

Drive technology

TODAY

Sustainable packaging in the beverage

Sustainability is becoming increasingly important, even in the beverage industry. To achieve efficient results in this area, the project group has developed an innovative solution with their new banding machine, Propac. This allows the company to bundle bottles with significantly less material and energy consumption.

Overview

► The company operates as an engineering office for various special machines and develops automation solutions for packaging. These solutions are then manufactured and distributed by the sister company project Service & Produktion GmbH. Learn how the

company has managed to take a sustainable and efficient path in beverage production and what technical innovations have contributed to this in this practical example. ►



Together for a sustainable and innovative future

The new banding machine was realized with the modular automation system MOVI-C® from SEW-EURODRIVE. This innovative technology supports the sustainability efforts of beverage manufacturers, reduces project planning effort and costs. The required hardware for the drive concept is 15 to 20 percent cheaper than the previously used components. MOVI-C® requires only one power supply for up to 32 axes. This means that there is only one braking resistor, one contactor, or one motor protection switch – unlike conventional systems that require separate components for each axis.

The functional advantages offered by the MOVI-C® automation system are also convincing. In the banding machine, several gantry robots work synchronously with each other. They are connected to a master and synchronized via a cam function in the drive system. The software experts at project did not have to program this function themselves but could use pre-configured software modules MOVIKIT®, which are part of the MOVI-C® automation system.

The close collaboration between the project group and SEW-EURODRIVE led to the successful implementation of the new banding machine Propac. By using MOVI-C®, significant material and energy savings were achieved. This partnership has not only supported the sustainability goals of the beverage industry but also significantly improved the efficiency and flexibility of the packaging processes.

Customers

Project Automation & Consulting GmbH

Location: Kranenburg near Kleve in the Lower Rhine region, Germany

Sector: Beverage industry

Application: Banding machine

Customer requirements

Reduction of complexity

Drive functions only need to be parameterized instead of programmed.

Flexibility

Modular design to adapt to customer requirements.

Throughput

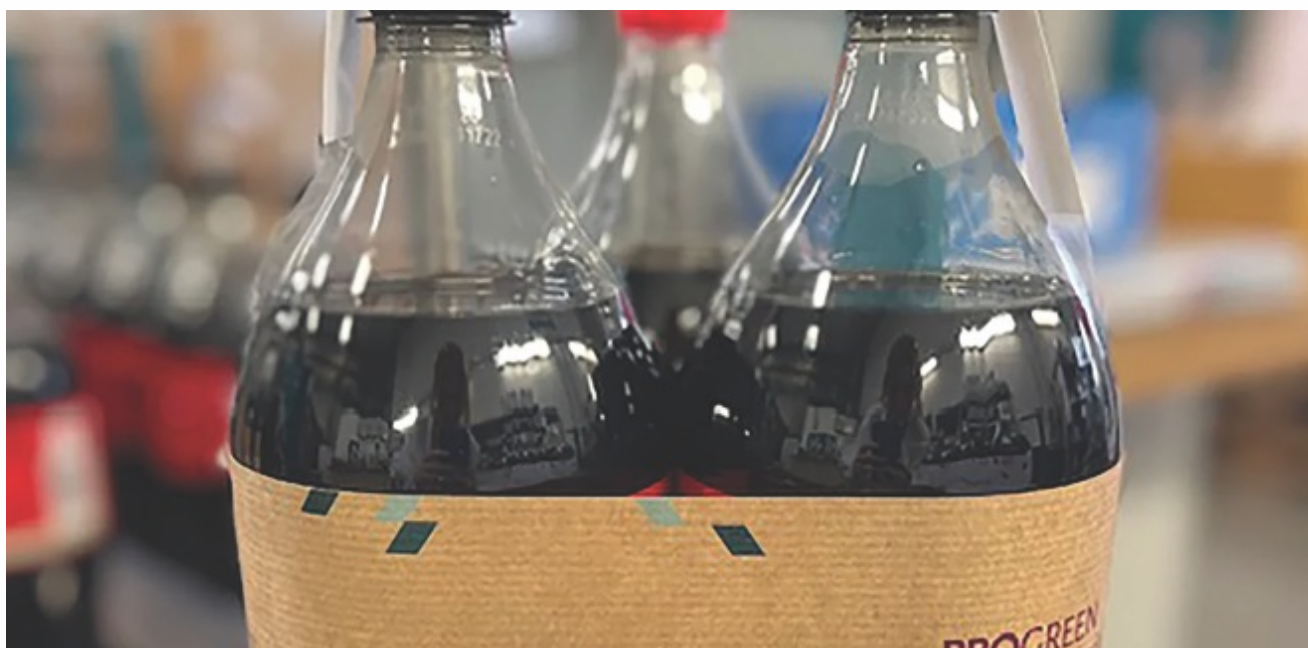
High packaging performance even with frequently changing products.

Environmentally friendly secondary packaging

Replacing shrink wrap reduces plastic and energy consumption.

Support

Assistance from automation experts for new system concepts.



Less plastic, more sustainability

Solution

Automation system MOVI-C®:

Modularly adaptable and expandable according to customer requirements.

Multi-axis system

Up to 32 axes on one power supply and intermediate circuit.

Pre-configured software modules

Easy selection of required MOVIKIT® modules via drag & drop.

Personal consultation

Assistance from the first draft on-site or via hotline.

Customer benefits

Sustainability

Significantly lower energy consumption compared to shrink packaging.

Energy efficiency

Buffering of braking energy in the intermediate circuit.

Productivity

Quadrupling of cycle rate through improved process technology.

Modularity

Flexible system setup thanks to MOVI-C®.

Space savings

Fewer components save space in the control cabinet.



Innovative technology for many applications



Minimized wiring effort

No separate wiring of individual axes reduces time and risk of errors.

Cost savings

Reduction of hardware components such as braking resistor, contactor, or motor protection switch results in savings of 15-20% ◀



Modern banding machine with innovative drive technology