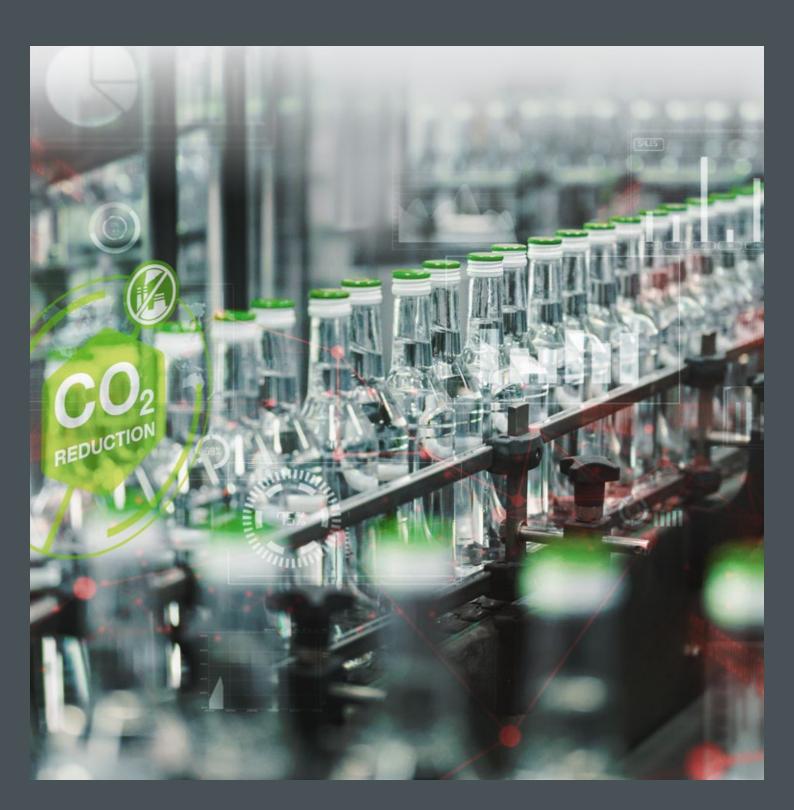


Drive solutions for the beverage industry



Drive solutions that impress

For an industry with taste.

Conveying, filling, dispensing, stirring, mixing - the beverage industry has to move a lot of liquids. SEW-EURODRIVE is the motor for that movement. That is not just because we are a market leader in drive and automation technology, but also because, for more than 90 years, we have been giving everything we have to always develop the best possible solutions for our customers.

We look at the bigger picture in everything we do:

- → As an owner-operated family enterprise that takes quality and responsibility personally.
- → As a leading innovator that breaks new ground with pioneering ideas and plays a big part in shaping the future of drive technology.
- → And as a dependable partner that is always on hand with wide-ranging advice and services, no matter what your wants and needs.



The beverage industry is everywhere, and so is SEW-EURODRIVE.

With over 22 000 employees and a uniquely dense network of production, service and sales sites, we are always nearby, no matter where you are - in Germany, in Europe and everywhere else in the world.

Whether you want to develop a new system, take out skilled services, find spare parts, organize repairs or get professional advice:

The solution is only ever one phone call away!





57 countries



> 22 000 employees



110 000 active customers



individual parts/ month at > 100 sites



525 600 minutes a year, we are available for you



Solutions for countless industries

Big challenges call for great solutions.

The beverage industry is changing. The pandemic and economic developments have changed consumers' needs and values.

Health, sustainability, the environment and personal wellbeing are becoming increasingly important themes. The industry has to follow several trends if it is to meet consumers' requirements and stay competitive.





Sustainability

continues to be a key theme due to ever greater climate change. Politicians are demanding clear reductions in CO_2 emissions and are responding with higher levies. A growing number of consumers are also looking for solutions that are more sustainable. Besides sustainable production and recyclable packaging, ingredients should also be natural and organic. Animal welfare and climate change are much more prominent in the public consciousness, which is leading to an increased demand for dairy-free products.

Health

and personal wellbeing are a priority for consumers. Beverages with less sugar, caffeine and alcohol and fewer calories are in demand. And that's not all – drinks fortified with vitamins and dietary supplements that actively boost our health also play an important role. Health and fitness awareness is having a major impact on the beverage industry.







Personalization

is another trend in the beverage industry. Besides driving demand for different packaging sizes and personalized packaging, such as having your own name on a bottle, this trend is also increasingly impacting products themselves. Unusual, exotic and exciting flavor combinations are creating sensory experiences for consumers. Whether thirst-quenching water with a twist of lemon or red beet coffee, the range of options is impressive.

Transparency

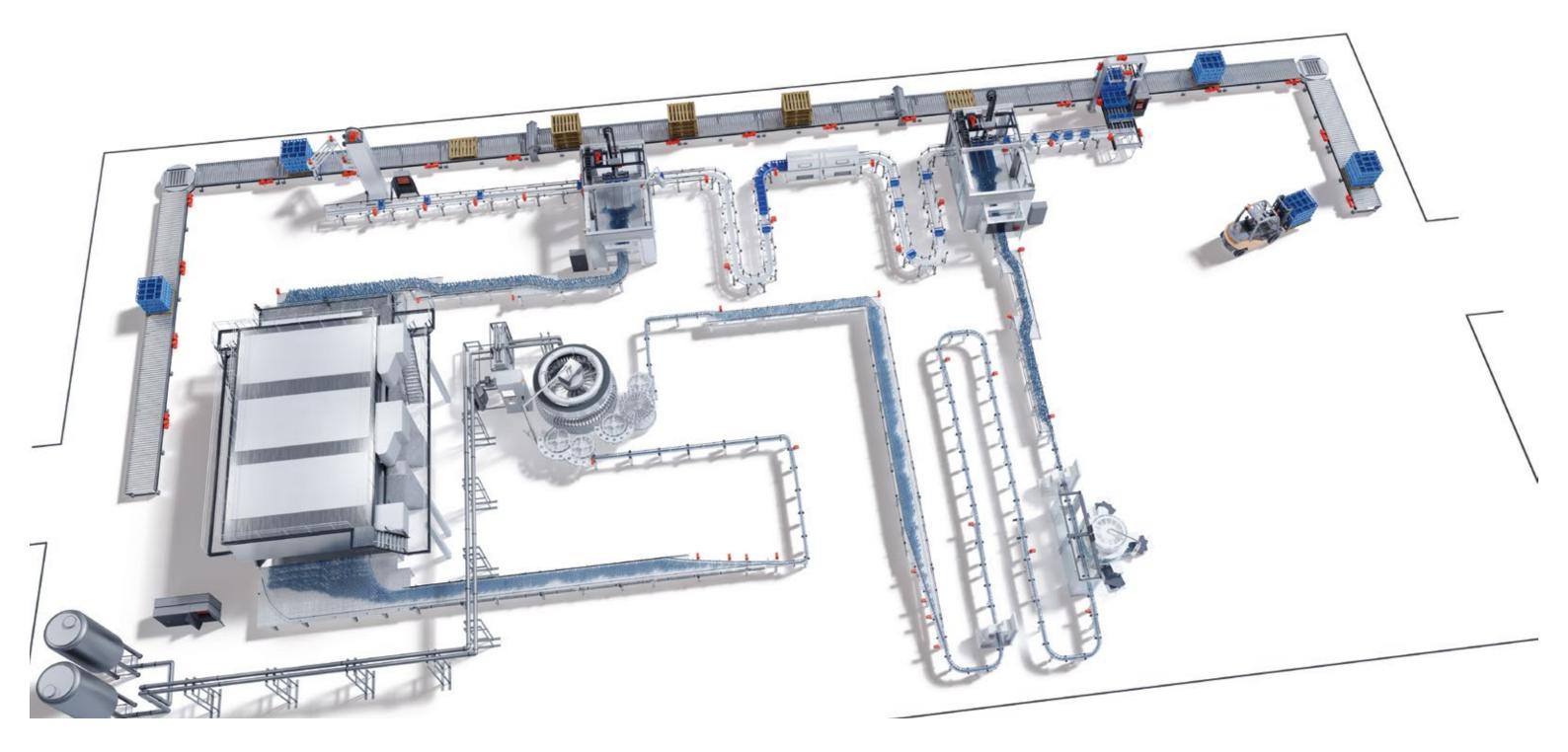
and the resulting seamless traceability of production and supply chains are being demanded by an ever-growing number of consumers. This requires compatible communication interfaces at all points of the process chain that a product and its ingredients pass through.

Our solutions for the beverage industry

Impressive in all areas of the beverage industry

Transport technology / machine technology / process technology

- → The big industry trends what do they mean in real terms for your application?
- → Which solutions are available for the different subsections of the beverage industry?
- → And how can you use them to meet current and future challenges?



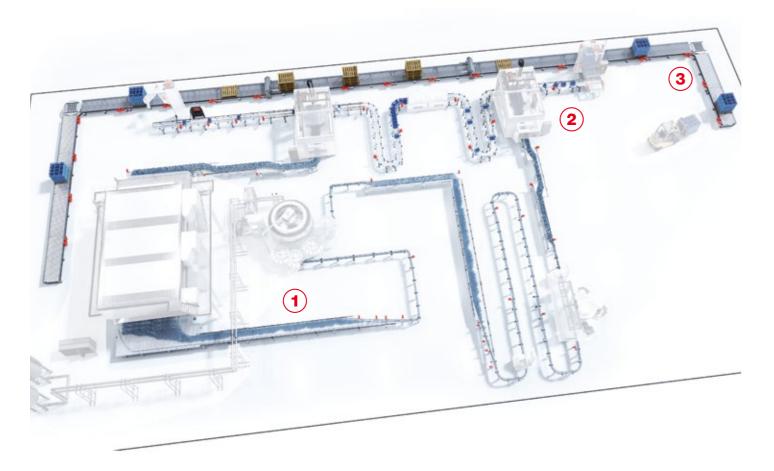
Transport technology

The link that connects machines

The term "transport technology" refers to all the materials handling technology between machines in the beverage industry. A particularly high level of flexibility is important in system design for this technology, since customer requests need to be taken into account on a case-by-case basis. Reliable, energy-efficient drive solutions are what's required, along with pioneering digital networking for all components.

Your challenges:

- CO₂ reduction
- High system availability
- Hygiene requirements







Container transport

Container transport is about moving containers between the machines in beverage filling lines.

Your requirement

- Precise control of the containers for careful transportation
- Lower energy consumption
- Drive solution for challenging ambient conditions such as wet areas
- Fast installation and startup

Our solution

MOVIGEAR® classic drive unit

- Compact thanks to fully integrated gear unit, motor and inverter
- IE5 motor energy efficiency class
- Available in design for use in wet areas

MOVITRAC® advanced standard inverters

- Fast and simple startup
- Configurable functional safety
- Connection to standard control systems

GearOil by SEW-EURODRIVE and GearFluid by SEW-EURODRIVE

- Protection against leaks and the erosion of wear parts
- Up to 50% longer service life
- Biodegradable lubricants for sensitive areas





Packaging unit transport

Packaging unit transport is responsible for transporting, positioning, distributing and turning packaging units on the filling line.

Your requirement

- High control quality for fast, dynamic speed control
- Low noise emission levels
- Lower energy consumption
- Simple cleaning

Our solution

MOVIGEAR® performance drive unit

- Compact drive unit with inverter integrated into the motor
- Maximum efficiency (better than IE5)
- Overload capacity up to 300%

MOVITRAC® advanced standard inverters

- Fast and simple startup
- Configurable functional safety
- Connection to standard control systems

MOVIKIT® software modules

- Application-specific parameterization with no need for programming know-how
- Simple implementation of complex processes
- Lower startup costs



Pallet transport

During pallet transport, pallets of packaging units are moved from empties receiving to filled goods dispatch.

Your requirement

- Coping with high breakaway torques when transporting heavy loads
- Sturdy technology due to harsh ambient conditions
- Lower energy consumption
- Positioning during lifting and placing of packaging units

Our solution

DR... AC motors

- Satisfy IEC standard energy efficiency classes up to IE4
- Motor features such as brakes can be selected by customers as optional equipment
- Global motor simultaneously satisfies various local standards-based requirements and certifications

MOVIMOT® decentralized drive unit

- Combination of gearmotor and digital frequency inverter
- Fast installation and startup
- Durable and easy to clean, even in harsh environments

MOVIKIT® software modules

- Application-specific parameterization with no need for programming know-how
- Simple implementation of complex processes
- Lower startup costs



Further information on transport technology can be found at:

www.sew-eurodrive.de/transport-technology

Machine technology

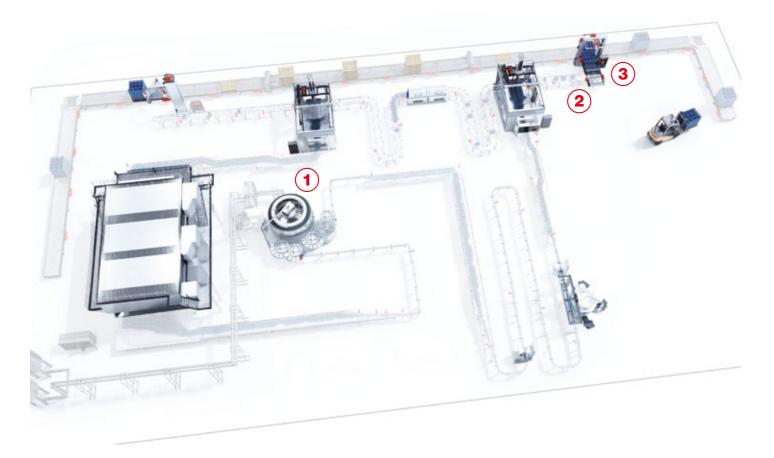
A high level of flexibility for new product formats

When it comes to products in the beverage industry, consumers' wishes and requirements are constantly changing. The industry is known for its rapidly switching trends. This means great demands are placed on foodstuffs producers and, therefore, also on manufacturers of filling lines and packaging machines.

To ensure specific customer requirements can be met quickly, it is important companies can develop new machinery and make it available fast. Flexible machine modules make this possible.

Your challenges:

- Flexible product formats
- Energy savings
- Connectivity





Filling machine

The principal task involves filling receptacles with a precise volume of liquids, which are of different viscosities and include both still and carbonated beverages.

Your requirement

- Exact positioning for precise dispensing
- Optimization of motion profiles
- Fast and easy product changeover
- Excellent hygiene and ease of cleaning

Our solution

PSH..CM2H stainless steel servo gearmotors

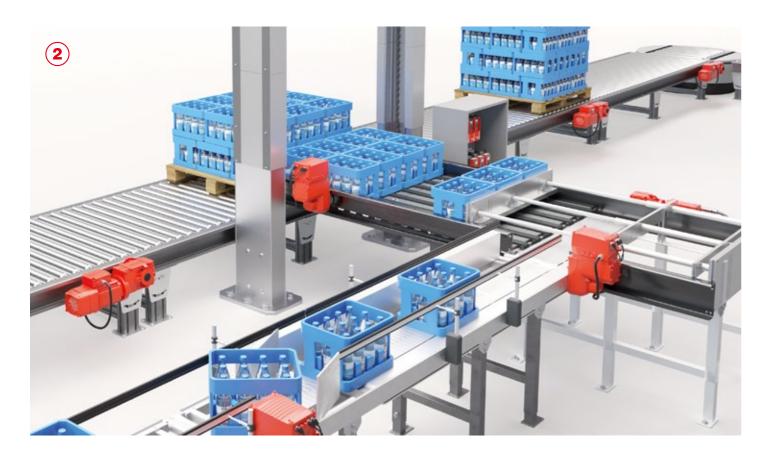
- Short cleaning times thanks to hygienic design
- Precise and reliable positioning thanks to integrated feedback systems
- Compact design

MOVIDRIVE® modular multi-axis system

- Compact single-axis and double-axis module
- Scalable functional safety
- Up to 30 drives on one power supply module

MOVIKIT® AntiSlosh software module

- Preconfigured software module
- Application-specific parameterization with no need for programming know-how
- Minimizes the sloshing of liquids



Grouping station

The grouping station is where containers are positioned, rotated, moved and pre-grouped to form multipacks or layers for palletizing.

Your requirement

- A high level of precision and dynamics
- Flexible and versatile grouping
- Precise, interlocking pallet stacking

Our solution

MOVIKIT® Robotics software module

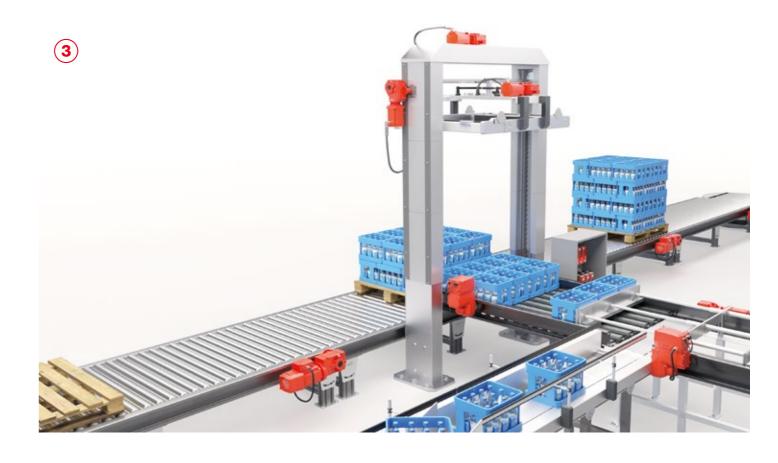
- Preconfigured software module
- Ideally suited for integration into high-performance tripod and delta robot technologies
- Products can be aligned precisely and carefully

CMP.. series synchronous servomotors

- Highly dynamic and precise movement
- Direct motor mounting to gear units from our modular gear unit system
- Compact design for use in the tightest of spaces

MOVI-C® control technology

- High-performance hardware
- Easily programmable software thanks to preconfigured software modules
- User-friendly visualization solutions



Palletizers

During pallet transport, pallets of packaging units are moved from empties receiving to filled goods dispatch.

Your requirement

- Handling heavy loads and different layers and identifying containers and layers
- Precise control for the gentle transportation of containers
- Lower energy consumption

Our solution

CM3C.. series synchronous servomotors

- Powerful and precise movement, even with high external loads
- Reliable holding and braking during emergency stops, thanks to optional spring-loaded brake with enhanced working capacity
- Dirt-repellent hygienic-friendly design

MOVIKIT® Robotics software module

- Preconfigured software module
- Ideally suited for integration into high-performance tripod and delta robot technologies
- Products can be aligned precisely and carefully

Power and Energy Solutions

- Efficient grid output management and energy management
- Intelligent energy distribution, recovery and storage
- Reduction of power peaks from the grid



Further information on machine technology can be found at: www.sew-eurodrive.de/machines

Process technology

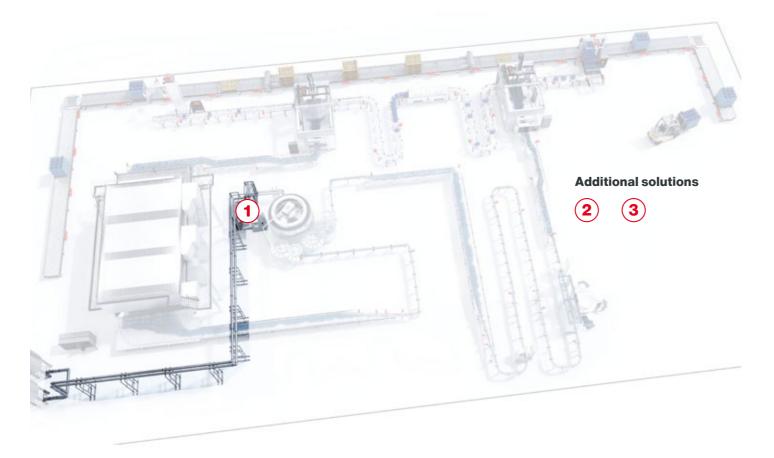
From delivery through to the finished product

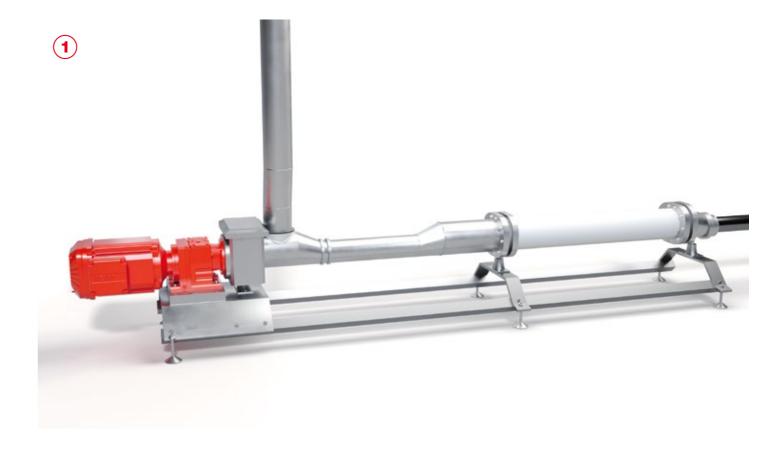
In ever more complex production processes that also exhibit a high level of flexibility, demands increase with every new product innovation and every new customer request for more personalization.

Not only do production processes in the beverage industry also have to factor in stringent hygiene standards, they need to perfectly harmonize the supply of raw materials and many different stations such as pumping, stirring and mixing points as well.

Your challenges:

- Reliable drive technology
- Hygiene requirements
- CO₂ reduction





Pumps

Progressive cavity pumps and dispensing pumps are classified as displacement pumps. While progressive cavity pumps are used for conveying media such as milk-based products, dispensing pumps are used for precise filling into the relevant containers.

Your requirement

- High dispensing accuracy
- Smooth running
- Excellent hygiene

Our solution

DR.. AC motors

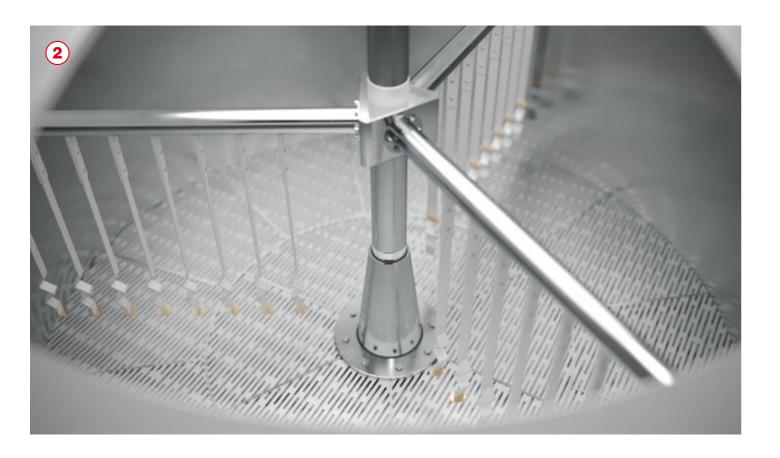
- Satisfy IEC standard energy efficiency classes up to IE4
- Speed management and positioning tasks with integrated and/or add-on encoders
- Global motor design simultaneously satisfies various local statutory and standards-based requirements and certifications

R series helical gear units

- Energy-efficient gear units with finely stepped torque classes
- Easily combined with AC motors or servomotors
- Optimum torque-to-installation-space ratio

CM3C.. series synchronous servomotors

- Powerful and precise movement, even with high external loads
- Save on installation work thanks to use of single-cable technology
- Achieve energy efficiency class IE5



Lauter tun

Lautering is a key part of the beer brewing process, when the solid and liquid components of the mash are separated in the lauter tun.

Your requirement

- Handling changing speeds and loads
- Energy-efficient and low-maintenance drive technology

Our solution

X..e series helical gear units / bevel-helical gear units

- Torque range from 6.8 to 475 kNm
- Large range of pre-defined optional equipment and options
- Short delivery times even in the case of customized modifications

P series planetary gear units

- Torque range from 25 to 631 kNm
- Particularly compact design for limited space
- High variability at input thanks to upstream gearmotors

MOVIDRIVE® technology application inverter

- Fast and simple startup
- Savings on operating costs thanks to energy-saving function
- Connection to standard control systems



Agitator

Agitators carry out a large number of tasks, such as mixing, dissolving, cooling, heating, hydrating, fermenting and emulsifying.

Your requirement

- Flexible agitator operation
- Handling different media

Our solution

DR.. AC Motors

- Satisfy IEC standard energy efficiency classes up to IE4
- Speed management and positioning tasks with integrated and/or add-on encoders
- Configurable power ratings from 0.09 kW to 375 kW

K series helical-bevel gear units

- High efficiency over the entire gear ratio range
- Long service life with wear-free gearing
- Long maintenance-free service life

MOVITRAC® advanced standard inverters

- Fast and simple startup
- Configurable functional safety
- Connection to standard control systems



Further information on process technology can be found at: www.sew-eurodrive.de/process-technology

Life Cycle Services

Perfect fully comprehensive service

SEW-EURODRIVE offers services that span the entire life cycle, from planning through maintenance to modernization. Every aspect is covered by one and the same supplier – a company that has more than 90 years of experience in drive and automation technology and is always close at hand throughout Germany.

We would be more than happy to put together a customized service package for you – completely tailored to your needs and scalable at any time.

Your most important aims:

- Needs-based modernization
- Less downtime
- Fully comprehensive maintenance management







A great solution – with plenty of benefits

Everything from a single source

You receive services, tools and resources that are closely intermeshed with our product portfolio – all from a single source.

A single contact person

We are at your service, and we demonstrate personal commitment. We have branches throughout Germany.

Reliability

You receive rapid, dependable assistance that ensures your production sequence will run reliably.

Expertise and advice

You can build on our over 90 years of expertise in the field of drive and automation technology and benefit from personalized consulting.



Further information can be found at: www.sew-eurodrive.de/en/life-cycle-services

Throughout every stage we offer the ideal service



















Modernization



Orientation

Personal consulting

- Application and industry expertise
- Information sharing at innovation level
- Rules and regulations
- Current and future trends
- Knowledge transfer

Planning & engineering

- · Operating and maintenance concepts
- Energy consulting
- Engineering
- Concept development
- Project planning and design
- · Safety-related consulting
- Training
- · Variant management

Procurement & delivery

- Barcode labels (DriveTag)
- Electronic data interchange (EDI)
- Electronic delivery notification
- Electronic billing
- Delivery service

Installation & startup

- Application programming
- Startup
- · Installation consulting

- CDM® Complete Drive Management
- Inspection scope

- Repair

Operation

- Retrofit
- Condition monitoring
- Express assembly
- Energy management
- Spare part service
- · Collection & delivery Inspection & maintenance
- Quick check
- · Production monitoring
- Remote service
- Thermography
- 24h Service Hotline



Further information can be found at:

www.sew-eurodrive.de/beverage-industry



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