More efficiency and flexibility for the beverage industry

Automation solutions from SEW-EURODRIVE
We drive the beverage industry

SEW-EURODRIVE is familiar with the requirements of the beverage industry: Machines, systems and technology are exposed to particular ambient conditions and must be robust, able to withstand high torque loads, and have a long service life. In order for production systems in the beverage industry to be adapted quickly to work with new processes and manufacturing programs, a modular design is essential.

Being one of the world’s leading drive technology companies offering a broad range of products, SEW-EURODRIVE is a locomotive for progress. We provide gearmotors, frequency inverters, servo drive systems, decentralized drive systems and industrial gear units for applications in many different sectors. Our reliable mechanical and innovative electronic drive components are the result of decades of experience in building drives for the beverage industry.

Drive Engineering “made by SEW-EURODRIVE” offers countless combinations through the modular system. Individual solutions that meet the requirements of the application in a flexible manner, such as corrosion-resistant or jet-proof drives, can be implemented fast and efficiently.

Driving the world – with innovative drive solutions for all applications in the beverage industry. All SEW-EURODRIVE products and systems make the best use of the space available around the machine and ensure great flexibility and reliability. Minimum maintenance and simple operation ensure that you will operate machines and equipment efficiently from the very beginning.
Drive systems from SEW-EURODRIVE create movement around the world. Even in your system.

Rely on a powerful partner with a worldwide presence:
SEW-EURODRIVE is an internationally successful, family-owned business with a turnover of about €1.8 billion, and about 13,000 employees in 46 countries. With 12 production plants and 64 assembly centers, we keep the world moving.

SEW-EURODRIVE is your competent partner for all areas, from consulting services, through project planning all the way to startup to achieve the mutual goal of “reliable system operation.”

Our services are available around the globe, reducing downtimes to an absolute minimum! The SEW Service Organization allows for prompt delivery of complete drives and spare parts around the world, in many regions within 24 hours.

SEW-EURODRIVE—Driving the world
Only the best for your system – drive engineering solutions from SEW-EURODRIVE

The outstanding properties of our drive technology make it clear why SEW-EURODRIVE is featured in the most important industries all over the world: Power density, a variety of variants, overload capacity and reliability give the user the desired security – optimally positioned and highly efficient in every application. The modular structure of our system and the countless combination options create the best possible prerequisites for us to develop special solutions as required in the beverage industry.
Production processes and intralogistics in the beverage industry

Whether disposable or returnable, glass or PET – SEW-EURODRIVE knows the tasks, processes and intralogistics of the beverage industry and provides individual automation solutions based on a modular system for more efficiency and flexibility.

Removing from pallets  Unpacking  Bottle transport  PET air transport
Bottle washing machine  Aseptic  Filling/closing  Labeling
Mixing  Packing  Order picking  Palletizing
## Drives from SEW-EURODRIVE set standards

### Dry area

- Sorting systems (empty bottles)
- Bottle transport
- PET air transport
- Packaging unit transport
- Pallet transport
- Palletizers
- Distribution switches
- Grouping stations
- Carton erector
- Carton lid sealer
- Shrink packer
- Packing and unpacking machine

### Gearmotors + frequency inverters

- Standard gearmotors in helical, parallel shaft helical, helical-worm and helical-bevel gearmotors in a variety of designs and options as customized solution for each task
- MOVIDRIVE® inverters and MOVITRAC® frequency inverters
- MOVI-PLC® motion control with integrated control technology

### Special designs for the dry area

- Helical-bevel and worm gear shaft-mounted gear unit with
  - uniform hollow shafts to standardize the drive shafts, resulting in less inventory space and maintenance
  - closing cover on the back of the gear unit to prevent the ingress of dirt and moisture
  - appropriate disassembly kits for ease of servicing
  - the same torque arm for different sizes to reduce the number of parts in stock, facilitate servicing and offer greater flexibility
  - breather valve installed and activated as standard
  - NOCO® fluid free of charge for protection against contact corrosion
  - gear units optionally filled with food grade oil
  - connection via motor plug connector for ease of installation and service

### Decentralized drive systems

- MOVIMOT® gearmotors with integrated frequency inverter
- MOVI-SWITCH® gearmotors with integrated circuit breaker and protective function
- Field distributor
- MOVIFIT®, drive control system for innovative decentralized installations (with frequency inverter or motor starter for mounting close to the motor)

### Servo drive systems

- Asynchronous and synchronous servomotors
- Low backlash servo planetary gear units and helical-bevel servo gear units
- MOVIAxis® multi-axis servo drive
Low-maintenance production – Solutions for dry areas

Drive technology from SEW-EURODRIVE fulfills all basic requirements for dry areas reliably and competently:

- Absolutely reliable in continuous operation
- Allows for flexible product and batch changes

Our comprehensive modular system offers the right solution for each and every application, e.g. bottle transport: Standard gearmotors and inverters instead of complex special designs ensure short changeover and restart times.

The power density, multitude of variants, overload capacity and reliability of all SEW-EURODRIVE components give the user the desired security – optimally positioned and highly efficient in every application.

Advantages of SEW-EURODRIVE drive technology in dry areas:
- Reliability
- Flexibility for product and batch changes
- Consistency and scalability, e.g. with respect to power and functions
We offer special solutions as standard

<table>
<thead>
<tr>
<th>Examples for systems and applications</th>
<th>Possible solutions from SEW-EURODRIVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wet area</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Control cabinet</strong></td>
</tr>
<tr>
<td></td>
<td>– MOVIDRIVE® inverters and MOVITRAC® frequency inverters</td>
</tr>
<tr>
<td></td>
<td>– MOVI-PLC® motion control with integrated control technology</td>
</tr>
<tr>
<td></td>
<td>– Gearmotors with</td>
</tr>
<tr>
<td></td>
<td>- enclosure IP66 – protected against powerful water jets</td>
</tr>
<tr>
<td></td>
<td>- closing cover on back of gear unit</td>
</tr>
<tr>
<td></td>
<td>- anti-corrosion protection for motor (KS)</td>
</tr>
<tr>
<td></td>
<td>- condensation drain hole</td>
</tr>
<tr>
<td></td>
<td>- wet acid protection of winding</td>
</tr>
<tr>
<td></td>
<td>- surface protection OS2, optional OS3 or OS4</td>
</tr>
<tr>
<td></td>
<td>- double oil seals on the output end</td>
</tr>
<tr>
<td></td>
<td><strong>Decentralized Drive Systems</strong></td>
</tr>
<tr>
<td></td>
<td>– MOVIGEAR®, the mechatronic drive system</td>
</tr>
<tr>
<td></td>
<td>– MOVIFT® Hygienic® drive control system</td>
</tr>
<tr>
<td></td>
<td>- Frequency inverter or motor starter</td>
</tr>
<tr>
<td></td>
<td>- Enclosure IP69K</td>
</tr>
<tr>
<td></td>
<td>- Surface protection</td>
</tr>
<tr>
<td></td>
<td>– MOVIMOT® or MOVI-SWITCH® gearmotors with</td>
</tr>
<tr>
<td></td>
<td>- particularly corrosion-proof cable glands</td>
</tr>
<tr>
<td></td>
<td>- wiring space with increased resistance to moisture condensation</td>
</tr>
<tr>
<td></td>
<td>- OS1 surface protection</td>
</tr>
<tr>
<td></td>
<td>- continuous housing pressure equalization</td>
</tr>
</tbody>
</table>
Corrosion damage impossible – Solutions for wet areas

Machines and systems in wet areas are subject to many corrosive influences, such as moisture, oil, dirt or chemicals. Consequently, the demands placed on the drives are high. Drive technology from SEW-EURODRIVE offers optimum surface and corrosion protection, even in extreme environments, with a variety of targeted additional treatments and special materials. The combination of preventive measures on the inside and on the outside guarantees tightness, offers reliable protection of the drives from corrosive damage, and ensures trouble-free operation.

Advantages of SEW-EURODRIVE drive technology in wet areas:
- Tightness
- Corrosion protection
- Reliability
- Flexibility for product and batch changes
- Consistency and scalability, e.g. with respect to power and functions
<table>
<thead>
<tr>
<th>Surface protection</th>
<th>Ambient conditions/sample applications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standard</strong></td>
<td>Suitable for machines and systems in buildings and rooms indoors with neutral atmospheres.</td>
</tr>
<tr>
<td></td>
<td>Similar to corrosion category*:</td>
</tr>
<tr>
<td></td>
<td>- C1 (negligible)</td>
</tr>
<tr>
<td><strong>0S1</strong></td>
<td>Suitable for environments with condensation, and atmospheres with low humidity or contamination level, such as outdoors applications under roof or with protection.</td>
</tr>
<tr>
<td></td>
<td>Similar to corrosion category*:</td>
</tr>
<tr>
<td></td>
<td>- C2 (low)</td>
</tr>
<tr>
<td><strong>0S2</strong></td>
<td>Suitable for environments with high humidity or mean atmospheric contamination, such as outdoors applications subject to direct weathering.</td>
</tr>
<tr>
<td></td>
<td>Similar to corrosion category*:</td>
</tr>
<tr>
<td></td>
<td>- C3 (moderate)</td>
</tr>
<tr>
<td><strong>0S3</strong></td>
<td>Suitable for environments with high humidity and occasionally severe atmospheric and chemical contamination. Occasionally acidic or caustic wet cleaning. Also for applications in coastal areas with moderate salt load.</td>
</tr>
<tr>
<td></td>
<td>Similar to corrosion category*:</td>
</tr>
<tr>
<td></td>
<td>- C4 (high)</td>
</tr>
<tr>
<td><strong>0S4</strong></td>
<td>Suitable for environments with permanent humidity and severe atmospheric or chemical contamination. Regular acidic or caustic wet cleaning also with chemical cleaning agents.</td>
</tr>
<tr>
<td></td>
<td>Similar to corrosion category*:</td>
</tr>
<tr>
<td></td>
<td>- C5-I (very high)</td>
</tr>
</tbody>
</table>

* to DIN EN ISO 12944-2

Perfect surface protection for every application
Cleansing and disinfection

Drive engineering from SEW-EURODRIVE combined with cleansing agents and disinfectants from ECOLAB for optimum protection

Compatibility test for cleansing agents made by ECOLAB
Base: Steel or aluminum, coating system: OS4

This certificate is based on:
– documented test procedure according to material resistance
– defined product descriptions
– standardized cleaning procedure

Test procedure:
The testing cycle (1,500 cycles) simulates daily cleaning according to product-specific instructions for a time period of five years.

Evaluation takes place approximately seven days after regeneration.

Cleaning procedure (abridgement*)

Rinsing with water 40 ... 50 °C
– Rinsing with low pressure. Rinsing from top to bottom in the direction of the drains
– Cleaning of the drains

Foaming from top to bottom
– Concentration: 1 ... 5 %
– Use: daily (P3-topax 56, P3-topax 99 and P3-topactive 500 if required)
– Temperature: cold ... 60 °C

Rinsing with water 40 ... 50 °C
– Rinsing from top to bottom with low pressure

Contact time
– A contact time of 10 ... 30 min. is recommended

* Summary, detailed cleansing schedule according to specification by ECOLAB
For operation in hygienic production areas

<table>
<thead>
<tr>
<th>Examples for systems and applications</th>
<th>Possible solutions from SEW-EURODRIVE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Aseptic area</strong></td>
<td><strong>ASEPTIC™ drive package and gearmotors</strong></td>
</tr>
<tr>
<td>– Filling/closing</td>
<td>– Motors with smooth surfaces; no dirt build-up</td>
</tr>
<tr>
<td>– Container transport</td>
<td>– No fans, pure convection cooling and no air swirls</td>
</tr>
<tr>
<td>– Bottle transport</td>
<td>– Motor power from 0.25 - 1.5 kW in S1 continuous duty</td>
</tr>
<tr>
<td></td>
<td>– Motor enclosure IP66/IP69K (brake motors IP65)</td>
</tr>
<tr>
<td></td>
<td>– Contour recesses filled with rubber</td>
</tr>
<tr>
<td></td>
<td>– Double oil seals at output made of Viton (FKM)</td>
</tr>
<tr>
<td></td>
<td>– Stainless steel breather valve</td>
</tr>
<tr>
<td></td>
<td>– Integrated IS connector in enclosure IP69K</td>
</tr>
<tr>
<td></td>
<td>– Cable entry with screw plugs made of stainless steel</td>
</tr>
<tr>
<td></td>
<td>– Gear unit output shaft made of stainless steel as solid shaft, hollow shaft with key or TorqLOC® for gear unit types: R17-97, F37-97, K37-97, S37-97 and W30</td>
</tr>
<tr>
<td></td>
<td>– All retaining parts at the output shaft, such as screws, keys, shrink disk, etc., made of steel</td>
</tr>
<tr>
<td><strong>MOVIGEAR®, the mechatronic drive system in Hygienic Design</strong></td>
<td>– No additional fans or blowers</td>
</tr>
<tr>
<td></td>
<td>– Smooth surface, self-cleaning</td>
</tr>
<tr>
<td></td>
<td>– High degree of protection</td>
</tr>
<tr>
<td><strong>MOVIFIT® Hygienic™ drive control system for decentralized installations</strong></td>
<td>– Enclosure IP69K</td>
</tr>
<tr>
<td></td>
<td>– Easy cleaning due to self-draining design</td>
</tr>
<tr>
<td></td>
<td>– Compatibility with cleaning agents</td>
</tr>
<tr>
<td></td>
<td>– Antistick properties</td>
</tr>
<tr>
<td></td>
<td>– Surface highly impact-resistant</td>
</tr>
<tr>
<td></td>
<td>– Insensitive to temperature fluctuations</td>
</tr>
</tbody>
</table>
Don’t give germs a chance – Solutions for hygiene areas

Drive engineering solutions from SEW-EURODRIVE not only meet the operating requirements in the standard hygienic area but can also be used if there is a need for resistance to aggressive cleansing agents and disinfectants. Often, regulations stipulate a completely germ-free environment. The drive solutions used in the past made it very hard to clean the production system as thoroughly as required because standard motors usually have cooling fins and fans. The dirt collects in these areas and cannot be removed completely because their design makes access difficult. This can lead to a build-up of germs!

**Advantages of SEW-EURODRIVE drive technology in hygiene areas:**
- Smooth surfaces
- Reduced accumulation of dirt
- Tightness
- Corrosion protection
- No air swirls thanks to convection cooling
- Reliability
- Flexibility for product and batch changes
- Consistency and scalability, e.g. with respect to power and functions

<table>
<thead>
<tr>
<th>DAS series aseptic motors</th>
<th>Suitable for dry or humid hygienic areas with mean atmospheric contamination. Also suitable for particularly dusty environments. Similar to corrosion category*:</th>
</tr>
</thead>
<tbody>
<tr>
<td>OS2-OS4 as option</td>
<td>– C3 (moderate)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DAS series aseptic motors with ASEPTICplus drive package</th>
<th>Suitable for hygienic areas in the food and beverage industry with permanent humidity and regular acidic and wet cleaning with chemical cleaning agents. Cleaning with compressive stress up to 80 bar. Similar to corrosion category*:</th>
</tr>
</thead>
<tbody>
<tr>
<td>OS4</td>
<td>– C5-I (very high)</td>
</tr>
</tbody>
</table>

* to DIN EN ISO 12944-2
Solutions for hygienic design

Drive control system for decentralized installations: MOVIFIT® HygienicPlus

For the MOVIFIT® drive control product range, a series in hygienic design was developed. For these components, SEW-EURODRIVE has taken the familiar advantages of decentralized installation technology (such as short wiring distances and modular machine design) and combined them with the beverage industry's special requirements in terms of leak-tightness and cleaning.

Overview of benefits:
- Configurable inverter up to 4 kW
- Motor starter up to 4 kW (reversing or duo starter)
- Integrated energy distribution
- Fieldbus or network interface
- Local I/O
- Simple startup
- Enclosure IP69K
- Self-draining design according to the DIN EN ISO 14159 guidelines
- Surface protection
- Enclosed electronics and wiring compartments
- Cable entry via stainless steel cable glands

MOVIFIT® is suitable for field installation, tested in accordance with IP69K, and protected with a special surface coating. The new housing design meets the criteria for self-draining design without any dead spaces. In addition, the power electronics are protected against moisture by means of the internal double-chamber design in which the electronics and the connection technology are physically separate. Furthermore, this design makes for quick replacement of electronics without wiring work – for increased system availability.
Mechatronic drive system: MOVIGEAR®

The mechatronic drive system MOVIGEAR® excels in hygiene areas due to its smooth surface design. The geometric design of MOVIGEAR® has followed the Hygienic Design guidelines already during the project stage. This minimizes cleaning efforts, which leads to reduced cleaning and standstill times and ultimately to reduced operating costs. The smooth surface design of MOVIGEAR® prevents the accumulation of dirt; the units are virtually self-cleaning.

Advantages at a glance:

- Completely enclosed mechatronic drive system:
  - Uses the principle of surface cooling
  - No additional fans or blowers
  - No dirt is sucked in
  - Germs and bacteria cannot be distributed by air swirls
- High degree of protection
- Electronics can be replaced quickly without removing the connection cables

MOVIGEAR® guarantees maximum system availability also in hygiene areas. Sensitive production areas can be equipped with MOVIGEAR® according to the decentralized installation principle without additional expenses for the cleaning of the drives.
With its patented TorqLOC® mounting system, SEW-EURODRIVE is setting another standard in drive technology. It is an alternative to conventional connection techniques using keys or shrink disks, both technically and economically.

Setting service standards

TorqLOC® is a non-positive clamping joint that functions similarly to the classic shrink disk connection that has proven its worth over a number of decades. However, TorqLOC® simplifies the mounting and removal processes and enables plant manufacturers and end customers to save costs.

Simple

The design of the TorqLOC® hollow shaft mounting system makes for simple assembly and significantly improves removal of the drive even after lengthy periods of operation. SEW-EURODRIVE will deliver the drive with the matching bushing. The operator will install the stop ring on the customer shaft and the drive can be simply mounted and fixed. The installation is simple and fast because there are no interference fits that have to be overcome. Removal is just as simple and takes place in reverse order.

Economical

The TorqLOC® hollow shaft mounting system makes it possible to use drawn, unprocessed material all the way to quality level h11 for customer shafts, reducing costs even further! No additional machining of the customer shaft required!

Flexible

A well thought-out product down to the smallest detail: Up to four different rated diameters can be adapted with one hollow shaft reducer.
TorqLOC® hollow shaft mounting system

- For ease of installation and removal, even after a longer period of operation
- Optional use of drawn, unprocessed material up to quality level H11
- Different diameters adaptable with a hollow shaft
- NOCO® fluid, a compound that prevents contact corrosion — food grade in accordance with USDA-H1
The basis for this concept is the modular energy saving system from SEW-EURODRIVE. It comprises only components with reduced energy consumption and improved efficiency, such as the mechatronic MOVIGEAR® drive system, the new modular DR motor system, or the MOVIDRIVE® and MOVITRAC® inverters. The energy saving properties of the individual components are already considered during the development phase in accordance with the specific requirements of the application.

But it is only the combination of motor, gear unit, frequency inverter and controller that makes the individual energy-efficient drive components real energy-saving solutions. In addition to that, SEW-EURODRIVE offers individual energy consulting. The specially designed energy saving checklist of SEW-EURODRIVE provides a first overview on the way to the ideal energy saving solution and highlights the options for optimizing power losses and output power.

All-encompassing cost evaluation for reducing life cycle costs

**Standardization and modularization:**
- Reduced number of components
- Reduced spare parts storage
- Reduced testing and startup times
- Flexible plant adaptation or expansion
- Reduced planning and startup costs
- Reduced expenses for instruction and training
- Cost-effective system documentation
- Higher availability of the plant for faster value creation

**Central project management:**
- Efficient coordination of internal and external processes
- Reduced in-house transaction costs
- Avoiding redundant expenses
- Efficient risk and change management
- Improved cost transparency and investment security

**Preventive maintenance and repair:**
- Worldwide service
- CDS® Complete Drive Service
- 24-hour hotline
Comparison of standard variants and optimized solutions

**Example:**
Bottle conveyor in a bottling plant with 105 drives with a drive power of approx. 1.1 kW, 1.5 kW and 2.2 kW

<table>
<thead>
<tr>
<th>Variant</th>
<th>Description</th>
<th>Efficiency</th>
<th>Energy Costs / Year</th>
<th>Amortization of Additional Costs after</th>
<th>Total Savings after 5 Years of Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Variant 1</strong></td>
<td>105 helical-worm gearmotors with standard motors and standard frequency inverters in the control cabinet</td>
<td>94 %</td>
<td>€ 44,150</td>
<td>about 1.2 years</td>
<td>€ 26,650</td>
</tr>
<tr>
<td><strong>Variant 2</strong></td>
<td>105 KA47 helical gear units with energy efficient DRE motor and decentralized MOVIFIT® FC drive control</td>
<td>98 %</td>
<td>€ 37,020</td>
<td>about 1.3 years</td>
<td>€ 35,300</td>
</tr>
<tr>
<td><strong>Variant 3</strong></td>
<td>Mechatronic drive system MOVIGEAR® SNI with 105 MOVIGEAR® drive units</td>
<td>100 %</td>
<td>€ 34,500</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* The calculation is based on 3,500 hours of operation/year x 0.10 €/kWh x system power
We consider service as an integrative measure over the entire life cycle of a plant. Our sales engineers will assist you with expert advice, analysis and project planning for your application as early as the planning phase.

Our 64 assembly plants located in 46 countries around the globe are the reason why our service specialists are always close at hand. They ensure unmatched availability of materials and resources. Installation, startup and service are performed on-site quickly and individually.

Our global after-sales service and the CDS® Complete Drive Service portfolio offer preventive maintenance for long-term, trouble-free operation. And if anything does go wrong, we offer a 24/7 hotline for maximum availability.
Whether you require startup, repair, spare parts, condition monitoring, preventative maintenance, maintenance management, Total Cost of Ownership (TCO), Life Cycle Costing (LCC), energy saving measures or 24-hour availability: The individual modules from SEW-EURODRIVE’s CDS® system can be combined to offer a service tailored to suit all requirements. Each module is based on the expertise of a global player with practical experience and an understanding of customer service at the highest level. Feel free to contact us for further information.

**CDS® Complete Drive Service – the modules:**

- 24h Service Hotline 01805 SEWHELP
- Installation consulting service
- Startup service
- Application programming service
- Inspection and maintenance service
- Repair service
- Spare parts service
- Express assembly service
- Industrial gear unit service
- Pickup and delivery service
- Drive modernization service
- Condition monitoring service
- CDM® – Maintenance Management
- Training service

24h Service Hotline 01805 – SEWHELP 01805 – 7394357
We are not content simply to provide standard pre- and after-sales services. SEW-EURODRIVE provides a package of drive technology services that meets all demands. And to ensure that this remains the case, regular staff training and close contact to our customers and system operators are vital.

In DriveAcademy product training courses, staff and customers are given in-depth product and basic training to suit their individual requirements. The contents of the training courses are adapted to the needs and educational background of the participants to ensure focused, ongoing training. In these courses, participants learn about project planning, servicing of electrical drives, startup and maintenance, or the latest developments in decentralized drive engineering, for example. The courses are held at the company’s head office in Bruchsal or at our assembly plants worldwide, or even at a site of your choice.

For information on training courses and dates, go to www.drive-academy.de
Always available:
Our website (www.sew-eurodrive.de) not only includes up-to-date information, seminars currently on offer and detailed documentation, it also provides software updates for you to download and support with project planning and parameter setting. It is also easy to purchase spare parts and track the status of your orders via DriveGate, your personal online access.
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