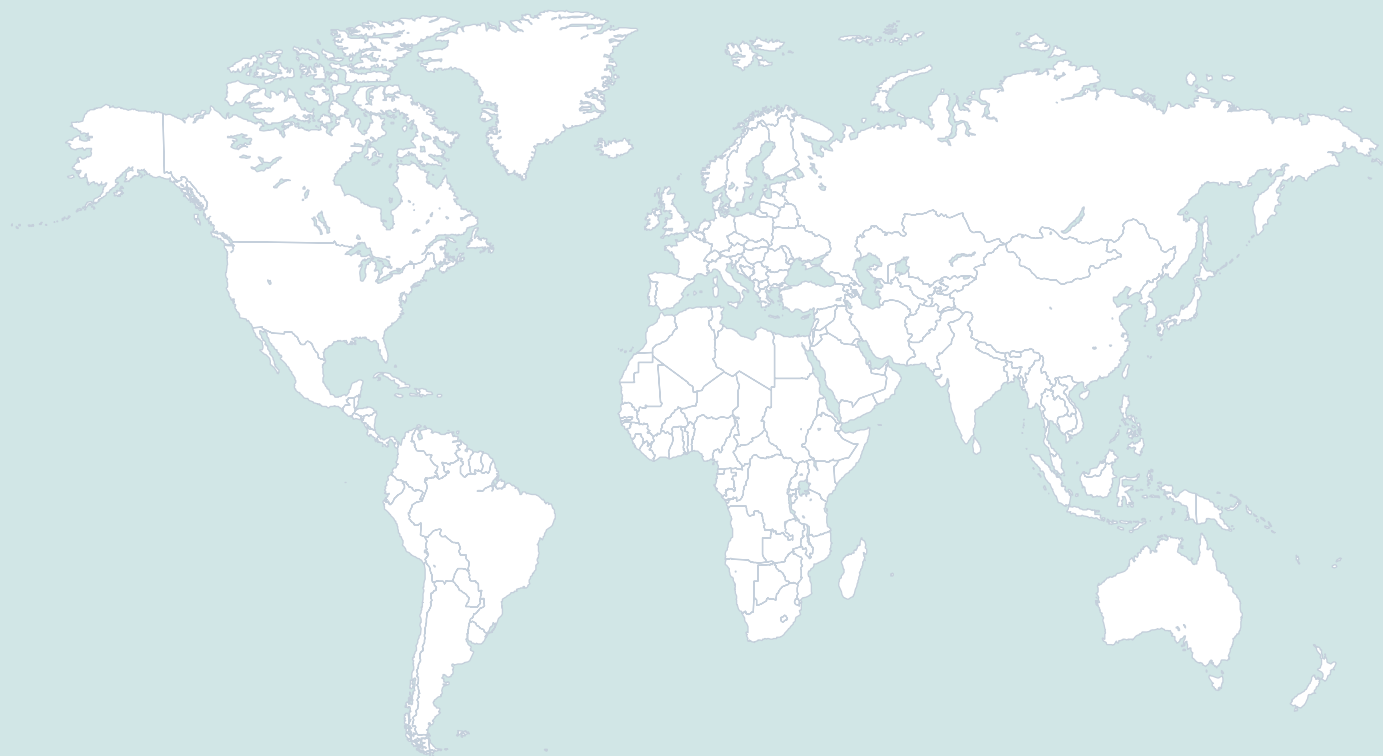




SEW
EURODRIVE



Drive System for Decentralized Installation DI2012





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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 75 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 any application, 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 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 in the case for mechanical systems, the development, production and assembly is also 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 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 high torque levels, industrial gear units from SEW-EURODRIVE realize major movements. The modular concept will once again provide optimum adaptation of industrial gear units to meet a wide range of different applications.

1.1.3 Your ideal partner

Its global presence, extensive product range and broad spectrum of services make SEW-EURODRIVE the ideal partner for the machinery and plant construction industry when it comes to providing drive systems for demanding drive tasks in all industries and applications.



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 entitled "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		
Gear units/gearmotors	Motors	Frequency inverter
- 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 - EMS drives - Geared torque motors - Pole-changing gearmotors - Variable speed gear units/variable speed gearmotors - Aseptic gearmotors - Gear units/gearmotors to ATEX standard - Variable speed gear units/variable speed gearmotors to ATEX standard	- 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	- MOVITRAC® frequency inverters - MOVIDRIVE® inverters - Control, technology and communication options for inverters

2. Servo drive systems		
Servo gear units/servo gearmotors	Servomotors	Servo drive inverters/servo inverters
- 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	- Asynchronous servomotors/servo brakemotors - Synchronous servomotors/servo brakemotors - Explosion-proof servomotors/servo brakemotors - Synchronous linear motors	- MOVIDRIVE® servo inverters - MOVIAXIS® multi-axis servo inverters - Control, technology and communication options for servo drive inverters and servo inverters



3. Decentralized drive systems		
Decentralized drives	Communication and installation	Contactless energy transfer
• DRC electronic motor / MOVIGEAR[®] mechatronic drive system – 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	• Fieldbus interfaces • Field distributors for decentralized installation • MOVIFIT[®] product range – MOVIFIT[®] FDC for controlling MOVIGEAR[®] and DRC drive units – MOVIFIT[®] MC for controlling MOVIMOT[®] drives – MOVIFIT[®] SC with integrated electronic motor starter – MOVIFIT[®] FC with integrated frequency inverter • MOVIPRO[®] product range – MOVIPRO[®] SDC decentralized drive and position controller – MOVIPRO[®] ADC decentralized drive and application controller	• MOVITRANS[®] system – Stationary components for energy supply – Mobile components for energy consumption – Line cables and installation material

4. Industrial gear units
• Helical gear units • Bevel-helical gear units • Planetary gear units

Products and systems covering several product groups
• Operator terminals • MOVI-PLC[®] drive-based control system

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
- International customer service

Visit our homepage at

→ **www.sew-eurodrive.com**

The website provides comprehensive information and services.



1.3 Contents of this publication

1

The catalog "Drive System for Decentralized Installation" describes the following SEW-EURODRIVE product groups:

- Decentralized drive controllers
 - MOVIPRO® SDC / ADC
 - MOVIFIT® MC, SC, FC
 - Z.3, Z.6, Z.7, Z.8 field distributors
 - MOVIMOT® MM..D for mounting close to the motor
 - MOVI-SWITCH® 2S for mounting close to the motor

The catalog provides brief overviews of the corresponding drives and/or reference lists for a quick selection:

- Drives
 - MOVIMOT® MM..D
 - MOVI-SWITCH® 1EM, 1E, 2S
 - DRS, DRE, DRP series AC motors

1.4 Additional documentation

In addition to the brief overviews for drives in this catalog, the following publications contain comprehensive product descriptions, project planning information and dimension sheet:

- "MOVIGEAR® B" catalog
- "MOVIMOT® Gearmotors with DRS/DRE/DRP AC Motors" catalog
- "DR, CMP Motors" catalog
- "DR Gearmotors" catalog

1.5 Copyright

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