

Catalog



DRN.. Gearmotors (IE3)

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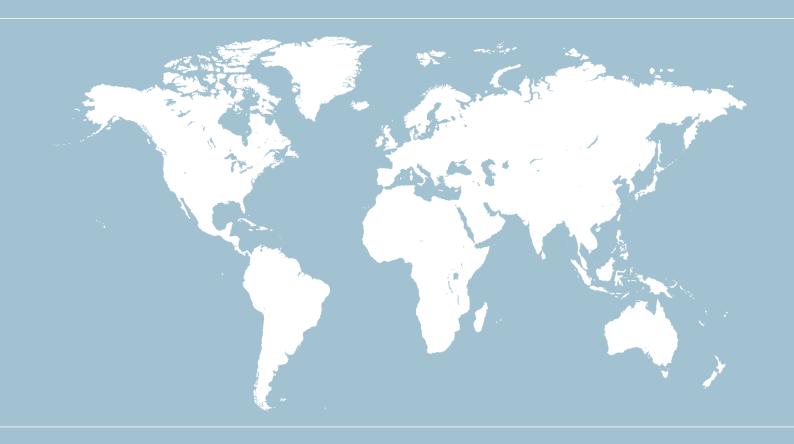




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1 Introduction

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 14 manufacturing plants and 79 Drive Technology Centers worldwide as well as 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, available space, and ambient conditions. Gear units and gearmotors offering a unique and finely tuned performance range and the best economic prerequisites to meet your drive requirements.

The modular DR.. motor series includes the energy-efficient motor types IE1 to IE4 and was designed and constructed with all worldwide requirements for energy efficiency classes in mind. The DR.. motor easily meets the requirements for approval and certification in all relevant countries. The energy-efficient drives achieve the highest efficiency in combination with SEW-EURODRIVE gear units.

The gearmotors are electronically enhanced 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 with the mechanical systems, all development, production, and assembly is carried out entirely 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 inverters ensure precision and dynamics. From single-axis or multi-axis applications to synchronized process sequences, servo drive systems from SEW-EURODRIVE enable flexible and customized implementation of your applications.

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 has developed hybrid cables to provide cost-effective functional solutions, irrespective of the system philosophy or scope. The latest developments from SEW-EURODRIVE: DRC.. electronic motor, MOVIGEAR® mechatronic drive system, MOVIFIT® decentralized drive controller, MOVIPRO® decentralized drive, positioning, and application controller, as well as MOVITRANS® system components for contactless energy transfer.

Power, quality, and robustness combined in a single standard product: with SEW-EURODRIVE, powerful movements are delivered by industrial gear units with high torques. The modular concept once again ensures 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 by SEW-EURODRIVE are divided into the following product groups:

- Industrial gear units
- · Gearmotors and frequency inverters
- · Servo drive systems
- · Decentralized drive systems
- MAXOLUTION[®]

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

Industrial gear units

- X, MC, ML series helical and bevel-helical gear units
- P002 102 series planetary gear units
- XP130 250 series planetary gear units
- P.X.. series planetary bevel-helical gear units
- · Application solutions with connections
 - Girth gears
 - Swing base
 - Gearmotor
 - Motor
 - Coupling
 - Brake
 - Lubrication system

For conveyor drives, bucket conveyors, agitators, cooling towers, crane systems, and much more

Ge	Gearmotors and frequency inverters					
Gear units / gearmotors			Motors		Frequency inverters	
•	Helical gear units / helical gearmotors	•	Asynchronous AC motors / AC brakemotors	•	MOVITRAC® frequency inverters	
•	Parallel-shaft helical gear units / parallel-shaft helical	•	Pole-changing AC motors / AC brakemotors	•	MOVI4R-U [®] frequency inverters	
	gearmotors	•	Energy-efficient motors	•	MOVIDRIVE® drive inverters	
•	Helical-bevel gear units / gear- motors	•	Explosion-proof AC motors / AC brakemotors	•	Control, technology and communication options for invert-	
•	Helical-worm gear units / helical-worm gearmotors	-	Torque motors	ers		
•	SPIROPLAN® right-angle gear- motors		Single-phase motors / single- phase brakemotors			
•	EMS drives		Asynchronous linear motors			
•	Geared torque motors					
•	Pole-changing gearmotors					
•	Variable-speed gear units / variable-speed gearmotors					
•	Aseptic gearmotors					
•	Explosion-proof gear units / gearmotors					
•	Explosion-proof variable-speed gear units / variable-speed gearmotors					

Servo drive systems				
Servo gear units / gearmotors	Servomotors	Servo drive inverters / servo inverters		
Low backlash planetary servo gear units / planetary gearmo-	Asynchronous servomotors / servo brakemotors	MOVIDRIVE® servo drive inverters		
torsLow backlash helical-bevel	Synchronous servomotors / servo brakemotors	MOVIAXIS® multi-axis servo inverter		
servo gear units / helical-bevel gear units	Explosion-proof servomotors / servo brakemotors	Control, technology and com- munication options for servo		
R, F, K, S, W gear units / gear- motors	Synchronous linear motors	drive inverters and servo inverters		
Explosion-proof servo gear units / servo gearmotors				

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Decentralized drive systems					
Decentralized drives	Communication and installation	Contactless energy transfer			
 DRC electronic motors / MOVIGEAR® mechatronic drive systems 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 functions 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 switch MOVIFIT® FC with integrated frequency inverter MOVIPRO® product range MOVIPRO® SDC decentralized drive and positioning control 	MOVITRANS® system Stationary components for energy supply Mobile components for energy consumption Line cables and installation material			

MAXOLUTION®

- MAXOLUTION[®] packages for predefined application solutions
- MAXOLUTION[®] systems for customer-specific system solutions and plants

Products and systems covering several product groups

- Operator panels
- MOVI-PLC® drive-based control system
- Components of the type "functional safety"
- Diagnostic units

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

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

Visit our website at



\rightarrow www.sew-eurodrive.com

The website provides comprehensive information and services.

1.3 Documentation

1.3.1 Content of this publication

This "DRN.. gearmotors (IE3)" catalog describes the following product groups from SEW-EURODRIVE in detail:

- DRN.. helical gearmotors
- · DRN.. parallel-shaft helical gearmotors
- · DRN.. helical-bevel gearmotors
- · DRN.. helical-worm gearmotors
- DRN.. SPIROPLAN® gearmotors

1.3.2 Additional documentation

In addition to this "DRN.. Gearmotors (IE3)" catalog, you can order or download other documents from the SEW-EURODRIVE homepage. The complete range of technical documentation is available in various languages for download from the web at www.sew-eurodrive.com.

Catalogs

- · Gear units
- · Servo gear units
- AC motors
- DRS.. gearmotors (IE1)
- DRE.. gearmotors (IE2)
- Synchronous servomotors
- Synchronous servo gearmotors
- · Asynchronous servo gearmotors
- DRC.. gearmotors
- · Gearmotors with single-phase motor
- Variable-speed gearmotors
- Pole-changing gearmotors
- Geared torque motors
- 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

