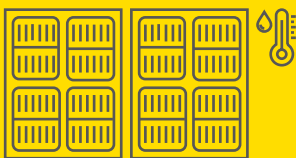


ESSEGI
AUTOMATION

focus on storage solutions

Focus on **storage solutions**

Your intelligent storage
management system



WHO WE ARE



We specialize in **developing advanced systems for storage and handling of components for electronic assembly companies.**

We believe that the success of assembly companies lies in their ability to **ensure continuity of the production process**, which hinges on **efficiently managing material flow** between warehouses and production lines.

This is why we have chosen to focus on developing tailored **integrated solutions for intelligent storage**, designed to meet the unique needs of production facilities worldwide.

■ Focus on **storage solutions**



Our difference

We develop **innovative, open and scalable solutions** for intelligent **storage in electronic production**, 24/7, 365-days-a-year.

Our history

ESSEGI AUTOMATION was founded by a group of specialists in electronic assembly who are passionate about their work and recognized the need for SMT and THT companies to adopt **advanced storage management to reduce inefficiencies in component flow along production lines.**

In 2005, we began developing Intelligent Storage Management (ISM) systems, starting with the prototype of an **automated warehouse** designed for storing and handling reels in dedicated cases.



OUR PRODUCTS



ISM 500 Pick to Light Series

Innovative system for intelligent management of **various types of component storage** through **dynamic warehouses**. The goal is optimizing available space and ensuring complete material traceability. Thanks to an integrated **LED light system**, ISM 500 Pick to Light guides the operator in the extraction and insertion of materials using a **mobile device**.

The warehouse can be equipped with a **dehumidification system** capable of monitoring and maintaining the relative humidity below 5%, and it allows the management and tracking of **external materials** as long as they have a unique code.

ISM Incoming Material Station

Advanced solution for the inspection and storage of incoming materials through an **automated system integrated with all the management software** present in the company, capable of recording all the necessary information to identify the material at its origin.

Through scanning, it is possible to achieve an exact match between the incoming material and the stock availability, ensuring **complete traceability of components** throughout the entire production process according to the quality standards of the electronics industry.



OUR ADVANTAGES



TIME
SAVING

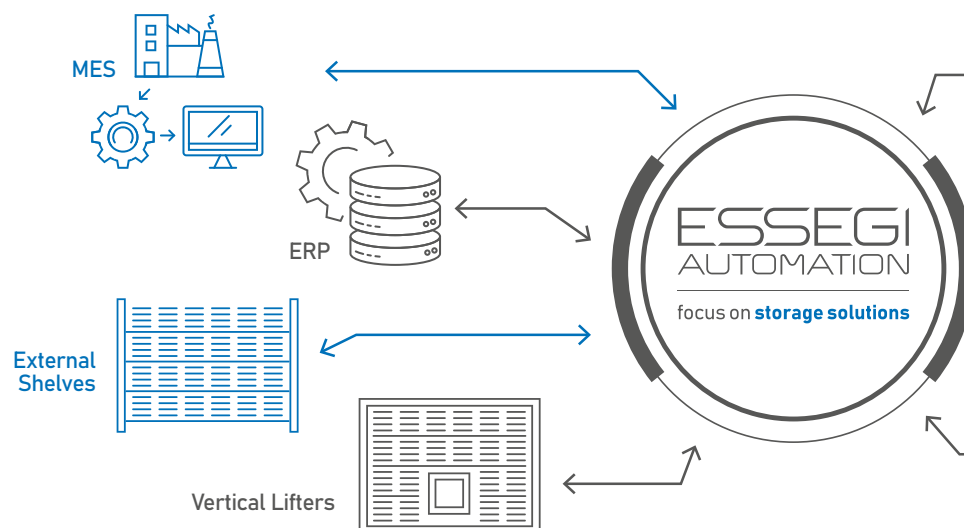


ISM Ultraflex Series

Intelligent storage management system through automated warehouses capable of **tracking and handling** components for organized and efficient supply to SMT and THT production lines. The ISM Ultraflex system is **flexible and open**, **capable** of interfacing with all major management software systems.

The Ultraflex Series includes modules up to 3900 reels, also available in Full Automation versions, with connectivity systems, extensions, carriers, and AMRs.

System integration

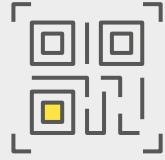




SPACE SAVING



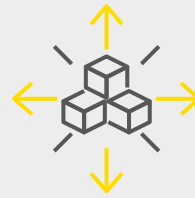
NO HUMAN ERROR



TRACEABILITY



MODULARITY



FLEXIBILITY



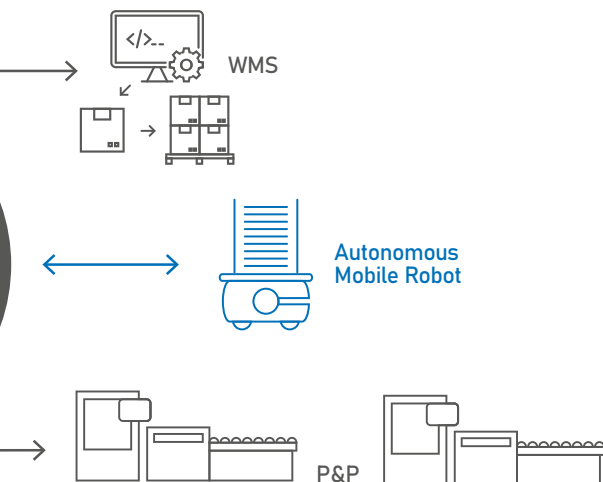
TOTAL INTEGRATION



CASES

Unlike most intelligent storage systems, ESSEGI AUTOMATION's Ultraflex series warehouses use **anti-static and resistant cases for the storage and handling of reels**, ensuring high security and flexibility.

These cases **accommodate reels from 7" to 15" and loose components**, thanks to a system of configurable thicknesses that can increase depth capacity from 8 to 88 mm.



The cases provide:

- ✓ **Guaranteed speed:** 10 seconds of operator time to extract 54 reels
- ✓ **Compatibility with all reels:** damaged, with loose tape, or without vacuum-sealed packaging
- ✓ **Different electronic materials:** reels, Jedec trays, THT components
- ✓ **Safe handling:** stackable in easily transportable kits
- ✓ **Automatic loading:** no operator required

ISM SERVER SOFTWARE

The ISM Server software is the **core management tool for all ESSEGI AUTOMATION products**: the intelligent towers of the ISM Ultraflex 3600 series, the ISM 500 series Pick to Light cabinet, and the Incoming Material Station. In addition to fulfilling the primary

function of **tower control** with **inventory monitoring** and **component traceability**, the ISM Server software has evolved to become the central hub for **advanced integration with all other software systems** in the company.

Key functions

- ✓ Real-time traceability of materials and operations
- ✓ Constant monitoring of humidity and temperature values
- ✓ Management of SMT/THT component inventory (PN and UID)
- ✓ Real-time updates on the status and quantity of each unique ID
- ✓ Work order planning and material selection
- ✓ Analysis and distribution of material pick lists
- ✓ Line stoppage prediction
- ✓ Alternative part selection

Key advantages

- ✓ Material availability at the right place and time without delays
- ✓ Material traceability and expiration management
- ✓ Up-to-date and comprehensive inventory of all available material information
- ✓ Centralized information in a single reference tool



ESSEGI AUTOMATION

focus on **storage solutions**

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