

Compact Power for Decentralized Applications
MOVIPRO® SDC/ADC

Decentralized drive, position, and
application controller



Compact controller, powerful performance

Many areas of mobile and stationary materials handling technology require compact, vibration-resistant systems that combine drive electronics with intelligence and ensure a high degree of flexibility. SEW-EURODRIVE offers a complete drive solution for such decentralized installation tasks: the new MOVIPRO® SDC/ADC drive, position, and application controller.

MOVIPRO® SDC/ADC offers limitless communication as it supports all common fieldbus systems. The decentralized drive and position con-

troller lets you install autonomous drive sectors that can be networked with one another via bus systems.

Driving the world – with innovative drive solutions for all branches of industry and for every application. Products and systems from SEW-EURODRIVE for any application – worldwide. SEW-EURODRIVE products can be found in a variety of industries, e. g. automotive, building materials, food and beverage as well as metal-processing. The decision to use drive technology “made by SEW-EURODRIVE” stands for safety regarding functionality and investment.



Areas of application

MOVIPRO® SDC/ADC combines all the required functions in one compact unit:

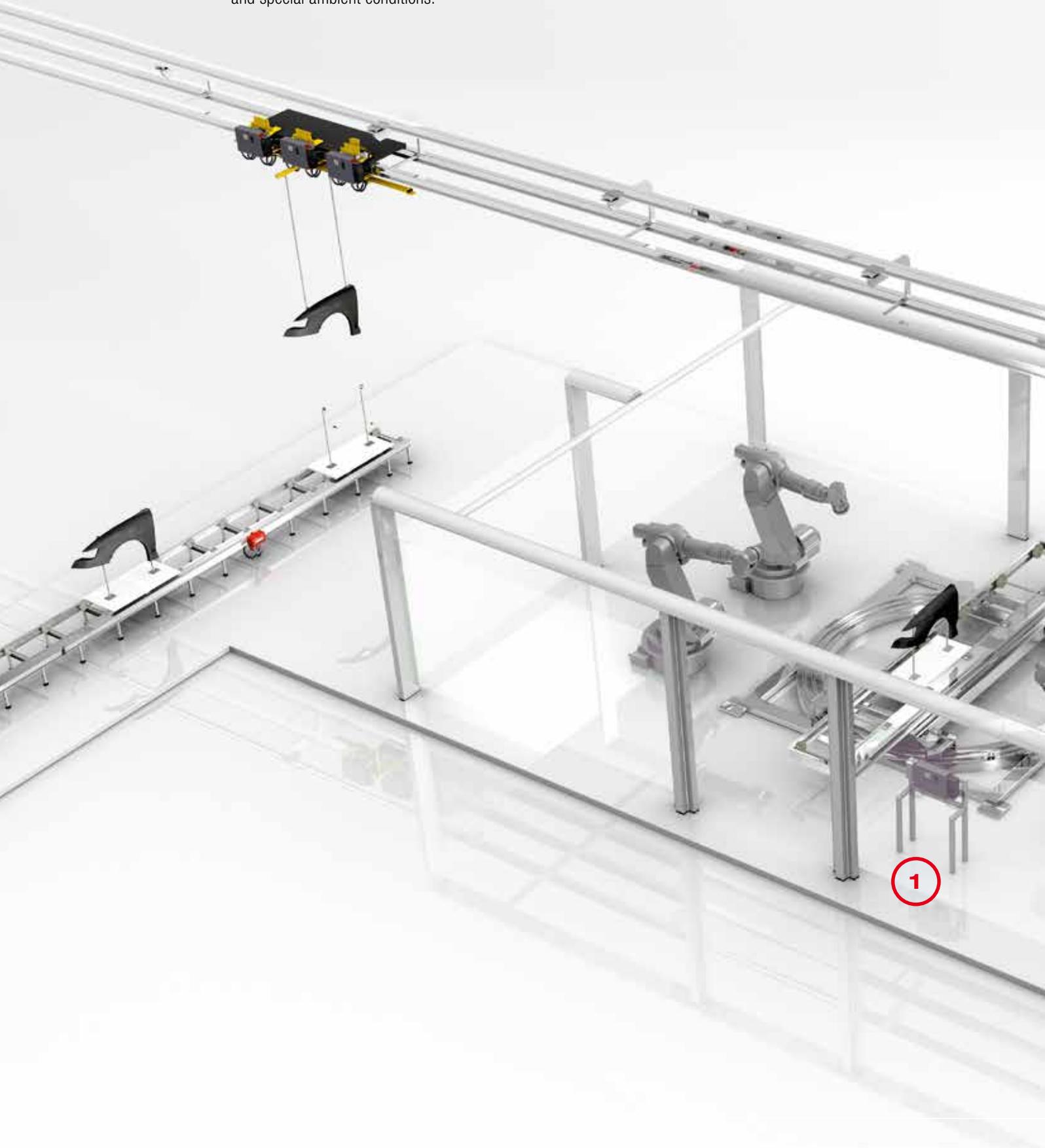
- power ratings from 2.2 to 15.0 kW
- degree of protection IP54
- robust aluminum housing
- pluggable connectors for power and signals

In comprehensive, field-oriented drive solutions, MOVIPRO® SDC/ADC focuses chiefly on conveyor and machine applications in the automotive industry, production logistics, and intralogistics.



Control, deceleration, and coordination

Each materials handling application requires a tailor-made drive concept based on the necessary load-bearing capacity, conveying speed or positioning, or the available space and special ambient conditions.



MOVIPRO® SDC/ADC is suited both for horizontal and for vertical conveyor applications:

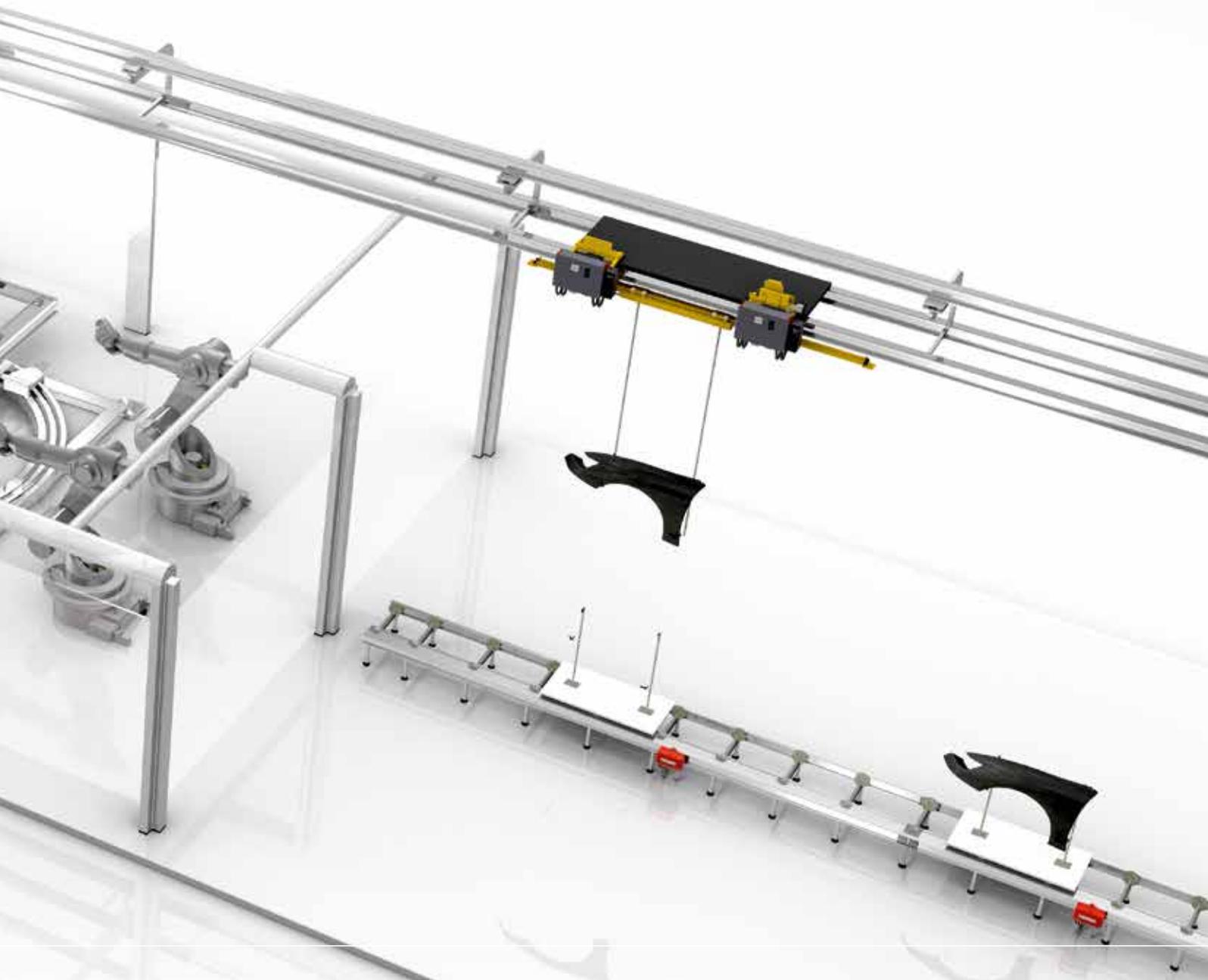
- Output power up to 15 kW for asynchronous motors or servomotors
- Precise positioning via encoders or initiators
- Safety functions
- Compact design

Areas of application

- Scissor lift tables
- Lifting/lowering conveyors
- Lifting stations
- Conveyor trolleys
- Rotary distributors
- Rotary indexing tables
- High-speed horizontal conveyor with positioning

Additional auxiliary axes (locking, roller conveyor, etc.) and application sensors can also be directly controlled using MOVIPRO® SDC/ADC to implement complete conveyor applications as independent but still transparent applications. Pre-assembled parts of the system can be commissioned more easily in advance to allow for outsourced production.

- 1 The design of MOVIPRO® SDC/ADC plays its strengths particularly in applications that require reliability and exact positioning. The modular and standardized MOVIPRO® SDC/ADC controller simplifies the integration of a variety of functions and reduces the complexity and implementation time of the machine or plant.



Features of the MOVIPRO® range of products

MOVIPRO® SDC/ADC

Simple project planning with MOVIPRO® SDC

- With the MOVIPRO® SDC controller type, users access standardized application modules for drive and positioning tasks. In this way, speed and position can be controlled in a convenient, simple and quick manner.

IEC 61131-3 programming with MOVIPRO® ADC

- Free programming according to IEC 61131-3 and PLCopen of the MOVIPRO® ADC controller type lets users flexibly implement plant-specific or complex functions, such as multi-axis synchronization or local coordination of several actuators and sensors.

More complex safety functions with MOVIPRO® ADC

- The functions SLS (Safety Limited Speed) as well as safe brake control (SBC) are integrated as an option to be able to meet the requirements of the new Machinery Directive 2006/42/EC for machine and plant safety.

Energy management with MOVIPRO® ADC

- Vertical lifting applications are partly operated in regenerative mode. This energy can be reused when employing the „regeneration“ option and in this way contributes to reducing the TCO costs.



Features of the MOVIPRO® range of products:

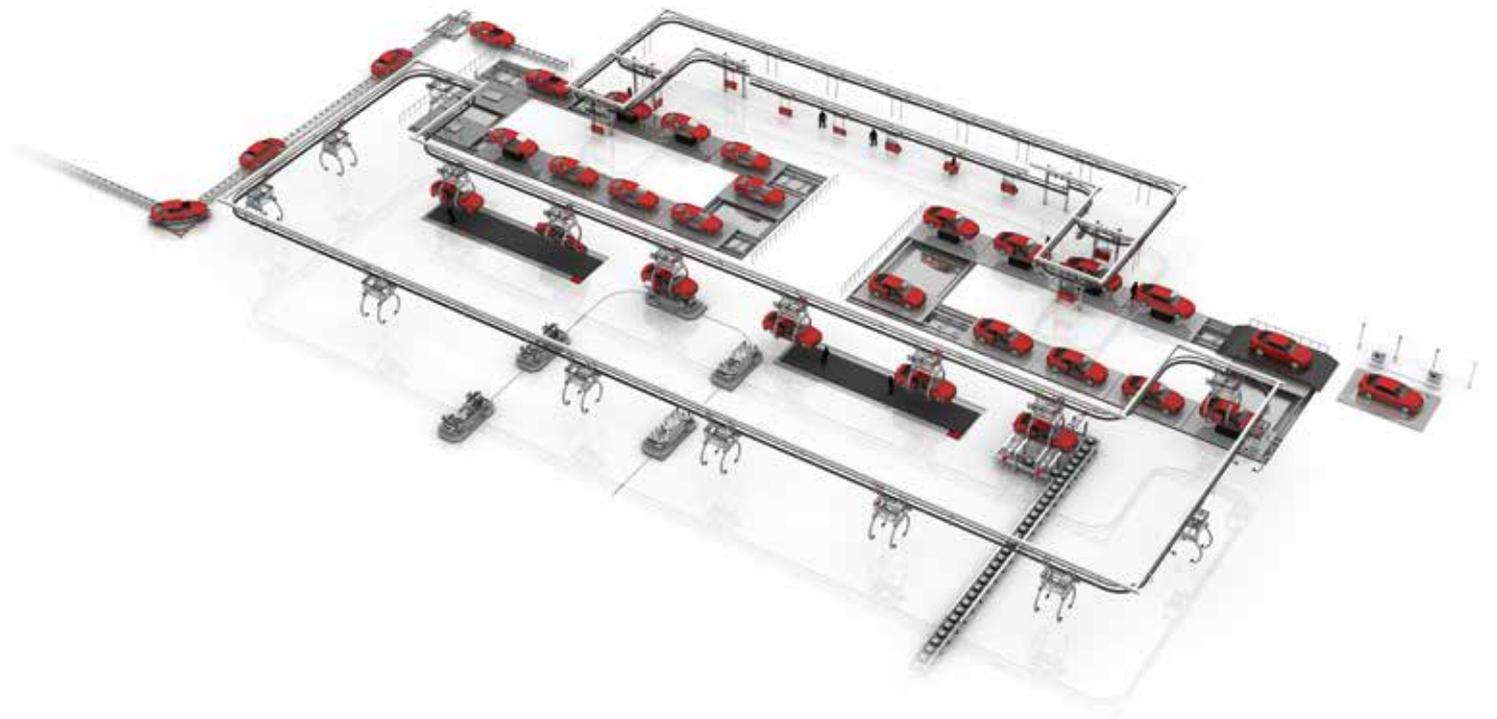
Integrated functions	<ul style="list-style-type: none"> – Power range: 2.2 ... 15 kW <ul style="list-style-type: none"> - Size 0: 2.2 kW - Size 1: 4 kW, 7.5 kW - Size 2: 11 kW, 15 kW / fanless operation up to 11 kW – Speed control and positioning – Optional encoder feedback for motor and track – Integrated brake controller with various brake voltages – Fieldbus interfaces: PROFIBUS, PROFINET, PROFIsafe, EtherNet/IP, Modbus/TCP, DeviceNet – MOVISAFE® integrated functional safety <ul style="list-style-type: none"> - Safe Torque Off (STO) up to category 3 and PL d according to EN ISO 13849-1 - Optional safe PROFIsafe bus system - Optional Safety Limited Speed (SLS) – Integrated 12 DI + 4 DIO – Optional RS485, SBUS, SBUS^{plus} interfaces for external actuators and sensors – Pluggable interfaces for power, motor and encoder – Local memory for parameters – Degree of protection IP54 – Optional maintenance switch – Optional, separable connection unit for linear power bus
Flexibility	<ul style="list-style-type: none"> – Communication via all established bus systems for regional flexibility – State-of-the-art connection technology based on plug connectors ensures fault-free installation and ease of maintenance – Parameterizable inverters support a wide range of motors (asynchronous and synchronous), from standard DRS.. to premium efficiency DRP.. motors and CMP motors
Consistency	<ul style="list-style-type: none"> – Consistent plant concept for the entire materials handling system <ul style="list-style-type: none"> - Installation topology (power, bus) - Operation, parameter setting, diagnostics with the engineering software MOVITOOLS® MotionStudio

Decentralized solutions pay off

The focus is on consistency already at the planning stage of complex machine and plant structures. The homogeneous installation concept with decentralized components from SEW-EURODRIVE is ideally suited for this purpose. The decentralized drive, position and application controller MOVIPRO® SDC/ADC ensures compatibility with existing control cabinet applications. Together with MOVITOOLS® MotionStudio, it offers a universal software environment for all engineering tasks, i.e. startup, diagnostics and maintenance.

Requirements for using MOVIPRO® SDC/ADC:

- Expansive installation with electrical drives
- System concept based on re-usable functions
- Compact and integrated drive controller
- Optimum speed control and precise positioning are to be implemented
- Local administration of I/Os and encoders
- Fast diagnostics and maintenance
- A complete drive and motion solution is needed from one source



In the automobile industry, for example:

MOVIPRO® SDC allows for more flexibility
in the automobile industry



- Position control ■
- Lifting applications ■
- Transfer systems ■



- Horizontal materials handling technology ■
- Lifting applications without encoder ■



- Individual solutions can be implemented depending on the function and/or application requirements
- The "consistency" of the materials handling technology across the entire plant, i.e. from the installation concept to machine operation up to various function levels reduce, among others, the expenditure of time as well as error sources at startup.

Reduced investment costs and plant operation risks, increased system availability

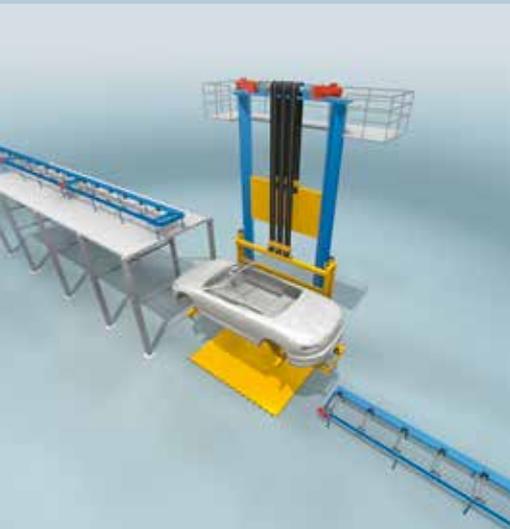
Machine and plant manufacturers benefit in the same way as operators from the new MOVIPRO® SDC/ADC technology. To fulfill the requirements of both sides and to offer flexible and intelligent solutions, SEW-EURODRIVE relies on the proven concept of modular components also for MOVIPRO® SDC/ADC: Perfectly matched components for power, brake, communication, control and safety, and a modular housing design afford perfect drive solutions.

Advantages for minimizing the risk of plant operation

Compact	<ul style="list-style-type: none"> – Low space requirement – Optimized mechanical integration into the system 	✓
Pluggability	<ul style="list-style-type: none"> – Quickly replaceable – quick maintenance – Short idle times – higher system availability – Reduced risk of incorrect wiring 	✓
"System in a box"	<ul style="list-style-type: none"> – Functional standardization – Simple plant expansion – Easier ordering – easier spare parts storage – Reduction of errors by minimizing complexity 	✓
Consistency in the plant	<ul style="list-style-type: none"> – Flexibility and planning security – Same installation concept for the entire materials handling system – Well-known and widespread technology – Standardized software tools for operation and diagnostics 	✓
Cost optimization	<ul style="list-style-type: none"> – No control cabinet in the field – Scaled functions for any application – Reduced variants – Easy installation and startup saves time 	✓

Using drive technology from the SEW-EURODRIVE system of modular components is the first step to reducing the complexity of plants by selecting functions matching the specific application. In addition to this, the decentralized drive, position and application controller minimizes the project risks and reduces implementation times and costs.

MOVIPRO® SDC/ADC is the basis for open and flexible system architectures, be it for a newly implemented system or an older system that needs to be modernized. The decentralized conveyor lines realized with MOVIPRO® SDC/ADC are far superior to any centrally controlled system, e.g. in terms of low space requirements for electronics or simplicity of configuration, installation and maintenance.



The decentralized installation philosophy of MOVIPRO® SDC/ADC reduces system complexity, enables open and flexible system architectures and in this way contributes to sustainably reducing investment and operating costs.

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