

## Main function

The PassionIOT SMD Reel Smart Warehouse is an advanced storage solution designed specifically for SMT production environments. It streamlines the storage, retrieval, and management of SMD components, supporting various material types and configurations. By automating material handling, the system reduces errors and enhances operational efficiency.

Its scalable design adapts to evolving production needs, making it ideal for complex electronic manufacturing environments. This flexible system improves workflow efficiency, minimizes manual labor, and ensures precise material management for modern production lines.



## Main Specification:

CATEGORY	PRODUCT PARAMETERS
Equipment Name	SMD Smart Warehousing
Storage and Retrieval Time	5-10 s
Feeding and Discharging Methods	The system enables continuous batch loading and unloading reels from both sides, utilizing robotic arms for automatic material handling. The discharge outlet is designed to support future AGV connections for automated transport to designated unloading points.
Type of Material Packaging	Reel
ESD Rating	Material specifications for surfaces in contact with trays (belts, robotic arms) $10^6 \Omega$ - $10^9 \Omega$
Electrical Parameter	Three-phase 380 V, AC, 50 Hz.
Electrical Safety	Emergency stop switch with safety cover for immediate shut-off in emergencies
Temperature and Humidity Control	Optional dehumidification module for real-time monitoring of internal temperature and humidity
Emergency Response Mechanism	Provides UPS power backup (supports over 30 minutes during outages) and allows manual material retrieval
Barcode Recognition	1D barcode / 2D barcode
Load Bearing Requirement	450 kg/m <sup>2</sup> (subject to actual conditions)