



## More Efficiency with Drive Systems from SEW-EURODRIVE

Port Logistics



## We drive port logistics

SEW-EURODRIVE is familiar with the requirements of port logistics – ports are basically major logistic enterprises. It seems as though the entire port is always busy with ships being unloaded and containers stored or loaded onto other means of transportation, such as trains or trucks.

In each of these steps, the goods must be lifted, moved, stacked and turned. There are a lot of demands placed on the drive engineering components to meet these different tasks in an affordable manner: modular design, reliability and availability are just as important as a sturdy design, high torques or a long service life.

Another reason to choose the drive engineering products of a professional, global player. Drive engineering “made by SEW-EURODRIVE” offers countless combinations through the modular system. We are able to create individual solutions that meet the requirements of the application in a flexible manner, such as special ambient conditions.

SEW-EURODRIVE is your competent partner for all areas, from process planning, through project planning all the way to startup; we also keep in mind the mutual goal of “reliable system operation.” Our services are available around the globe, reducing standstill times to a minimum!

Our reliable mechanical and innovative electronic drive components are the result of decades of experience in building drives for the field of port logistics, for example, for quay cranes, slewing, stacking or grab cranes, bucket wheel excavators or conveyors – SEW-EURODRIVE helps drive port logistics, whatever the application.

**Driving the world – with innovative drive solutions for all applications in port logistics. 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 work and simple handling in terms of operation and servicing mean you can be sure that your machines and equipment will work more efficiently right from the first time.**



“Drive systems from SEW-EURODRIVE create movement around the world. Even in your system.”



## High-quality products with excellent performance

The SEW-EURODRIVE modular concept offers millions of combinations. This wide selection enables you to choose the correct drive for all applications, each based on the required speed and torque range, space available and the ambient conditions. Even drive electronics fit perfectly into the modular system, convincing users through unit modularity and unit volume as well as highest control precision, integrated positioning and sequence control or hoist capability.

Drive electronics “made by SEW-EURODRIVE” means SEW-EURODRIVE develops, produces and assembles these electronic products. These features enable our drives to achieve maximum flexibility so you can face future challenges with confidence. Operator terminals enable optimum visualization of the system. They allow for display and control of production processes, particularly in conjunction with higher-level controllers.

### **Gearmotors + frequency inverters**

- Helical, parallel shaft helical, helical-worm, helical-bevel, SPIROPLAN® and planetary gearmotors
- Industrial gear units:
  - Helical and bevel-helical gear units
  - Planetary gear units
- Energy efficient motors
- Variable speed gearmotors
- Gearmotors for overhead trolley systems
- MOVIDRIVE® drive inverter
- MOVITRAC® frequency inverters
- MOVI-PLC® controllers

## Standard fieldbus interfaces

<b>Standard:</b>	<b>PROFIBUS, INTERBUS, DeviceNet, CAN, CANopen</b>
<b>Actuator / sensor bus:</b>	<b>RS-485 interface, AS-Interface</b>
<b>Safety fieldbus:</b>	<b>PROFIsafe, Safetybus P</b>
<b>Ethernet:</b>	<b>ETHERNET, PROFINET, Modbus TCP</b>

## Drive Systems from SEW-EURODRIVE

**Servo drive systems** provide precision and dynamics in single-axis or multi-axes applications as well as in synchronized process sequences:

- Low backlash servo planetary or helical-bevel gear units
- Powerful and compact servomotors
- Synchronous servo linear motors
- MOVIAxis® multi-axis servo drive

**Decentralized drive systems** provide efficient and decentralized installations regardless of system philosophy or size:

- MOVIMOT®, gearmotors with integrated frequency inverter
- MOVI-SWITCH®, gearmotors with integrated switching and protection function
- Field distributor
- Hybrid cables
- MOVIFIT® drive control system
- Contactless energy transfer with MOVITRANS® system components

System accessories:

- DOP Operator terminals
- Project planning aides
- Startup software
- Remote maintenance concepts



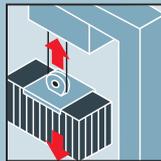
Only the best for your industry –  
drive engineering solutions from SEW-EURODRIVE

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 the development of special solutions as required in port logistics.

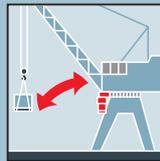


## Movement in port logistics

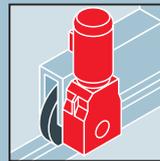
**Lifting**



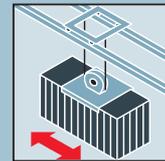
**Turning/  
swinging**



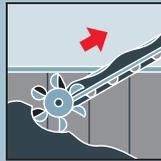
**Traveling**



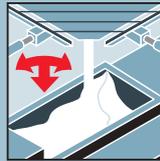
**Conveying**



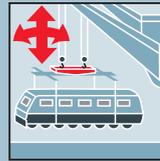
**Reclaiming**



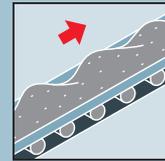
**Depositing**



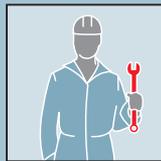
**Loading/  
unloading**



**Transporting**



**Service**



The movements in port logistics are characterized by a wide range of extremely varied tasks. As a systems supplier and drive engineering specialist, SEW-EURODRIVE has taken upon itself the task of offering solutions for all the requirements arising from this situation. This philosophy is based on our understanding of every single step in the port environment and the way in which we identify with the tasks facing the customer. As a result, SEW-EURODRIVE not only offers mechanical systems but has also concentrated on supplying the electronics to match.

# Delivery

Machines and applications	Solutions from SEW-EURODRIVE
<b>Container handling</b>	
<p><b>Main hoisting/boom hoisting:</b>            STS (ship-to-shore): Quay cranes</p> <ul style="list-style-type: none"> <li>– Trolley drive</li> <li>– Boom hoist</li> <li>– Travel drive</li> </ul> <p><b>Main hoisting/stacking cranes</b>            RTG (Rubber-Tyre-Gantry),            RMG (Rail-Mounted-Gantry) or            ACS (Automatic-Container-Stacker):</p> <ul style="list-style-type: none"> <li>– Main hoist</li> <li>– Trolley drive</li> <li>– Travel drive</li> </ul> <p><b>Trolley and gantry traveling for:</b></p> <ul style="list-style-type: none"> <li>– STS (Ship-To-Shore)</li> <li>– RTG (Rubber-Tyre-Gantry)</li> <li>– RMG (Rail-Mounted-Gantry)</li> <li>– ACS (Automatic-Container-Stacker)</li> </ul>	<ul style="list-style-type: none"> <li>– X series industrial gear units</li> <li>– M series industrial gear units</li> <li>– MC series industrial gear units</li> </ul> <ul style="list-style-type: none"> <li>– ML or X series industrial gear units</li> <li>– MC or X series industrial gear units</li> <li>– Helical-bevel gearmotors</li> </ul>
	

## Overview of industrial gear units

### 6 ... 48 kNm – MC Series

Very compact helical and helical-bevel gear units – a design that allows for great freedom in planning a system and requires very little space.

### 58 ... 175 kNm – X Series

Robust and comprehensive helical and bevel-helical series that can be optimally adjusted to the specific application due to finely stepped torque ratings. The universal modular system concept sets new standards in availability.

### 180 ... 680 kNm – ML Series

The helical and helical-bevel gear units of this series are the ideal basis for individual, customer-specific applications.

### 24 ... 359 kNm – P Series

Many customers want to be able to order planetary gear units “from the catalog.” Our P Series products are a move in the right direction to achieve this ideal situation. If you add the impressive efficiency of the series, you get an almost unbeatable and appealing product.

### 24 ... 359 kNm – PMC Series

This series is characterized by completely oil lubricated and maintenance-free roller bearings in combination with the high power density of the planetary output stage. The PMC series is particularly suitable for high gear ratios and small output speeds.

	Machines and applications	Solutions from SEW-EURODRIVE
	<b>Bulk material handling</b>	
	<ul style="list-style-type: none"> <li>– Conveyors (belt conveyors, conveyors)</li> <li>– Bucket wheel reclaimers</li> <li>– Slewing cranes</li> </ul>	<ul style="list-style-type: none"> <li>– Industrial gear units of the series: MC, X, ML or P and standard gearmotors but also MOVIFIT® drive control system</li> <li>– Industrial gear units of the PMC series</li> </ul>
	<b>General cargo handling</b>	
	<ul style="list-style-type: none"> <li>– Slewing cranes</li> <li>– Grab cranes</li> </ul>	<ul style="list-style-type: none"> <li>– Industrial gear units of the series: PMC and P, X and ML (hoisting)</li> </ul>
		

## Worldwide service

### For us, a complete system also means global presence and service



We see service as an integrative function. Our sales engineers will assist you with expert advice, open analysis and application project planning. You can find our specialists in 61 assembly plants located in 44 countries around the globe. They will be glad to answer any questions you might have and respond very quickly to any service call. Installation and startup are performed on-site quickly and individually, factors which are essential for smooth plant operation. Our global after-sales service offers preventative maintenance for long-term, trouble-free operation – guaranteed. And if anything does go wrong, we offer a 24/7 hotline for maximum availability.

Whether you require maintenance, repair, spare parts service, preventative maintenance, oil service or 24-hour availability: The individual

modules from SEW-EURODRIVE's CDS® – Complete Drive Service system can be combined with one another 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 SEW for further information.

#### CDS® – Complete Drive Service

The service brand from SEW-EURODRIVE

Request a brochure today!

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E-mail: [sc-mitte@sew-eurodrive.de](mailto:sc-mitte@sew-eurodrive.de)



24-hour 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



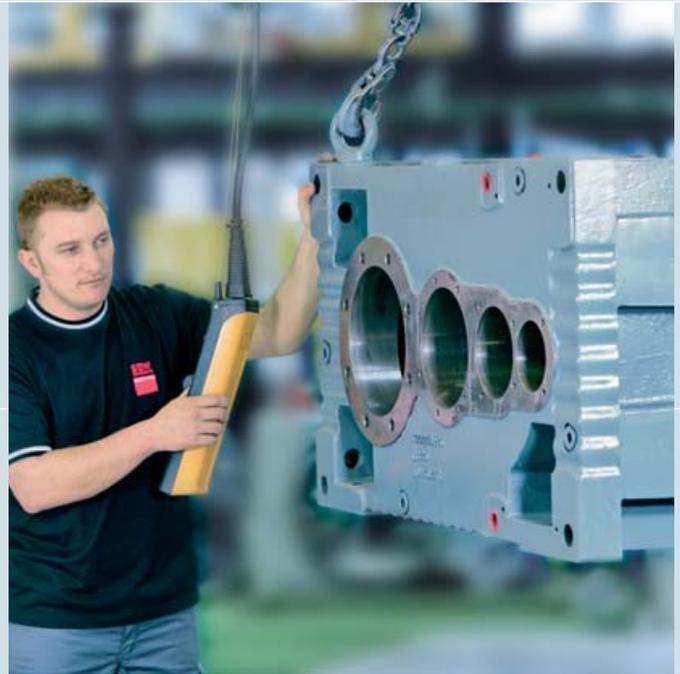
Training service

24-hour  
service hotline

01805 – SEWHELP  
01805 – 7394357

## Let us share our knowledge with you

Our range of services for customers also includes seminars and information sessions as well as specialist literature containing details of products and basic know-how. SEW-EURODRIVE offers practice-based seminars throughout the year that are designed to meet the requirements of specific target groups, such as the personnel responsible for project planning, startup, maintenance or service, as well as the drive technology implemented. For an overview of the seminars on offer and the dates they are available, go to [www.drive-academy.de](http://www.drive-academy.de)!



Always available:

Our website ([www.sew-eurodrive.de](http://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. It is also easy to purchase spare parts and track the status of your orders via the Internet.

## How we're driving the world

With people who think fast and develop the future with you.

With a worldwide service network that is always close at hand.

With drives and controls that automatically improve your productivity.

With comprehensive knowledge in virtually every branch of industry today.

With uncompromising quality that reduces the cost and complexity of daily operations.



**SEW-EURODRIVE**  
Driving the world

With a global presence that offers responsive and reliable solutions. Anywhere.

With innovative technology that solves tomorrow's problems today.

With online information and software updates, via the Internet, available around the clock.

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