

FMCG and PC&IS Capabilities

India | USA | Italy | Japan | UK | Germany | France | Spain



Solutions for the FMCG industry

The fast growing, multi-billion dollar FMCG industry is agile, marketing savvy and innovative in terms of its products today. Customers' increasing demand towards product sophistication, cost-consciousness and technical advancements have propelled companies to adopt newer strategies before engineering their products and automating product lines. Companies have also adopted aggressive market penetration strategies suited to their geographies & cultures.

The dynamic nature of the FMCG business makes organizations constantly challenge norms, innovate for consumer benefits, and be proactive towards changing market demands. A competitive

FMCG organization not only needs to be quick to gain the first-mover advantage, but also mend new ways of automating the processing cycle and cut production costs by reducing operational and material costs.

QuEST Global understands the need to change Engineering and Automation methods, and also the requirement of sophistication in process, packing and product lines. QuEST Global deploys great support to the market through its unique 'local-global' concept, to help customers go that extra mile and emerge the winner in highly volatile times.

Solution #1



Size Change Part Design

- Change part design and BiP for liquids and dry laundry
- Fabrication management / support for size change part across the globe

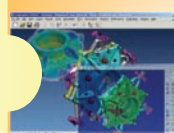
Solution #2



Equipment Design

- Equipment design
- Equipment standardization
- Equipment sustenance
- Line sustenance
- Line Integration

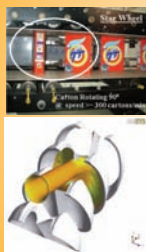
Solution #3



KBE

- Standardization of product using knowledge based engineering approach
- Virtual performance and reliability prediction

Solution #4



M&S Support

- Package stability analysis
- Size change part design validation
- FMEA and optimization of equipments
- Optimization of Distribution Systems

Solution #5



PC&IS Support

- Control and automation systems design
- Motion & positioning systems
- Control logic dev. PLCs
- PC&IS sustenance support

Solution #6



Site Engineering

- Retro Engineering of equipment / line
- Line design & standardization
- Equipment up-gradation
- Line up-gradation

Our PC&IS Support Capabilities

Control & Instrumentation Engineering



Control, Automation, Motion and Positioning Systems Design



PLCs

- Selection, Panel Design, Programming
- System Engineering - Field Bus, Integration & Data Collection



DCS

- Work Station Config; Process Logic and Graphic Development
- Integration with PLC

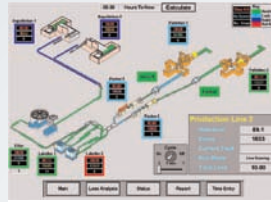


SERVO & VFD

- VFD Selection, Panel Design, Application Design & Integration
- Control PLC Programming (Single & Multi Axis)
- Electronic Operator Interfaces



Line Event Digitization System (LEDS)



Maple Upgradation

- Cause Model Updation
- Version Upgrade & Validation
- Line Linking

Proficy Upgradation

- Similar Support as Maple

PLC Programming

- Program PLC Rockwell/Mitsubishi/Siemens

SCADA & HMI

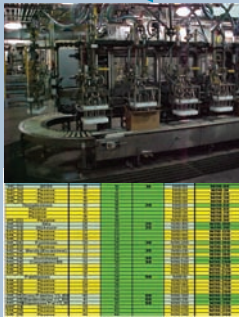
- Work Station Config.
- Graphic, Cabinet Design and Integration with PLC
- Alarm Handling and Event Logging

PC&IS Sustenance

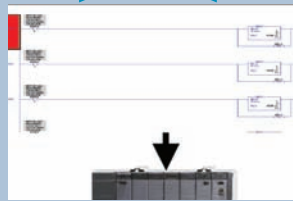
- Downtime accuracy, Failure Mode Analysis
- Virtual Emulation
- Troubleshooting

Case Brief: LEDS Upgradation Support

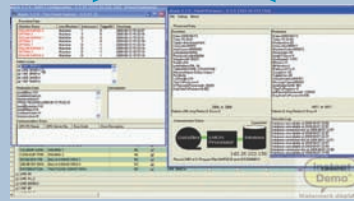
Pre-Work



PLC Programming / Data Collection



Configuration & Line Linking



Virtual Emulation & Online Validation



Standardization of LEDS Platform across the Globe

Pre-Work

- Alarm List Preparation
- Preparation of Function Block Diagrams
- Machine Boundaries, Grouping
- Cause Model Development
- Preparation of Line-Machine-Signal Diagrams

PLC Update / Programming

- Change Machine Numbers, Change PLC Cause Numbers in CM
- Modify PLC - Rockwell/Mitsubishi/Siemens
- Capture and Analyze Downtime (Failures, Blocked, Starved)
- Production Counting (Source, EOL)
- Actual Line Rate
- RS Linx OPC Topics/Item Creation
- Maple.INI File Creation/Updates

Configuration & Line Linking

- Cause Model Configuration - Equipment (Line-Machine)
- Products (Lines, Brandcodes, Target Rates, Ideal Rates etc.)
- OPC Download Functionality, if required
- Line-Workstation Config.
- Line Linking Flowcharts
- Line Linking Rules
- Rules Configuration in Green Maple Admin. Tool

Validation

Virtual

- Study PLC Programs, Layout & Line Logic
- Map I/O Tags for Line C9
- Validation for Using RSLogix Emulate 5000

Online

- Accuracy - Downtime Data (Timestamps, Lengths etc.), Production & Scrap, Line Rate, PR & MTBF Measures
- Maple Reports vs. Reality Checks, DMS-Scorecards
- Micro-stops, Fake Stops Elimination

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