FactoryLogix®

Software for Manufacturing Operations

L Logistics

Optimize and assure material flow and monitoring from the warehouse to your lines and back.

A quality, efficient manufacturing process requires raw materials to arrive at the right location at the right time. FactoryLogix monitors and reacts automatically to materials demand from the lines, manages line changeover, assures proper setups, and provides ERP unprecedented visibility to quantities factory-wide.

Line Changeover Optimization

Feeder setup changeovers impact equipment utilization and ultimately overall equipment effectiveness. It is a fairly complex task to realistically plan build orders and allocate them to the available production lines with a minimization of changeovers. FactoryLogix' line changeover optimization solutions address these challenges. With awareness of the available machines and the lots to be produced, it determines setup groups that are then distributed to the appropriate lines. As a result, each line has an ideal setup. In order to attain these results, FactoryLogix knows all the machine parameters to the letter and is thus in a position to adjust setup programs for individual boards, so that setup clusters are created across a variety of assemblies without a single change-over.

LED BIN Recipe Generation

LED lighting is found in more and more products and industries. They offer a unique assembly challenge in that a delivered LED part has different brightness index numbers (BIN). Depending on its BIN level, different current limiting resistors have to be used to achieve comparable brightness. The result is a specific assembly program for every combination of LEDs with their varying BINs and resistors. Because of several million possible combinations, this is a manually unsolvable task. FactoryLogix' LED BIN recipe generation solves this challenge by updating program file content for a given work order, permitting for routine machine setup and execution..

Incoming Material Identification

Before material can be verified on the floor and ultimately provide product content traceability, each received material instance must be properly labeled and identified. Whether labeled prior to or after receipt, FactoryLogix offers a variety of highly automated solutions for capturing and identifying each item, down to its lot number. It offers intelligent operator guidance for scanning specific vendor labels, where their content and sequence varies from vendor to vendor. New labels may be generated for each item for consistent labeling of all stocked material. For material registered in external systems, FactoryLogix also offers integration solutions for direct acquisition of received material.

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Warehouse Management

Minimizing stock levels is a key driver for controlling inventory costs, although it breeds greater challenges. It often limits sufficient reaction time for urgent orders with greater material needs in the short term, and this issue increases for components with longer lead times. Moreover, additional purchases may be unnecessary but the lack of true production visibility makes the components difficult to locate on the floor. Warehouse management is core to FactoryLogix' logistics support, providing material and location awareness with knowledge of each material's existence, stock location, and its present quantity. Through integration, it provides efficient and instant delivery of kitted material from automated carousels and towers. Material awareness stretches across the factory and its assembly lines, where components that should be available with a sufficient build quantity are in use somewhere else on the floor.

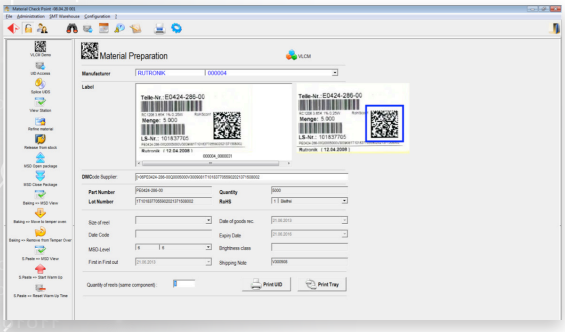
MSD Management

More and more moisture sensitive devices find their way into the electronics manufacturing. These devices are divided into different JEDEC level classes, according to the IPC/JEDEC J-STD-020C standard. The level determines long a component may remain unpackaged and open in a normal humid environment until it is rendered unusable. Moisture sensitive devices (MSD) require proper handling and storage prior to its use in assembly. FactoryLogix supports the process of storing moisture-sensitive material in dry storage or bake ovens as well as tracking its removal.

Feeder Maintenance

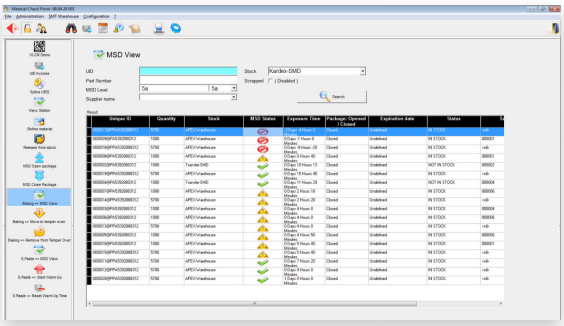
Perform feeder maintenance within FactoryLogix with automatic indication of error rates and timeouts. Controlled process execution, quality, test, monitoring and routing factory-wide.

Incoming Material ID



Operators are visually guided to scan barcode content found on vendor labels for incoming material. They then print a label containing a unique identifier for tracking each material instance as used on the factory floor.

MSD Management



View moisture-sensitive on-hand inventory and identify, with insight to its remaining exposure life.

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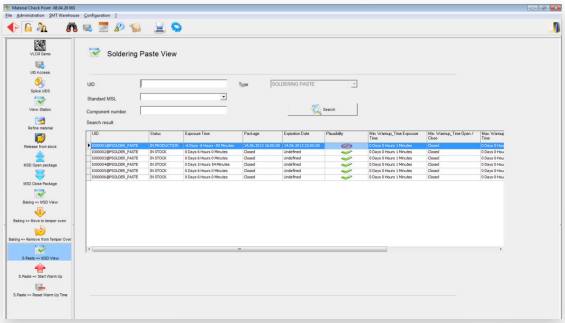
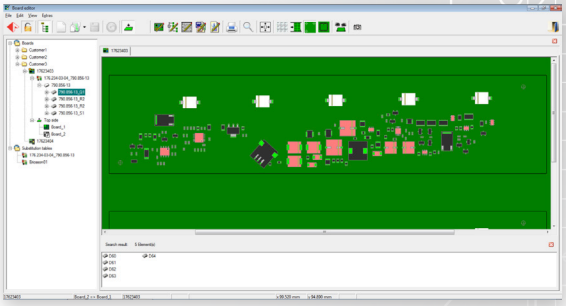
Solder Paste Management



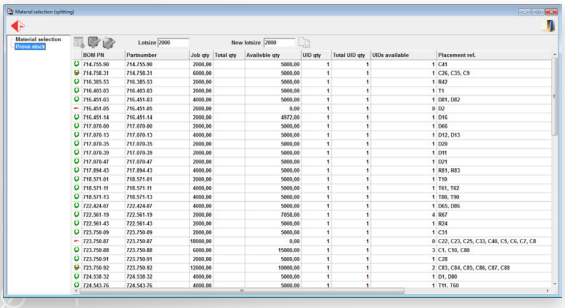
View solder paste and other refrigerated material inventory, with insight to its availability.

LED BIN Support



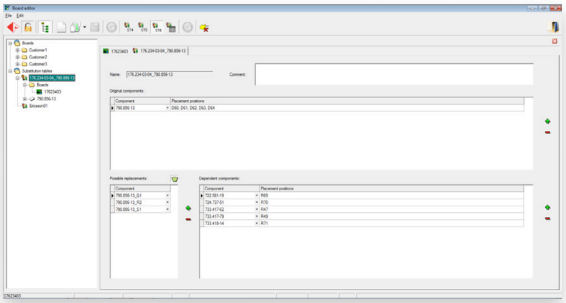
FactoryLogix's LED BIN support provides visual reference to the installed LED locations and the related locations for their component complement.

Material Planning



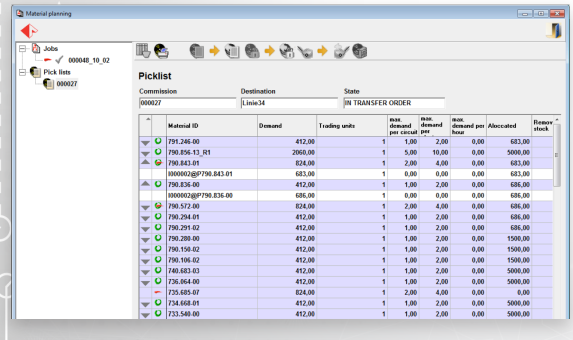
Review on-hand inventory levels to satisfy build quantities for assembly work orders.

Material Availability



Import or create LED BIN substitution lists to relate a given LED BIN level to its related component complement and their installed locations.

Material Pick List



Identify material shortages (either full or partial) from work order pick lists.

For more detailed information or to request a product demonstration visit us online.

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