Flowsort offers its highly flexible sorting modules in three different types.

**FLOWSORT IS...**

- **modular**: only standard modules – no specials
- **gentle**: gentle diverting of products in "flow" - no abrupt braking or mechanical force
- **appropriate**: throughput is 2,500-6,000 products per hour
- **easy + fast**: easy installation in common conveyor systems saving planning + installation time
- **connected**: downloadable software function blocks can be integrated directly into the PLC
- **cost-effective**: low initial investment combined with later scalability
- **flexible**: intralogistics systems with Flowsort modules can be re-configured and adjusted with minimal effort
- **reliable**: 100% reliable and fast quotations
- **awarded**: top warehouse automation solutions provider in Europe 2022

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**SLD Diverter**
Single Line Diverter = 1 row

**DLD Diverter**
Double Line Diverter = 2 rows

**ZZ Diverter**
Zick-Zack Diverter = 2 rows, especially for very small products
Flexible and open System

Flowsort diverters are high speed diverters designed to build into every conveyor system. It is a modular system which can be flexibly configured.

If, for example, 3 rows are required, just one SLD (1 row) and one DLD (2 rows) are connected with eachother and done!

ZZ diverters can also handle products with dimensions smaller than 150mm. The ZZ diverters are available as a double row module and can be combined up to a maximum length of 8 rows.

Flowsort’s open interface approach ensures that both hardware and software connectivity is plug-and-play with all other surrounding technologies, regardless of which vendor those technologies are from.

DLD Diverter

MECHANICAL INFORMATION

- disc diameter: Ø 180 mm
- module length: 400 mm
- amount of rows: 2
- available widths: all widths in mm between 400 - 450 mm, 600 - 650 mm, 800 - 850 mm and 1.000 - 1.050 mm
- PU wheel diameter: Ø 58 mm
- hardness wheel: 80° Shore A
- diverting angle: -90° to +90°

PRODUCT HANDLING

- minimum size product: 150 x 150 mm
- maximum size product: on request
- maximum sorting capacity: 6.000 parts per hour
- minimum product weight: 50 g / 1.764 oz
- maximum product weight: 35 kg / 77,16 lbs.

CONTROL INFORMATION

- motor drive: 24V pulse gear drive
- maximum rotation speed: -90° to +90° in 0,35 s
- motor PU wheels: 24V pulse gear drive
- maximum speed: 1,5 m/s
- sensors: 1 homing sensor per row
- control: 1 control card per row, standard 1/0 pin out via M8 connector, EtherCAT or Profinet available

Depending on the application, the combination of maximum values is not always possible.

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