Innovative drive and automation solutions for the beverage industry
Particularly the beverage industry has special requirements on machines, systems and equipment. This is the reason why drive technology components in the beverage industry have to be robust, durable and able to withstand high torque loads. In order for production systems in the beverage industry to be adapted to work with new processes, batches and manufacturing programs, a modular design is essential.

Flexible responses to seasonal peak periods or fast batch changes offer a real competitive advantage in the food and beverage industry. The comprehensive modular system of drive components, the scalable drive solutions of the VARIOLUTION® packages as well as the individual MAXOLUTION® system solutions make this flexibility possible. In addition to that, SEW-EURODRIVE offers energy-efficient drive solutions in hygienic design from the specifically developed system of modular components. Its energy-efficient solutions make a sustainable contribution to meeting the European climate target of reducing CO₂ emissions by 20 to 25 percent over the next ten years.

SEW-EURODRIVE as a leading expert for drive technology and automation calls this Drive 360° – Seeing the big picture: from problem-solving competence to system availability, from low operating costs over energy efficiency to the complete system that sets new standards. SEW-EURODRIVE has supported and ensured all this by its global presence for more than 80 years. SEW-EURODRIVE is an internationally successful family-owned business with about 13,000 employees. Its 13 manufacturing and 67 assembly plants in 47 countries keep the world moving every day.
Drive technology from SEW-EURODRIVE puts the drive into your systems

Whether disposable or returnable bottles, glass or PET, whether it is a dry, wet or hygienic area – SEW-EURODRIVE provides individual application solutions based on its modular concept for more profitability, flexibility and safety for all the processes of the beverage industry. Minimum maintenance effort and simple startup means you can be sure that your machines and systems will run more efficiently from the very start.

Solutions from SEW-EURODRIVE for dry areas

**Conveyors for dry areas**

From the return of pallets of empties, through sorting, unpacking and cleaning, to the transport of packaging units and bottles after filling: materials handling technology makes up a large part of the dry applications in returnable as well as disposable bottle systems. Various kinds of transportation equipment are used to manage the wide range of tasks, including transportation systems such as electrified monorail systems or, in the future, floor conveyor vehicles. Combining the products and solutions of SEW-EURODRIVE in such a way that they perfectly interact with one another and optimally suit the application will result in energy savings and contribute significantly to reducing CO₂ emissions.

**SEW-EURODRIVE products for your application:**

- Mechatronic drive system MOVIGEAR® SNI (Single Line Network Installation), MOVIGEAR® DAC (AS-Interface)
- MOVIMOT® or MOVIFIT® decentralized technology
- Modular DR motor system with 7 series gear units
- VARIOLUTION® packaging unit transport

**Palletizers and packers**

The requirements on palletizers and packaging machines become more and more complex every year. Higher speeds, longer maintenance intervals, a low noise level and reduced energy consumption are key aspects. Palletizers and packaging machines with drive technology from SEW-EURODRIVE meet these requirements and contribute to increasing reliability as well as performance.

**SEW-EURODRIVE products for your application:**

- MOVI-PLC® motion and logic controller
- Program modules for palletizers and packaging machines
- MOVITOOLS® MotionStudio engineering software
- MOVIDRIVE® inverters or MOVIAxis® multi-axis servo inverters
- Gearmotors (with synchronous or asynchronous motor technology)
- Feed and discharge conveyor belts with MOVIGEAR® DSC (SBus)
- VARIOLUTION® packing/unpacking
Example:
Bottling plant for returnable PET bottles
More examples for which SEW-EURODRIVE also offers customized solutions:

- Storage and retrieval units
- Electrified monorail system for light loads
- Automated guided vehicle system (FTS), e.g. for pallet transport
- And many more
Solutions from SEW-EURODRIVE for wet areas

Bottle and crate washing machine (not shown in the illustration)

Bottle and crate washing is the starting point of every filling process and therefore plays a crucial role in the system. Hygienically and optically flawless cleaning results are as important as easy access for repair and adjustment work. The entire drive system is expected to deliver simple speed control, synchronous operation, and flexibility. In addition, all parts of the system must be entirely hygienic.

Conveyors for wet areas

To meet the demands of the market and keep the productivity of individual filling lines high, systems are being designed and implemented with more flexibility, ensuring compatibility with different products or containers. This requires flexible, intelligent drive technology with its own drive technology. In wet areas, high demands are placed on hygienic properties and high resistance to aggressive cleaning agents and disinfectants. Combining the products and solutions of SEW-EURODRIVE in such a way that they perfectly interact with one another and optimally suit the application will result in energy savings and contribute significantly to reducing CO₂ emissions.

Labels, packing and unpacking machine, closing machine and FFS machine

High processing speeds, accuracy and acceleration are required for the automation of machines in filling systems. Consequently, the demands placed on power transmission technology are high in terms of dynamics and flexibility.

SEW-EURODRIVE products for your application:

- MOVI-PLC® motion and logic controllers
- MultiMotion program module
- Standard libraries with software modules as basis for individual software solutions
- MOVITOOLS® MotionStudio engineering software
- MOVIDRIVE® inverters or MOVITRAC® multi-axis servo inverters
- Dynamic servomotors of the DS, CM or CMP series
- Feed and discharge conveyor belts with MOVIGEAR® DSC (SBus)
- VARIOLUTION® FSS machine, VARIOLUTION® packing/unpacking machine
- MOVINGEAR® mechatronic drive system with “Wet Area” or “Hygiene PLUS” package
- Alternative: Gearmotors with DAS motor with degree of protection IP66, motor corrosion protection (KS) and surface protection OS2 to OS4
- Efficiency-optimized stainless steel gear units for applications in areas subject to frequent cleaning
- VARIOLUTION® item transport

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Many drive engineering components in the SEW-EURODRIVE modular system fulfill the requirements for use in hygienic production areas. These components demonstrate their quality and reliability on a daily basis in wet areas and aseptic environments.

### Hygienic and energy efficient

**DAS series aseptic motors**
- Optional surface protection OS2 to OS4
- Suitable for dry or humid hygienic areas with mean atmospheric contamination.
- Also suitable for particularly dusty environments.
  - C3 (moderate) *

**Sample applications:**
- Machines in filling systems
- Conveyor belts in the beverage industry

**DAS series aseptic motors with ASEPTIC® drive package and OS4 surface protection**
- Suitable for hygienic areas with permanent humidity, regular acidic and caustic wet cleaning and pressure cleaning.
- C5-I (severe) *

**Sample applications:**
- Hygienic and aseptic conveyors and
- "Splash zones" in the beverage industry

**High Protection surface HP200 for MOVIGEAR® and MOVIFIT®**
- Suitable for hygienic areas with regular acidic or caustic wet cleaning.
- Anti-adhering properties support the cleaning process even in inaccessible areas.

**Sample applications:**
- Hygienic and aseptic conveyors and
- "Splash zones" in the beverage industry

**Stainless steel gearmotors**
- Suitable for hygienic areas with permanent humidity and extreme acidic and caustic cleaning with chemical cleaning agents.

**Sample applications:**
- Hygienic and aseptic applications of all types

* * In accordance with corrosivity categories of DIN EN ISO 12944-2
Energy saving and CO₂ reduction are the objectives for the modernized line 2a of the Austrian Coca-Cola bottling plant. In the area from the shrink packer to the palletizer, PET bottles from 0.3 to 2 l fill quantity are processed. The public utility Wien Energie GmbH has been involved in the conception of the complete renovation right from the start with detailed energy consumption calculations to achieve the best energy efficiency possible for this system.

The installed, comprehensive drive technology from SEW-EURODRIVE is expected to save an impressive amount of energy and CO₂.

Tested and confirmed by Wien Energie GmbH:
- Total energy saved of about 75% by the consistent use of 40 MOVIGEAR® units in SNI technology (Single Line Network Installation) as well as further control-relevant measures, such as speed optimization and improved shutdown in the event of bottlenecks
- CO₂ reduction of about 41 000 kg/year
- SNI technology allows for energy and data transfer in one standard cable, which reduces the number of components and minimizes the installation effort.

You find more information on the MOVIGEAR® drive system at http://www.movigear.eu

Practical example:

Coca-Cola HBC Austria GmbH, Vienna, Austria,
Conveyor line for PET bottles and packaging units
SEW-EURODRIVE supports your planning department with the new solutions: VARIOLUTION® packages are standardized drive concepts that offer fast and cost-effective solutions for your system. MAXOLUTION® system solutions enable you to implement complex drive concepts that are optimized to suit the specific requirements of your application.

Solutions for high functionality and quality in the beverage industry

Individual system solutions for every movement

Comprising components ranging from electromechanical drives and controllers to communication through to contactless energy transfer, MAXOLUTION® system solutions offer all the elements needed to implement customer-specific plant solutions. Our specialists use their professional knowledge of the beverage industry to create order-specific core teams with employees from development, sales and service. This way, SEW-EURODRIVE provides optimized support from the quotation stage all the way through to final acceptance: Competent and fast, straightforward and comprehensive.

Practical example: The industrial “RoboLoop” robot

“RoboLoop is used for singling, distribution, sorting, and palletizing. This robot has an impressive array of features, including wireless Ethernet communication and power transmission up to 12 kW, exchangeable standard components and efficient job processing that runs independently of the loop management. SEW-EURODRIVE technology enables us to integrate robot functions into intralogistics processes without having to use the previous cell structures.

Eugen Schommartz, Product Manager for Logistics Systems / Güdel
At SEW-EURODRIVE, the focus is on the customer. This was confirmed once again by the “Germany’s Customer Champion 2009” competition, in which SEW-EURODRIVE received awards for “Best B2B company”, “Best large company” and “Best manufacturing company”. The company ranks second among the 50 German companies with the highest overall customer satisfaction in the competition. SEW-EURODRIVE’s goal is to be your first choice with a comprehensive range of drive technology products and services.

**DriveBenefits – customized process solutions for your entire value creation chain**

DriveBenefits offer a variety of practice-oriented possibilities to accelerate processes in every value creation phase, to simplify these processes, and to handle them in a cost-optimized manner. Already at the engineering stage, you can use the DriveConfigurator as an ideal selection tool for drive components. All deliveries and their internal further processing can be controlled efficiently using functional DriveTag labels. Selecting the suitable components and combining them to form an overall concept will give you sustainable benefits. www.sew-eurodrive.com/s_benefit/

**CDS® – the modular service concept**

Comprehensive and integrative services that can be tailored to the specific needs of every phase of the product life cycle make the CDS® Complete Drive Service from SEW-EURODRIVE the perfect solution. From startup to complete maintenance management through to retrofit and modernization measures, CDS® offers the perfect solution for any requirement. www.sew-eurodrive.de/s_service/

**DriveAcademy® – Training “made by SEW-EURODRIVE”**

The central training facility DriveAcademy® in Bruchsal offers a wide range of courses from target group oriented, certified product training to specific working methods and individual coaching. www.driveacademy.sew-eurodrive.de
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