



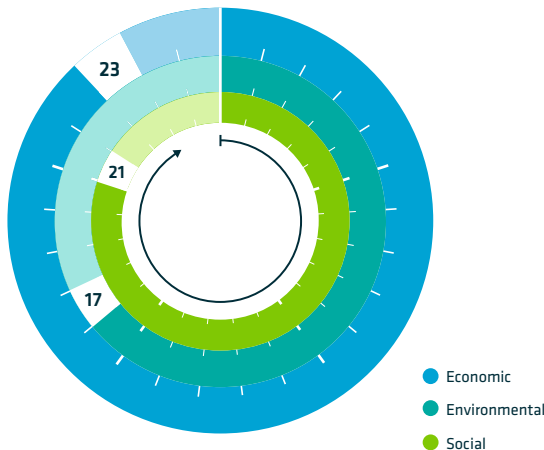
# BEUMER Sorter BS 7 Belt Tray – THE SUSTAINABLE HIGH-PERFORMANCE SORTING SYSTEM FOR YOUR PRODUCTS

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).

## PRODUCT GROUP

- > Sorting & distribution > Loop sorters
- > BEUMER Sorter BS 7 Belt Tray

**61**  
Level:  
Excellent



## OUTSTANDING SUSTAINABILITY FOR THE HIGH-PERFORMANCE SORTER

The BEUMER Sorter BS 7 Belt Tray features outstanding sustainability of the highest level as verified by a sustainability index of 61 (excellent). The economy index of 23 is based, for example, on a high throughput rate with very high sorting quality, low operating costs, and extremely low spare parts requirements.

The BEUMER Sorter BS 7 Belt Tray is your sustainable, reliable high-performance sorting system for a wide range of different articles – from postal items, textiles and mail order articles to food. It features moving conveyor belts with a contactless power supply and fast, precise, and gentle product sorting.

## ECONOMIC TOP PERFORMANCE

You make significant operating cost savings with this sorter thanks, for example, to 50 % fewer individual parts. In addition, a contactless power supply and durable aluminium minimise the requirement for spare parts. Maintenance effort is 80 % less than with conventional cross belt sorters. The gap between the carriers has been bridged with a strong flat cover which reduces damage to articles, conveyor jams, and system downtimes. At the same time, the high sorting quality prevents complaints from your customers. And thanks to the high throughput, you are perfectly equipped for increasing sorting volumes in the future.

## INTEGRATED ENVIRONMENTAL PROTECTION

Our BEUMER Sorter BS 7 Belt Tray requires no additional generators or batteries. Contactless power supply and data transmission avoid mechanical friction losses, while the use of lightweight aluminium components saves energy. The fact that fewer individual parts are used also reduces energy consumption in production and operation as well as maintenance expenditure. And naturally, the sorter can also be maintained remotely, thereby reducing the number of service trips that need to be made. That means less fuel consumption and CO<sub>2</sub> emissions.

## SOCIAL RESPONSIBILITY

Our sorter helps create a more pleasant working environment thanks to significantly lower noise generation and vibrations. It also facilitates the automatic sorting of a wide range of goods which would otherwise need to be carried out manually. Naturally, it also complies with the EC Machinery Directive, thereby providing a high level of protection for personnel and equipment.



## GENTLE ARTICLE SORTING WITH THE BEUMER Sorter BS 7 Belt Tray

### AT A GLANCE: BEUMER Sorter BS 7 Belt Tray

- › Less wear and lower energy consumption and maintenance effort thanks to 50 % fewer individual parts and aluminium components
- › Significantly reduced spare parts requirement
- › Energy supply on demand through contactless power supply
- › 80 % lower maintenance costs compared with standard power supply systems based on contact line
- › Low servicing costs thanks to low-maintenance carrier
- › Very low noise in operation
- › DIN ISO 9001 quality management system

### MODULAR CONSTRUCTION

Our BEUMER Sorter BS 7 Belt Tray is of modular construction and ideally suited for fast, precise sortation of large numbers of goods. It comprises 50 % fewer individual parts compared with other cross belt sorters.

The sorter is made up of a number of moving conveyor belts, so-called belt trays. These are arranged at an angle of 90° to the direction of conveying of the sorter so that they can feed in or discharge the articles to be conveyed to the left or to the right. The articles to be conveyed are fed onto the belt tray at a speed adapted to the sorter speed and the feed angle. Discharging of the articles is the reverse process. The belt moves in the discharge direction and the sorted article is directed gently to the destination.

The use of the belt tray makes it possible to deploy narrow destinations arranged close together. As a result, the sorter takes up little space.

### CONTACTLESS POWER SUPPLY

The outstanding feature of our BEUMER Sorter BS 7 Belt Tray is its unique system of contactless power supply. The usual mains supply is converted into a medium frequency current, enabling electrical energy to be transferred from a fixed power supply source to a moving transformer via an air gap of approximately 5 mm or "finger width."

A very high coupling efficiency of up to 98 % is attainable due to the selected frequency. On the belt tray, the medium frequency current is converted into direct current by means of the MF/DC converter. The MF/DC converter is equipped with a microprocessor-controlled power output stage for controlling the belt tray DC motor. The MF/DC converter likewise receives the control commands by contactless means via an infrared data interface.