Intelligent Material Rack

◆ Product Description

The intelligent material rack is an SMD material rack with light-guided indication function. Adopting a modular structural design, it facilitates installation and commissioning. According to the control logic, it lights up the tower lights and bin position LED lights of the racks with operational tasks, guiding operators to perform fast and accurate material loading or material preparation operations.

- Intelligent Light Guidance System
- Precise Material Sensing and Recognition
- Strong System Integration Capability
- Intelligent Material Management Strategy
- High-efficiency Design & Reliability

◆ Product Structure

● The main rack of the intelligent material rack is equipped with LED light bars housed in aluminum alloy casings and matched with high-strength chrome-plated carbon steel material reel dividers. It adopts a modular structure and an internal wiring design. The material reel dividers are compatible with material reels of multiple specifications and can maximize the utilization of storage space. the rack can light up the corresponding tower lights and bin position LED lights according to the operation logic, and realize the unique management of each material reel in combination with Reel ID, thus meeting the requirements of FIFO for materials, material preparation error prevention, labor reduction and efficiency improvement.

◆ Typical Applications

● The intelligent material rack is exclusively designed for SMD patch materials in SMT workshops. It accurately indicates material storage locations, quantity and operation status through light guidance, covering the entire workflows including material preparation & picking, material change error prevention, material replenishment early warning, warehousing and inventory counting. It completely eliminates material mismatch and shortage, improves the efficiency of material handling operations, realizes digital management and full-chain traceability of SMD materials, and helps electronic production lines reduce costs and enhance efficiency.

◆ Typical Product Data and Physical Properties

Shell Material: Aluminum Alloy
Reel Separator Mesh Material: High Strength Carbon Steel
Product Size: L2120MM*W400MM*H2000MM
Beacon Size: Φ50MM/H77.5MM
Electrical Parameters: MAX(Output)
Current/Voltage: 10A/5V
Power: 5W per Light Bar
Quiescent Current: 10mA/5V

Model	Standard 7-inch	Standard 13-inch	Trolley Standard 13-inch
Layer Quantity	7 Layers	5 Layers	2 Layers
Standard Storage per Laye	200 Reels for Double-sided Storage	50 Reels for Single-sided Storage	60 Reels for Single-sided Storage
Total Storage Quantity per	1400 Reels	250 Reels	240 Reels

Availability:

Item#	Model	Size	Weight
1.2.21.02.0007	BFN-LGS250	L2150*W400*H1950MM	90kg

◆ Technical and Application Assistance

HORB provides a technical hotline to answer your technical and application related questions.

◆ Note:

This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. HORB data for reference only

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