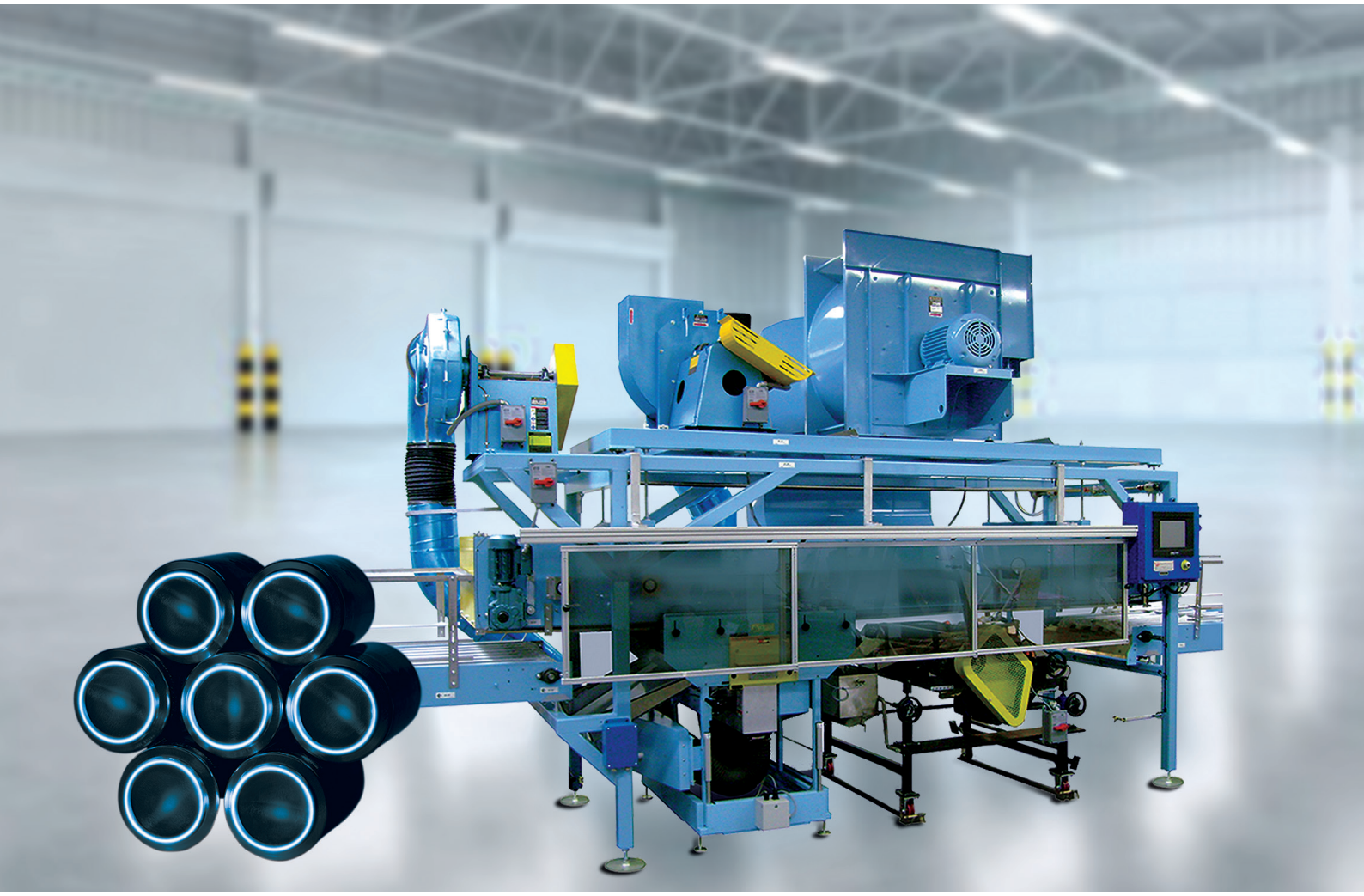
excelitas®

NobleLight



Custom UV curing systems for bottom rim coating of beverage cans

Designed to optimize ease of use and minimize cost of ownership

The use of UV Coatings in the Can Industry goes back over 50 years. UV Bottom Rim Coating has been used since the early 1990's to improve production efficiency at the Can Plant and Filler. Excelitas and Gerhard have led the way in developing, providing, and improving UV BRC Systems for over 25 years. The integration of the Gerhard metering roll coater with Noblelight's microwave-powered UV lamp source provides the best possible combination of flexibility, reliability, and ease of installation in the can industry. These systems are field proven on over 250 lines worldwide and offer significant production efficiency advantages resulting in a very attractive return on investment. The integrated system allows for easy installation and startup while keeping downtime to a minimum.

Advantages of Integrated UV BRC System at a glance:

- BRC unit is a drop-in, ready-to-operate system on the customer's line
- System integration allows for minimal downtime during installation and startup
- Includes all controls, logic and drives for UV system, bottom rim coater and vacuum. Transfers are centrally located in a single cabinet with single PLC
- Controls and alarms easily tied into the can plant network
- Centrally located Graphic Interface Touch Screen Control Panel
- Global network & presence allows for ongoing support and service at the customer's facility
- Dealing directly with the manufacturers of the equipment

Market leading Core Technologies

Excelitas is the world leader in UV Curing Technology. Our unique microwave-powered lamp systems are used by thousands of customers worldwide for instantly curing inks, coatings, and adhesives in hundreds of different manufacturing applications. UV curing replaces thermal drying with a photo-chemical curing process, allowing specially formulated coatings to be instantly crosslinked when exposed to high intensity UV energy. Our unique high energy UV lamp systems generate reliable and consistent UV output ideal for the demanding production environments of can manufacturing.

Your Advantages using Noblelight UV curing systems

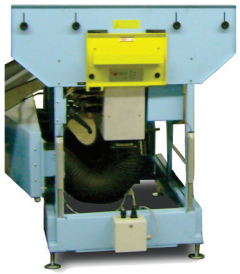
- High peak irradiance provides better curing and chemical conversion
- Proven track record in can plant environments
- Interchangeable bulb spectrums for maximum process flexibility
- Rapid lamp on/off capability eliminating the need for troublesome mechanical shutter
- Rapid lamp on/off capability saves significant electrical energy over time
- 8,000 Hour bulb warrant, 5 Year UV system warranty
- Consistent bulb output and stability over time
- Positive air cooling keeps system optics clean and operating at their optimum performance level
- Modular design allows maximum design, maintenance and process flexibility
- Optimum and even bulb cooling eliminates premature quartz failures and lamp sagging

Gerhard Designing & Manufacturing, Inc. has worked in the beer and beverage container field since 1992. They provide engineering and part manufacturing to companies with filling lines that need more efficient and reliable product lines. Gerhard's range of metering roll applicators and coating
delivery systems offer unrivalled adjustability and durability:

- Coater utilizes metering roll technology vs. anilox roll
- Metering roll allows greater coating flexibility and control, system is easier to maintain
- Coating weights can be changed by simply turning handles for roller adjustment vs. anilox systems which need to change out the entire anilox roll to adjust coating film weight
- Easy access design for maintenance and downed cans
- Downed can collectors with electronic sensors
- Built-in can detection for downed or jammed cans

Advantages of UV Bottom Rim Coating

- Significantly improved can mobility at can plant and filler
- Reduced maintenance from reduction of metal fines and aluminum oxide
- Superior abrasion resistance – aluminum
- Superior corrosion and abrasion protection – steel and aluminum
- Less line jams and downtime, reduced scrap
- Vastly improved decorator loading – less printer jams and trips
- Dramatically improved coating adhesion on the can
- Greater overall line efficiency, 3-6 month ROI, HAPs
- Easy to retrofit existing lines
- Coverage easily checked with fluorescing dye under black light
- 100% Solids Coating Material (Zero VOCs & HAPs)



Gerhard's Bottom Roll Coater

Noblelight's
Modular Power Supply
Enclosure (MPE) Cabinet

Excelitas Technologies
UV Technology
www.noblelight.com