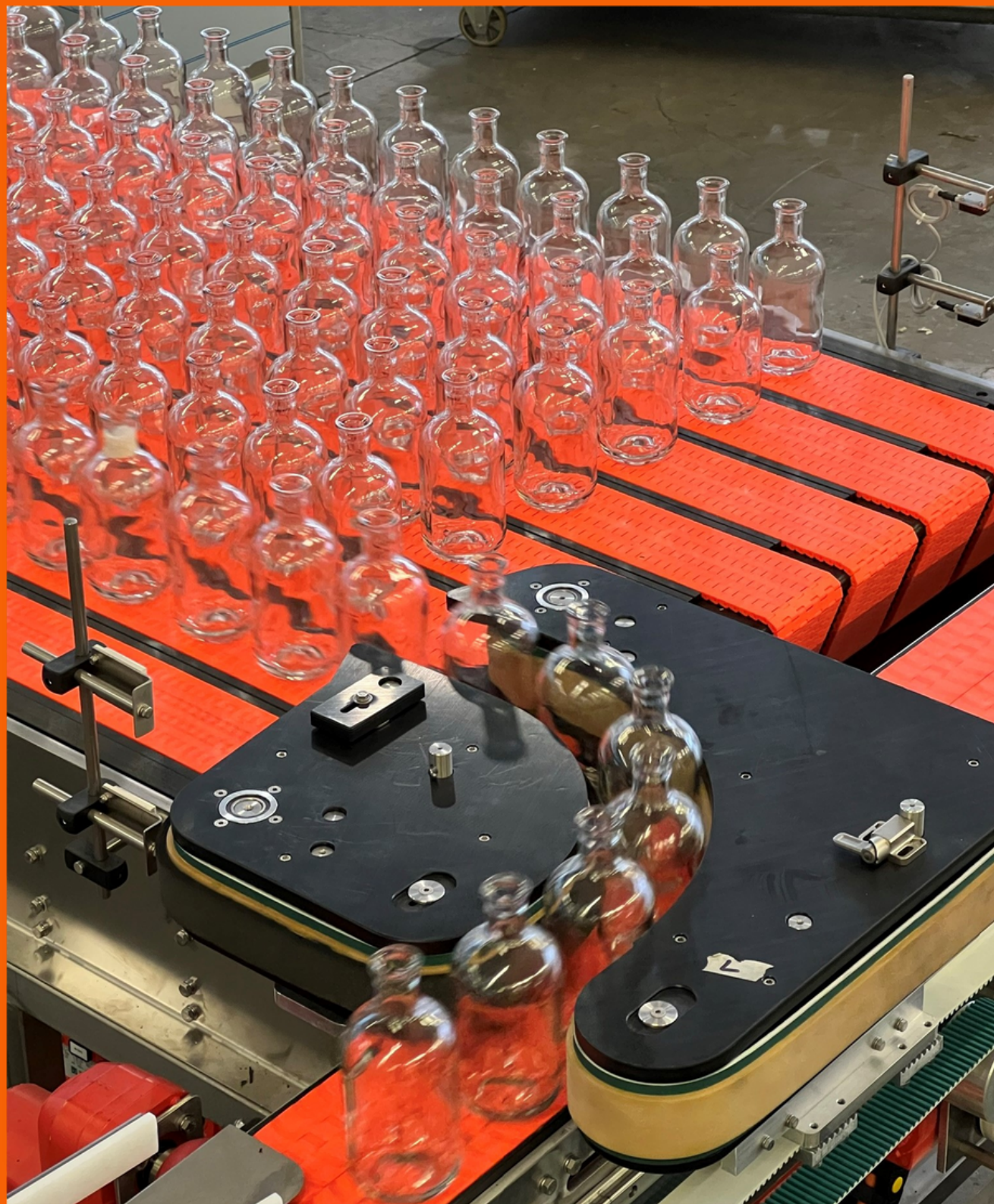


T-BUFFER



WE INNOVATE MOTION

TITANLAB SRL



The T-buffer accumulation system allows to accumulate products of any shape and size in a single row while ensuring a predefined distance between the products, in order to prevent any type of problem of the classic accumulation of products, such as blockage and damage of the package and/or the label.

T-Buffer operation

The products arrive to the T-buffer via a single row conveyor. The motorized belt unit placed on it will have a double task – to guarantee the right pace of the incoming products and to reduce the speed of the products when the translating head draws back to move from a filled line to the next empty one ready to be filled.

As soon as the products arrive to the in-feed translating head, it will be positioned on the free channel identified by the software. At that moment, the two special motorized units placed on the translating head will carry the products on the chosen line and thanks to a precise speed ratio between the two motorized units and the chain of the filling channel the products will enter the channel at the requested pace.

The same applies to the out-feed process. This means that the two motorized units placed on the translating head will be in charge to extract the products from the row on which the out-feed translating head is positioned and will place them on the out-feed single-row belt, which will be managed by the electrical panel of the T-buffer just like the in-feed one.

Advantages:

- Modularity, which allows to change the footprint according to layout needs, while at the same time maintaining the total area required to guarantee the accumulation requested by the customer,
- Possibility of working with FIFO system, without the possibility of error,
- The T-Buffer has multiple belts overlapped in height on the in-feed motorized units, in order to adapt to even the most diverse product shapes and therefore to allow the best product “treatment”, preventing any problem during the transfer from the in-feed conveyor to the accumulation table.



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TECHNICAL SHEET

Electrical cabinet	Stainless steel with PLC Siemens s7 1215 and operator panel Siemens KTP 700 Basic
Gearboxes	Sew
Brushless	Sew CMP50M
PLC and HMI	Siemens



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