

# LS-4000E

## Tilt-Tray Sorter for Airports



The LS-4000E Tilt-Tray 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).

The LS-4000E is a high capacity system, which quickly and accurately sorts items using a new state-of-the-art energy system. Equipped with an energy-efficient linear synchronous motor (LSM), the LS-4000E 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.

High speeds are made possible by the flexibility of the fully electronic tilt mechanism, which allows the trays to bank through curves to counter centrifugal forces. The tilt mechanism has

a maximum angle of 45° resulting in superior discharge control and accuracy.

The LS-4000E is based on a new common platform, enhancing 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 etc.

The sorters have a reduced number of components, which have all been tested at the factory to reduce the installation and commissioning time. In addition, the sorters come with a large complementary programme of inductions, chutes and controls.

Crisplant is the industry leader in high-speed, high-throughput sortation, catering to all types of distribution requirements. The LS-4000 technology is the clear choice for a broad spectrum of applications including distribution, post and parcel delivery, baggage handling and manufacturing.

### FEATURES >>

- High capacity sortation
- Modular platform for flexible layout
- State-of-the-art energy system
- Optimised induction system

### BENEFITS >>

- New Linear Synchronous Motor (LSM) improves electrical efficiency
- Improved product life cycle cost (PLCC)
- Optimised induction algorithm to ensure highest possible utilisation of capacity
- Optimised conditions for integration into an existing environment



# Specifications

Modular concept based on standard elements.

**Drive system:** Linear Synchronous Motor (LSM).

**Sorter velocity:** up to 3 m/sec (590 ft/min).

**Noise level:** 62 dB(A).

**Maximum item length:** 1000 mm (39.4") single tray; 1600 mm (63") spanning two-tray. Consult Crisplant for three-tray.

**Maximum item width:** 1000 mm (39.4").

**Maximum item weight per tray:** 50 kg (110 lbs) standard carrier. Up to 60 kg (132 lbs) in certain applications.

**Maximum frame incline/decline:** Up to 10° in both straight and curve sections, optional tray design can allow for slight increase.

**Temperature range:** 0 °C (32 °F) to +45 °C (113 °F); extended range possible with the addition of special heating and/or cooling elements.

All measurements are approximate.

