



Experience intelligent solder paste handling solutions

SMD BOX SP

Intelligent Solder Paste Storage and Management

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SMD BOX SP



SMD BOX SPC

SOLDER PASTE

Solder paste is composed of metal solder particles and flux. The flux not only serves to clean the solder surface of impurities and oxidation, but also provides a temporary adhesive that holds the surface mount components in place. The solder powders used in solder pastes can vary in their chemical composition, using different material types and percentages depending on the needs of the board being soldered.

Solder pastes are available in both leaded and lead-free versions to meet the requirements of the Restriction of Hazardous Substances (RoHS) directive. Solder pastes are also classified according to the size of the metal particles that make up the solder powder. These particles must be spherical and can vary in size according to the type criteria specified in IPC J-STD 005.

WHY SOLDER PASTE MANAGEMENT

The complex combination of solder pastes requires certain properties to be successful. Without proper handling, there is a potential risk that the chemistry will begin to react before it is used. Solder paste must be thixotropic during the printing and component placement process. It must also maintain a certain level of tackiness to hold the component in place during reflow soldering.

Solder paste goes through several handling and production processes. After shipping, the solder paste is stored and printed before being heated during the reflow process. Reflow involves four sub-processes: preheating, soaking, reflowing and cooling. At different stages, the chemical composition changes due to evaporation and melting of the alloy.

AUTOMATION

SMD BOX SP from Neotel Technology revolutionizes solder paste management. It has a fully automated in/out function for seamless receipt and storage of solder paste. Its advanced agitation function ensures the quality and effectiveness of the solder paste. In addition, the automatic management function makes material control more convenient and efficient.

SEAMLESS INTEGRATION

SMD BOX SP can be seamlessly integrated with customers' MES and other systems for better material control. Its related software or applications are designed to be simple and easy to use, allowing users to quickly master its operation and easily achieve efficient management.

SCHEDULED INVENTORY MANAGEMENT

SMD BOX SP's timed appointment feature enhances efficiency and material management. Users can reserve a retrieval time for solder paste, and the system prepares the paste at the scheduled time, thus greatly reducing the time for material finding and preparation. This timed retrieval method reduces human resource consumption and increases productivity. It also reduces unnecessary costs caused by mishandling or waste, resulting in better material management. With SMD BOX SP, you can optimize your production process and increase efficiency.



INTELLIGENT CONTROL

The SMD BOX SP makes operation easier with an advanced control and monitoring system. Users can easily set system parameters, perform timed retrieval and other operations through an intuitive interface. The system's real-time monitoring function provides key information such as solder paste storage status and stirring condition, helping users to keep abreast of system operation.



TECHNICAL SPECIFICATION

ITEM	SP	SPC
Solder Paste	Yes	Yes
Glue	Yes	Yes
Jar	Yes	No
Cartridge	Yes	Yes
RFID Relabing	No	Yes
RFID Reading	No	Yes
Barcode Recognition	Yes	Yes
Loading Capacity	30	20
Unloading Capacity	1	5
Refrigeration Area	Yes	No
Temperature Range	0~10°C, adjustable	No
Capacity	210	No
Temperature Monitor	Yes	No
Ambient Temperature Area	Yes	Yes
Capacity	60	126
Mixing Area	Yes	No
Capacity	2	No
Mixing Timer	Max 90min	No
Weight Scaler	Resolution 0.1g	No
Touch Panel	Yes	Yes
Software	SMF Standard	SMF Standard
Connectivity	API	API
Dimension(mm)	1450*1510*2650	1340*1210*2090
Power Supply	Single phase AC200V- AC240V	Single phase AC200V- AC240V
Power	3KVA	3KVA



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