



BEUMER TWIN-BELT TURNING DEVICE EFFICIENT AND PRECISE

ESPECIALLY GENTLE BAG HANDLING

The BEUMER twin-belt turning device prepares your bagged products for palletising. As it forms the packing patterns, the system is not only especially reliable and precise, but above all extremely gentle with the packages. The BEUMER Group's research and development department has developed a unique process for forming the layer tailored to the customer's needs. The innovative twin-belt turning device can be used in all palletising systems of the BEUMER paletpac® line with a performance rate of up to 2,500 bags per hour.

INNOVATIVE LAYER FORMING

When bagged products are prepared for palletising, the bags must be moved into the packing pattern to be used for the respective layer. The twin-belt turning device achieves excellent stacking results – thanks to the turning device's design without mechanical elements, which minimises the influence of external forces on the bags during the turning process. Deformation of the bags is ruled out, which contributes to stable stack formation. Thanks to uniform packing patterns and the associated weight distribution, the BEUMER twin-belt turning device

prepares layers exactly, facilitating uniform layers and thus the optimum use of warehouse capacities. Two conveyor belts working in parallel and driven at different speeds are used in the turning process. In this way, the bags are moved into the required position very gently – without affecting the shape of the bags.



EXCEPTIONAL RESULTS THANKS TO EXCEPTIONAL TECHNOLOGY

Currently, only the BEUMER twin-belt turning device offers this special way of preparing the layers at such a high level of technical maturity. Only the BEUMER system has a sustainable solution of active feedback control that continually monitors the orientation of the products to be stacked. This ensures consistent stacking results throughout the entire service life of the system.

RETROFITTABLE FOR USE IN ANY INDUSTRY

Because our systems are designed modularly, BEUMER twin-belt turning devices can easily be added to any palletising system in the low- to medium-performance ranges. The system then performs at a rate of 2,500 bags per hour and is ideally suited for all premium-quality bagged materials, which benefit from gentle handling – for example, products from the chemicals and food industries, but also plasters and screeds in the construction materials industry.

THE TECHNOLOGY MAKES THE DIFFERENCE

Through the use of two parallel, separately driven conveyor belts and the bags' own weight, the packages are turned into the appropriate position according to a previously specified packing pattern. To reliably determine the belt speed even with different-sized bags, the system utilises an active feedback control system. The drives are controlled by frequency converters. The machine does not need to be changed over if the bag size changes, since all relevant parameters are recorded and controlled very simply via software.

LOW WEAR AND ENERGY CONSUMPTION

While other processes for layer preparation use pneumatic elements, synchronous servo motors perform the work in the BEUMER twin-belt turning device. Because cost-intensive components have been eliminated, the maintenance and repair costs are optimised in the long term, which reduces the lifecycle costs.

HIGHLIGHTS OF THE BEUMER TWIN-BELT TURNING DEVICE

- › Extremely gentle bag handling for up to 2,500 bags per hour
- › Exact results thanks to precise layer preparation
- › Extremely low energy requirements and wear
- › Reduction of operating costs due to the elimination of changeover times
- › Possibility to retrofit modularly for all BEUMER paletpac® systems up to performance category 2500
- › Optimum access for maintenance work

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