

ADDITIONAL REFERENCES AND APPLICATION CASE STUDIES:

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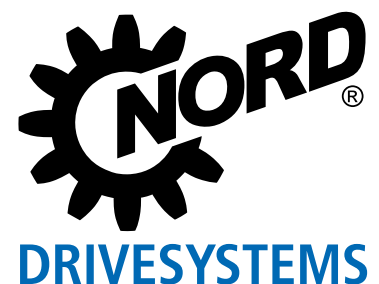
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Members of the NORD DRIVESYSTEMS Group



DRIVE SOLUTIONS FOR CAN FILLING SYSTEMS

CASE STUDY: SWISS CAN MACHINERY AG



**Experts in innovative,
automated can filling systems**



**Reliable, flexible,
and hygienic**



**Can conveyors,
screw conveyors,
agitator drives**



**Modular drive system
in a wash-down design**



**Continuous
speed control**



To comply with the stringent hygiene requirements of the food industry, the Swiss company Swiss Can Machinery uses wash-down-optimized drive technology from NORD DRIVESYSTEMS®.



FOOD INDUSTRY

Canning system for powdered milk, baby formula, and coffee



GEARMOTORS

IE4 gearmotors with smooth surfaces, worm gear motors



VARIABLE FREQUENCY DRIVE NORDAC® BASE SK 180E



APPLICATION VIDEO

PROJECT REQUIREMENTS

The demands for hygiene and cleanliness in the food industry are exceedingly high. The requirements on drive technology powering applications in the food industry are correspondingly strict. For Swiss Can Machinery – a specialist in innovative filling systems for powdered milk, baby formula, and other dried goods – the hygienic design of its plant and machinery is absolutely essential.

Innovative technology for sensitive products. Powdered milk is a difficult product to fill. It can have different filling characteristics, depending on recipe, fat content, drying method, granulation and fineness. Even the characteristics of the same product can vary according to the production conditions. Swiss Can Machinery machines automatically adapt to the continuously changing filling conditions and fill the powdered milk cleanly, precisely,

and efficiently.

Fully automated throughout the canning process. The company's newest product – the "SCM Line V-matic 127-3 2020" – is a fully automated can filling and seaming system for powdered milk and baby formula. The plant automatically performs all of the work stages throughout the canning process. A special protective gas technology ensures a residual oxygen value of less than 0.5% in the can. This ensures a maximum shelf life for the packaged product.

CUSTOMER PROFILE

Founded in 2013, Swiss Can Machinery is one of the leading manufacturers of fully automated filling systems for powdered milk, baby formula, coffee, and other dried goods today. The Swiss company globally implements tailor-made packaging solutions that meet the highest hygienic standards – from individual machines up to entire filling systems.

<https://canmachinery.com/>





“The modular NORD range optimally meets our stringent requirements for hygiene and performance, and allows us the flexibility we need for our machines.”

MARC GRABHER, TECHNICAL MANAGER AND PROPRIETOR OF SWISS CAN MACHINERY

APPLICATION SOLUTION

“The Swiss Can Machinery machines must be reliable and flexible. This is why the company uses drive technology from NORD DRIVESYSTEMS®.”

Michael Grabher, Managing Director and Proprietor of Swiss Can Machinery

Smooth surfaces for easy cleaning. On the conveyor belts, NORD IE4 gearmotors with smooth surfaces and mounted NORDAC® *BASE* SK 180E variable frequency drives provide optimal speed and efficient transport of the cans. The NORD smooth body motors are specifically designed for easy cleaning and are ideal for applications where sanitation is essential. Cleaning liquids and foam easily wash off the corrosion-resistant aluminum alloy motors. Thanks to protection class IP66, they are protected against the entry of dirt (dust-proof) and can withstand strong water jets from all directions. The use of energy-saving three-phase motors

with efficiency class IE4 also enables high efficiency with low operating costs.

Flexible in operation, simple in maintenance. The NORDAC® *BASE* provides the necessary continuous speed control. Installation of the inverter directly on the motor increases flexibility and simplifies maintenance and repair processes. NORD smooth motors are also used on the screw conveyors. A robust worm gear motor with cover drives the agitator. The compact drive units provide a high power density, excellent reliability, and trouble-free operation.



Digital. The motors are connected in series via PROFINET. This reduces the amount of cables and simplifies communication.

THE PROJECT AT A GLANCE

NORD smooth motors with mounted NORDAC® *BASE* SK 180E variable frequency drive are used for can conveying and screw conveyors. A robust worm gear motor with cover drives the agitator.

- Uniform, hygienic solution for the entire system
- Reliable technology with a robust design
- Modular system

