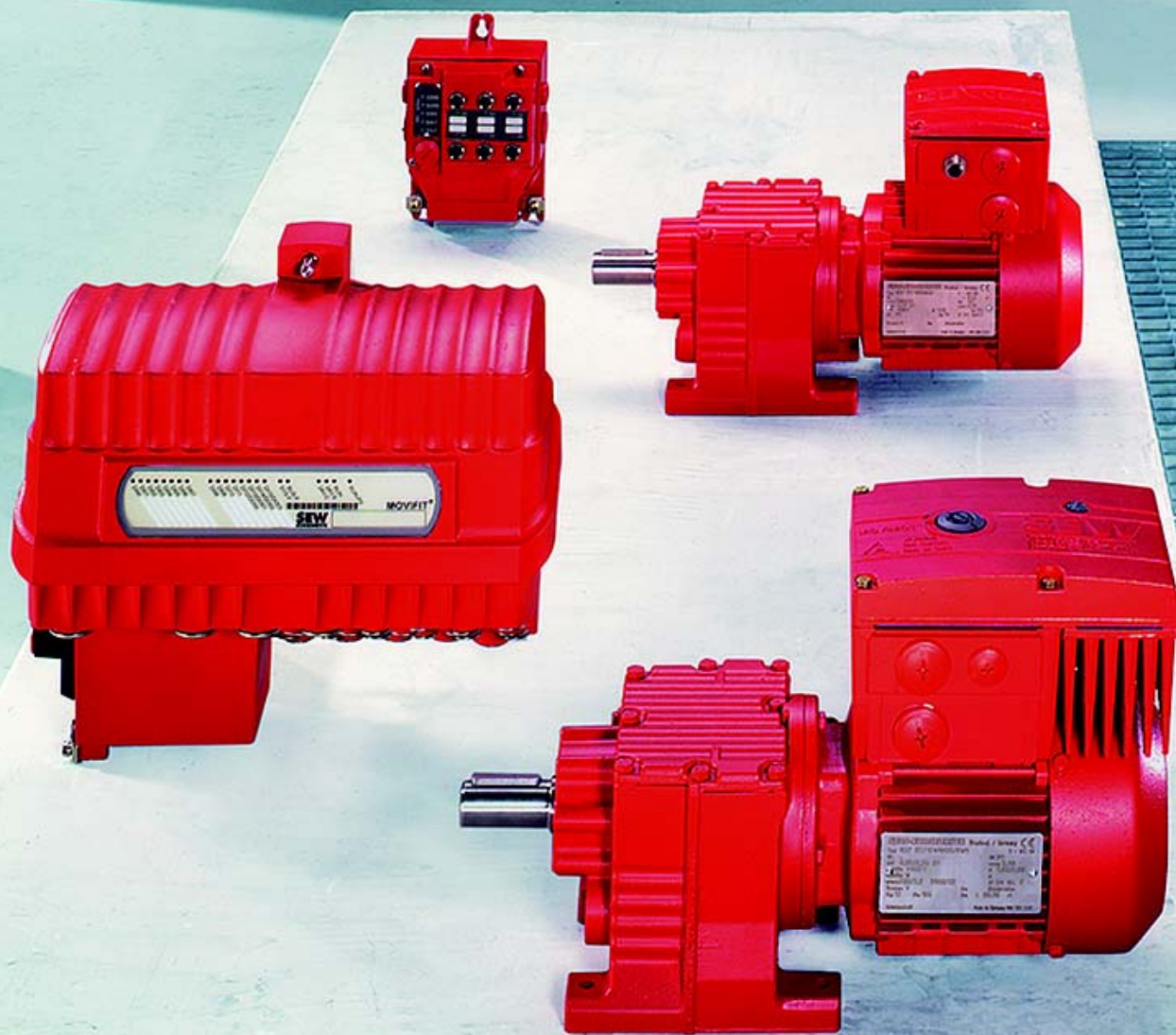




SEW
EURODRIVE



Drive System for Decentralized Installation

Edition 12/2007

11593016 / 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 the assignment of colors to product groups and products.

Mechanics

**DR-GM
2008**

DR gearmotors

**GSE1
2008**

Servo gearmotors

**GSE2
2008**

Servo gearmotors

**GK
2008**

Gear units

Electromechanics

**MOT1
2008**

DR series AC motors

**MOT2
2008**

DT/DV/CT/CV series
AC motors

Explosion-proof drives

**EXG
2008**

Explosion-proof
garmotors

**EXS
2008**

Explosion-proof
servo gearmotors

**EXM
2008**

Explosion-proof motors

Control cabinet inverters, control technology and HMI

**MDX
2008**

MOVIDRIVE® system
manual

**MC
2008**

MOVITRAC® system
manual

**MX
2008**

MOVIAXIS® system
manual

**PLC
2008**

MOVI-PLC® system
manual

**HMI
2008**

DOP11B® system
manual

Decentralized technology

**MM
2008**

MOVIMOT®
garmotors

**DI
2007**

Decentralized
installation

**MG
2008**

MOVIGEAR® system
manual

Industrial gear units

**IGX1
2008**

X series horizontal
industrial gear units

**IGX2
2008**

X series vertical
industrial gear units

**IGX3
2008**

X series upright
industrial gear units



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1 System Description

1.1 Economical decentralization with system solutions

1.1.1 MOVIFIT[®], MOVIMOT[®], MOVI-SWITCH[®], field distributors and installation systems

Our many years of experience in drive systems for decentralized installation and the resulting wide range of products allows for realization of essential cost and efficiency advantages in many application areas in the field of automation through consistent standardization and modularization. This is the reason why system manufacturers and operators opting for decentralized drive systems from SEW-EURODRIVE are always ahead of the game technically and economically.

The following figure shows a conveyor system with MOVIFIT[®] for operation of a high-bay warehouse:



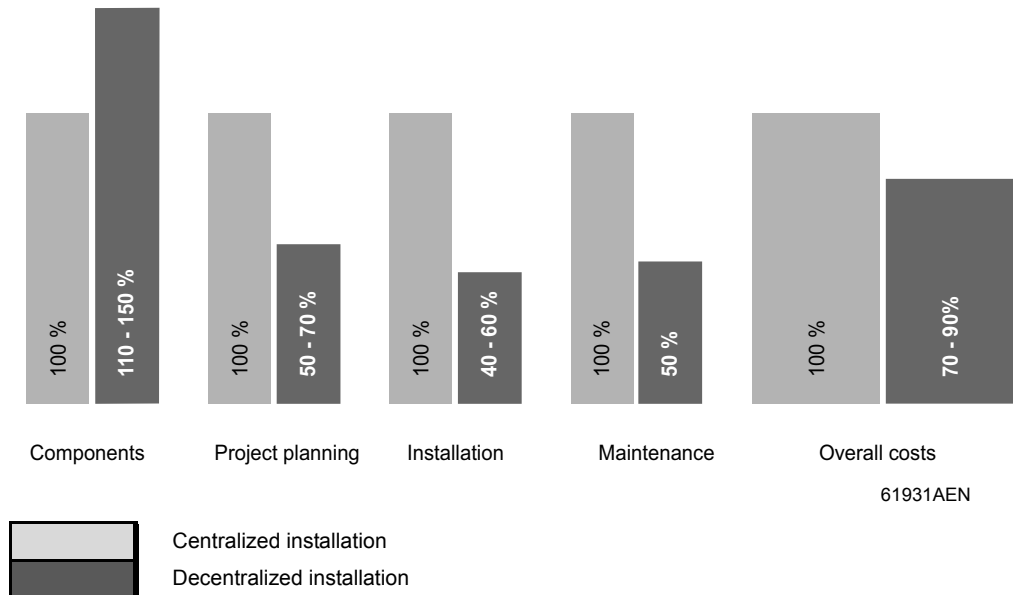
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1.1.2 Cost reduction

Decentralization is the most economical solution for many areas of automation. Closer examination shows that overall costs can be reduced by 10-30% compared to conventional solutions depending on the specific operating conditions.

Modular and standardized function units reduce the project planning effort for large systems to 50-70% of the individual effort. Decentralized installation is very flexible due to its modular structure, and it can be adapted subsequently to new requirements within a very short time. Compared to central installation technology, decentralized drive installations can save 40-60% during mounting, installation and startup.



We continuously combine our practical experience from all areas of application with new, innovative ideas and implement more and more compact and efficient drive systems due to consistent further development.

With MOVIFIT[®], the drive controller for innovative decentralized installation, MOVIMOT[®], the gearmotor with integrated frequency inverter, MOVI-SWITCH[®], the gearmotor with integrated switching and protection function, and with optimized field distributors and installation systems, SEW-EURODRIVE offers a comprehensive product range with future-proof, application-oriented drive and communication functions.



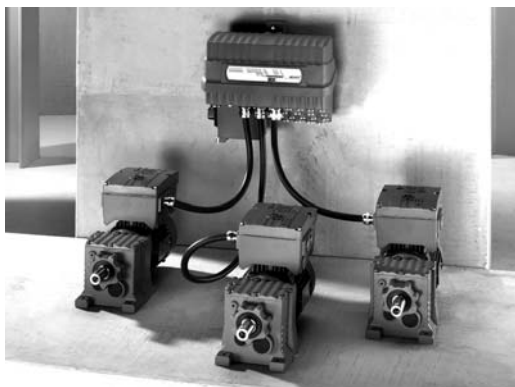
1.2 Overview of components for decentralized installation

1.2.1 MOVIFIT® drive control system for innovative decentralized installation

The following section gives an overview of the MOVIFIT® variants:

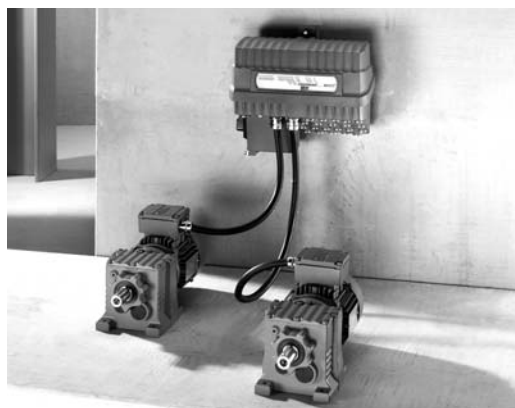
- **MOVIFIT® MC**

- For control of up to three MOVIMOT® drives
- Power distribution
- Communication interface



- **MOVIFIT® SC**

- Integrated electronic motor switch
- For control of one drive with two directions of rotation or two drives with one direction of rotation
- Power distribution
- Communication interface



- **MOVIFIT® FC**

- Integrated frequency inverter
- Power distribution
- Communication interface





System Description

Overview of components for decentralized installation

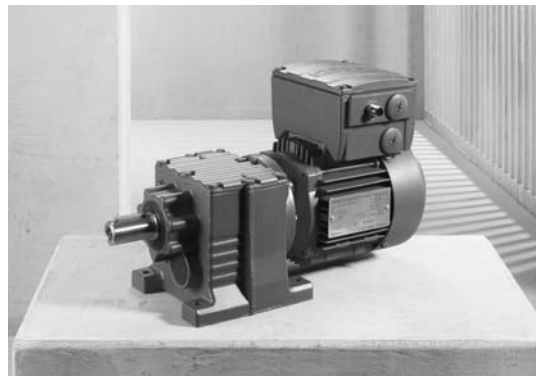
1.2.2 MOVIMOT[®], MOVI-SWITCH[®], fieldbus interfaces and field distributors

The following section gives an overview of the components:

- MOVIMOT[®]
 - The tried and tested combination of a gearmotor and a digital frequency inverter in the power range from 0.37 kW to 3 kW.



- MOVI-SWITCH[®]
 - The particularly economical solution when it comes to decentralization at power levels up to 3 kW
 - The switching and protection functions integrated into the motor terminal box mean that this compact and sturdy gearmotor does not require any additional cables.



- **Fieldbus interfaces and field distributors**
 - Field distributors rationalize the connection of drives with the power supply system, the 24 V control voltage and the fieldbus. They are based on the bus interfaces technology with additional connection technology for supply system distribution.
 - Mounting the field distributors close to the motor simplifies decentralized installation. The field distributors are the ideal partners for MOVIMOT[®] and MOVI-SWITCH[®] for fast, economical and flexible decentralization of your system.

