

Inspiring technology!

ROTZINGER⁺

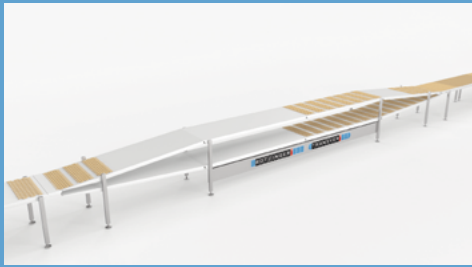
TRANSVER⁺



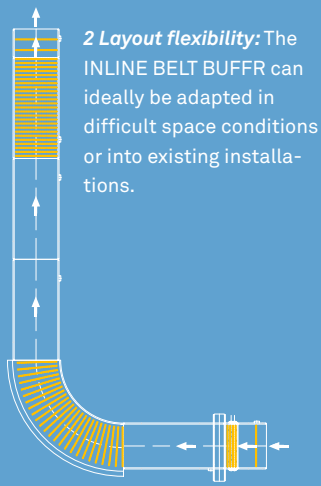
PFR (Product Flow Regulators) and buffers

BELT BUFFER IBB

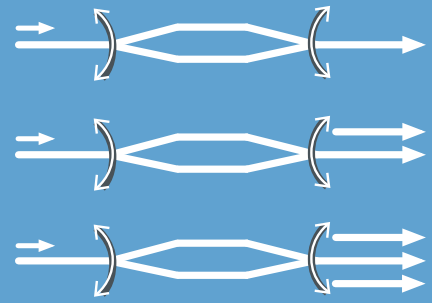
Inline conveyorsystem with Buffering Effect



1 System architecture: The compact and dynamic design allows an equal feeding of the packaging machines while compensating process speed.



2 Layout flexibility: The INLINE BELT BUFFER can ideally be adapted in difficult space conditions or into existing installations.



3 Product distribution: The system allows to simultaneously serve up to 3 wrapping legs with different performances and a constant product flow.

Scope of application

The Inline Belt Product Flow Regulator (IBB) is mainly used for unpackaged products: Next to marshmallows, biscuits, sticky cereals and fruits bars, it can handle a wide range of delicate products. It can optionally be built in a „wash-down“ execution which suits in particular products whose transport can contaminate the belt and where a time gain for cleaning has a high priority. This Product Flow Regulator (PFR) does not only take over the regulation of the product flow, but can also be used to cool the products after baking. The design of the PFR allows combining different processes so as to feed various packaging legs with independent speeds.

Customer benefit

The IBB PFR allows regulating the product flow of delicate and sticky products. It can be used for product flow regulation and/or for cooling. The productivity can be considerably raised with a PFR. End rollers with small radii allow the handling of small products. The IBB PFR is of modular design and can ideally be adapted in the available space. Long cooling tunnels or expensive structural adaptations of the building can therefore be avoided. The In Line Belt Buffer is extremely maintenance and cleaning friendly. The low technical complexity allows easy operation. A smart control unit indicates the different levels to ensure an optimum filling of the PFR. Not only is a maximum capacity reached, but also an optimized Overall Equipment Effectiveness (OEE).

Function principle

The incoming products are inspected and misaligned rows can be rejected. The products are grouped into batches without pushing or touching each other. They are transferred onto a diverter on which a larger, transportation group is built. As soon as the product flow permits to pursue the transport, and when the defined dwelling time has been reached, the products are lead in groups to the outfeed diverter and, if necessary, are brought in a continuous product flow. The product loading and unloading can be done with different speeds. Due to the output diverter it is possible to feed products on to different levels with different speeds. Since the products are neither pushed nor touched, this concept is ideal for delicate and sticky products.

Performance data

Product dimensions	length: 30 – 500 mm, width: 4 – 300 mm,
Buffer capacity	flexible chosable
Loading capacity	high speeds, depending on the product
PFR overall height	up to 1'800 mm
Belt width	bis zu 2'400 mm

Product focus

- FIFO-Prinzip
- Flexible System
- Product pattern remains
- High Effectiveness
- Low Total Cost of Ownership (TCO)