



etipack  
**PHARMA**

## **CASE STUDY**

Labelling system for  
Oil-Based Ampoules



# Integrated Pharma Labelling: Etipack in Bonfiglioli Engineering's 3-in-1 Inspection Monobloc



## THE CUSTOMER

### ► LEADING PHARMACEUTICAL PRODUCTION COMPANY

A Brazilian pharmaceutical producer faced a demanding task and turned to Bonfiglioli Engineering, the worldwide leader in Quality Control Solutions for all packaging requirements in Pharmaceuticals, Metal Can & Aerosols, Food & Beverages, and Chemicals & Personal Care markets. The company needed a leak testing solution for an oil-based product, a container type notoriously difficult to test using traditional USP <1207> methods.

## ► THE CHALLENGE

### Integrating Labelling into a Compact High-Speed Pharma System

To respond to the specific needs of the customer, Bonfiglioli Engineering turned to Etipack to develop a fully integrated labelling solution within a compact, high-speed 3-in-1 inspection monobloc. The project presented multiple technical challenges: the product in question was an oil-based formulation filled in ISO 9187 standard glass ampoules, requiring a highly sensitive leak detection method, full ampoule's tip visual inspection, and a precise, compliant labelling process, all within a very limited space.

Rather than deploying three separate machines, the goal was to concentrate all operations - inspection, leak detection, and labelling - into a single compact footprint. This called for tight mechanical integration, high-speed performance (24,000 ampoules per hour), and strict pharmaceutical compliance, including serialization and label verification.

# ► THE SOLUTION

## A precise, integrated Labelling Station designed for Pharma Standards

Thanks to Etipack's solid expertise in pharmaceutical labelling and close collaboration with Bonfiglioli Engineering, a **high-performance automatic labelling station** was engineered and integrated into the machine, fully tailored to the client's requirements.



### ► KEY FEATURES OF THE ETIPACK LABELLING UNIT:

- **Rotary wrap-around application** of self-adhesive labels on ampoules from 1 to 20 ml, at speeds up to 24,000 units/hour
- **On-board printing system** for variable data and QR (pharma) codes
- **Integrated vision system** to verify correct label application and data readability
- **Dedicated reject station** for non-compliant products, triggered in case of misapplied or unreadable labels





This integration ensures full **traceability, serialization, and compliance with international pharmaceutical regulations**, all within a compact and highly automated system.

Thanks to the **modular and compact design of Etipack's labelling system**, integration within Bonfiglioli Engineering's solution was successful. The result: a seamless fit into the designated layout without compromising on performance or reliability.



## Compliant labelling and exceeding productivity expectations



### ► THE RESULTS

Bonfiglioli Engineering chose Etipack for its proven expertise in pharmaceutical labelling. Etipack responded by engineering and delivering a **high-performance labelling unit, specifically designed for seamless integration** into Bonfiglioli Engineering's monobloc architecture. The result is a **cohesive solution that combines mechanical precision, regulatory compliance, and production efficiency** exceeding the expectations set by the client.



## THE COMPLETE 3-IN-1 SYSTEM COMPRISES:

- Automatic visual inspection of the ampoule tip,
- Leak detection using a pressure decay method
- Integrated labelling with pharmaceutical code verification delivered **greater-than-expected productivity: 24,000 ampoules/hour managed by only 2 operators**, instead of the usual 3 machines and 6 operators needed to achieve the same output.

In this context, the **Etipack labelling unit** played a key role in ensuring:

- High-speed application reliability
- Real-time quality control via vision systems
- Operational continuity, minimizing downtime thanks to the mechanical robustness and integration with the unified HMI

[WATCH VIDEO](#)



## Etipack and Bonfiglioli Engineering: a strategic partnership



**Bonfiglioli**<sup>TM</sup>  
Engineering



**etipack**<sup>®</sup>  
labelling, coding, caring

This project is a clear example of **Etipack's ability to collaborate with advanced technology partners** to deliver complete, flexible, and tailor-made solutions for the pharmaceutical sector.

The **strong partnership with Bonfiglioli Engineering** made it possible to merge inspection, leak detection, and labelling excellence into a **single compact, efficient, GMP-compliant system**.

## Looking to integrate an Etipack Solution into your line?

We design Pharma labelling systems that are modular, high-performing, and ready to meet the most demanding standards of the industry.

[Contact us](#) to develop your next solution together.





# ABOUT ETIPACK

**Etipack SpA** designs, manufactures and sells industrial systems for **labelling and coding** with self-adhesive labels, **feeders and pick and place machines** 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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