

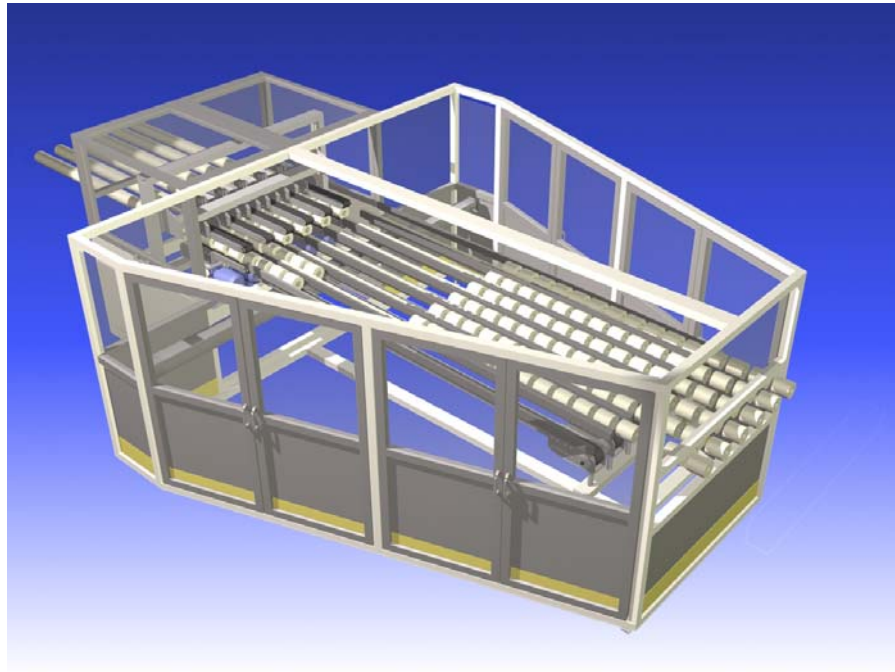
DFC 460 and 680 multi lane diverter



A FlexLink standard solution

5134-1

High capacity diverting and balancing of flow



The FlexLink DFC 460 and 680 multilane diverters have the capability to divert up to a six-lane flow of products to eight discharge lanes. Each in-feed lane can reach every discharge lane, which enables a balanced flow. Instead of using traditional brakes and stops it has choke-belts for counting and metering a suitable amount of products to respectively channel. The choke-belts are of similar type as in FlexLink's patent pending Dynamic Flow Concept (DFC), i.e. the use of acceleration of products to create gaps for switching and counting.

The DFC 680 multilane diverter provides the solution of dealing with several independent log saws operating on several wrappers. It balances the uneven flow from the log saws and also the uneven need from the wrappers.

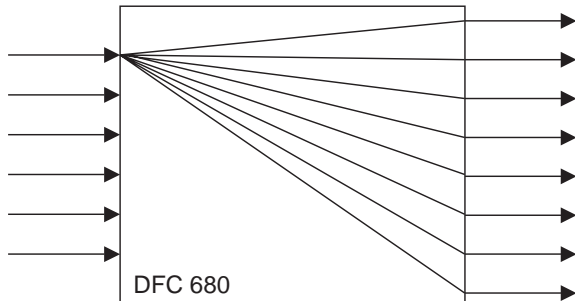
Standard features

- **Continuous distribution:** By using metering choke belts accumulation of products are reduced and an improved utilisation of the line capacity is possible.
- **Variable divert slugs:** Since the metering choke belts send a variable amount of products to each discharge lane, frequent switching between lanes is possible giving shorter divert slug lengths.
- **Stand-alone unit:** The diverter does not depend on gaps in the incoming product flow or synchronisation with other machines.
- **Speedy changeovers:** Hand wheels are used for speedy changeovers between different product dimensions. Software setting of the configuration 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.
- **UL or CE certified**

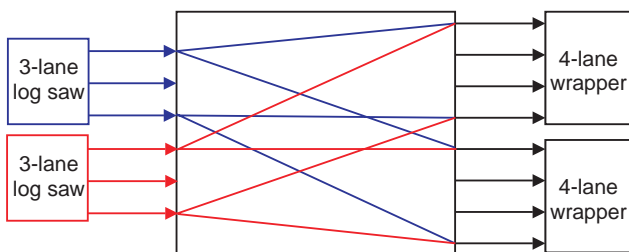
DFC 460 and 680 multi lane diverter

General description

The DFC 680 diverter can be used in different layout configurations, each lane of the in-feed conveyors can reach every discharge lane.



One application suitable for DFC 680 is two 3-lane log-saws feeding two 4-lane wrappers. In this application DFC 680 balances the uneven in-feed flow from the two log saws. The wrappers are at all times supplied with an even distribution of products, DFC 680 continues to feed the wrappers when one of the two log saws has stopped.



Another application suitable for DFC 680 is two 3-lane log-saws feeding several wrappers. This can be suitable when doing investments in several steps, e.g. changing from 2-lane wrappers to 4-lane wrappers. DFC 680 is modularised and can be delivered in different configurations, e.g. DFC 670 a six to seven diverter as shown in pictures.

Technical specifications

Capacity (depending on diverting mode)	<300 products/min per in-feed lane
Product diameter	Ø90–135 mm
Product length	90–250 mm
Dimensions DFC 460 (LxWxH).....	3950x2610x1700 mm
Dimensions DFC 680 (LxWxH).....	4560x3500x1700 mm
Weight DFC 460	1350 kg
Weight DFC 680	1500 kg
Centre distance infeed conveyors	180 mm
Centre distance discharge conveyors	180 mm
In-feed and discharge height.....	750–850 mm

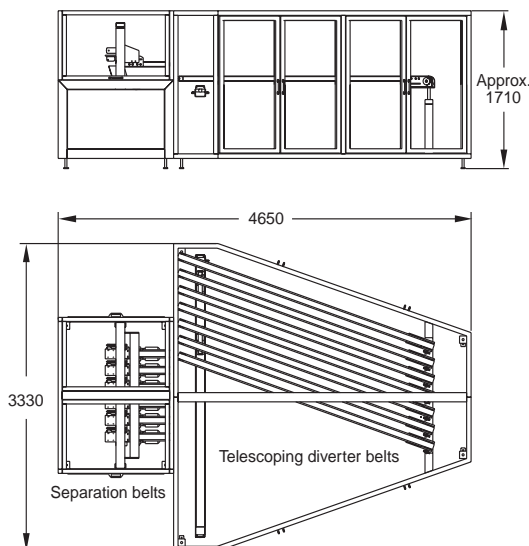
Included in delivery

- Siemens or Allen-Bradley controls systems
 - Indramat or Allen-Bradley servo systems
 - SEW gear motors with inverters
 - SICK photo-eyes
 - SKF bearings and actuators
 - FlexLink linear actuators
 - Habasit conveyor belts
 - Steel ridged frameworks with FlexLink enclosure
 - Fully enclosed according to CE requirements
- Other motors, 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, 0–10V / 4–20 mA
 - Dry contacts

Dimensions DFC 670



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.