



SunnyD Uses LLumin CMMS+ to Keep Manufacturing Lines Humming, While Handling Safety & Regulatory Compliance

Decade-long Partnership Enables Juicemaker to Extend Manufacturing Asset Lifetimes at Five Plants

Sunny Delight Beverages Co. is the creator of SunnyD®, formerly known as Sunny Delight. With five manufacturing plants in North America, the company is owned by Harvest Hill Beverage Company and headquartered in Cincinnati, Ohio. It is a leading producer of juice-based drinks, including the brands: SunnyD®, Veryfine® juices, Fruit2O® flavored waters, and Elations glucosamine and chondroitin dietary supplement.

SunnyD faces a variety of challenges, similar to manufacturers of complex products. The company must keep equipment on production lines operating safely to prevent injuries and comply with Occupational Safety and Health Administration (OSHA) regulations. The equipment must be well maintained so it runs at peak efficiency to avoid unplanned downtime, diminished production, or have issues with poor product quality.



Beyond those traditional manufacturing concerns, food and beverage producers face additional challenges. Production problems and downtime can result in raw materials, basic ingredients, and final products spoiling. And in addition to normal safety requirements, financial reporting and transparency regulations, a food and beverage producer also must comply with U.S. Food and Drug Administration (FDA) regulations such as the Food Safety Modernization Act (FSMA).

One way many companies in the industry address these issues is the use of technology including, asset management and materials tracking software offered by LLumin. SunnyD has relied on LLumin's expertise and solutions for more than a decade. In particular, LLumin's CMMS+ helps reduce costs and bolsters regulatory compliance via its identification and comprehensive monitoring of tools, components, and materials. LLumin's CMMS+ controls, manages, and accurately tracks inventory, stockroom checkouts and returns, and all facets of warehouse administration. The



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software provides a company-wide view of stockroom items, and its new 3D view lets managers see down to the shelf level to locate items. Additionally, utilizing sophisticated eProcurement-based ordering, fulfillment, and usage tracking, labor-intensive and time-consuming tasks--are simplified.

LLumin's CMMS+ is a powerful, flexible solution designed to transform the way executives and directors manage maintenance operations, their staff and inter-departmental information workflows. LLumin's software reduces machine, production, and operations downtime. Compliance and regulatory paperwork become as simple as pressing a button on a keyboard.

The software makes use of Internet of Things (IoT) technology for predictive maintenance. This is a game changer for operations in that maintenance staff can monitor the state of every asset in real-time. Combining this and a rules-based expert system lets LLumin's CMMS+ users know when there is the potential for failure so that proactive maintenance steps can be applied, thereby minimizing machine downtime.



SunnyD's Approach to Maintenance

LLumin's software is powerful and versatile enough to help every type of organization. SunnyD, like many food and beverage producers, in addition to state-of-the-art equipment, also has lots of legacy equipment in its plants. LLumin's data collection and condition assessment tools leverage mobile technology to monitor these machines daily, reducing downtime, improving the efficiency of maintenance operations, and critically important, extending the life of the equipment. Keeping production lines running and abiding by food and worker safety regulations is the responsibility of the team that supports maintenance, repair, and operations (MRO). To assist in these operations, the company has used LLumin's CMMS+, asset management software for more than a decade. LLumin's software plays a key role in several operations areas helping to reduce machine downtime and optimize parts and tool inventory, while ensuring compliance with Occupational Safety and Health Administration (OSHA) and Food Safety Modernization Act regulations.

Preventing Downtime

Using a time-based periodic maintenance (PM) approach, plant managers can see when they need to do the inspections and preventive maintenance. The system lets them know next Tuesday, they need to look at assets X, Y, and Z. LLumin's CMMS+ offers the ability to supplement a time-based PM strategy with machine utilization, or machine usage based recurring tasks. Now, maintenance personnel can choose to inspect or PM an asset after a specific number of hours of use, or miles of use, or parts produced, etc.

Companies that use equipment and machinery that are connected or "smart" can also benefit by using LLumin's CMMS+ integrated machine interface which employs real-time conditions to trigger proactive and predictive corrective actions or notifications. Rather than only using manufacturer recommendations and PM schedules, predictive maintenance monitors for telltale conditions from the machines themselves. This real-time data is used to indicate if a part may truly soon need replacement. This data is also used to understand when an action is not needed.

Of course, using either method is only effective if the needed resources exist and are available at the time of the scheduled work or trigger event. LLumin software provides a comprehensive set of functionalities that can be used to ensure the proper list of needed parts and tools are staged, and then available at the right time, in order to comply with scheduled work policies. The software procurement platform integrates



with SunnyD's ERP system (Microsoft Dynamics AX) and gives management visibility into demand and accurate details on what to procure and when, so that all needed supplies and services are available when the maintenance is due.

For example, when a part or tool must be ordered, the LLumin software automatically creates a "request-to-purchase" order. This document can be routed for approval or automatically submitted to Dynamics AX for purchase order placement. Either way, this integration into the organization's financial system ensures that whatever resources are required are delivered on time, thereby eliminating, or substantially mitigating downtime.

"Having the part on hand for scheduled maintenance is critical," said Steve Verret, who manages application support at Sunny Delight Beverages and supports MRO at the company. "It's a waste of time if we do not have the part on hand and it throws our maintenance schedule for the entire plant off track or even worse."

Lowering the Cost of Inventory

Optimizing inventory is a constant struggle for maintenance organizations. Not having a part on hand for an inspection can result in downtime while waiting for the part to arrive. Conversely, having too many parts in stock ties up a firm's capital in unnecessary inventory. The cost of carrying unneeded inventory is high and goes against the industry's JIT philosophy.

Like most managers in his position, Verret says, "We were trying to limit the number of parts in the storeroom, while having the right parts just when we need them."

This extends throughout the enterprise. In the past, a manager would only be aware of the parts in a local storeroom at the plant. With LLumin, "now we can see across the company," says Verret. "If another facility has a needed part in its storeroom, the part can be transferred." That saves the cost of buying an additional spare part that the company already owns.

OSHA and FSMA Compliance

For all MRO work orders, there are certain procedures that must be followed. LLumin automatically exposes lockout/tagout procedures and any required safety permits in order to safeguard employees from the unexpected. If a contractor does the job, they get all the safety documents, as well.

And all of these critical documents are available on mobile devices and smartphones. With or without Wi-Fi, these documents are available on demand while working on a piece of equipment. Any information, annotations, or comments entered into the app on the plant floor are automatically synched when the workers return to their offices and have a Wi-Fi connection.

A Longterm Partnership

Many companies sell software and are gone once the purchase is made. Verret has been working with LLumin for more than a decade.

Using LLumin has made an impactful difference. "Before, we had to go to the main screen to get results and then backtrack. With LLumin, we can get to any screen to get information about an alert or to drill down to a specific asset, component, or even part, in the plant. The team here likes it because it is easy to use, and it lets them intuitively filter data to get the information they need. Plus, dashboards of information on everyone's home page gives us critical info the instant we login. All of this saves us a huge amount of time," said Verret.

Bottom Line

SunnyD, like all food and beverage manufacturers, faces day-to-day challenges in keeping production lines running, reducing interruptions, and ensuring the safety of its employees

maintaining the equipment in its plants. For nearly a decade, they have relied on LLumin as a trusted partner that provides both technology and industry expertise.

LLumin's software allows SunnyD to efficiently carry out a proactive maintenance strategy for reducing downtime due to a machine failure. Better still, the product suite also prevents downtime due to parts failure. Thanks to the software's ability to seamlessly integrate with the company's ERP system, plant managers are assured that parts, which might need to be replaced, are on hand when needed. This prevents downtime that would be incurred waiting for replacement parts to arrive



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