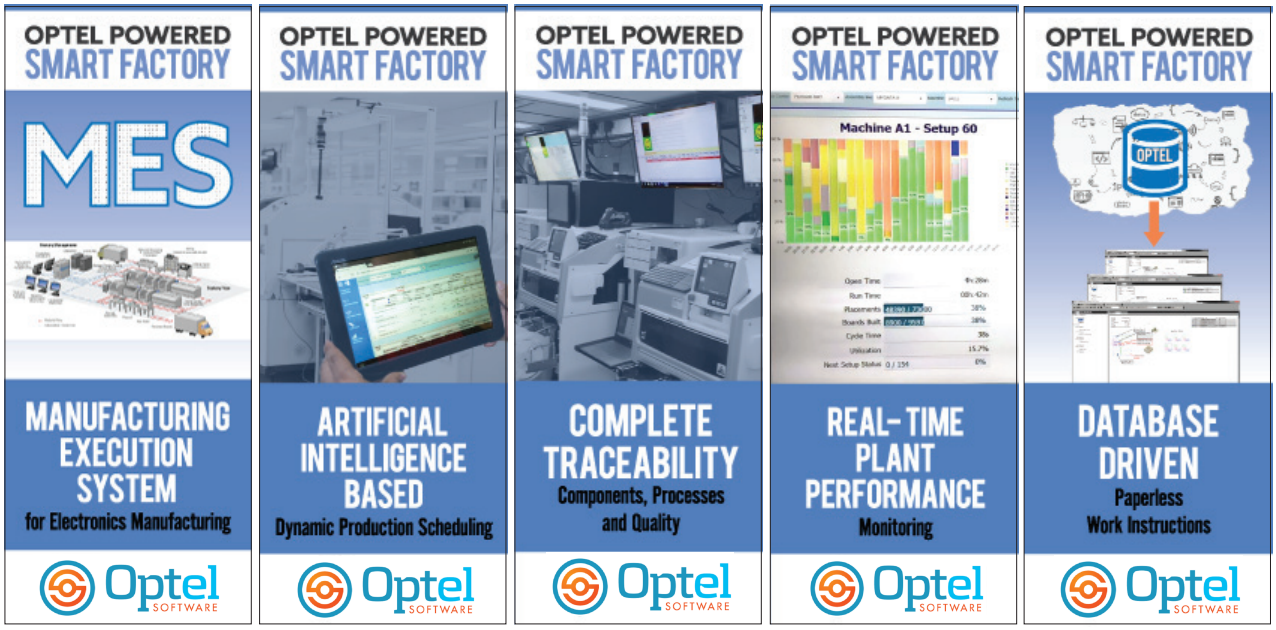
OPTEL POWERED SMART FACTORY

Optimal Electronics Corporation provides innovative smart factory solutions for electronics manufacturing. Our Manufacturing Execution Software, Optel, controls processes in electronics manufacturing plants, from materials management, production scheduling, machine programming, through component, process, and quality traceability.



OPTEL BENEFITS:

Maximize Equipment Utilization – "Keep Machines Running Longer and Faster"

- Minimize number of setups and total setup time, improve machine optimization, and eliminate all problems that keep machines from placing parts.

Eliminate Materials Management Problems

- Real time and accurate tracking of material location and quantity, and consumption and scrap feedback to ERP for inventory adjustments.

Provide Real-Time Insight Into Production Performance

- OEE calculation, machine performance monitoring by hour, shift, day, and downtime reason capture and reporting.

Provide Comprehensive Traceability Solutions

- Level 4 component, process, and quality traceability as defined by the IPC-1782 Standard for Manufacturing and Supply Chain Traceability of Electronic Products.

Reduce Labor Cost

- Eliminate non-value added activities and reduce total head count.

Optel SOFTWARE

OPTEL POWERED SMART FACTORY

OPTEL FEATURES:

Assembly Data Modeling
- CAD and BOM Import and Data Definition
- Stencil Design Analysis
- Off Line Selective Solder Machine Programming

Productivity Improvements
- Dynamic Production Scheduling and Control
- Machine Optimization and Programming
- Global Component Library
- Engineering Change Management

Real Time Performance Monitoring
- OEE Calculation
- Real Time Machine Performance Monitoring
- Duty Cycle Based Feeder Maintenance

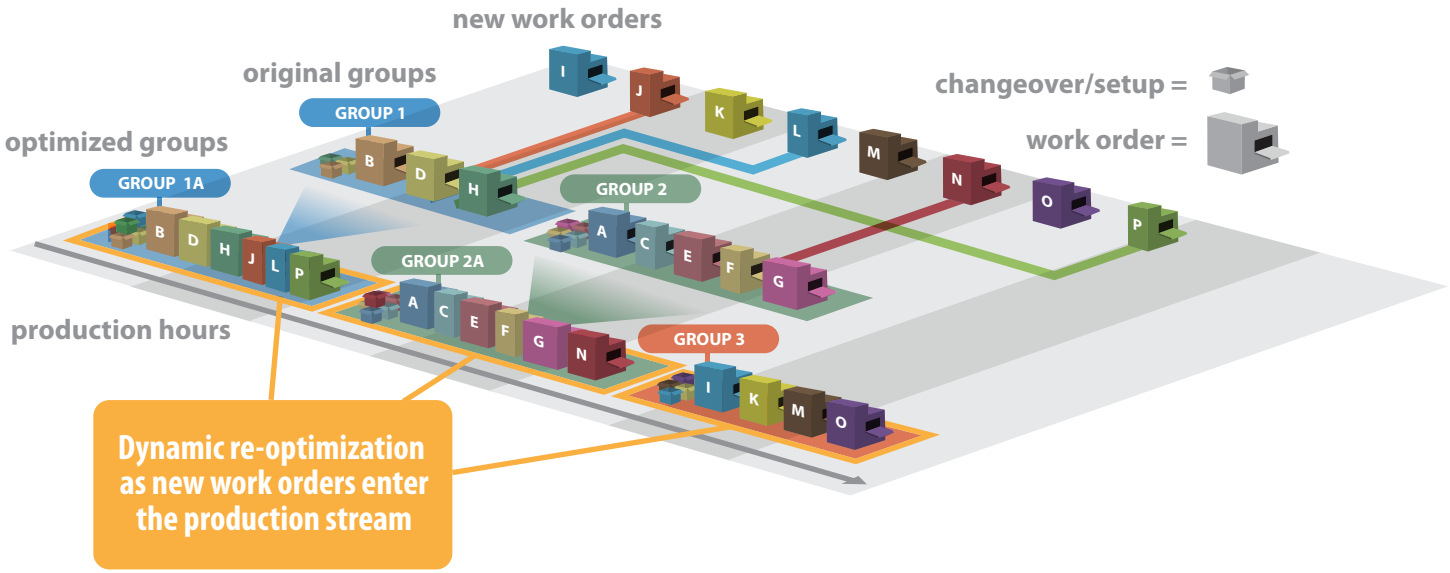
Complete Materials Management
- Material Receiving, Storage and Kitting
- Electrical Component Verification
- Off Line Setup and On Line Setup Verification
- Electronic Kanban
- Moisture Sensitive Component Tracking
- Component Scrap Reporting to ERP

Component Traceability
- SMT Component Traceability
- Manual Insertion Component Traceability
- Box Build Component Traceability
- RMA/Repair Component Traceability
- Die Attach/Wafer (Clean Room) Traceability

Paperless, Dynamic, and Database-Driven Work Instructions
- Routing Document (Traveler)
- Line Setup Document
- Machine Setup Instructions
- Screen Printer Setup Instructions
- Reflow Oven Setup Instructions
- Database-Driven Graphical Work Instructions

Routing Enforcement and Process Traceability
- Routing Enforcement
- Process Data Collection
- Process Traceability Reports

Quality Management and Traceability
- First Article Inspection
- Visual Inspection
- Defect Data Collection and Traceability
- Defect Repair Loop



Optimal Electronics Corporation
13915 Burnet Road, Suite 312
Austin, Texas 78728 USA

(512) 372-3415
Email: info@optel.com
www.optelco.com

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