece goods.

Various demands can be met, depending on the individual customer needs:

- High sorter capacity
- Gentle handling of sorted goods
- Induction and discharge tailored to the different items
- Shipment tracking
- Group sortation
- Product labelling (value added service)
- Printing shipping documents

Just how successful the BEUMER Group is with its designs can be seen in the numerous references from the clothing industry, drugstore chains, from the fields of spare parts logistics, print media and multi-media.
THE BEUMER GROUP MAKES EVERYTHING GO SMOOTHLY

The BEUMER Belt Tray Sorter with contactless energy supply and linear motor drive is a sortation system often used for retail distribution. From goods packaged in film with a high coefficient of friction (anti-slip surface) or shoe boxes to goods packaged in polybags – the BEUMER Belt Tray Sorter reliably and smoothly transports all items to the correct destination.

The functional basis of the sorter is a series of moving conveyor belts, which move at a 90° angle to the direction of sorter travel. After activating the corresponding belt tray, the product is fed onto the belt tray at a speed adjusted to the speed of the sorter and the angle of induction. The discharge process is adapted to the product’s characteristics.

ALWAYS FRESH ON THE TABLE

In the food industry, quick but gentle product sortation is imperative. Perishable or damageable items such as frozen foods, baked goods or dairy products require a high performance sortation system that meets the respective product requirements and the statutory regulations with regard to hygienic handling.

The BEUMER sorters are – in addition to a number of other outstanding features, such as minimal maintenance requirements and easy access – also designed for applications in temperatures ranging to −30 °C. All products arrive at the customer safe and fresh.

CUSTOMISED ORDER PICKING

One of the leading companies for meat products processes up to 1,400 orders with 80,000 order units selected from a product range with 800 items daily. A BEUMER high-performance sortation system BS 25 MT-3D takes care of the smooth processing.

The orders are processed in 24-hour cycles. The store-related, two-stage order picking is performed directly at the manufacturer. That means a high level of economic efficiency and profitability for the company.

Via a total of 6 induction units, the order units are distributed across 150 destinations at a sorter speed of 1.5 m/s and a sorter tray capacity of 10,000 per hour, where they are precisely and gently discharged. That is customised order picking.
SORTATION AND DISTRIBUTION TECHNOLOGY FOR A SAFE ARRIVAL AIRPORTS

With automatic high-speed baggage-handling systems, the fully integrated solutions offered by the BEUMER Group are the systems of choice for small, medium and large airports. In addition to manufacturing the systems, the BEUMER Group also handles connecting them to security, storage and sortation systems and to the systems transporting bags from the check-in area to the plane, and for the transport of transfer and arrival baggage.

BAGGAGE HANDLING SYSTEMS FROM BEUMER – POWERFUL, GENTLE AND SAFE

International and regional airports are registering steady growth in the volume of passenger traffic. In order to continue to ensure safe and flexible baggage handling, a powerful BEUMER Group baggage transport and distribution system is necessary.

Be it a central sortation concept with Tilt Tray Sorters or a decentralised design with destination-programmed transport vehicles – the individually designed BEUMER Group solutions have proven themselves worldwide. System control, process computers and the corresponding peripherals supplement the scope of service and make distribution capacities of up to 10,000 suitcases per hour possible. With the the BEUMER Group baggage handling system, the increasing numbers of passengers can be handled with ease. For the passengers, this means short waiting times at check-in, gentle baggage handling and short transfer times.
BEUMER Group integrated baggage conveyor and distributor systems improve security and stop baggage from being delayed or misplaced.

STATE-OF-THE-ART TECHNOLOGY – START TO FINISH

BEUMER baggage handling systems prove themselves in daily operation. Precise and reliable. In Dubai, Sydney, Hamburg, Heathrow T5 and Beijing.

BEUMER Belt Tray Sorter or BEUMER Tilt Tray Sorter – the robust sortation systems distinguish themselves through their state-of-the-art technology, long service life and high level of availability. Interruptions caused by baggage can be reduced considerably using the BEUMER Sorter BS 55 ET-CD, with its closed surface. Systems of this type reduce possible downtime and increase the efficiency of the entire baggage system.

The BEUMER autover® BA 55 works with rail-mounted, self-propelled transport vehicles, the BEUMER autoca® BC 55. Equipped with their own onboard path finding computer, speed controls and active switch controls, the transport vehicles have a contactless energy and data supply.

The BEUMER autover® BA 55 conveys, stores and sorts with a high level of reliability at speeds up to 10 m/s. Thanks to computer-supported rail management and a simple rail system, expansions are possible any time at a low cost.
TAILOR-MADE SOLUTIONS FROM THE INTRALOGISTICS EXPERTS BEUMER WORLDWIDE

Wherever you need intelligent, reliable sortation and distribution systems and solutions, we’re there to help! Worldwide, around the clock, and on Sundays and public holidays too. Whether it’s for courier and parcel services, the mail-order business, retail distribution or baggage handling – our global service and distribution network will ensure that your systems run smoothly and you can perform at your best.
WE KNOW THE WAY – WORLDWIDE
As one of the international leaders in the manufacture of intralogistics for conveying, loading, palletising, packaging, sorting and distribution technologies, we know the routes your products take and their unique handling characteristics. This knowledge is integrated into the development and manufacturing processes for all our equipment and systems.

We maintain and ensure proximity to our customers in every part of the world through a global sales and service network. The BEUMER story is far reaching. A team of 3,700 professionals worldwide. Annual turnover of 627 million EUR. Wholly owned subsidiaries and holding companies on each continent and representatives in over 70 countries. Each of these elements contributes to a solid foundation for our export-orientated activities.

And our presence on the ground ensures individual adaptation to local requirements. Location-relevant solutions are the result of our constant close cooperation with our customers.

OUR CORPORATE PHILOSOPHY
Family spirit is a fundamental factor in the success of the BEUMER Group as a globally operating concern. Shareholders, executive management and staff are essential members of a community in which constructive cooperation is the hallmark of our corporate philosophy. The owners’ commitment to considerable reinvestment in the company is a prerequisite for securing the future, and is the basis for the success-oriented partnerships between our company and our customers.
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 providing comprehensive, highly customised concepts from product filling to palletising and packaging.

Competent engineering, fast and reliable on-site service as well as optimal spare parts supply complete the picture 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.

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.
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).