

# TWISTSORTER

A high speed modular sorting line, which can be configured to your requirements. The intelligent sorting application is intended for use in logistic systems, mainly in the post and parcel industry.



## Features & Benefits

- “Ready to run” solution to control a multi belt/sorting system
- Quick engineering just by parameterising (without programming)
- Modular concept, each unit has its own 24VDC and 48VDC power supplies and servo controllers and only needs 230VAC power supply and a Varaan Bus communication cable.
- Number of belts and stations only limited by used CPU type.
- Automatic control and coordination of the movements.
- Automatic preparing functionality (homing and move to initial position)
- Manual jog and positioning functionalities (e.g. for commissioning)
- Collision monitoring
- Incremental encoders
- Easy diagnostics
- Easy mounting, sorting module easy plugin connections
  - Max. 6-12x M12 PNP-sensors
  - 1x Safety Emergency Stop
  - 1x Varaan Bus In 1x Varaan Bus Out
  - 1x Power Main supply cable
  - 1x Output Led Bar
- Prepared to add Belt/Transport-rolls, standard based on Can-open protocol
- Standard 1 sensor-bar
- Optional LED RGB indication bar to indicate the state

## How it works

The application consists of at least one main cabinet with the Master CPU and HMI (both SigmaControl) to power on and control one or more slaves by a Varaan bus-system. Each slave can control up to 6 servo-based sorting-rows containing 2 till 5 rotating wheels all driven by 1 servobased transport-motor. This leads to adjustable reliable speeds and exact sensor-controlled time-based separation of boxes and envelopes. Optional Sensors on the outputs can give a “full” signal or a fault when a box was expected. The Master can communicate with a WMS based on several networks as (optional) Profinet, Ethercat to enter the box-data, such as weight, dimensions and output positions.

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## Specifications

### Mechanical Information

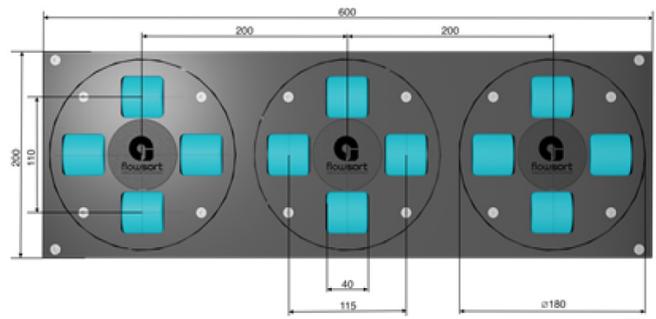
Wheel Diameter: Ø180mm  
Row Length: 200mm  
Standard Widths: 400, 600, 800 and 1000mm  
PU Wheel Diameter: Ø58mm  
PU Shore: 70° Shore  
Diverting Angle: -90° to 90°

### Product Handling W x L

Min Product Size: 100 x 100mm  
Max Product Size: 900 x 1500mm  
Min Product Height: 10mm  
Sorting Capacity: max 10000 pph (depending on size and weight)  
Min Product Weight: 50 grams  
Max Product Weight: 50 kg

### Control Information

Motor Rotation: servo drive 48V  
Max Rotation Speed: -90° to 90° in 0.25 seconds  
Motor PU Wheels: servo drive 48V  
Max Speed: 2.5 m/s  
Sensors: 1 home sensor per row  
Control: Sigmatek



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