

UV LED Curing for Fruit Packaging Label Printing

Investment in UV LED Curing Improves Packing Line Speed and Label Print Accuracy

Monson Fruit Company is a vertically integrated grower, packer, and shipper of high-quality fruit, based in Selah, WA. Their current product mix includes apples, cherries, apricots, peaches and pears. A philosophy of continuous investment in the expansion of state-of-the-art production lines and controlled atmosphere (CA) storage facilities has enabled Monson Fruit Company to consistently deliver high-quality fruit to the global marketplace 365 days a year. The technology used for each line has been engineered to efficiently prepare, sort and pack specific types of fruit to precise criteria. As part of the packing process, Monson Fruit Company has integrated UV LED technology to cure legally required digital inkjet markings on master fruit packaging cartons.



Air-Dried Labels Produced Poor Print Quality, Wasted Packaging Time

Air-drying the required digital inkjet markings on the fruit packaging cartons was painfully slow. The water-soluble inks on glossy surfaces often produced labels that were not dry enough to be effectively used for production. The smearing or illegibility on these labels would render the package invalid for shipment or sale. The packed fruit box would then have to be removed from the product line and later re-labeled. The UV LED-cured labels are more accurate and durable, with no smearing, increasing the speed and accuracy of the final finishing process.

Investment in UV LED Technology

With the installation of Phoseon UV LED curing technology, Monson Fruit's production line can do nearly a case per minute, whereas before, each case could take up to 10 minutes to complete one label. These new production speeds were very impressive, says Sergio Llamas, IT Manager:

"It's been truly amazing to see the difference in performance. The Phoseon lamps cured over 1.8 million boxes of cherries this growing season, shipping to a global market. We plan to add a Phoseon UV LED lamp to all current and future Digital Inkjet lines, and we will be encouraging our industry-wide integration partners to do the same."

UV LED Curing Solutions

Phoseon UV LED curing solutions offer the widest selection and are the most reliable on the market. Starting from 2002 in Portland, Oregon, Phoseon Technology created the first LED's for Industrial Curing applications. With over 300 patents worldwide, Phoseon has earned the reputation for technological innovation, quality and reliability. The global Phoseon team of direct sales and field engineers welcome the opportunity to work with anyone who is interested in determining how LED can relieve pain in various manufacturing processes. Monson Fruit choose the FireJet™ ONE for their curing solution.

FireJet™ ONE Light Source



- Scalable design for edge-to-edge coverage
- Small form factor
- Cooling: Air-cooled
- Power: 20W/cm²
- TargetCure™ & WhisperCure™ technologies
- High irradiance
- Instant On/Off control/cure
- 20,000+ curing hours

About Monson Fruit Company



Beginning with its inception in 1987, Monson Fruit Company has continued to increase its presence as an industry leader by adding state-of-the-art fruit packing lines, multiple controlled atmosphere (CA) storage facilities and acquiring additional land for production. Family owned and operated, Monson Fruit Company is recognized as one of Washington State's leading packers, growers and shippers of fresh fruit. The company is dedicated to ensuring both global and domestic deliveries of only the highest quality products throughout the year. monsonfruit.com/.

Upgrade to Phoseon UV LEDs today!

Learn more about upgrading to Phoseon UV LED light sources, our financing options and how to contact us at www.phoseon.com.

At Phoseon, we are fully committed to the wellbeing of the environment. We continuously work to reduce the environmental impact of the products that we manufacture. Phoseon LED curing solutions offer consistent and reliable power output, eliminates greenhouse gas, and removes mercury in an entire category of industrial processes. Allow us to contribute to your corporate sustainability objectives TODAY!

