



2 System Description

2.1 Overview of components for decentralized installation

The following sections provide an overview of the components for decentralized installation from SEW-EURODRIVE:

2.1.1 Decentralized drive controllers

MOVIPRO®

The drive, positioning, and application controller for complex applications.

- MOVIPRO® SDC decentralized drive and positioning controller:
Parameterizable unit for simple application solutions
- MOVIPRO® ADC decentralized drive and application controller:
Parameterizable or freely programmable unit for more complex drive tasks



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MOVIFIT®

The drive controller for innovative field installation.

The new MOVIFIT® system combines the well-known advantages of SEW-EURODRIVE decentralized installation technology with modern, application-oriented drive and communication functions:

- MOVIFIT® FDC SNI: for controlling up to 10 MOVIGEAR® SNI drive units (see "MOVIGEAR® B" catalog)



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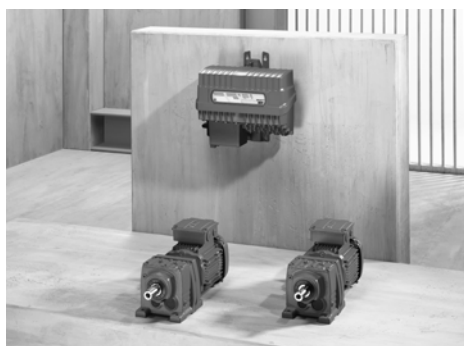


- MOVIFIT® MC: For controlling up to 3 MOVIMOT® drives.



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- MOVIFIT® SC: Integrated electronic motor switch for controlling 1 drive with 2 directions of rotation or 2 drives with 1 direction of rotation.



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- MOVIFIT® FC: Integrated frequency inverter



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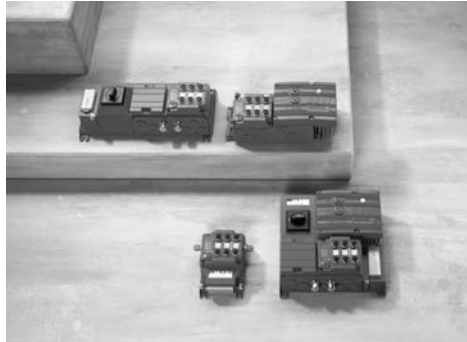


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Fieldbus interfaces and field distributors

- Field distributors establish an efficient connection between the drives and the power supply system, the 24 V control voltage and the fieldbus.
- They are based on decentralized fieldbus interface technology with additional connection technology for power distribution.



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MOVIMOT®

For mounting close to the motor

- The optional field mounting plate allows the MOVIMOT® inverter to be mounted close to the motor.
- The inverter is connected to the motor using a prefabricated hybrid cable.



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MOVI-SWITCH® 2S

For mounting close to the motor

- The optional field mounting plate allows the MOVI-SWITCH® 2S control section to be mounted close to the motor.
- The inverter is connected to the motor using a prefabricated hybrid cable.



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2.1.2 Drives

MOVIGEAR®

The mechatronic drive system (see "MOVIGEAR® B" catalog)

- MOVIGEAR® is a compact mechatronic drive system comprising a gear unit, a motor and drive electronics.
- MOVIGEAR® provides a high level of system efficiency contributing to reducing the overall energy expenses.



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DRC electronic motor

The mechatronic drive solution (see "DRC Gearmotors" catalog)

- The DRC electronic motor is a permanent-field synchronous motor with integrated drive electronics in motor efficiency class IE4. It saves up to 50 % of energy.
- The DRC motor supplements the product portfolio of mechatronic drive systems by a particularly flexible drive solution for mounting to a large variety of gear unit types. Helical, parallel-shaft helical, or helical-bevel gear units are mounted to the DRC motor via a flange and a pinion shaft.



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MOVIMOT®

The gearmotor with integrated frequency inverter

- MOVIMOT® is the proven combination of a gearmotor and a digital frequency inverter in a power range from 0.37 to 4.0 kW.
- Despite the integrated frequency inverter, MOVIMOT® is not much larger than a conventional gearmotor.



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MOVI-SWITCH®

The gearmotor with integrated switching and protection function

- MOVI-SWITCH® is a particularly efficient solution when it comes to decentralization at power levels of 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.



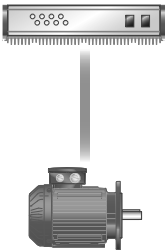
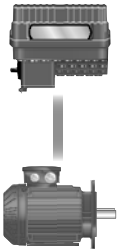
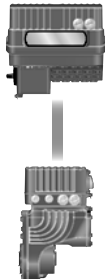
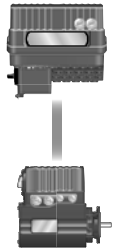
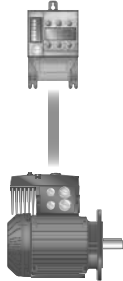
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2.2 System selection

The table below helps you to select the right decentralized drive system:

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Controller	MOVIPRO®	MOVIFIT® FC MOVIFIT® SC	MOVIFIT® FDC		MOVIFIT® FDC		Field distribu- tor Z.3. / Z.6.
							
Drive	Gearmotor	Gearmotor	MOVIGEAR®		DRC		MOVIMOT® gearmotor
Application			SNI	DSC	SNI	DSC	
Horizontal con- veyor line	–						
Corner transfer unit / rotary table with initiator	–						
Hoist			–	–			
Scissor lift table			–	–			
Synchronized material feed			–		–		
Screw conveyor	–						
Rotary drum with encoder position- ing			–		–		–
Agitator	–						
Requirements							
Positioning with encoder							–
Functional safety			–	–			– / 
Energy efficiency			 ¹⁾	 ¹⁾	 ¹⁾	 ¹⁾	
Wet area	–						 / –
Local application modules							–
Additional informa- tion	Chapter "MOVIPRO®" (page 16)	Chapter "MOVIFIT® MC / SC / FC" (page 94)	Separate "MOVIGEAR® B" catalog		Separate "DRC Gearmotors" cata- log		Chapter "Field- bus interfaces and field distributors" (page 190)

1) IE4

- Drive system suitable
- Drive system recommended