

FORTNA

Data Sheet

FORTNA Wheel Sorter



Bi-directional solution for inbound and outbound operations

The FORTNA Wheel Sorter is a versatile sorting solution, fully electric, capable of sorting a wide range of products. Due to its modular design, the wheel sorter can be tailored to specific customer needs or requirements. It enables high flexibility within the system design and possibilities for future expansion. This sorter can easily convert into a bi-directional system, making it ideal for supporting last mile operations.



Flexible and safe

Modular design of individual IQ-Cassettes™ equipped with high-grip swivel wheels, driven rollers to power the wheels, a servomotor to rotate, and a fully closed deck. Its own sheet steel frame consists of a rectangular box without protruding parts, powder-coated in black and supported by height-adjustable aluminum supports. The wheel sorter is designed for a safe and ergonomic working environment and has a minimized noise level.



High control

Dependent on the application each IQ-Cassette can be controlled individually for decreased gaps and accurate sorting of products. Equipped with several rows of intelligent bi-directional rollers, this sortation solution is capable of pushing, aligning, diverting and merging parcels down a conveyor.



Reliable

The sorter wheels are made out of a durable and high grip material to optimize sorter reliability.

Application for last mile operations

The FORTNA Wheel Sorter is optimized for last mile sorting solutions, offering superior performance in handling bi-directional flows and operations on the same line. This results in a streamlined design, enhanced workflow, and a minimized footprint.

By leveraging standardization and modularity, FORTNA last mile solutions utilize predefined technological modules that ensure:

- Greater reliability, using industrial-grade modules made from high-quality components.
- Increased flexibility allowing for diverse layouts with the same modular units.
- Reduced variability in modules and spare parts simplifying inventory management.
- Simplicity in design leads to fewer components and minimal spare part requirements.
- Shorter lead and installation times.
- Improved scalability, enabling faster commissioning and easier troubleshooting.
- Low-maintenance design.

Technical Data	
Sorting angles	90° to +90°
Exits available at	20°/25°/30°/ 45°/90°
Max. transport speed	2.0 m/s
Advised max. speed at 30°	2.0 m/s
Advised max. speed at 45°	1.5 m/s
Advised max. speed at 90°	1.0 m/s
Transport width	400/600/800/1000 mm
Grid length	200/400/600/800/1000 mm
Max. product weight	225 kg/m ² or 50 kg per item
Environment	5-45° Celsius
Safety	compliant with CE standards
Operating voltage	380 – 480 VAC



Highlights

For integrators

The FORTNA Wheel Sorter is a fully stand alone machine supported by its own frame. It can be supplied as a stand alone equipment and can be seamlessly integrated into third-party projects. IQ-Cassettes come in three sizes 300x200, 400x200 or 500x200 and can either have swivel wheels or normal rollers.

Controls and interface

Each cassette has a simple interface that provides full control. A 400V cable powers the moving parts and a second cable powers the onboard electronics and sensors.

The wheel sorter comes standard with a Profinet gateway. Each individual cassette can be set to a speed and an angle with a predefined message. Upon request, it is also available with other interfaces.

Maintenance

The FORTNA Wheel Sorter consists of easily replaceable IQ-Cassettes. Should maintenance be needed, the IQ-Cassettes can be exchanged within a few minutes. All parts are accessible from the top by removing a cassette for easy service and maintenance.

FORTNA

About FORTNA

FORTNA partners with the world's leading brands to transform omnichannel and parcel distribution operations. Known world-wide for enabling companies to keep pace with digital disruption and growth objectives, we design and deliver solutions, powered by intelligent software, to optimize fast, accurate and cost-effective order fulfillment and last mile delivery. Our people, innovative approach and proprietary algorithms and tools ensure optimal operations design and material and information flow.

Contact us today at www.FORTNA.com