



TECHNEWS

Automatic labelling and
in-line quality control for
medicated patch packaging

Custom System 9 for label application and quality control of medicated patches



THE CUSTOMER

► SPECIALIZED MANUFACTURER OF MEDICATED PATCHES

An international pharmaceutical company specializing in the development and manufacture of medicated patches for the healthcare sector. Operating in a highly regulated environment, the company follows strict quality standards and advanced production processes to ensure safety, traceability, and compliance throughout the entire production and packaging cycle.

► THE CHALLENGE

Automating labeling and quality control while ensuring process reliability and compliance

The company was looking for a solution capable of **automatically handling medicated patch packs throughout the entire process**, including product feeding, conveying, labeling, and quality control. The objective was to ensure precise application of self-adhesive labels, stable and controlled product handling, automatic verification of label presence, and the management of non-conforming products through automatic rejection, while meeting the traceability and control requirements of the pharmaceutical industry.

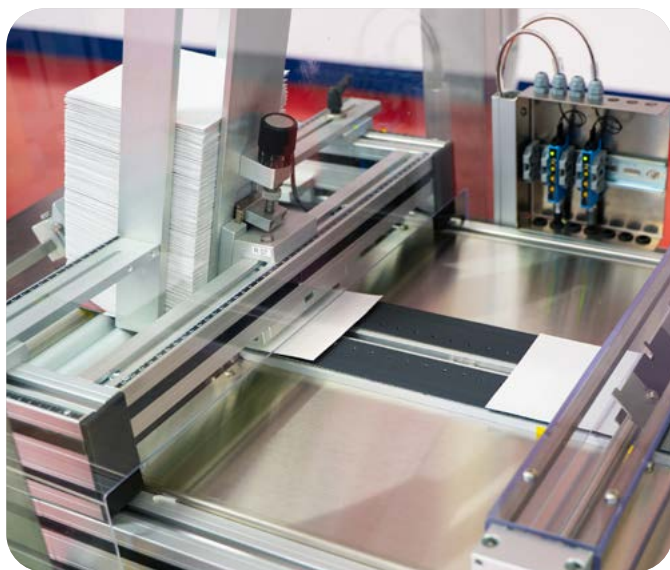
The solution also had to **integrate with plant validation procedures** and support remote diagnostics, assistance, and maintenance activities.



► THE SOLUTION

Tailored Sistema 9 solution for integrated labeling and quality inspection of medicated patches

To meet the customer's requirements, Etipack developed a customized System 9 solution that integrates **product feeding, automatic labeling, label presence verification, and reject management** within a single process. The configuration was designed to **ensure complete product control at every stage**, from product separation at the infeed through to the final collection of compliant products.



► PRODUCT FEEDING AND SEPARATION

The line is fed by a **servo-driven magazine equipped with a parallel-belt product separation system** designed to single and transfer products to the subsequent processing stages. Products are then conveyed onto the main dual-belt vacuum conveyor, which ensures stability during transport. **A motorized alignment system** also guarantees correct positioning before labeling.





▶ LABELING AND PRODUCT IDENTIFICATION

Product identification is performed by an **Energy 200 automatic labeling machine** that **applies self-adhesive labels to the top surface** of the packs. The system features electronic management of operating parameters and storage of production recipes, ensuring high accuracy and repeatability throughout the labeling process.



▶ QUALITY CONTROL THROUGH MACHINE VISION

After labeling, each product undergoes **automatic inspection by a dedicated industrial vision camera**. The system **verifies label presence and communicates in real time with the system PLC**, enabling immediate detection of any non-conformities.



▶ REJECTION OF NON-CONFORMING PRODUCTS

If the inspection is not passed, the product is intercepted by a **Whizzy multi-belt separator dedicated to reject handling and transferred to a collection tray**. This ensures effective separation from compliant products without interrupting production. Conforming products continue along the main parallel multi-belt conveyor, where they are accumulated before final collection.

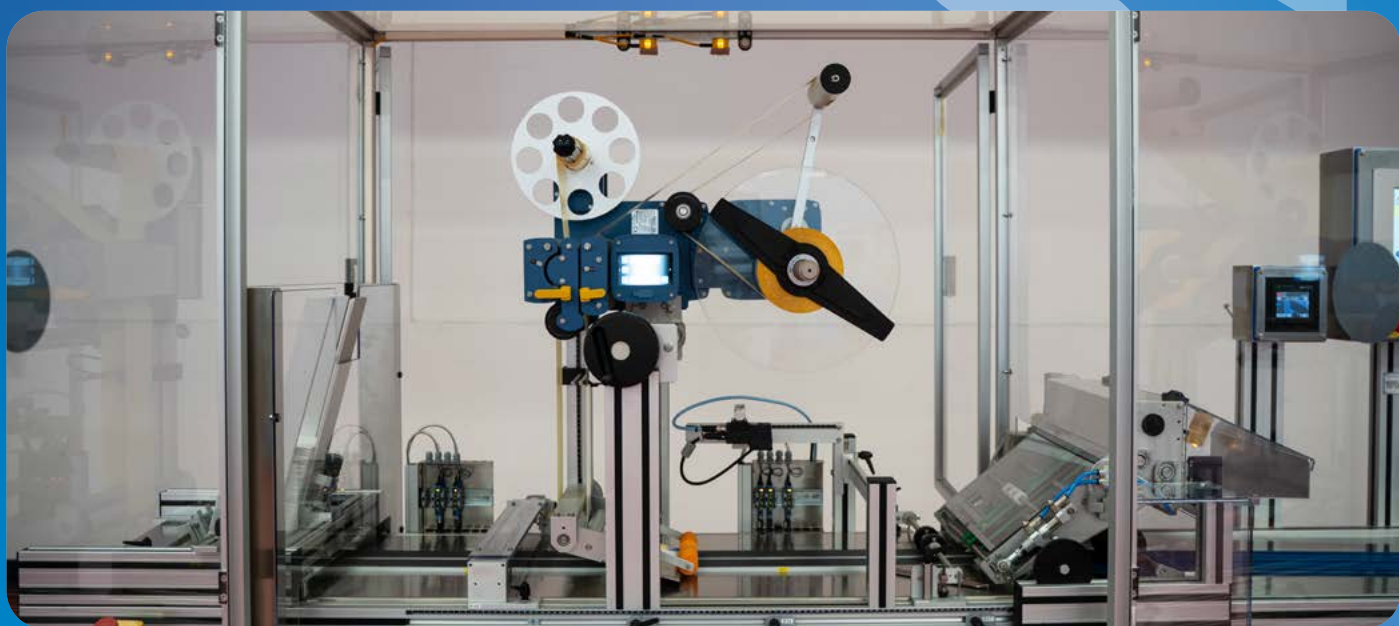


▶ SUPERVISION, REMOTE SUPPORT AND VALIDATION

The system is managed through a **Siemens S7-1500 PLC** and a touch-screen operator panel. The solution **includes remote access capabilities** for diagnostics and technical support activities. The supply also includes **qualification documentation and protocols to support validation procedures**, including **FAT and SAT** testing, as well as documentation for IQ, OQ, and PQ activities.



Complete solution for labeling, inspection and compliance of medicated patches



► THE RESULTS

Thanks to the customized System 9 configuration, the customer achieved a **fully automated system integrating product handling, labeling, label presence verification, and reject management** within a single continuous process. **The integration between the vision inspection system and the automatic reject module** enables the **identification and selective removal of non-conforming products** without interrupting production, improving process reliability and reducing the need for manual inspections. The solution also ensures **high levels of quality, traceability, and regulatory compliance**, meeting the stringent requirements of the pharmaceutical industry.



PRODUCTION OUTPUT
UP TO 50 PZ/MIN

[WATCH 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.



etipack.it



marketing@etipack.it



etipack

PHARMA