



CASE STUDY WIDE OVAL SORTER & WCS

JBC Mode



JBC MODE - TURNKEY PROJECT

Wide Oval Sorter & WCS

Belgian fashion retailer/e-tailer JBC Mode commissioned Equinox MHE with the turnkey project for automating and expanding the logistics process in its DC in Houthalen (B). The **Wide Oval Sorter** is undoubtedly at the heart of it all. Totes arriving at the sorter each contain one of four segments of garments: Men, Women, Kids and Mix. The main purpose of the Wide Oval Sorter is to sort them into totes per store, per segment and even per subsegment, accurately and efficiently.

Warehouse Control System

A very important but less visible part of the JBC Mode turnkey project is the Warehouse Control System. This IT system controls all subsystems such as the flat and hang sorter systems, conveyors, buffers and robot. JBC Mode's host system provides distribution information to the WCS and the WCS reports back to the host system.

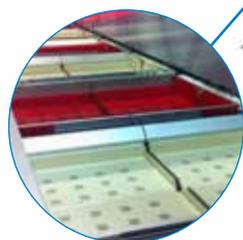
1 Transport of totes



2 16 Induction stations



6 Pushing full totes on conveyor belt



3 Double tray type



4 Empty totes transport



5 216 Discharge destinations

Process

The Wide Oval Sorter (WOS) sorts flat garments and fashion accessories, either packed in polybags or unpacked.

- 1 Trains of totes are automatically transported from the presorter to the WOS. Totes are evenly distributed over the 16 induction stations.
- 2 Each induction zone has four induction stations equipped with scanners and screens.
- 3 Trays are double tray type meaning that one tray can hold one large product or two smaller ones.
- 4 Empty totes are placed beneath the sorter stations on an empty tote carousel.
- 5 At the right destination the tray opens and the product drops onto a metal plate that either tilts to the right or left and lets the product slide gently into a tote on the right or the left.
- 6 Operators around the sorter push full totes onto the conveyor belt underneath the WOS, transporting the totes out of the sorter. Full totes arrive at the tote-turn unit and label applicator stations to receive a shipping label before they are transported to the shipping buffer and palletizing robot.

Specifications WOS

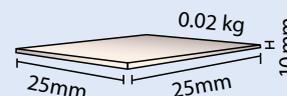
- ✓ 216 Store destinations including 27 destinations with dynamic allocation.
- ✓ 4 Induction zones with 4 induction stations each.
- ✓ Double tray type.
- ✓ Ready for smart tote distribution.

Capacity per hour

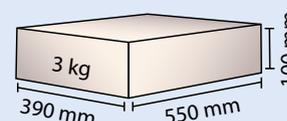
20,000+



Min.



Max.



More information

Scan the QR code and you will be redirected to a YouTube video of the JBC Mode project.