

Statistical Process Control and Statistical Quality Control

Product

- ▶ Epicor® Mattec MES

Benefits

- ▶ Respond to conditions before producing bad parts
- ▶ Conform to quality standards
- ▶ Avoid charge-backs and defect penalties
- ▶ Drive continuous improvement into quality programs

Improve Your Quality Management Program

Timely feedback and preemptive response with SPC, certifiable quality levels with SQC

Statistical process control (SPC) and statistical quality control (SQC) with Epicor Mattec MES use real-time, automatic data to help you respond to production conditions before making bad parts. SPC and SQC with factual data enable consistent results without constant oversight. They compare cycle time and process data to control the limits you set—providing rich, instant information to machine operators, quality and reliability engineers, and maintenance professionals. SPC and SQC feature:

- ▶ Mattec MES operator interface embedded in the system
- ▶ Easy operator interface for setup, alarming, and correction
- ▶ Sophisticated modeling tools

Any machine that feeds production and process data into your Mattec MES system can benefit from the Mattec SPC and SQC capabilities. It's capable of receiving any kind of data from machines—cycle time, temperature, pressure, weight, dimensions, or any other kind of measurement. Set and record process parameter control limits for each attribute, and specify sampling criteria. The system automatically administers data samples and alerts for out-of-spec conditions. It applies statistical analysis to process conditions, so operators get an alert—even before things run out-of-spec—that something is trending negatively.



Do more for quality management than gather data

With Mattec MES, statistical analysis is easy and accessible because it's automated and visual. Epicor eliminates the need for a statistician—or even advanced mathematics training—to put SPC and SQC to work for your company. SPC and SQC do all of the work in the background and serve up visually intuitive graphs and charts that are designed for fast, easy understanding by operators and engineers alike. Complete, accurate, and automated

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data collection—combined with powerful analysis in a meaningful format—empowers people at every level to use statistical analysis to plan, respond, or react to ensure quality. The Mattec MES SPC/SQC module supports:

- ▶ Automatic process samples
 - ▶ Intermittent or batch checkpoints
 - ▶ Continuous background analysis and computations
 - ▶ Process exception alarms
 - ▶ Real-time quality displays for operators and managers
 - ▶ Linear regression analysis
 - ▶ Exception logs and reports
 - ▶ Control of limit calculation
 - ▶ Statistical analysis historian
 - ▶ Any kind of MRO activity like cleaning, changing parts, taking measurements, making adjustments, performing inspections, and others
 - ▶ Adjustment of production schedule automatically for PM/MRO
 - ▶ Machines, tools, auxiliary equipment, and another types of assets
 - ▶ Tasks, schedules, and requirements from ERP, MRP, and maintenance systems
- Key features of the Epicor Mattec MES SPC/SQC module include:
- ▶ Automatic part qualification and rejection
 - ▶ Automatic random data sampling and calculation
 - ▶ Prompt for manual samples and measurements
 - ▶ Built-in X-bar, Pareto, range, histogram, and other charts
 - ▶ Report configuration and viewing choices
 - ▶ Real-time alert notification for non-compliance



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