



CROSSORTER

FLEXIBLE SORTING COMBINED WITH MAXIMUM ECO-EFFECTIVENESS



THE PERFECT SOLUTION FOR YOUR PROCESS

Challenges like increasing labour costs and expanding volumes make automated sortation systems economically attractive for express delivery companies, postal operators and distribution centres. Vanderlande Industries has developed a range of CROSSORTER systems to offer you the optimum solution for your sortation process.

18,000 carriers per hour

The CROSSORTER provides a highly flexible solution to handle a wide range of products, from very small packages such as only 2 mm thick mailings and shrink-wrapped products, right through to bulky items measuring up to 1500 x 800 mm, including odd-shaped packages and totes. The high speed of 3 metres per second and lateral product orientation result in a maximum capacity of up to 18,000 carriers per hour. Sophisticated flow control balances the flows over the different inducts and outputs, minimising recirculation, and thereby further increasing operational capacity.

99.9% availability

High availability is essential to allow the required productivity levels to be achieved consistently. By using robust, durable components and technology together with built-in diagnostics, the CROSSORTER delivers over 99.9% availability. If intervention is needed, the key components of the system are extremely easy to change within only five minutes.

Highest sorting performance and flexible design

Different kinds of outputs can be used to match the wide range of products that can be handled. Products can also be sorted directly into mailbags, totes and roll cages. Different sort profiles can be selected, based on the measured positions and characteristics of the individual products. This ensures maximum sorting reliability and minimum output pitch. In addition, the CROSSORTER is a space-saving solution that makes maximum use of the available operator working area, thanks to the tight curve radius and steep incline and decline angles.



Taking responsibility

Increasingly scarce natural resources and rising energy prices are forcing us to rethink the way we conduct our business. We are taking responsibility by redesigning our products according to Cradle to Cradle® principles¹.

We believe it is of the utmost importance to use materials in a smart way. By using homogenous materials and designing for disassembly at end-of-life, we enable and promote repeated re-use of materials. This closes the loop and continues the Cradle to Cradle® cycle, while also minimising energy use. We believe these efforts will support the sustainable distribution and sortation centre. We are committed to taking our responsibility, and to helping you in taking yours.

The following results have been achieved:

- 99% of all materials used are easy to dismantle and recycle
- 90% of the materials used are environment-friendly
- 80% more energy-efficient than conventional crossbelt sorters

Proven performance

The CROSSORTER is the perfect mix of state-of-the-art technology and proven performance. The combination of energy-efficiency, high availability and low maintenance ensures an optimum value proposition.

“Vanderlande Industries’ CROSSORTER is fast, efficient and low noise and fits perfectly in the sorting centres of Belgian Post. The design of the infeeds is fast and simple, and the system sorts parcels with all possible shapes and forms.”

Mr. E. Vincent, Program Manager BPOST

¹ Vanderlande Industries is inspired by the Cradle to Cradle® principles and committed to their implementation, and recently entered into an exclusive partnership for this purpose with EPEA (the Environmental Protection Encouragement Agency). The company is rethinking all its products, services and operational processes to allow materials to be used in a way that enables their return to technical or biological cycles after use.

Technical details

Design feature

- Synchronous high-energy-efficiency linear motor
- Plug & play crossbelt assemblies
- Completely closed crossbelt deck
- Lifetime-lubricated bearings
- Uninterrupted conductor rail
- Infrared data transmission
- Brushless crossbelt motor
- Embedded local controls for each individual carrier
- Unique build-in diagnostics

Your benefit

- Wear-free, low operational costs
- Changeable within 5 minutes
- Maximum conveyability, minimum jams
- Low noise level and minimum maintenance
- Highest energy-efficiency, low maintenance
- Reliable and maintenance-free
- Maintenance-free
- Highly accurate sortation, based on individual product position and characteristic
- Fast commissioning and maintenance
- Built-in process information gathering

Specifications

CROSSORTER TYPE	700	1200	1500
Capacity in carriers per hour (at a speed of 3 m/s)	18,000	14,400	13,500
Minimum product dimensions mm (L x W x H)	80x50x2	150x100x5	150x100x5
Maximum product dimensions mm (L x W x H)	700x500x700	1200x700x800	1500x800x800
Maximum product weight	30 kg	50 kg	50 kg

Benefits

- Full product range with a single sorter
- Up to 18,000 carriers per hour
- 99.9% sorter availability
- Parts are extremely easy to change within 5 minutes
- Sophisticated sorter controls
- 99% of parts and materials are easy to dismantle and recycle
- 90% of materials used are environment-friendly
- 80% more energy-efficient than conventional crossbelt sorters
- Vanderlande Industries Business Process Intelligence (BPI) included
- 5 year warranty

