Solarsoft’s Mattec system provides real-time monitoring and control for your production and process manufacturing operations. The system is specifically designed to provide significant benefits to injection molding manufacturers, in other words -- you.

The Mattec system improves productivity by providing you with accurate 24/7 real-time manufacturing information of all your plant operations. With Mattec, you gain visibility into the manufacturing performance of your plant or the entire enterprise, enabling you to work more efficiently and profitably, and make better decisions based on accurate information.

Mattec helps you reduce scrap, waste and machine downtime, improve your cycle times, Overall Equipment Effectiveness, plant productivity and automatic part qualification, and schedule your production effectively. Mattec helps you become proactive in your manufacturing operations, and helps anticipate and solve manufacturing problems before they occur. Helping you identify resource inefficiencies, Mattec let’s you do more with your existing resource and find new capacity.

Gain a competitive edge for your lean manufacturing and Six Sigma initiatives with Solarsoft’s Mattec manufacturing execution system!
LEADING MANUFACTURING EXECUTION SYSTEM PROVIDES MEASURABLE SAVINGS FOR INJECTION MOLDERS

MANAGING FAMILY-OF-PARTS MOLDS AND COLOR CHANGES
Family molding can be a real challenge, and not all manufacturing execution systems are able to handle these complex scenarios. Solarsoft’s Mattec system is designed to help you control the scheduling and cost reporting for all the different parts made within a family.

- Effectively monitor the scrap and costs associated with each individual part within the family
- Run uneven batches of parts and scrap parts individually
- Plan proactively with system alerts for tooling conflicts and color change information
- Eliminate unnecessary wait time and inefficiencies

REAL-TIME VIEW INTO PLANT AND ENTERPRISE OPERATIONS
Do you ever wonder, ‘what is happening in my plant?’ With Solarsoft’s Mattec manufacturing execution system, you can see your actual machine and plant performance in real-time, and monitor every machine cycle 24/7. The system helps you immediately identify production issues, and drill down to machine-level details.

- Displays down machines, process alerts, operator assistance calls, and inefficient machines
- Reports actual production and scrap rates, for the plant or the entire enterprise
- Verifies and compares actual cycle times to standard cycle times
- Performs continuous real-time OEE calculations
- Displays products made, scrap and downtime percent, yield and cycle efficiency information
- Real-time machine and tool preventive maintenance information
- Immediate alerts if manufacturing conditions are not met (e.g. if temperature or pressure falls out of variance)

OPERATOR INTERFACES - MIU & OPC
The easy-to-use operator interface options, Machine Interface Units (MIU) or OPC connections provide an easy way to put you in control of your shop floor. The versatile MIUs can track every phase of your manufacturing operations and help you identify sources of inefficiency and waste. MIU functions include operator labor and productivity displays, quality and process control setup sheets, scrap and machine downtime reason entry and machine setup documents. The new Mattec OPC technology is specifically designed for injection molders, and will integrate with virtually any brand of injection molding systems.

REAL-TIME PRODUCTION PLANNING AND ALARMS FACILITATE BETTER MANUFACTURING OPERATIONS
Monitoring every cycle and every machine, plant or enterprise-wide, Solarsoft’s Mattec system alerts you immediately when process and machine conditions deviate from standard, helping you solve production issues immediately. Mattec’s drag and drop real-time scheduler provides management with a view of what’s happening on the shop floor in one plant, or all plants across the entire organization.

- Maximized machine loading and minimized downtime
- Drag and drop visual scheduling board including real-time updates based on machine run times and downtime
- Family molding and Kanban scheduling
- Extensive management reports available for performance vs. schedule, labor forecast, tool conflict, job and part history
- Real-time alarms for machine stops, cycle speed variations, efficiency rate drops, and scrap rate increases
- Automated machine alarm notices, operator help calls and machine preventive maintenance alarms
- Detailed logs for alarm, scrap data and down machine tracking

WE SET GOALS EVERY YEAR ON DECREASING OUR SCRAP AND DOWNTIME. IN THE THREE YEARS, WE’VE DECREASED OUR OVERALL DOWNTIME BY 1% PER YEAR AND INCREASED OUR OVERALL EQUIPMENT EFFECTIVENESS (OEE) BY 1% PER YEAR.

We’re averaging 99% efficiency against our cycle time, and where we used to be 5% scrap, we’re now at 2% or lower.

Sabrina Guyard - Processing Canplas