

DFC 260 diverter



A FlexLink standard solution

5132-1

High capacity diverter



The FlexLink DFC 260 diverter is capable of dividing the flow of products, e.g. rolled tissue products, from two in-feed lanes to up to six 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 facilitates for products to be counted and metered into the various discharge lanes in order to create a balanced flow to down stream packaging equipment.

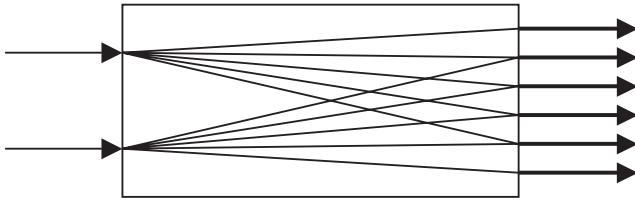
Standard features

- **Continuous distribution:** By creating a gap through acceleration the product flow, braking is avoided. Thereby accumulation of products is reduced and 100% utilisation of the line capacity is possible.
- **No backlog requirements**
- **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, facilitates shorter infeed belts on downstream machinery (e.g. wrappers).
- **Stand-alone unit:** The diverter does not depend on gaps in the incoming product flow or synchronisation with other machines (e.g. the saw) and can therefore be placed anywhere along the line. This directly translates to a smaller amount of conveyors needed and also simplified controls.
- **Speedy changeovers:** Quick release handles and hand wheels are used for speedy changeovers between different product dimensions. Easy software setting of the number of discharge lanes.
- **Controls:** The operator's interface is designed for easy operation and monitoring of the diverter. It has spare PLC capacity that can be used to control other equipment such as in-feed and discharge conveyors.
- **Smooth operation:** Inverter controlled belt motors and servo controlled lane diverting ensures reliable and smooth operation.
- **Low maintenance cost:** Its high reliability together with a modular design ensures long time between failure and low maintenance cost.
- **Minimum floor space:** The Dynamic Flow Concept together with its small dimensions requires a minimum of floor space. The electrical equipment is built into the machine.
- **UL or CE certified**
- **Patent pending**

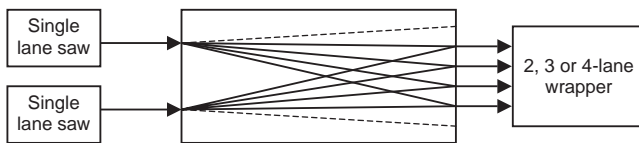
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General description

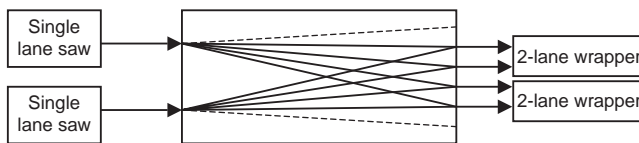
The DFC 260 diverter can be used in many different layout configurations, each of the two infeed lanes can reach five of the discharge lanes.



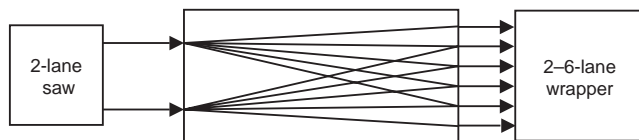
One application suitable for DFC 260 is two single-lane log-saws feeding a one 2, 3 or 4-lane wrapper. In this application the diverter can be set to 2-, 3- or 4-lane discharge in order to suit the needs of the wrapper when producing different pack configurations. The wrapper is at all times supplied with an even distribution of products on the "active" lanes and the Dynamic Flow Concept will assure a minimum of backlog before the diverter and also the wrapper. In this case it is an uneven flow from the saws, this will be eliminated with the balancing capability from DFC 260 and the wrapper will get products even if one of the saws stops.



Another suitable application for DFC 260 is when two single-lane saws are feeding two double lane wrappers, where it is an uneven feed from the saws and an uneven need from the wrappers. The output from each saw can be directed to any of the wrappers.



A third application for DFC 260 is one 2-lane saw feeding a wrapper, with up to six in-feed lanes.



Technical specifications

Capacity	300 products/min per in-feed lane
Conveyor height	750–850 mm
Product length.....	90–250 mm
Product diameter.....	Ø90–150 mm
Dimensions DFC 260 (L×W×H)	2700×1400×1800 mm
Height with open door	2400 mm
Weight DFC 260	1100 kg
Centre distance infeed conveyors	300 mm*
Infeed and discharge height.....	1015–1075 mm*

* other available on request

Included in delivery

- SEW gear motors with inverters
- SICK photo eyes
- SKF bearings and actuators
- Siemens or Allen-Bradley control systems
- Indramat or Allen-Bradley servo systems
- FlexLink linear actuators
- Habasit conveyor belts
- Steel ridged frameworks with FlexLink enclosure
- Fully enclosed according to CE requirements

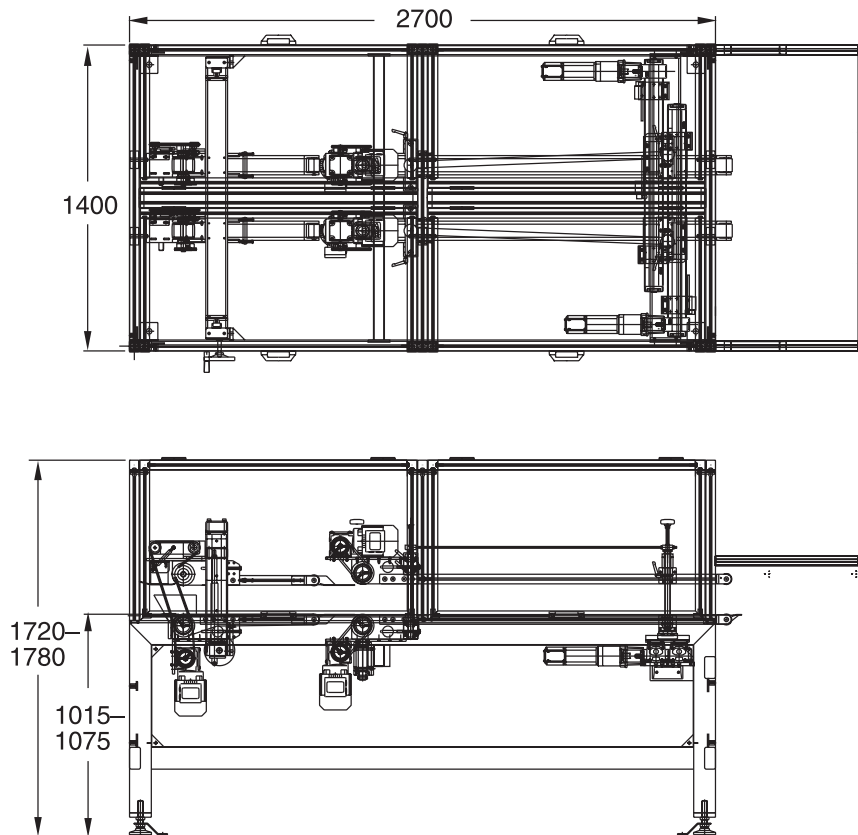
Other motor types, belts etc. are available on request.

Installation requirements

- Power supply: 3-phase 380/460 VAC, 50/60 Hz
- Run signal from discharge conveyor, dry contact
- Optional control interface with environment:
 - Analogue speed control, 0–10 V/4–20 mA
 - Dry contacts

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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.

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