GoodMills Deutschland

## INDUSTRY

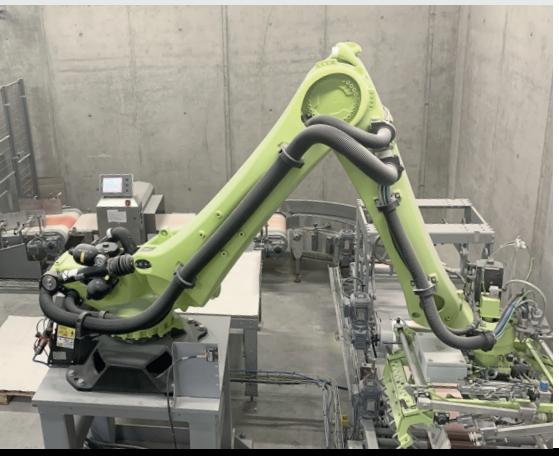
Food

## SYSTEM

Greif-Velox BVPV 4.40,
Full-Line

## CHALLENGE

Efficient bagging of semolina, flour and meal of various granulations in pack sizes from 5 to 25 kilograms



# EFFICIENT BAGGING OF SEMOLINA, FINE FLOUR AND COARSE MEAL

## THE CUSTOMER

The GoodMills Group is the largest milling company in Europe. Its subsidiary GoodMills Germany produces quality and specialty flours, legumes and rice at eight sites. At the Hildebrandmühle mill in Mannheim, Germany, GoodMills Germany produces, bags and packages various durum wheat products. With an annual capacity of more than 180,000 metric tons, it is one of the largest durum mills in Germany.

## THE INITIAL SITUATION

The already diversified production at the Mannheim site was to be expanded by two more production lines. Since the old system could no longer keep up and the bagging capacity was to be increased, GoodMills wanted to invest in a new, more flexible system that would meet their current needs but could also be flexibly expanded and optimized for future challenges.

## THE CHALLENGE

They needed a system capable of bagging fine flours (with a particle size smaller than 200 micrometers) as well as fine-grained semolina (200 to 800 micrometers) and coarse meal (2 to 4 millimeters) flexibly and accurately into bags weighing between 5 and 25 kilograms. This meant that product changes needed to be seamless, without long changeover times and major cleaning required. They also planned to double the production output to just under 400 bags per hour. GoodMills also wanted a system with the option to add another packer in the future (to increase bagging capacity to around 600 bags per hour) without the need for extensive conversion work.

## THE SOLUTION: GREIF-VELOX BVPV 4.40 WITH ADDITIONAL FEATURES

The customer opted for the BVPV 4.40 gross pneumatic packer, which uses innovative components to ensure the highest possible efficiency:

- Smooth process flows and lower personnel costs thanks to the Greif-Velox Valvomat, which positions the empty bag correctly onto the filling spout
- Tear-resistant bag sealing with the ValvoSeal ultrasonic sealing unit's patented waffle technology
- Lower recall costs thanks to the space-saving Combi-Checker, a metal detector with an integrated checkweigher that operates with a detection accuracy of less than two millimeters
- Automatic, precise and time-saving palletizing by

## THE ADVANTAGES

- ✓ 100% increase in performance without compromising employee or product safety
- ✓ Savings in personnel costs
- ✓ Reduced cleaning costs
- ✓ Reduced changeover time and downtime
- ✓ Cost savings through data-driven process optimization


„What is particularly positive about the systems from Greif-Velox is that there is always a contact person for all questions."

**ALEXANDER WIELER**
**Plant Manager at GoodMills Germany**

the four-axis palletizing robot VeloPack

- Automatic transport via roller conveyors to a wrapping machine for load securing
- Faster and easier product changeovers due to mechanical features like motorized bag carriage height adjustment
- Continuous process optimization by recording and analyzing process data ("transparent packer") as well as managing and controlling the data and settings for the filling of various products
- Significantly reduced cleaning costs and time due to the pneumatically-hinged residue discharge bottom and uniquely shaped discharge container

## THE RESULT

So far, the new system has enabled the customer to double its production output – with the possibility of optimizing it even further in the future based on the documentation of the process parameters. "The process data enables us to coordinate the processes even better," says plant manager Alexander Wieler. It was precisely because of the smooth communication between the machine components that GoodMills Germany opted for a system from Greif-Velox: "Here, the programming comes from one company, and so the interfaces were much clearer than with the competitors," says Wieler. "It's also great that there is always one single contact person for all issues."

GoodMills Germany can use the time-saving remote service of Greif-Velox for the commissioning and configuration of the system and all other issues. The high degree of automation also saved GoodMills the equivalent of one staff position. In addition to optimized sequences, optimized boiler outlet hasincreased output by reducing waste and downtime. "The systems are designed to run to empty very effectively," Wieler says. "This significantly reduces cleaning times." Product changeover times have also improved because stored filling parameters and bag formats can be selected with the touch of a button. Another significant increase in efficiency for GoodMillls was the space-saving and significantly faster palletizing robot. "My skepticism was relatively high at the beginning as to whether the robot could manage as clean a pallet pattern as a layer palletizer," says Wieler, "but this one works to our complete satisfaction."