



etipack  
PHARMA



## TECHNEWS

Automatic labelling of glass pharmaceutical vials with selective rejection system

# System 1 Pharma with a selective “Multifinger” rejection unit



## THE CUSTOMER

### ▶ MANUFACTURER OF INJECTABLE AND INFUSION PREPARATIONS

A pharmaceutical manufacturer based in Greece, specialised in the production and distribution of injectable and infusion preparations. Operating its own production facility, the company holds a consolidated position in both the domestic and international pharmaceutical market, with a strong focus on process quality and adherence to European regulatory requirements.

## ▶ THE CHALLENGE

### Handling 17 vial formats with integrated overprint verification and high-speed selective rejection

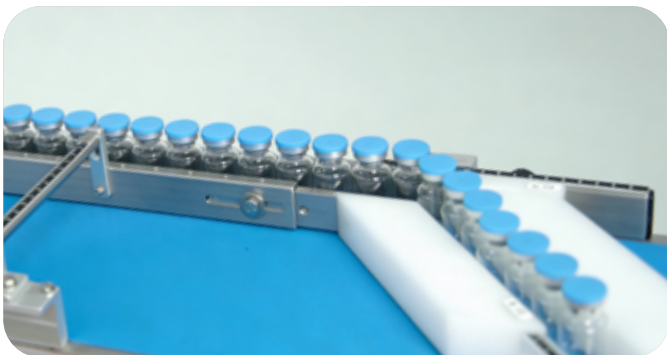
The customer needed to **label cylindrical glass vials in 17 different formats**, with differing diameters and heights, at high speed. To this was added the requirement to integrate, on the same line, **variable data printing and OCV/OCR verification** of the overprint on each label. The fragility of the product and the high production speeds ultimately made a **selective rejection** system necessary, one capable of removing non-conforming units without risk of breakage and without slowing the flow of the line.



# ▶ THE SOLUTION

## System 1 Pharma customised with selective rejection: full process control across 17 pharmaceutical vial formats

To meet the full set of customer requirements, Etipack engineered a customised configuration of **System 1 Pharma**, the platform from the pharmaceutical labelling series dedicated to cylindrical container handling, **equipped with the Extreme 100**, the top-of-the-range labelling head designed for high-speed applications demanding maximum application accuracy. The solution combines wrap-around label application via a dedicated product rotation device, inline variable data printing with integrated **OCV/OCR overprint verification**, and a **specialised parallel-belt rejection unit**, engineered to ensure controlled and gentle handling of glass vials at the required line speeds.



### ▶ TRANSPORT AND CONVEYING

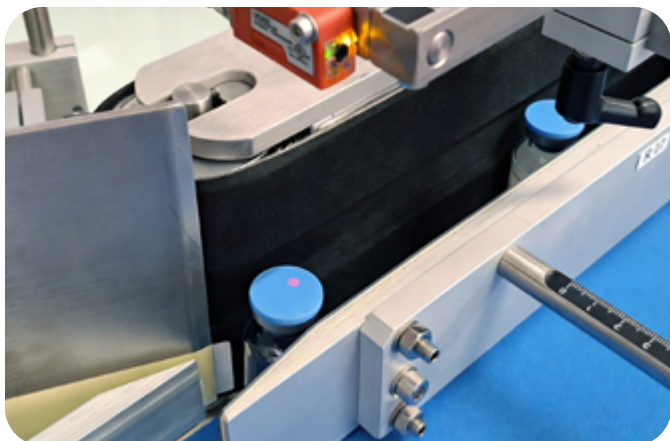
The vials are infeeded through a rotary table equipped with a stainless steel platform and a customized tray discharge system. The transfer is carried out via a split-belt conveyor system with dual drive, product guides, and maximum load control.



### ▶ PRE-SPACING

A dual counter-rotating belt assembly provides controlled pre-spacing of vials upstream of the labelling station.





## ▶ LABELLING

The label is wrapped by means of a product rotation device (PRD), which ensures a uniform and accurate application of the label. The system includes format changeovers to handle the wide range of vials processed.



## ▶ VARIABLE DATA PRINTING AND OVERPRINT VERIFICATION

Variable data printing is integrated directly on the dispensing unit. A camera verifies overprint correctness on each individual vial prior to the application, ensuring full product traceability.



## ▶ LABEL PRESENCE VERIFICATION VIA UV PHOTOCELLS.

Label application is confirmed by dual UV photocells, verifying label presence on each vial prior to line exit.



## ▶ “MULTIFINGER” REJECTION UNIT

Non-conforming units are managed by a linear pneumatic diverter operating on a dedicated parallel conveyor belt. This configuration is specifically suited to fragile primary packaging at high line speeds. Unlike conventional lever-based rejection systems, which are prone to container damage and introduce speed limitations, the “Multifinger” unit transfers rejected vials smoothly onto the parallel belt, ensuring selective, damage-free ejection with no impact on upstream line flow.



# Purpose-engineered labelling solution delivering reliability, quality control and productivity on pharmaceutical glass vials



## ▶ THE RESULTS

The system was validated across 17 cylindrical glass vial formats with 22 associated label specifications, demonstrating high-format flexibility and consistent performance in both label application accuracy and non-conforming unit ejection.

The “Multifinger” rejection unit enabled the required line speeds to be maintained without risk to container integrity, while the integrated OCV/OCR verification system ensures that every labelled unit meets the product traceability and quality control requirements of GMP-compliant pharmaceutical manufacturing.

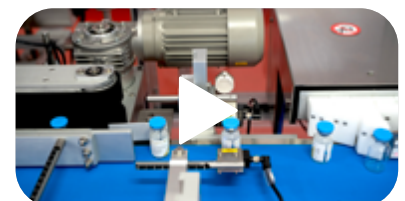


### PRODUCTION OUTPUT

**UP TO 280 UNITS/MIN**

on the smallest format variants

### [WATCH THE VIDEO](#)



# Have a pharmaceutical project in progress?

We design modular, high-performance labeling systems that meet the most demanding standards in the pharmaceuticals industry.



[Contact us](#) to find out how we can meet your production needs.



## ABOUT ETIPACK

**Etipack SpA** designs, manufactures and sells industrial systems for **labelling and coding** with self-adhesive labels and **feeders** for product distribution and handling. Since 1978 a leading company in its sector in Italy, and one of the largest in Europe, Etipack is an international company and **member of the Possehl Identification Solutions division** under the German Possehl Group.

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