

Real-Time Visualization - Bottling Case Study

Bottling Line	Job Queue	6PK Ct	12PK Ct	24PK Ct	Job % Complete
Line 1	A4141	2514	0	0	85%
Line 2	D1618	0	1613	0	55%
Line 3	C6213	0	0	91	28%
Line 4	G2331	56	0	0	15%

Fault-Line 1 copper safety gate 13 open

Production Need

The production manager of this brewery's bottling department had already implemented a data collection and reporting system that would allow any member of the management team to enter the bottling department and be able to determine the production status of all bottling lines and current SKU's within two minutes. Management also wanted to extend this production information to the plant floor, along with displaying fault information so the plant floor workers could respond in real-time. As part of this company's commitment to Lean Manufacturing, an Andon system using LED displays and SeQent's Marquee Manager product was selected.

Display Solution

Management elected to use three double-sided Windows® 2000 based LED displays. They were placed in three separate strategic locations where they could be viewed from any area in the bottling department. Key data regarding job percent complete, production volume per line, and alarm status were presented real-time via the SeQent Marquee Manager product. An added benefit included the ability for all line workers to view data on all bottling lines so that they may assist line managers as production issues occur. This collaborative effort supported this brewery's focus on team building and increased their flexibility in the working environment.

Data Flow

Some production data and batch information was being collected and managed by a third party data collection and reporting software system and were displayed via SeQent's Marquee Manager Gateway for ODBC and OPC on the LED display boards.

ROI

The total system cost including installation, training, integration, hardware and software was just under \$100,000. Reduced production overruns (reduced inventory), quicker changeover times, and improved machine uptime due to quicker fault acknowledgments, produced enough savings to provide a 30-60 day return on investment.