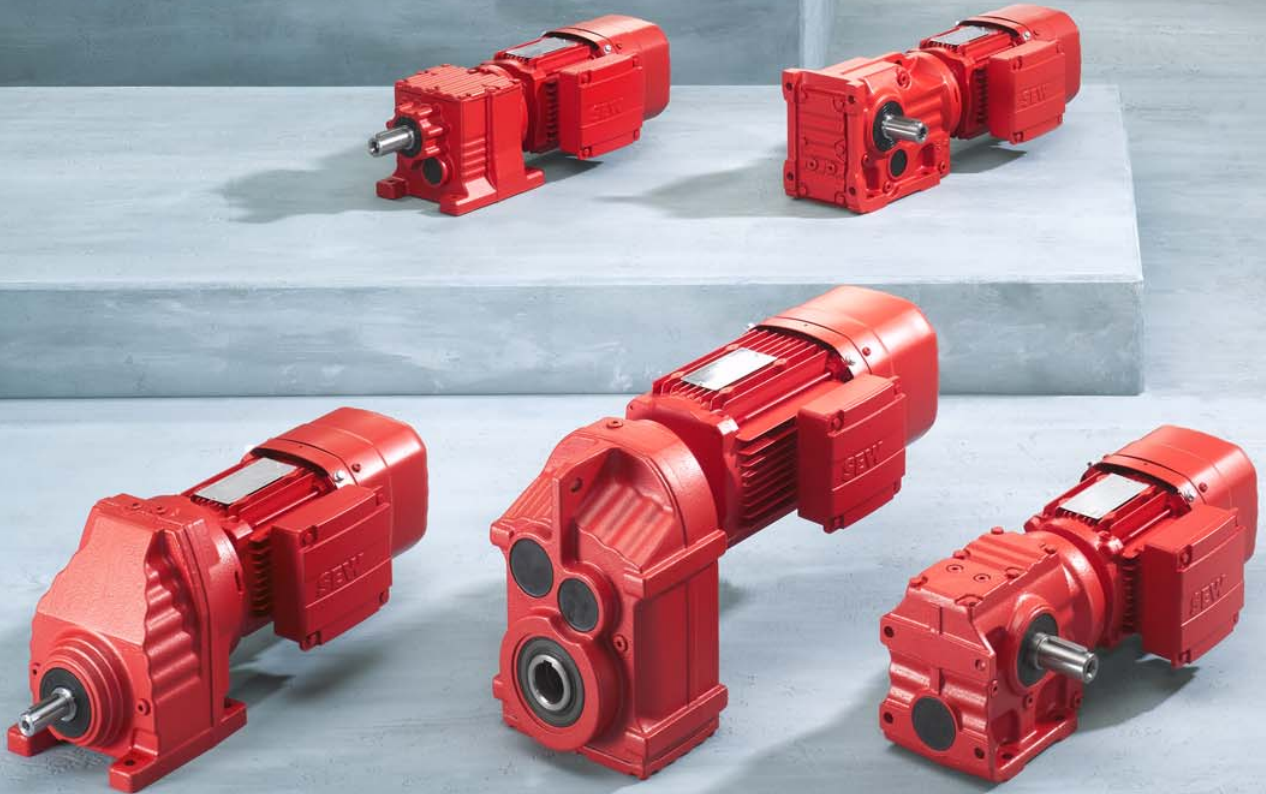
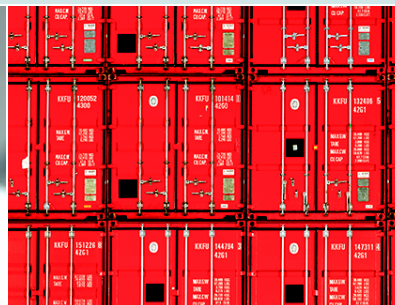




Catalog



DRE Gearmotors (IE2)





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1 Introduction

1.1 The SEW-EURODRIVE Group of Companies

1.1.1 Global presence

Driving the world – with innovative drive solutions for all industries and for every application. Products and systems from SEW-EURODRIVE are used all over the world. Be it in the automotive, building materials, food and beverage or metal-processing industry: The decision to use drive technology "made by SEW-EURODRIVE" stands for reliability for both functionality and investment.

We are represented in the most important branches of industry all over the world: with 15 manufacturing plants and 76 Drive Technology Centers worldwide and our customer support, which we consider an integrative service that continues our commitment to outstanding quality.

1.1.2 Always the right drive

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. Gear units and gearmotors offering a unique and finely tuned performance range and the best economic prerequisites to face your drive challenges.

The modular DR motor system comprises the energy-efficiency motor variants IE1 to IE4 and was designed and produced with all the worldwide requirements for energy efficiency classes in mind. In all relevant countries, the DR motor was approved and certified without any problems. In combination with gear units from SEW-EURODRIVE, the energy-efficient drives achieve highest levels of efficiency.

The gearmotors are electronically empowered by MOVITRAC[®] frequency inverters, MOVIDRIVE[®] drive inverters and MOVIAXIS[®] multi-axis servo inverters, a combination that blends perfectly with the existing SEW-EURODRIVE program. As is the case for mechanical systems, development, production and assembly is carried out completely by SEW-EURODRIVE. In combination with our drive electronics, these drives provide the utmost in flexibility.

Products of the servo drive system, such as low backlash servo gear units, compact servomotors or MOVIAXIS[®] multi-axis servo drives provide precision and dynamics. From single-axis or multi-axis applications all the way to synchronized process sequences, servo drive systems by SEW-EURODRIVE offer a flexible and customized implementation of your application.

For economical, decentralized installations, SEW-EURODRIVE offers components from its decentralized drive system, such as MOVIMOT[®], the gearmotor with integrated frequency inverter or MOVI-SWITCH[®], the gearmotor with integrated switching and protection function. SEW-EURODRIVE hybrid cables have been designed specifically to ensure cost-effective solutions, independent of the philosophy behind the system or the size of the system. The latest developments from SEW-EURODRIVE: DRC electronic motor, MOVIGEAR[®] mechatronic drive system, MOVIFIT[®] decentralized drive control, MOVIPRO[®] decentralized drive, positioning and application controller, and MOVITRANS[®] system components for contactless energy transfer.

Power, quality and sturdy design combined in one standard product: With SEW-EURODRIVE, high torque industrial gear units achieve large movements. The modular concept will once again provide optimum adaptation of industrial gear units to meet a wide range of different applications.



1.2 Products and systems from SEW-EURODRIVE

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

- Gearmotors and frequency inverters
- Servo drive systems
- Decentralized drive systems
- VARIOLUTION® and MAXOLUTION®
- Industrial gear units

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

Gearmotors and frequency inverters		
Gear units / gearmotors	Motors	Frequency inverters
<ul style="list-style-type: none"> • Helical gear units / helical gearmotors • Parallel-shaft helical gear units / parallel-shaft helical gearmotors • Helical-bevel gear units / helical-bevel gearmotors • Helical-worm gear units / helical-worm gearmotors • SPIROPLAN® right-angle gearmotors • Drives for electrified monorail systems • Geared torque motors • Pole-changing gearmotors • Variable speed gear units / variable speed gearmotors • Aseptic gearmotors • ATEX, IECEx and HazLoc-NA® compliant gear units / gearmotors • ATEX, IECEx and HazLoc-NA® compliant variable-speed gear units 	<ul style="list-style-type: none"> • Asynchronous AC motors / AC brakemotors • Pole-changing AC motors / AC brakemotors • Energy-efficient motors • Explosion-proof AC motors / AC brakemotors • Torque motors • Single-phase motors / single-phase brakemotors • Asynchronous linear motors 	<ul style="list-style-type: none"> • MOVITRAC® frequency inverters • MOVIDRIVE® inverters • Control, technology and communication options for inverters

Servo drive systems		
Servo gear units / servo gearmotors	Servomotors	Servo drive inverters / servo inverters
<ul style="list-style-type: none"> • Low backlash planetary servo gear units / planetary gearmotors • Low backlash helical-bevel servo gear units / helical-bevel gearmotors • R, F, K, S, W gear units / gearmotors • Explosion-proof servo gear units / servo gearmotors 	<ul style="list-style-type: none"> • Asynchronous servomotors / servo brakemotors • Synchronous servomotors / servo brakemotors • Explosion-proof servomotors / servo brakemotors • Synchronous linear motors 	<ul style="list-style-type: none"> • MOVIDRIVE® servo inverters • MOVIAXIS® multi-axis servo inverters • Control, technology and communication options for servo drive inverters and servo inverters



Decentralized drive systems		
Decentralized drives	Communication and installation	Contactless energy transfer
<ul style="list-style-type: none"> • DRC electronic motor / MOVIGEAR[®] mechatronic drive system <ul style="list-style-type: none"> – DBC – Direct Binary Communication – DAC – Direct AS-Interface Communication – DSC – Direct SBus Communication – SNI – Single Line Network Installation • MOVIMOT[®] gearmotors with integrated frequency inverter • MOVIMOT[®] motors / brakemotors with integrated frequency inverter • MOVI-SWITCH[®] gearmotors with integrated switching and protection function • MOVI-SWITCH[®] motors/brakemotors with integrated switching and protection function • Explosion-proof MOVIMOT[®] and MOVI-SWITCH[®] gearmotors 	<ul style="list-style-type: none"> • Fieldbus interfaces • Field distributors for decentralized installation • MOVIFIT[®] product range <ul style="list-style-type: none"> – MOVIFIT[®] FDC for controlling MOVIGEAR[®] and DRC drive units – MOVIFIT[®] MC for controlling MOVIMOT[®] drives – MOVIFIT[®] SC with integrated electronic motor switch – MOVIFIT[®] FC with integrated frequency inverter • MOVIPRO[®] product range <ul style="list-style-type: none"> – MOVIPRO[®] SDC decentralized drive and position controller – MOVIPRO[®] ADC decentralized drive and application controller 	<ul style="list-style-type: none"> • MOVITRANS[®] system <ul style="list-style-type: none"> – Stationary components for energy supply – Mobile components for energy consumption – Line cables and installation material
VARIOLUTION[®] and MAXOLUTION[®]		
<ul style="list-style-type: none"> • VARIOLUTION[®] packages for high technical solution expertise in plants and machines • MAXOLUTION[®] systems for customer-specific system solutions and plants 		
Industrial gear units		
<ul style="list-style-type: none"> • Helical gear units • Bevel-helical gear units • Planetary gear units 		
Products and systems covering several product groups		
<ul style="list-style-type: none"> • Operator terminals • MOVI-PLC[®] drive-based control system • Components of the type "functional safety" • Diagnostic units 		

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

- Technical consulting
- Application software
- Seminars and training
- Extensive technical documentation
- Worldwide customer service

Visit our website at

www.sew-eurodrive.com

The website provides comprehensive information and services.



1.3 Documentation

1.3.1 Content of this publication

This "DRE Gearmotors (IE2)" catalog provides a detailed description of the following product groups offered by SEW-EURODRIVE:

- DRE helical gearmotors
- DRE parallel-shaft helical gearmotors
- DRE helical-bevel gearmotors
- DRE helical-worm gearmotors
- DRE-SPIROPLAN® gearmotors

1.3.2 Additional documentation

You can order additional documentation from SEW-EURODRIVE or download it from the homepage. The complete range of technical documentation is available in various languages for download from the web at www.sew-eurodrive.com.

Catalogs

- DRS gearmotors (IE1)
- DRP gearmotors (IE3)
- Asynchronous servo gearmotors
- Synchronous servo gearmotors
- AC motors
- Synchronous servomotors
- DRC electronic motors
- Variable speed gearmotors
- Pole-changing gearmotors
- Geared torque motors
- Gear units
- Servo gear units
- Explosion-proof drives
- Explosion-proof AC motors

Drive Engineering – Practical Implementation

You find detailed documentation about the entire topic of electrical drive engineering in the publications of the "Drive Engineering – Practical Implementation" series:

- Project planning for drives
- EMC in drive engineering – basic theoretical principles and EMC-compliant installation in practice
- Efficient plant automation with mechatronic drive solutions
- SEW encoder systems
- Servo technology
- Explosion-proof drives to EU Directive 94/9/EC

**1.4 Product names and trademarks**

All product names in this documentation are trademarks or registered trademarks of their respective titleholders.

1.5 Copyright notice

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