

Complete Packaging Handling Systems for

Infant Formulas

Jorgensen Engineering is one of the global leaders within projecting, constructing and building of complete packaging handling solutions for foods and pharmaceuticals. One of the business areas is packaging systems for infant formula products, and in co-operation with a major player within milk powders, Jorgensen has just recently constructed an advanced robotic system for placing portioning scoops in canned infant formulas.



By Anna Marie Thøgersen, Editor

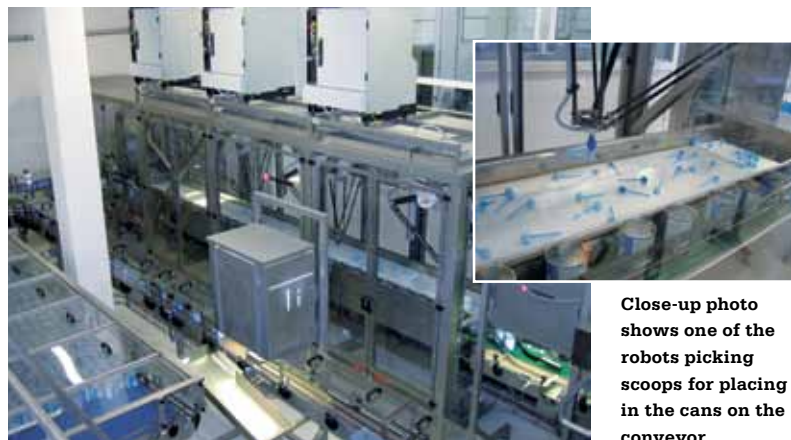
Infant formula packaging

Infant formula is a growing segment within the global market for canned products, and most of the major milk powder producers are fully aware of the Danish company Jorgensen Engineering's packaging handling competences for these products.

- To fulfill customers' and end-consumers' high quality demands on infant formulas - as well as on other foods, we successively optimize the technologies behind our complete handling lines. This includes e.g. robotic technologies to the benefit of optimized production as well as han-

dling the milk products at the highest possible hygienic level. Our know-how and high focus on sterilization of the cans and lids before filling ensures a quality product with a long shelf life, explains Jesper Johansen, marketing manager at Jorgensen Engineering.

For the time being Jorgensen's technical staff is working around the clock to finish a new robotic solution for a global player within infant formula. As extras this solution features robots for inserting up to 350 scoops in cans per minute and vision systems checking correct insertions.



Complete robotic system for scoop insertion as delivered to one of the largest European dairy companies. In close co-operation with the customer, Jorgensen Engineering has constructed a complete powder line including robotic technology and a SCADA control system, which communicates with the management control system.

New In-line leak tester

- Just recently, we have also launched a new in-line can leak tester measuring on nano-level, which makes the method extremely accurate and ensures that the milk powders' shelf life is maintained, continues Jesper Johansen. He underlines, that the leak tester is fully automatic and designed to be integrated into any production line.

The system uses inactive helium gas as tracer in the full cans in a non-destructive test. The inert gas is present in the containers as a result of the milk powder production and packaging process. The cans are exposed to a strong vacuum, and the equipment utilises the unique ability of helium to penetrate even the smallest cracks and flaws. If helium is detected outside the can, a leak signal is given for further inspection and localisation of the leak. The system is also capable of testing empty cans.

Powder packaging lines

Lines for infant formulas feature various customized technological solutions, but in general a complete packaging handling system for infant formulas features: Automatic de-palletizing, jet air cleaning and feeding of empty cans, scoop inserting, filling, check weighing, clinching, end han-



Efficient and gentle packaging handling. Marketing manager, Jesper Johansen in front of a can handling system in the workshop at Jorgensen Engineering's premises in Odense, Denmark.

Jorgensen solutions

Jorgensen is an international specialist within projecting and building of complete packaging lines to various business segments as human food, infant formula, milk powder, condensed milk as well as pet food and pharmaceuticals. The lines are built to handle different packages made of tin, aluminum, glass and plastic.

The company has more than 70 years of experience within systems for retort handling, conveying, de-pal-letizing & palletizing, cleaning & sterilizing, infant formula/milk powder and SCM handling, and fruit & vegetables handling. Further layout and degree of automation are fully tailored to meet the customers' requirements.

Jorgensen Group

Jorgensen has supplied processing equipment and know-how to cus-

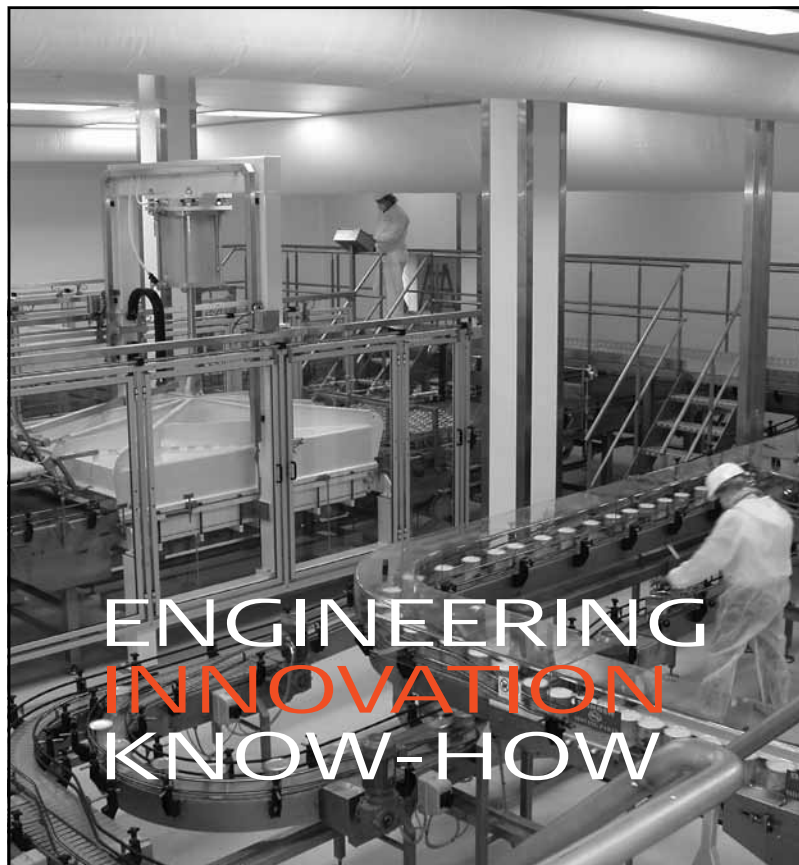
tomers all over the world for more than 70 years. Jorgensen Engineering a/s is a privately owned company founded in 1933, and is the holding company in the Jorgensen group. During the years the group has grown to its present size with 250 dedicated employees at five subsidiaries in Denmark, Australia and Ireland. The Jorgensen Group consists of:

- Jorgensen Engineering: Packaging handling systems
- Little Island Engineering: Food processing equipment
- Tripax Engineering: Food processing equipment
- Akro-Pak brüel: Crate washing & filling equipment
- brüel international: Crate washing systems

Today Jorgensen is considered to be one of the leaders within several of its business areas offering individual customized complete solutions. ■

dling, air evacuation and gas flushing, seaming, labeling, plastic lid over-capping, code reading, wrap around case packaging, case coding, palletizing, and line control SCADA.

Whatever line, flexibility is a key word when it comes to changing between can sizes, and the equipment meets the highest standards of hygiene and easy cleaning.



With a little help... ...from Jorgensen

Together with the market leaders in the food industry we continuously optimize and develop **packaging handling systems** for infant formula, baby food and milk powder. Our strengths are: **engineering, innovation and know-how.** And to **keep promises.**

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