TWISTSORTER TS-48

The Intelligent modular sorting application is intended for use in logistic systems, mainly in the post & parcel industry. 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 servo-based 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.
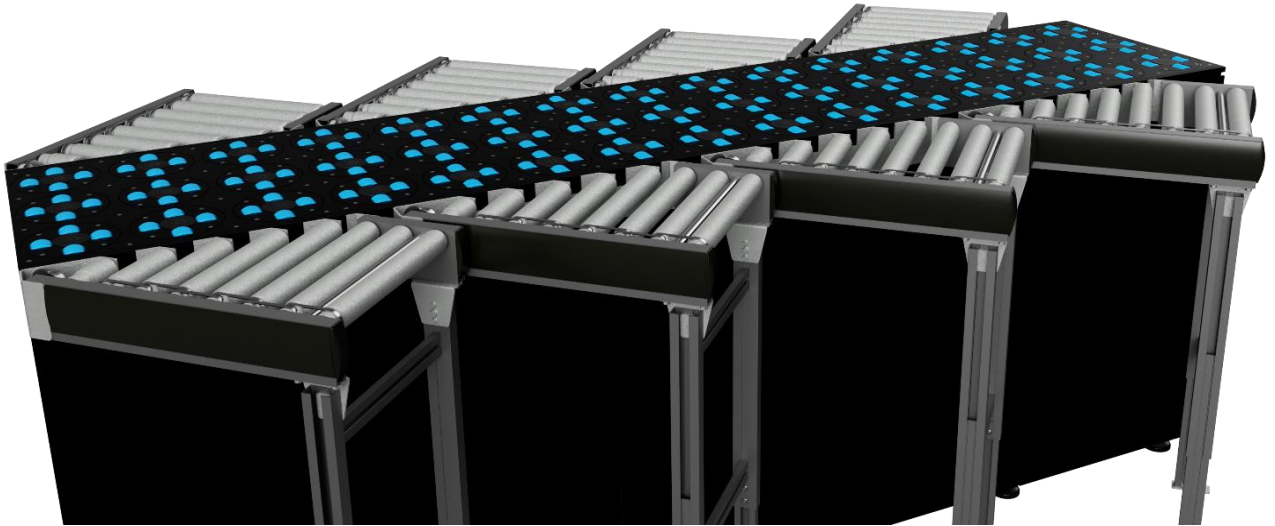The Master can communicate with a WMS based on several networks as (optional) Profinet, Ethercat to enter the box-data, such as weight, dimensions and output positions.

Key facts and benefits
- "Ready to run" solution to control a multi belt/sorting system
- Quick engineering just by parameterizing (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

TWISTSORTER TS-48V

Mechanical information;

Wheel diameter	: ø 180mm
Row length	: 200mm
Standard widths	: 400-600-800-1000mm
PU wheel diameter	: ø 58mm
PU shore	: 70 ° shore
Diverting angle	: -90° to 90°

Product handling;	W x L
Min. size product	: 150 x 150mm
Max. size product	: 900 x 1500mm, bigger on request
Min. product height	: 10 mm
Sorting capacity	: max 10000 pph (depending on size and weight)
Min. product weight	: 50 gr.
Max. product weight	: 50 Kg.