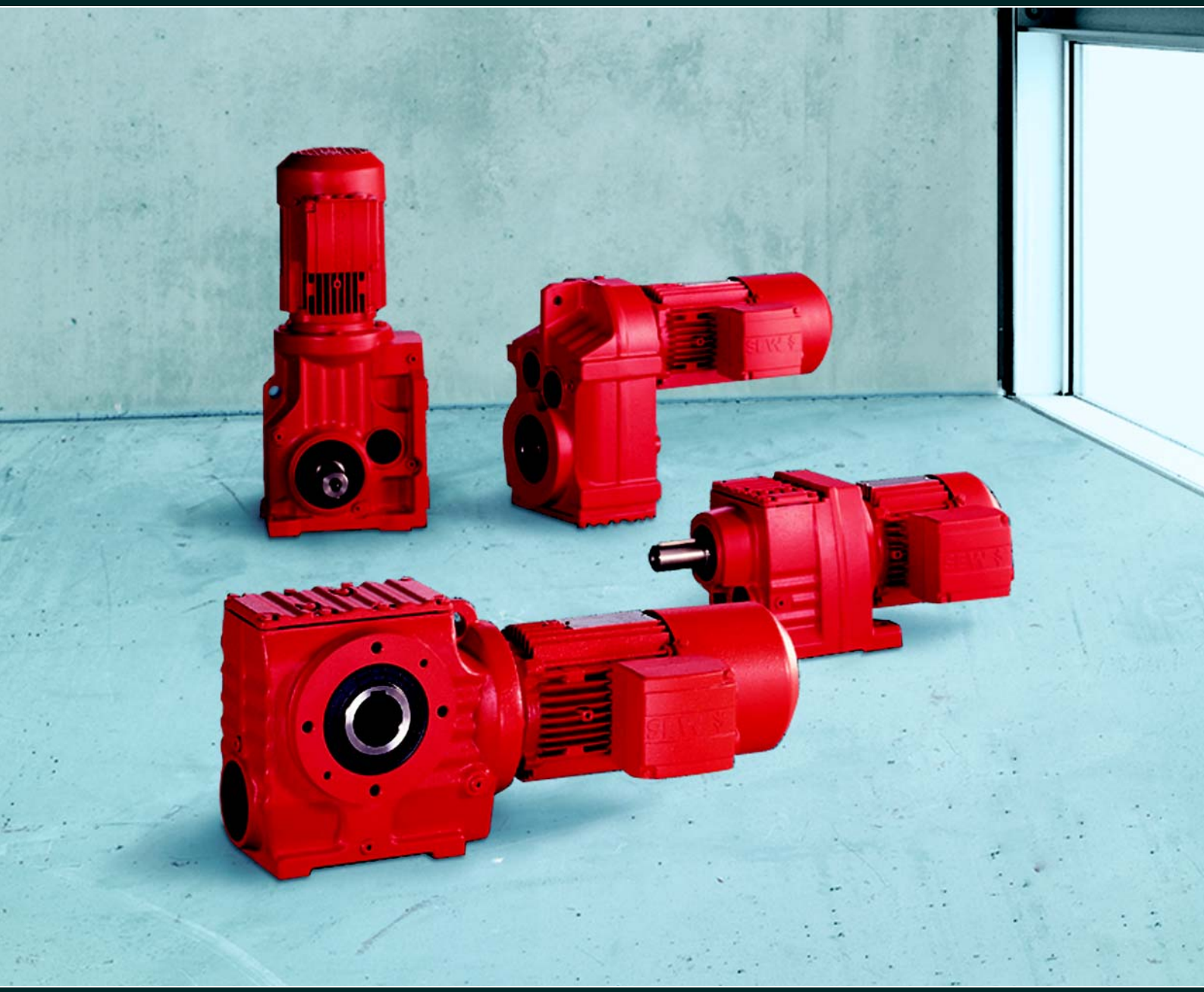
SEW EURODRIVE



DT/DV Gearmotors

Edition 03/2009
16795210 / EN

Catalog

Color code system for catalogs and system manuals

Our catalogs and system manuals are identified by a color code system at the back to make it easier to work with these publications. The short designation of the publication is indicated as well. In this way you can immediately recognize the publication even if it is standing on a shelf together with other publications. The following overview shows an exemplary assignment of colors to product groups and products.

Mechanics

DR GM	GSE1	GSE2	GK	GSK	DT/DV GM
DR gearmotors	Synchronous servo gearmotors	Asynchronous servo gearmotors	Gear units	Servo gear units	DT/DV gearmotors

Electromechanics

MOT1	MOT2	MOT3
DR series AC motors	CMP servomotors	DT/DV/CT/CV series AC motors

Explosion-proof drives

EXG	EXS	EXM
Explosion-proof gearmotors	Explosion-proof servo gearmotors	Explosion-proof motors

Control cabinet inverters, control technology and HMI

MDX	MC	MX	PLC	HMI
MOVIDRIVE®	MOVITRAC®	MOVIAXIS®	MOVI-PLC®	DOP11B

Decentralized technology

MM	DI	MG
MOVIMOT® DR gearmotors	Decentralized installation	MOVIGEAR®

Industrial gear units

IGX	IGP
Industrial gear units X series	Industrial gear units P002–P082 series

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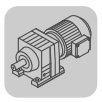
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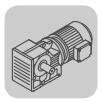
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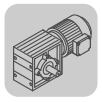
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1 Introduction

1.1 The SEW-EURODRIVE Group of Companies

Global presence

Driving the world ─ with innovative drive solutions for all branches and for every application. Products and systems from SEW-EURODRIVE are used in a multitude of applications worldwide. These include the automotive, building materials, food and beverage as well as metal-processing industries. 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 12 manufacturing plants, 67 assembly plants in 46 countries and our comprehensive range of services, which we consider an integrative service that continues our commitment to outstanding quality.

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.

Our electronic components ─ MOVITRAC® frequency inverters, MOVIDRIVE® drive inverters and MOVIAXIS® multi-axis servo inverters ─ enhance the gearmotors, forming a combination that blends perfectly with the existing SEW-EURODRIVE systems program. As in the case of the mechanical systems, development, production and assembly is carried out completely by SEW-EURODRIVE. In combination with our drive electronics, these drives will 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 size of the system. The latest developments from SEW-EURODRIVE: MOVITRANS® - system components for contactless energy transfer, MOVIPRO® - the decentralized drive control and MOVIFIT® - the new decentralized intelligence.

Power, quality and sturdy design combined in one standard product: Industrial gear units from SEW-EURODRIVE provide major movements that need great torques. The modular concept will once again provide optimum adaptation of industrial gear units to meet a wide range of different applications.

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 applications in all branches of industries and applications.

1.2 Products and systems from SEW-EURODRIVE

The products and systems from SEW-EURODRIVE are divided into 4 product groups. These 4 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		
Gear units/gearmotors	**Motors**	**Frequency inverters**
• 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 • Gear units/gearmotors to ATEX standard • Variable speed gear units/variable speed gearmotors to ATEX standard	• Asynchronous AC motors/AC brakemotors • Multi-speed AC motors/AC brake motors • Energy-efficient motors • Explosion-proof AC motors/AC brakemotors • Torque motors • Single-phase motors/single-phase brakemotors • Asynchronous linear motors	• MOVITRAC® frequency inverters • MOVIDRIVE® drive 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 • 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 system**
• MOVIMOT® gearmotors with integrated frequency inverter • MOVIMOT® motors/brake motors with integrated frequency inverter • MOVI-SWITCH® gearmotors with integrated switching and protection function • MOVI-SWITCH® motors/brake motors with integrated switching and protection function • Explosion-proof MOVIMOT® and MOVI-SWITCH® gearmotors	• Fieldbus interfaces • Field distributors for decentralized installation • MOVIFIT® product range – MOVIFIT®-MC to control MOVIMOT® drives – MOVIFIT®-SC with integrated electronic motor switch – MOVIFIT®-FC with integrated frequency inverter	• 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 for several groups of products
• Operator terminals • MOVI-PLC® drive-based control system

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

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

Visit our home page at

→ **www.sew-eurodrive.com**

The website offers a lot of information and services.

1.3 Additional documentation

Contents of this publication

This Gearmotors catalog/price catalog includes the detailed technical data of the following SEW-EURODRIVE product groups:

- DT/DV helical gearmotors
- DT/DV parallel-shaft helical gearmotors
- DT/DV helical-bevel gearmotors
- DT/DV helical-worm gearmotors
- DT/DV Spiroplan® gearmotors
- DT/DV AC motors

The price catalogs and catalogs offer the following information:

- Important information on tables and dimension sheets
- Visual representation of the different types
- Overview of all permitted combinations
- Selection tables
- Dimension sheets
- Technical data
- In the price catalogs → Prices and option pricing for special features

Additional documentation

In addition to this Gearmotors price catalog / 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 price catalogs / catalogs:

- MOVIMOT® gearmotors
- Gear units (helical, parallel-shaft helical, helical-bevel and helical-worm designs)

The "Gear Units and Gearmotors" manual and the listed price catalogs / catalogs can be ordered separately or as a box set. The following box sets are available:

Gear units and gearmotors manual	with	Gearmotors price catalog	Part no. German: Part no. English:	11474602 11474610
		Gearmotors catalog	Part no. German : Part no. English:	11475005 11475013
		MOVIMOT® gearmotors price catalog	Part no. German: Part no. English:	11481803 11481811
		MOVIMOT® gearmotors catalog	Part no. German Part no. English:	11482206 11482214
		Gear units price catalog	Part no. German: Part no. English:	11482605 11482613
		Gear units catalog	Part no. German: Part no. English:	11483008 11483016

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

→ **www.sew-eurodrive.com**