



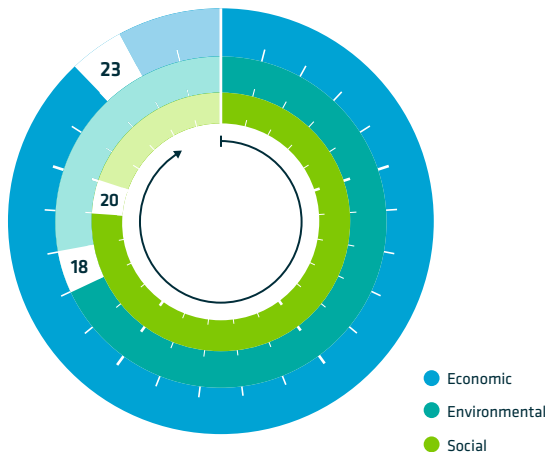
# LS-4000 – THE GREEN HIGH-CAPACITY SORTATION SYSTEM

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

- > Sortation > Loop sorter
- > LS-4000

**61**  
Level:  
Excellent



## LOOP SORTER WITH EXCELLENT SUSTAINABILITY PLATFORM

With a sustainability index rating of 61, Crisplant's LS-4000 achieves an excellent sustainability performance. Equipped with the energy-efficient LSM, the LS-4000 reduces the overall PLCC substantially without sacrificing speed, capacity, and reliability. Contact us to try out the new PLCC calculation tool and calculate the PLCC for your new LS-4000 sorting system.

The LS-4000 high-speed loop sorters from Crisplant feature the highest layout flexibility with reduced installation and commissioning time. The new sorter technology delivers real environmental benefits with reduced carbon-dioxide emissions and increased energy efficiency to provide the lowest product life cycle cost (PLCC).

## ECONOMICALLY SOUND SOLUTION

LS-4000 provides a platform for different loop sorter models like the Tilt-tray sorter LS-4000E and the Cross-belt sorter LS-4000CB. This unique platform enhances the flexibility of the total system, including optimised conditions for integration into an existing environment, up to 10° incline/decline of sorter for access to other floor levels, and more usage of floor space for storage. Equipped with the energy-efficient linear synchronous motor (LSM), the LS-4000 reduces the overall PLCC substantially without sacrificing speed, capacity, and reliability. The high-speed LSM eliminates contact between moving parts, leading to low wear-and-tear and low noise levels.

## SMALL CARBON FOOTPRINT

Increased productivity and efficiency, a safer working environment for staff, and actively reducing carbon dioxide (CO<sub>2</sub>) emissions from daily operations are among the benefits of the LS-4000 sorting system. The LS-4000 was the first sorter to incorporate the innovative linear synchronous motor (LSM) technology. The LSM has proven its value at customer sites all over the world, reducing the energy consumption by up to 75% compared to loop sorter systems with conventional drive technology.

## CORPORATE SOCIAL RESPONSIBILITY (CSR)

Certified for quality, health, and environmental friendliness by ISO 9001, ISO 14001, and OHAS 18001 certifications, we ensure that our customers experience a stable and satisfactory quality with care for both the environment and the well-being of the employees.



## HIGH-SPEED SORTATION WITH LOW POWER CONSUMPTION

### AT A GLANCE: LS-4000

- › Unique linear synchronous motor drive system saves 75 % on energy compared to conventional systems
- › Reduced spare-parts requirements due to high reliability and MTBF
- › Improved and proven life cycle cost (PLCC)
- › Low noise level during operation
- › Certification under ISO 9001, ISO 14001, and OHAS 18001

### MODULAR PLATFORM

The LS-4000 high-speed loop sorters from Crisplant feature the highest layout flexibility with reduced installation and commissioning time. The new sorter technology delivers real environmental benefits with reduced CO<sub>2</sub> emissions and increased energy efficiency to provide the lowest product life cycle cost. The LS-4000 is a high capacity system that quickly and accurately sorts items using a new state-of-the-art energy system.

As a new common platform, the LS-4000 enhances the flexibility of the total system, including optimised conditions for integration into an existing environment, up to 10° incline/decline for access to other floor levels, and more available floor space for storage, trucks, and other needs. The sorters have less components tested at the factory to reduce the installation and commissioning time. In addition, the sorters come with a large complementary line of inductions, chutes, and controls.

### LS-4000CB - CROSS-BELT SORTER

The LS-4000CB is designed to transport and sort items that present difficulties during traditional sortation, such as fragile and high-friction items. The gentle belt-sorting allows for horizontal discharge of items to ensure precise position and orientation throughout the entire process. The items to be transported may be up to 1,400 millimeters (55 inches) long and up to 800 millimeters (32 inches) wide. The item weight for single-belt items is 30 kilograms (66 pounds) – in certain applications even up to 50 kilograms (110 pounds).

### LS-4000E - TILT-TRAY SORTER

With the flexibility of its fully electronic tilt mechanism, the LS-4000E banks the trays through curves to counter centrifugal forces. It allows for speeds of up to 3 meters per second (590 feet per minute). The tilt mechanism has a maximum angle of 45 degrees, resulting in superior discharge control and accuracy. The items to be transported may have a length and width of up to 1,000 millimeters (39.4 inches). Spanning two-trays, the maximum length extends to 1,600 millimeters (63 inches). The item weight for single-tray items is 50 kilograms (110 pounds) with standard carriers and up to 60 kilograms (132 pounds) in certain applications.

All of these features make the LS-4000 platform the clear choice for a broad spectrum of applications, including warehouse and distribution, post and parcel delivery, baggage handling, and manufacturing.

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