

ESSEGI  
AUTOMATION

focus on storage solutions

# ISM Smart Rack Mobile Pick-To-Light

Dynamic Storage





# THE PICK-TO-LIGHT SMART STORAGE SOLUTIONS CLOSE TO THE PRODUCTION LINES

In many production environments, the proximity of storage systems to the production lines is a key factor for success. **ISM Smart Rack Mobile** is the innovative **Pick-To-Light design solution** for real-time inventory management in the production area.

A mobile smart storage system and an **exceptional ally** in daily handling and supply operations, helping to reduce inefficiencies and **increase productivity**.

# ISM Smart Rack Mobile



**D**esigned to facilitate real-time component management along production lines, ISM Smart Rack Mobile is the **ISM Pick-to-Light smart storage system** on wheels, enabling the **transportation of materials** from the main warehouse or the incoming and preparation area to the production area, addressing all operational requirements.

Thanks to the **automatic cells reconfiguration**, ISM Smart Rack Mobile can store 7" and 15" reels and all other types of materials in its three versions:

ISM Smart Rack Mobile  
**8 Shelves**



Technical data

ISM Smart Rack Mobile  
**10 Shelves**



Technical data

ISM Smart Rack Mobile  
**12 Shelves**



Technical data



# How it works



SM Smart Rack Mobile is an open-shelf storage system, fully **ESD safe** for transporting electronic and non-electronic materials. It operates through advanced ISM integration and is equipped with pick-to-light technology that guides the operator in picking and retrieving components using an RGB lighting system.

## ✓ ISM Module

With the introduction of the Smart Rack module, the ISM software ensures the integration of the cart with all Essegi Automation smart storage solutions.

## ✓ Wi-Fi/LAN Connection

Connected via Wi-Fi or wired LAN to the ISM software, maintaining full traceability of transported materials.

## ✓ Open to integration

Designed for seamless integration and real-time data exchange with any enterprise software system (ERP, MES, WMS, Pick & Place).

## ✓ Configurable spaces

Shelves equipped with movable separators and a patented automatic detection and reconfiguration system based on the stored material.

## ✓ Advanced Pick-to-Light Technology

System equipped with LED RGB pick-to-light technology and a soundbar that guides the operator in extracting and inserting materials.

*For each function, the LED color, blinking type, and brightness can be customized.*

## ✓ Power Autonomy (optional)

The system is equipped with rechargeable batteries, offering up to ten hours of autonomy at full load, ensuring greater flexibility for movement in production environments.

## ✓ Touch Display

13.3" touch display with a simple and intuitive interface for real-time storage management.

## ✓ Integrated Scanner

The system is equipped with a scanner for reading QR codes and barcodes, with a run time connected via cable to the ISM software for exchanging all information related to the item.

## ✓ RGB Signaling System

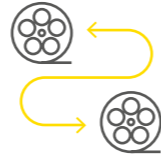
Configurable LED signaling system positioned at the top of the cart, indicating the production line involved in the extraction and the battery status when in use.



# Advantages

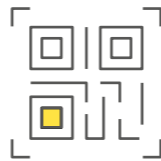
## MOBILE AND AUTONOMOUS

Agile and compact structure, equipped with swivel wheels and handles for transporting materials in tight spaces. Optional battery system that allows fully wireless and mobile operation of up to 10 hours.



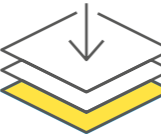
## COMPLETE REAL-TIME TRACEABILITY

The system is managed through a dedicated ISM software module, capable of communicating with all other Essegi ISM storage solutions and the main company software. This ensures complete traceability of components throughout the production flow, from the acceptance phase to the assembled board.



## FLEXIBLE STORAGE SPACES

ISM Smart Rack Mobile offers remarkable flexibility in terms of number and height of each shelf. Shelves each hold up to 64 items and slots can be easily adjusted for trays, bagged parts, PCBs and more. The number and height between shelves can be easily changed with 8, 10, or 12 total per Smart Rack.



## NO HUMAN ERROR

Thanks to the LED Pick-To-Light technology and audible operator notifications ISM Smart Rack Mobile enables real-time control of inventory management and guides the operator in material extraction and insertion operations, significantly reducing the possibility of error.



All the **advantages** of  
**Essegi solutions**  
right next to the  
**production line**



# Features

<b>DIMENSIONS</b>	Length: 1700 mm – Depth: 720 mm – Height: 1970 mm
<b>MINIMUM SPACE BETWEEN SEPARATORS</b>	17.2 mm (for reels with 8 mm and 12 mm tape)
<b>WEIGHT</b>	from 191 kg to 263 kg depending on the configuration and presence of batteries
<b>TECHNOLOGY</b>	LED- RGB, soundbar
<b>EQUIPMENT</b>	Scanner, 13,3" monitor
<b>CONNECTION</b>	Wi - Fi, Ethernet
<b>POWER SUPPLY</b>	AC and battery-powered

### Battery Options:

- **UPS System:** Autonomy up to 40 minutes for standard intensity LEDs, for short movements. Time required to charge up to 90%: 3 hours.
- **Lithium Battery:** Autonomy up to 10 hours with standard intensity LEDs to cover at least one work shift. Charging time: 6-7 hours.

Please note: data refers to an 8-shelves Smart Rack Mobile configuration.

# ISM Software Integration

**E**ssegi Automation has developed a solid **software infrastructure** for the complete traceability of components, from the acceptance phase to the supply of production lines.

Born out of the need for warehouse management and control, the **ISM software** has evolved into a **powerful real-time data exchange tool** with the entire range of **Essegi Automation** solutions and all management systems in the company, from ERP to MES, and Pick&Place production lines.

ISM is a simple and intuitive software capable of acquiring and recording data via handheld devices or image scanning, producing UID labels, and managing external positions. It features an advanced control system, customizable through APIs and tailor-made projects.



**ISM SMART  
RACK MOBILE  
THE VERSATILE  
AND EFFICIENT  
SOLUTION  
TAILORED TO  
THE DYNAMIC NEEDS OF  
ELECTRONIC ASSEMBLY**

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