

Inspiring technology!

ROTZINGER<sup>+</sup>



## ACCU-R PFR

Cross feeding station and R-belt in one

PFR (Product Flow Regulators) and buffers



1 Deposit of the rows onto the cross feeding conveyor or the gondola shelf 2 Retraction of the pull nose and discharge of unacceptable rows 3 Feeding of a packaging leg

## Scope of application

The ACCU-R PFR may be used for both packaged and un-packaged products: Chocolate tablets and bars, fruit and cereal bars, biscuits, bakery products, deep frozen food and many more foodstuffs, luxury food and stimulants, pharmaceutical products and non-food articles. It not only feeds products to a single packaging leg but also picks up rows which would otherwise overflow. Such buffered rows are then gradually re-fed into the product flow towards the packaging leg.

## Function principle

The ACCU-R PFR is installed at the end of the line and adopts the function of a cross feeding station and an R-belt. It functions according to the FILO principle "First-In – Last-Out". In regular operation, the arriving product rows are loaded on a transverse belt and fed to the packaging leg. If a leg stops, the rows are loaded into the gondolas of the ACCU-R PFR from the front. These gondolas are suspended in parallel chain loops on both sides. In normal operation, individual distances between incoming rows may be enlarged to push rows from the ACCU-R in these gaps and empty the latter. Should the product flow stop for what reason ever, the rows are pushed on to the cross feeding belt from the ACCU-R (re-feed), the PRF is unloaded and the packaging leg may continuously be fed.

## Performance data

<b>Product dimensions</b>	Length: 30 - 350 mm, height: 5 - 300 mm
<b>Buffer capacity</b>	up to 600 rows
<b>PFR overall height</b>	up to 8'000 mm
<b>Loading capacity</b>	up to 100 rows / min, predominantly from the front
<b>Unloading capacity</b>	up to 30 rows / min, frontally and /or laterally
<b>Output capacity</b>	up to 40 rows / min, incl. re-feed
<b>Shelf width</b>	up to 1'600 mm

## Customer benefit

The ACCU-R PFR is an efficient and space-saving method adopting the function of a cross feeding station and a long R-belt. Given the same buffer volume, however, an R-belt requires an approximately 20 times larger footprint than an ACCU-R PFR! The capacity is adapted to the customer requirements and the product characteristics. As the ACCU-R PFR is equipped with an intelligent FSU (flip-flop conveyor with pull-nose function), it may optimally be combined with a row alignment, a metal detector and a scrap discharge belt thus adopting the function of a Head-Of-Line (HOL). Using the ACCU-R PFR, short disruptions of the packaging process may be compensated. Already a small buffer capacity considerably increases the productivity. The use of an ACCU-R PFR not only effectively prevents the products from overflowing but also functions as a flexible link between the incoming product flow and the packaging leg to be fed. Products which would otherwise overflow are buffered and re-fed into the product flow. The improved utilization of the machines and the reduced overflow both lead to an increase in the Overall Equipment Effectiveness (OEE) of the line. The result: lower costs, less personnel expenses, shorter production times!

## Product Focus

- Ease of Use
- Powerful Solutions
- High Effectiveness
- Low Total Cost of Ownership