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1 Introduction

1.1 The SEW-EURODRIVE Group of Companies

Global presence Since it introduced the world's first gearmotor 75 years ago, SEW-EURODRIVE has grown to become the global leader in electromechanical and electronic solutions for power transmission and motion control. SEW-EURODRIVE does business in more than 144 countries, providing the most advanced and reliable drive solutions to hundreds of industries: automotive, food and beverage processing, packaging, building materials, water and wastewater treatment, logistics and transportation, entertainment and many more. Whether it involves moving people, raw materials or finished goods, SEW-EURODRIVE solutions drive the world.

Always the right drive The modular concept behind our global approach to product design enables SEW-EURODRIVE to offer customers literally millions of ways to combine our components to create truly custom solutions. That means each SEW-EURODRIVE solution can be finely tuned for the speed and torque range, available space and ambient conditions of each customer's unique application. This ability to customize solutions makes SEW-EURODRIVE an ideal partner for OEMs trying to increase the performance of their machines to meet customer demand for increased quality and throughput.

Our global product line assures that components are the same no matter where in the world our drive solutions are assembled or used. This is an important benefit for industrial customers with global operations, allowing them to standardize on the best in drive technology at their facilities anywhere in the world. With 11 manufacturing plants and 58 assembly plants in 44 countries, SEW-EURODRIVE products and technical support are immediately available to customers worldwide.

SEW-EURODRIVE gearmotors are electronically powered by MOVITRAC® frequency inverters, MOVIDRIVE® drives and MOVIAXIS® multi-axis servo drives, a combination that blends perfectly with existing SEW-EURODRIVE systems. As with SEW-EURODRIVE mechanical systems, our drive electronics assure a complete SEW-EURODRIVE solution to deliver the maximum in functionality and flexibility.

Servo drive system products, such as low backlash servo gear units, compact servomotors or MOVIAXIS® multi-axis servo drives deliver exacting precision and dynamics. From a simple single-axis application to complex synchronized process sequences, you can be confident SEW-EURODRIVE will deliver the optimum solution.

For economical, decentralized systems, SEW-EURODRIVE offers MOVIMOT®, the gearmotor with an integrated frequency inverter, or MOVI-SWITCH®, with its integrated switching and protective functions. SEW-EURODRIVE hybrid cables assure cost-effective installation no matter the size of the system. And in the latest product advances, we have introduced MOVITRANS®, a contactless energy transfer system, MOVIPRO® decentralized drive control and MOVIFIT® decentralized intelligence.

SEW-EURODRIVE also sets the global standard for power, quality and reliability with its industrial gear units for large loads. These large gear units are based on the same modular design concept to provide optimum adaptability for a wide range of applications.

Your ideal partner With its global presence, broad product range and expert technical services, SEW-EURODRIVE is the ideal partner for your next equipment design project, no matter your industry or application.
1.2 **Products and systems from SEW-EURODRIVE**

The products and systems from SEW-EURODRIVE are divided into four product groups. These four product groups are:

1. Gearmotors and frequency inverters
2. Servo drive systems
3. Decentralized drive systems
4. Industrial gear units

Products and systems used in several group applications are listed in a separate group "Products and systems covering several product groups." Consult the following tables to locate the products and systems included in the respective product group:

### 1) Gearmotors and frequency inverters

<table>
<thead>
<tr>
<th>Gear units / gearmotors</th>
<th>Motors</th>
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</thead>
<tbody>
<tr>
<td>• Helical gear units / helical gearmotors</td>
<td>• Asynchronous AC motors / AC brake motors</td>
<td>• MOVITRAC® frequency inverters</td>
</tr>
<tr>
<td>• Parallel shaft helical gear units / parallel shaft helical gearmotors</td>
<td>• Multi-speed AC motors / AC brake motors</td>
<td>• MOVIDRIVE® drive inverters</td>
</tr>
<tr>
<td>• Helical-bevel gear units / helical-bevel gearmotors</td>
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<td></td>
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</tr>
<tr>
<td>• Variable speed gear units / variable speed gearmotors</td>
<td></td>
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</tr>
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<table>
<thead>
<tr>
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<th>Servomotors</th>
<th>Servo drive inverters / servo inverters</th>
</tr>
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<table>
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<td>• Fieldbus interfaces</td>
<td>• MOVITRANS® system</td>
</tr>
<tr>
<td>• MOVIMOT® motors/brake motors with integrated frequency inverter</td>
<td>• Field distributors for decentralized installation</td>
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<td>• MOVI-SWITCH® gearmotor with integrated switching and protection function</td>
<td>• MOVIFIT® product range</td>
<td>– Mobile components for energy consumption</td>
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<tr>
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<td>– MOVIFIT® MC to control MOVIMOT® drives</td>
<td>– Line cables and installation material</td>
</tr>
<tr>
<td></td>
<td>– MOVIFIT® SC with integrated electronic motor switch</td>
<td></td>
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<tr>
<td></td>
<td>– MOVIFIT®.FC with integrated frequency inverter</td>
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</tbody>
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Catalog – US-GM
Introduction
Products and systems from SEW-EURODRIVE

In addition to its products and systems, SEW-EURODRIVE offers a comprehensive range of services. These are:

• Technical consulting
• Application software
• Seminars and training
• Extensive technical documentation
• International customer service

Visit our home page:
→ www.seweurodrive.com
The website offers a lot of information and services.

4) Industrial gear units

• Helical gear units
• Helical-bevel gear unit
• Planetary gear units

Products and systems for several groups of products

• Operator terminals
• MOVI-PLC® drive-based control system
1.3 Additional documentation

Contents of this publication
This Gearmotors catalog includes the detailed technical data of the following SEW-EURODRIVE product groups:

• Helical gearmotors
• Parallel shaft helical gearmotors
• Helical-bevel gearmotors
• Helical-worm gearmotors
• Spiroplan® gearmotors
• AC motors

The catalogs offer the following information:

• Important information on tables and dimension drawings
• Visual representation of the different designs
• Overview of all possible combinations
• Selection tables
• Dimension drawings
• Technical data

Additional documentation
In addition to this Gearmotors catalog, SEW-EURODRIVE offers the "Gear Units and Gearmotors" manual.

Content of the manual:

• Product descriptions
• Type overviews
• Project planning information
• Visual representation of mounting positions
• Explanation on the order information
• Design and operating notes

This "Gear Units and Gearmotors" manual is also effective in combination with the following catalogs:

• MOVIMOT® gearmotors
• Gear units (helical, parallel shaft helical, helical-bevel and helical-worm designs)
The "Gear Units and Gearmotors" manual and the listed catalogs can be ordered separately or as a set. The following set is available:

"Gear Units and Gearmotors Manual" with Gearmotor catalog
Part number: 11475323
US English edition:

Please note that the complete range of technical documentation is available on our home page:

→ www.seweurodrive.com