

# Drive technology

# TODAY

## Beverage filling at HANSA-HEEMANN AG

In the beverage filling department at HANSA-HEEMANN in Bruchsal, Germany, decentralized drives from SEW-EURODRIVE are used for all sorts of transportation tasks. After years of positive experiences with SEW-EURODRIVE, this bottling plant chose integrated MGF..-DSM gearmotors from our MOVIGEAR® mechatronic drive system range.

### Overview

▶ **Efficient continuous operation with reliable drive technology. IE4 drive solutions in beverage production**

True to the slogan, "Water is life," the HANSA-HEEMANN group obtains the water for its beverages from deep wells, bottles it, and delivers to customers across Southern Germany. The beverages are bottled in PET bottles, which are formed out of small plastic blanks by a blow moulding machine.

The packaging units used are 1.5-liter and 0.5-liter bottles. Production operates in three shifts. During one

of the 52 calendars weeks, regularly scheduled maintenance is done on one of the filling lines. This high degree of capacity utilization depends on reliable drive technology backed up by good service. That's why in 2006, HANSA-HEEMANN first chose SEW-EURODRIVE as a drive supplier. In March 2007, the first lines were equipped with decentralized MOVIMOT® drive units. These AC asynchronous motors with integrated frequency inverters are in operation around the clock. ▶



## Customer requirements

For the customer, it was crucial that the drives be high in quality and energy efficiency, and that the service model provided be comprehensive.

## Solution

The integrated MGF.-DSM gearmotor from the MOVIGEAR® mechatronic drive system boasts high energy efficiency. This system is specially calibrated for use in beverage transportation facilities and already qualifies for the current highest energy efficiency class for motors, IE4.

### Comprehensive energy management and increases in production

A few years later, it was time to increase production. Thanks to their positive experience with decentralized technology, HANSA-HEEMANN stipulated drive technology from SEW-EURODRIVE in their call for tenders for the new filling lines. According to plant manager Thomas Herzog: "We chose SEW-EURODRIVE once more to be our drive supplier because of our fruitful cooperation with them in the past, their proximity, and their 24-hour standby service." The new lines have been running since March 2014 on integrated MGF.-DSM gearmotors from our MOVIGEAR® mechatronic drive system family. These motors are specially calibrated for use in beverage transportation facilities and already qualify for the current highest energy efficiency class for motors, IE4.

The filling plant's energy management system monitors all energy consumption. It monitors the process technology in the boiler house, the refrigeration facilities and compressors, the building technology such as lighting and ventilation, and finally the drive technology. "With the IE4 MGF.-DSM drives, HANSA-HEEMANN is totally up-to-date in regard to energy efficiency, as well."



### Service is a priority:

In addition to the MGF.-DSM units, they use bevel-helical gear units and helical-worm gear units with brakemotors of the DR.. series for driving inclined belt systems. In the packaging department, robots from Kuka are at work. And once again, the drive technology in this department comes from SEW-EURODRIVE: planetary servo gear units, helical-bevel gear units and CMP.. servomotors controlled by MOVIDRIVE® single-axis servo controllers. In all, about 800 SEW-EURODRIVE drives were installed at this location.

With so many units installed, effective customer service is crucial. Plant manager Thomas Herzog explains: "The service model offered by SEW-EURODRIVE fits our operation requirements perfectly. One important factor is certainly the 24-hour hotline that SEW-EURODRIVE provides. And cooperation with SEW-EURODRIVE, even in occasional service calls, has always brought entirely satisfactory results. In three-shift operation, especially, it's very important to choose suppliers who can offer excellent support."

SEW-EURODRIVE has an extensive stock of spare parts for service emergencies. This allows us to get drives back up and running as quickly as possible.

Due to our proximity and 24-hour standby service model, the customer can receive support as quickly as possible from the SEW-EURODRIVE emergency service. ◀

