



NobleLight®

UVC-Disinfection in packaging equipment reduces space and costs

Cooperation between Jorgensen Engineering A/S and Excelitas in developing filling and packaging handling equipment reduces space and cost through highly efficient, chemical-free disinfection processes.

The Challenge

Saving space in cleanrooms and ensuring reliable, intensive disinfection are key factors when equipping machines in the food packaging industry.

Especially for sensitive products such as infant formula, efficient and high-performance systems are essential. Jorgensen Engineering A/S, a Danish company founded in 1933, develops and manufactures complete filling and packaging handling equipment for the food, infant formula, and pharmaceutical industries. Depalletizing, lid handling, portioning, clinching, labeling, packaging—the complete machines provide a turnkey solution for the entire filling and packaging production process.

A critical step in the production of infant formula is disinfecting the empty cans so that the filled powder remains durable and free of germs for as long as possible. To achieve this, UV light is used for can-surface disinfection.

UVC disinfection is a completely dry and chemical-free process that reduces microbial contamination by at least 99.9%–99.999%. Only a few seconds of intense light are enough to kill bacteria, yeast, or mold on packaging materials. Thanks to the use of the latest technology, Jorgensen's machines are environmentally friendly, reliable, low-maintenance, and easy to operate.

The Solution

Every customer has different requirements in their production facility, as certain types of food require different treatment. Whether it is an existing production line or a newly designed machine, Jorgensen Engineering A/S tailors the turnkey solution based on extensive experience, technical expertise, and the customer's specific needs. For the disinfection process, this includes adjusting conveyor speeds and UV dosage.

However, one requirement is the same for almost every customer—the footprint should be as small as possible. This means the production line should occupy as little space as possible. Maintaining a cleanroom is expensive because both the ventilation air and all objects in the room must remain ultra-clean.

With the installation of the new Noblelight UV module, the **BlueLight Hygienic System**, users can reduce the space required for disinfection by **60%**. Due to innovative developments, the Noblelight system is the most powerful UV low-pressure system on the market, providing the highest kill rates. Compared to equivalent UV technologies, end users can reduce energy costs by **30%**.



• Photo: Jorgensen Engineering A/S

FEATURES

- UVC disinfection
- Filling and packaging equipment for the food industry
- Cans for infant formula
- Reduction of footprint
- Reduction of energy costs

TECHNISCHE DATEN

- UVC technology
- BlueLight Hygienic System
- UV low pressure

