

Swivel Divert Unit (SDU)

Material Sortation Modules

Data Sheet:

Swivel Wheel Divert Module – BestConnect+

Applicable Models: SDU



Swivel Divert Unit (SDU)

Product Description

The FMH Swivel Divert Unit is a high-speed material handling diverter used for manipulating the direction of transported goods.

The SDUs swiveling top rollers divert and merge unit loads on or off the main conveyor line. Able to divert up to 90°, this customisable angle of sortation means the SDU can be integrated into almost any outfeed scenario.

Designed as a modular unit, the SDU can be installed as a single row for smaller sorts, or in a multiple row configuration for larger material flows.



Technical Data

Structural Data

Module Lengths	220mm
Effective Width	630mm to 1260mm - (alternatives available on request)
Roller Pitch	62mm
Module Height (TOR)	TOR +2mm (when mounted in FMH module frame)
Divert Rotation Angle	+90° to -90° (customisable in +/-2° increments)
Side Plates & Chassis	Fabricated steel construction
Physical Connection	6 x M8 screws

Roller/ Drive Data

Top Roller	Ø50mm machined Polyethylene wheels with replaceable Polyurethane tyre
Wheel Drives	24Vdc Roller Drives
Rotation Drive	24Vdc Kyowa MGU Drive
Internal Drive Method	2PJ Industrial Poly-V Belts (2 & 3 rib)
Top Roller Drive	5mm Poly-cord (85° A Shore hardness)
Variable Speed	Up to 2 m/s
Controls	On board controls cards with ProfiNet connection
Load Capacity	35kg per unit

Electrical Data

Power Supply	24Vdc
Controls	On board controls cards with ProfiNet connection

Efficiency Data

Noise	< 70dBA
Motor Rating	0.16kW per unit (2x motors per module)
Max. Amperage	5.0A per unit MAX
Operating Temperature	+5°c - +40°c
Humidity	Maximum 70% non- condensing