

# DFC 1800 pack diverter and DFC 8800 pack collator

A FlexLink standard solution

5072-1

## One lane in, up to eight lanes out



**The FlexLink pack diverter is capable of dividing a flow of wrapped paper products from one in-feed lane to up to 8 discharge lanes continuously. It uses FlexLink's patent pending Dynamic Flow Concept (DFC), i.e. the use of acceleration of products to create switching gaps. The gap also allows for the products to be counted and metered into the various discharge lanes.**

The pack diverter is usually placed in front of an over-wrapper or sales unit palletizer. It can be supplied as a stand-alone unit or together with a collator for pre-formation of bundles or pallet loads.

### Standard features

- **On-the-fly pack distribution:** By creating a gap through accelerating the product flow, braking is avoided. Thereby accumulation of packs is reduced and 100% utilisation of the line capacity is possible.
- **Stand-alone unit:** The diverter does not depend on gaps in the incoming product flow or synchronisation signals from other machines (e.g. the wrapper) and can therefore be placed anywhere along the line. This directly translates to a smaller total amount of conveyors needed.
- **Flexible operation:** Software setting of the number of discharge lanes.
- **No divert slugs:** Since there is a gap between each product, frequent switching between lanes is possible, giving virtually no divert slugs. This, in turn, allows for shorter in-feed belts on subsequent machinery (e.g. an overwrapper).
- No backlog requirements
- **Standardised control system:** The machine control system has spare capacity that can be used to control other equipment, e.g. infeed and discharge conveyors.
- **Quickly adjustable:** Quick release handles are used for speedy changeovers.
- **Smooth operation:** Inverter controlled in-feed metering choke lanes and servo controlled lane diverting ensures reliable and quiet operation when running at high speed.
- **Easy to operate, low maintenance and service-friendly:** Standardised, modular design. Easily accessible for inspection and service.
- Minimum floorspace requirements
- UL or CE certified
- Patent pending

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## Technical specifications

Capacity .....	up to 220 packs/min.
Collation .....	1–8 rows
Conveyor height .....	750–850 mm

### Product dimensions

Product length .....	90–550 mm
Product width.....	90–375 mm
Product height .....	90–375 mm

### Bundle dimensions

Length .....	300–900 mm
Width .....	300–900 mm
Height.....	180–350 mm

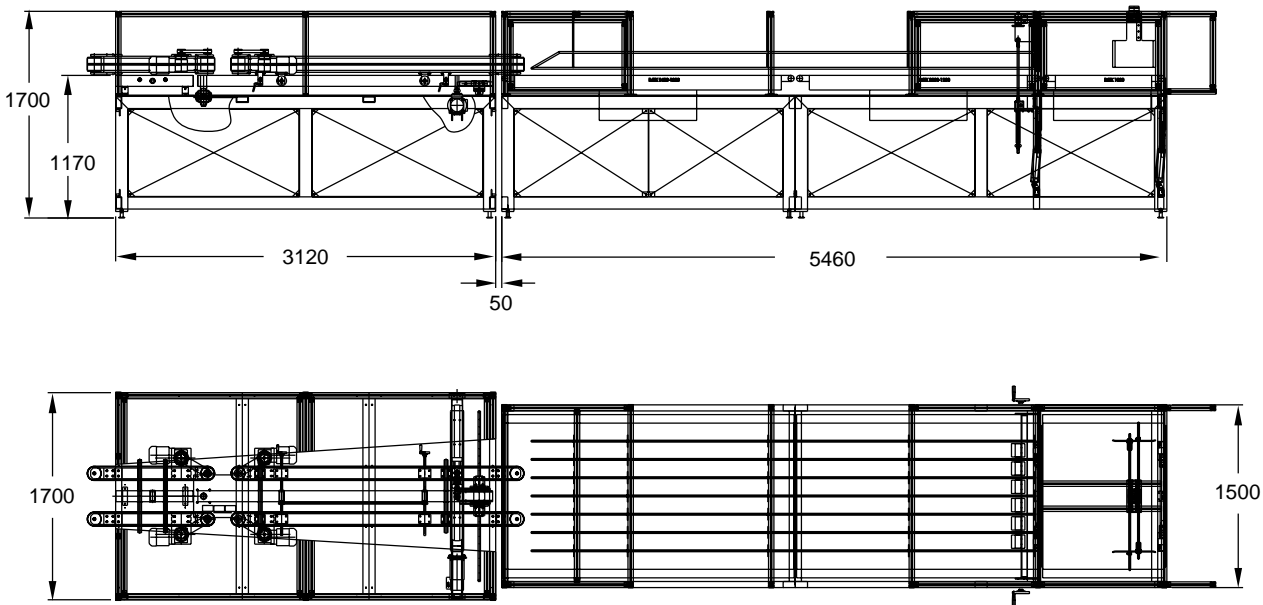
## Included in delivery

- SEW gear motors with inverters
  - Indramat servo system
  - SICK photo eyes
  - SKF bearings and actuators
  - Siemens or Allen Bradley controls system
  - Fully enclosed for CE requirements
  - Steel ridged framing
  - Habasit conveyor belts
- Other motor types, belting types, product dimensions etc. are available on request.

## Installation requirements

- Power supply: 3-phase 380/460 VAC, 50/60 Hz
- Optional control interface with environment:
  - Analogue speed control, 0–10 V
  - Potential free controls

## Dimensions



*FlexLink is a leading supplier of automation solutions for manufacturing and assembly processes. The Paper Converting Centre of Excellence is a unit within FlexLink with specialists on product handling equipment for the tissue paper industry. We deliver systems for cost-efficient flow management at all stages of the converting operation, from the core to the finished product. Our extensive offer ranges from component deliveries to turn-key installations and pre-assembled modular units for the most common requirements.*