

## LINE MERGER (UL)

*Combination of two or more lines producing programmed output*



- Programmable line merging
- Based on the Dynamic Flow Regulator (DFRs) concept
- Installable at ground level and/or at height
- Fully configurable
- Sectors:
  - Food
  - Cosmetics
  - Drugstore
  - Pharmacy
  - Automobile
  - Electronics

# LINE MERGER (UL)

## What are they and what do they do?

Inprosy Line Mergers (UL) allow the combination of two or more production lines or transport conveyors and delivery to a single subsequent workstation.

They have been designed to **receive products from different production lines, with diverse or irregular cycles and deliver them with a regular and stable run to the next workstation.**

UL devices therefore perform multiple functions: firstly they **merge the flow from two or more lines or conveyors** and deliver it to a single subsequent workstation; secondly, they **stabilise the cycle of delivery to the next workstation** in such a way that the products arrive at the required pace and separation; and thirdly, they **maximise line efficiency** by managing the product flow received from each line to take full advantage of the processing capacity of the next workstation.

The Line Mergers (UL) are based on the concept of Inprosy's Dynamic Flow Regulator (DFR) and, therefore, they are also fully configurable, suitable for multiple types of products (boxes, flowpacks, bags, tubes, bottles, doypacks, machined parts, etc...) and without pressure.

## How do they work?

Inprosy Line Mergers (UL) include as many devices as lines to be combined. The regulation and coordination of them all is carried out from the control system that is fully integrated with those in the preceding lines and those in the next workstation.

Each UL receives products from one of the lines to merge, with its own cycle and separation between units. **The UL control system regulates and coordinates the activity of all of mergers** so that they deliver all incoming products with the cycle required by the next workstation.

**The control system can also manage the quantities of products to be delivered** when they must be grouped into sets with a precise number of units, for processing by the next workstation. This would be the case, for example, for sets of bags that had to be packed by a subsequent machine down the line.

Finally, the **dynamic accumulation function** provided by UL devices allows them to **absorb inefficiencies caused by short stops** that may be suffered by the lines feeding products into the UL.

### Technical details:

- Independent product-in and product-out speeds (up to 60 m/min)
- Continuous accumulation and delivery
- Range of track shapes and sizes, up to 300 mm wide
- Size of products transported: variable according to stability and weight
- Mixed by unit or group
- Zero-pressure accumulation
- Installation at ground level or at height
- Shape of the products transported: any from among a wide range: boxes, flowpacks, bags, tubes, bottles, doypacks, machined parts, etc...
- Entry and exit of products at the same height or at different levels
- Control software fully integrated with manufacturing line
- Stainless steel construction
- Power required: depending on the distance and characteristics of the circuit
- CE-marked