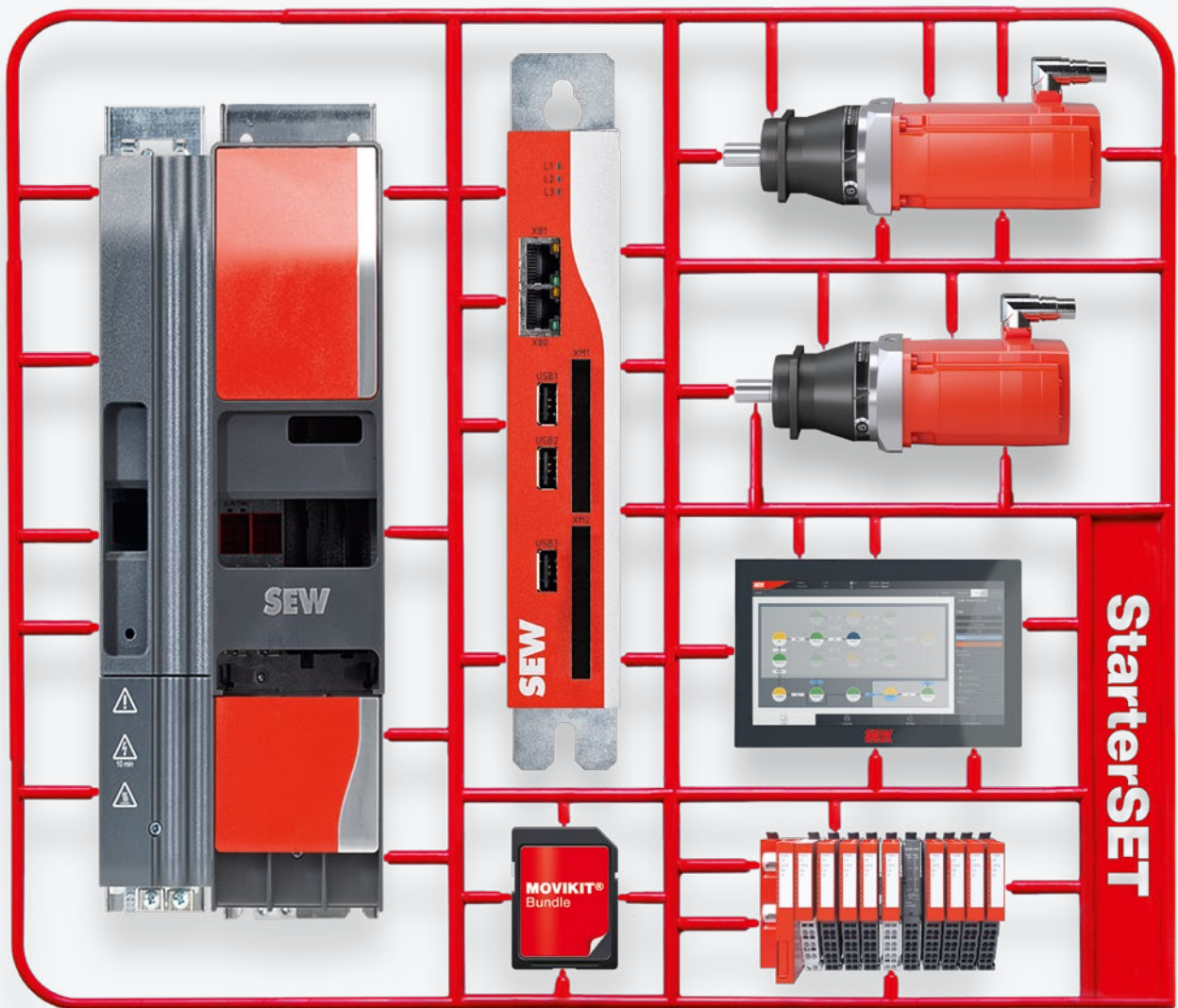


The basic package

Machine automation
from start to end of line



Flexible, modular, and independent.

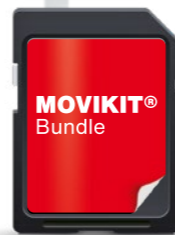
The StarterSET is the basic package and can be expanded to suit specific basic machine requirements. It's flexible, modular, and independent – anything is possible and nothing is a must. Regardless of which SEW-EURODRIVE option you choose, it's good to know that drive and automation technology can be fully realized with SEW-EURODRIVE products without sacrificing independence.



CM3C63S series synchronous servomotor with PxG® planetary servo gear unit



MOVI-C® CONTROLLER progressive UHX65



MOVIKIT® bundle on a memory card



MOVI-C®: MOVIDRIVE® modular – inverter for multi-axis applications

The StarterSET is the faster route to your finished machine

Our MOVI-C® modular automation system offers any number of possibilities for quickly automating machines and/or realizing automation projects fast. SEW-EURODRIVE is well known for making life easy for customers. As a reliable partner, we are looking to make things even simpler and go the extra mile for them.

True to our philosophy of being **faster, more customized, and more flexible**, our StarterSET offers you complete, perfectly coordinated automation packages for all kinds of machines and is similarly straightforward to a model kit. This not only makes life easier for you, but also cuts the time required for configuration, the project duration, and, ultimately, the overall costs (overall equipment effectiveness – OEE). A complete and perfectly coordinated software and hardware package “Made by SEW-EURODRIVE” provides you with a machine solution that is easy to configure for applications with processes that run continuously or in cycles.

MOVI-PLC® I/O system



MOVISUITE® engineering software web operator panel (WOP)



→ **Vertical FFS machine**
fully automated thanks to the Vertical Form Fill and Seal StarterSET and customized add-ons

Machine automation solutions from start to end of line

Every day, billions of goods, food items, and commodities are packaged, transported, unloaded, repackaged, mixed, stored, recycled, sorted, separated, divided into portions, and distributed – whether we’re talking about primary, secondary, or other types of packaging, the variety is simply endless. That makes packaging machinery indispensable. The packaging size, pack weight, product properties, and product volume are the decisive factors when it comes to automating packaging machines, their functions, and their motions.

Quick switchovers and frequent product changes call for a modular and flexible machine design. However, many application and motion sequences are the same. They may not be absolutely identical, but they still offer possibilities for simplifying things through standardization.

SEW-EURODRIVE developed the StarterSET for this very purpose. It consists of preselected basic hardware and software components for specific machine types. The StarterSET can be used as is, as a basic package, but there are also flexible adaptation options and countless customized add-ons.

1 Horizontal form, fill, and seal machines
→ Page 8

2 Vertical form, fill, and seal machines
→ Page 10

3 Sideloader/toploader multipackers
→ Page 12

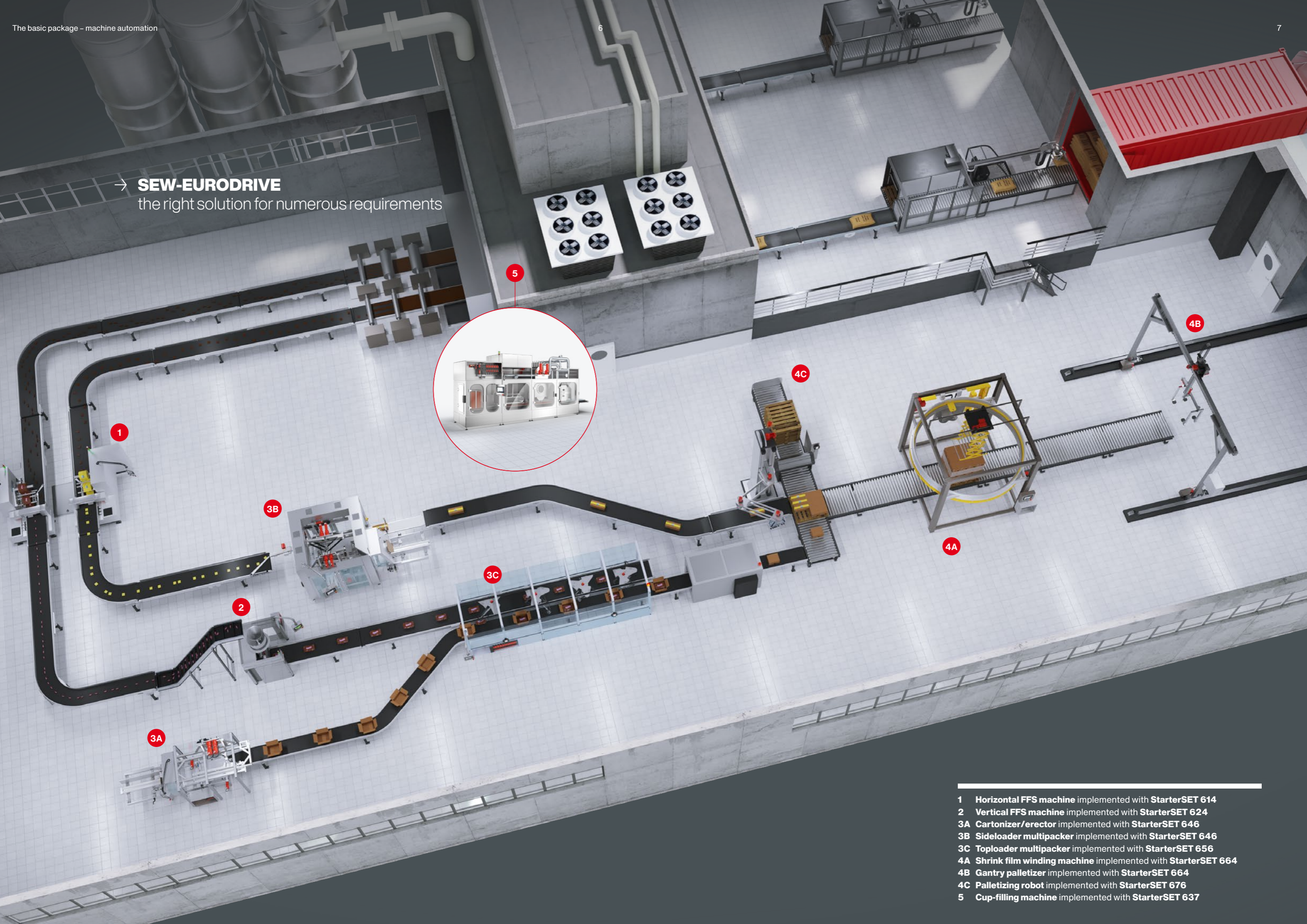
4 Gantry palletizers / palletizing robots
→ Page 14

5 Horizontal fill and seal machines
→ Page 16



5

→ **SEW-EURODRIVE**
the right solution for numerous requirements



- 1 Horizontal FFS machine implemented with StarterSET 614
- 2 Vertical FFS machine implemented with StarterSET 624
- 3A Cartonizer/erector implemented with StarterSET 646
- 3B Sideloader multipacker implemented with StarterSET 646
- 3C Toploader multipacker implemented with StarterSET 656
- 4A Shrink film winding machine implemented with StarterSET 664
- 4B Gantry palletizer implemented with StarterSET 664
- 4C Palletizing robot implemented with StarterSET 676
- 5 Cup-filling machine implemented with StarterSET 637

1 Horizontal form, fill, and seal machines



Horizontal FFS machines are ideal for packaging individual goods such as chocolate bars and cookies – not just in the food industry. These machines package the products individually and separately. SEW-EURODRIVE automation enables quick and easy automatic format changes for this application. Manufacturers can therefore handle different products and bag sizes perfectly using just one packaging machine.

Stable temperature control is crucial to the quality of the seal on the bags, while the material and the speed of the packaging machine have a direct impact on control. The software modules in the MOVIKIT® AutomationFramework provide a high-precision means of adjusting and monitoring such control processes using major disturbance variables. In combination with the MOVIKIT® MultiMotion Camming software module, the film print image can be perfectly synchronized with sealing. Here, too, the software modules contained in the StarterSET support quick and easy automation.

For a truly compact horizontal FFS machine with just two synchronous servo axes, look no further than the “standard” Horizontal Form Fill and Seal StarterSET (612) as a basic package. For up to six synchronized servo drives with further automation and visualization tasks, the “advanced” Horizontal Form Fill and Seal StarterSET (614) is the appropriate basic package. Regardless of the controller performance required, both include the FormFillSeal MOVIKIT® bundle with an extensive library of machine-typical functions. Perfectly coordinated, with a great deal of scope for customized programming and high degrees of freedom, the StarterSET is the ideal introduction to SEW-EURODRIVE’s world of automation.

Package contents

Basic configuration

StarterSET	612	614
Type	Horizontal Form Fill and Seal	Horizontal Form Fill and Seal
Performance	standard , recommended for 2 interpolated axes	advanced , recommended for 6 interpolated axes
MOVI-C® CONTROLLER	1 × UHX25 standard with MOVIRUN® flexible, runtime on SD card, EtherCAT® master, and PROFINET	UHX45 advanced with MOVIRUN® flexible, runtime on SD card, EtherCAT® master, and PROFINET
HMI WOP visualization	1 × 7" HMI web operator panel, capacitive touchscreen, web visualization	
MOVIKIT® bundle software	1 × FormFillSeal – license bundle for form, fill, and seal (FFS) machines. Comprising software licenses for application-specific implementation of typical horizontal or vertical FFS machines. AutomationFramework programming template, web visualization, OPC UA data server, electronic cams, support of field-bus master, and other machine-typical functions (winding, cutting, and sealing)	
MOVIDRIVE® MDP power supply module	1 × MOVIDRIVE® modular, 10 kW, with braking resistor and line filter	
MOVIDRIVE® MDS switched-mode power supply	1 × DC 24 V with AC and DC supply, 0.54 kW nominal power	
MOVIDRIVE® MDD double-axis module	1 × MOVIDRIVE® modular, double-axis module, controller for 2 servo axes, each with 2 A nominal current	
CMP50S servomotor	2 × 1.3 Nm standstill torque, single-cable technology, and DDI encoder	
PxG® planetary servo gear unit	2 × Single-stage with $i = 10$, including adapter, and mounting	
MOVI-C® DDI motor cable	2 × 5 m, highly flexible hybrid cable, single-cable technology	
MOVI-PLC® I/O bus coupler	1 × EtherCAT® coupler, including end terminal, preconfigured with: <ul style="list-style-type: none"> – DC 24 V power supply module – 32 × digital inputs / 24 × digital outputs, DC 24 V – 8 × analog inputs, DC ± 10 V, Pt1000 – Terminal modules with terminal block 	

2 Vertical FFS machines



Vertical form, fill, and seal machines (VFFS) are ideal for bulk materials such as nuts or candy. Bag size, pack weight, and product properties are decisive factors for the automation of machine functions and motions. The function libraries contained in the StarterSET include specially developed print mark correction functions for precisely monitoring the print image of the film to be processed.

The MOVIKIT® MultiMotion Camming software module contained in the StarterSET ensures volumetric filling that is synchronized in real time – using a worm, for example. This is made possible by the simple parameterization of filling variants and the simultaneous clock-synchronous control of the relevant actuators.

VFFS machines of this kind incorporate comprehensive drive and control functions almost from end to end and differ in terms of scale and performance. Accordingly,

SEW-EURODRIVE offers two StarterSET levels for these different performance classes. On average, there are six synchronized servo axes in an FFS machine. These are automated as appropriate using the “advanced” Vertical Form Fill and Seal StarterSET (624) as the basic package. If further synchronized drives and complex automation tasks are to be added, the “progressive” Vertical Form Fill and Seal StarterSET (626) is recommended. Regardless of how many axes are to be driven and the machine’s ultimate level of performance, our modular StarterSET always offers the appropriate basic configuration for the complete solution.

Package contents

Basic configuration

StarterSET	624	626
Type	Vertical Form Fill and Seal	Vertical Form Fill and Seal
Performance	advanced , recommended for 8 interpolated axes	progressive , recommended for 12 interpolated axes
MOVI-C® CONTROLLER	1 × UHX45 advanced (1-core CPU) with MOVIRUN® flexible, runtime on SD card, EtherCAT® master, and PROFINET	UHX65 progressive (2-core CPU) with MOVIRUN® flexible, runtime on SD card, EtherCAT® master, and PROFINET
HMI WOP visualization	1 × 10" HMI web operator panel, capacitive touchscreen, web visualization	
MOVIKIT® bundle software	1 × FormFillSeal – license bundle for form, fill, and seal (FFS) machines consisting of software licenses for the application-specific implementation of typical horizontal or vertical FFS machines. The main components of the MOVIKIT® bundle are licenses for the AutomationFramework programming template, web visualization, OPC UA data server, electronic cam functionality, support of fieldbus master, and other machine-typical functions (winding, cutting, and sealing)	
MOVIDRIVE® MDP power supply module	1 × MOVIDRIVE® modular, 10 kW, with braking resistor and line filter	
MOVIDRIVE® MDS switched-mode power supply	1 × DC 24 V with AC and DC supply, 0.54 kW nominal power	
MOVIDRIVE® MDD double-axis module	1 × MOVIDRIVE® modular, double-axis module, controller for 2 servo axes, each with 4 A nominal current	
CMP50M servomotor	2 × 2.4 Nm standstill torque, single-cable technology, and DDI encoder	
PxG® planetary servo gear unit	2 × Single-stage with $i = 10$, including adapter, and mounting	
MOVI-C® DDI motor cable	2 × 7 m, highly flexible hybrid cable, single-cable technology	
MOVI-PLC® I/O bus coupler	1 × EtherCAT® coupler, including end terminal, preconfigured with: <ul style="list-style-type: none"> – DC 24 V power supply module – 32 × digital inputs / 24 × digital outputs, DC 24 V – 8 × analog inputs, DC ± 10 V, Pt1000 – Terminal modules with terminal block 	

3 Sideloader/ toploader multipackers

MOVIKIT®
Bundle inside



In a sideloader or topper multipacker, a wide variety of product formats need to be processed as quickly as possible and with as little effort as possible. This calls for automation with highly flexible program execution – an ideal application for our MOVI-C® modular automation system.

Toploader multipackers are used in secondary packaging for products that cannot be stacked or accumulated. The prepared cartons and trays are automatically erected and glued. One or more kinematic models place the products from above into the carton, which is then closed and transported away.

The sideloader design without a robot kinematic model synchronizes the products with the cartons based on curves. Pulling, gluing, forming, filling, and closing – thanks to straightforward parameterization, the modular design of a topper or sideloader multipacker can be described and implemented in a short space of time using the correct StarterSET with the appropriate MOVIKIT® software modules from the MOVI-C® modular automation system. The “progressive” CasePacker StarterSET (646) provides functions such as the electronic cam for synchronized axis motions and position-dependent valve control in real time for this purpose. The “progressive” CasePacker Robotics StarterSET (656) is perfectly coordinated for the topper version thanks to the additionally integrated robot functionality.

Package contents

Basic configuration

StarterSET	646	656
Type	Case Packer (Side Load)	Case Packer Robotics (Top Load)
Performance	progressive , recommended for 12 interpolated axes	progressive , recommended for 16 interpolated axes
MOVI-C® CONTROLLER	1 × UHX65 progressive (2-core CPU) with MOVIRUN® flexible, runtime on SD card, EtherCAT® master, and PROFINET	UHX65 progressive (4-core CPU) with MOVIRUN® flexible, runtime on SD card, EtherCAT® master, and PROFINET
HMI WOP visualization	1 × 10" HMI web operator panel, capacitive touchscreen, web visualization	15" HMI web operator panel, capacitive touchscreen, web visualization
MOVIKIT® bundle software	1 × CasePacker – license bundle for curve-based erectors and multipackers (CP-SL) for the application-specific implementation of typical carton erectors and multipackers in sideloader design. AutomationFramework programming template, web visualization, OPC UA data server, electronic cams, machine-typical functions (cutting, gluing, and cam control)	CasePacker Robotics – license bundle for multipackers with robot kinematic model (CP-TL) for the application-specific implementation of typical multipackers in topper design with kinematic model. AutomationFramework programming template, web visualization, OPC UA data server, electronic cams, robot kinematic model, machine-typical functions (product tracking, gluing, and cam control)
MOVIDRIVE® MDP power supply module	1 × MOVIDRIVE® modular, 10 kW, with braking resistor, and line filter	
MOVIDRIVE® MDS switched-mode power supply	1 × DC 24 V with AC and DC supply, 0.54 kW nominal power	
MOVIDRIVE® MDD double-axis module	1 × MOVIDRIVE® modular, double-axis module, controller for 2 servo axes, each with 4 A nominal current	
CMP50M servomotor	2 × 2.4 Nm standstill torque, single-cable technology, and DDI encoder	
PxG® planetary servo gear unit	2 × Single-stage with $i = 10$, including adapter, and mounting	
MOVI-C® DDI motor cable	2 × 7 m, highly flexible hybrid cable, single-cable technology	10 m, highly flexible hybrid cable, single-cable technology
MOVI-PLC® I/O bus coupler	1 × EtherCAT® coupler, including end terminal, preconfigured with: – DC 24 V power supply module – 24 × digital inputs / 16 × digital outputs, DC 24 V – Terminal modules with terminal block	EtherCAT® coupler, including end terminal, preconfigured with: – DC 24 V power supply module – 32 × digital inputs / 24 × digital outputs, DC 24 V – Terminal modules with terminal block

4 Gantry palletizers / palletizing robots



Palletizers and palletizing robots are process automation systems for automatically combining packs on load carriers. There are basically four different types of palletizer – articulated arm robots, layer palletizers, linear robots and gantry palletizers. Pack size, pack weight and, in particular, the work envelope are key factors when it comes to machine functions and motions.

Our End-of-Line StarterSET always offers the right solution for this application. The “advanced” End-of-Line StarterSET (664) is the perfect choice for gantry and linear robots with or without a two-axis kinematic model, while the “progressive” End-of-Line Robotics StarterSET (676) provides the perfect basic package for complex articulated arm robots or kinematic models with four axes.

Thanks to the StarterSET’s excellent flexibility and modularity, you can implement any palletizing and depalletizing automation task quickly. Besides speed and reliability, the comprehensive range of functions geared specifically to palletizers in the EndofLine and EndofLine Robotics MOVIKIT® bundles contained in the StarterSET ensure a versatile software solution and perfect control of the robot axes for extremely gentle container handling and optimum stacking quality.

Package contents

Basic configuration

StarterSET	664	676
Type	End-of-Line	End-of-Line Robotics
Performance	advanced , recommended for 6 interpolated axes	progressive , recommended for 16 interpolated axes
MOVI-C® CONTROLLER	1 × UHX45 advanced with MOVIRUN® flexible, runtime on SD card, EtherCAT® master, and PROFINET	UHX65 progressive (4-core CPU) with MOVIRUN® flexible, runtime on SD card, EtherCAT® master, and PROFINET
HMI WOP visualization	1 × 10" HMI web operator panel, capacitive touchscreen, web visualization	15" HMI web operator panel, capacitive touchscreen, web visualization
HMI handheld DOP visualization	1 × –	7" mobile keypad for robot operation
MOVIKIT® bundle software	1 × EndofLine – license bundle for palletizers and XY gantry robots (EoL), for application-specific implementation of typical palletizers and gantries with 2D kinematic model. AutomationFramework programming template, web visualization, OPC UA data server, electronic cams, 2D robot kinematic model, machine-typical functions (gantry and winding)	EndofLine Robotics – license bundle for palletizing robots (EoL ROB), for application-specific implementation of typical palletizing robots with 4-axis kinematic model. AutomationFramework programming template, web visualization, OPC UA data server, electronic cams, robot kinematic model, machine-typical functions (product tracking, position detection, collision detection)
MOVIDRIVE® MDP power supply module	1 × MOVIDRIVE® modular, 25 kW, with braking resistor, and line filter	
MOVIDRIVE® MDS switched-mode power supply	1 × DC 24 V with AC and DC supply, 0.54 kW nominal power	
MOVIDRIVE® MDD double-axis module	1 × MOVIDRIVE® modular, double-axis module, controller for 2 servo axes, each with 4 A nominal current	
CM3C63M servomotor	2 × 4.9 Nm standstill torque, single-cable technology, brake, and DDI encoder	
PxG® planetary servo gear unit	2 × Single-stage with $i = 10$, including adapter, and mounting	
MOVI-C® DDI motor cable	2 × 10 m, highly flexible hybrid cable, single-cable technology	
MOVI-PLC® I/O bus coupler	1 × EtherCAT® coupler, including end terminal, preconfigured with: – DC 24 V power supply module – 24 × digital inputs / 16 × digital outputs, DC 24 V – Terminal modules with terminal block	EtherCAT® coupler, including end terminal, preconfigured with: – DC 24 V power supply module – 32 × digital inputs / 24 × digital outputs, DC 24 V – Terminal modules with terminal block

5 Horizontal fill and seal machines

MOVIKIT®
Bundle inside



Horizontal fill and seal machines are used for filling yogurt, pudding, and drinks into cups, cans, buckets and glass containers. The containers fed into the machine are separated, sterilized, filled, closed, sealed, inspected, and, finally, conveyed out.

The work steps are automated and need to be very precisely synchronized so as to ensure a high throughput.

Automation with our hardware and software solutions makes it possible to implement these types of machine, even when very stringent hygiene requirements apply. The comprehensive range of solutions offers manufacturers of fill and seal machines exactly the product they need to be able to package goods hygienically in line with their requirements and expectations.

Depending on the setup and requirements for cleaning the machine, and the specific design of the machine itself, a whole range of different drive and automation components are used. Consequently, the StarterSET for horizontal fill and seal machines is available as a basic package in two designs.

The “progressive” Horizontal Fill and Seal Hygienic StarterSET (637) is ideal for machines with drives that come into contact with food.

Stainless steel CM2H.. servo gearmotors are used in this case. The “progressive” Horizontal Fill and Seal StarterSET (636) contains servo gearmotors from the CM3C.. series in the standard design (degree of protection IP65), which can be used in applications where there is no contact with food.

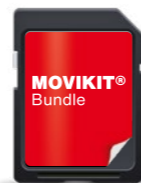
Special software functions have also been developed specifically for this type of machine. Both versions of the StarterSET contain the award-winning MOVIKIT® AntiSlosh software module. This module reduces the sloshing behavior of liquids considerably by adjusting the travel profile accordingly. This reduces the settling time for liquids that have been moved. These vibration-reducing motion calculations are a core element of the MOVIKIT® FillSeal bundle.

Package contents

Basic configuration

StarterSET	636	637	
Type	Fill and Seal	Fill and Seal Hygienic	
Performance	progressive , recommended for 16 interpolated axes		
MOVI-C® CONTROLLER	1 ×	UHX65 progressive (4-core CPU) with MOVIRUN® flexible, runtime on SD card, EtherCAT® master, and PROFINET	
HMI WOP visualization	1 ×	15" HMI web operator panel, capacitive touchscreen, web visualization	
MOVIKIT® bundle software	1 ×	FillSeal – license bundle for fill and seal (FS) machines for the application-specific implementation of typical horizontal fill and seal machines for liquids. The main components of the MOVIKIT® bundle are licenses for the Automation-Framework programming template, web visualization, OPC UA data server, electronic cam functionality, vibration-free motion profiles, support of fieldbus master, and other machine-typical functions (winding, cutting, and sealing)	
MOVIDRIVE® MDP power supply module	1 ×	MOVIDRIVE® modular, 25 kW, with braking resistor and line filter	
MOVIDRIVE® MDS switched-mode power supply	1 ×	DC 24 V with AC and DC supply, 0.54 kW nominal power	
MOVIDRIVE® MDD double-axis module	1 ×	MOVIDRIVE® modular, double-axis module, controller for 2 servo axes, each with 4 A nominal current	
CM3C63S/CM2H62M servomotor	2 ×	CM3C servomotor, 2.7 Nm standstill torque, single-cable technology, DDI encoder	CM2H stainless steel servomotor (hygienic), 3.1 Nm standstill torque, absolute encoder, 2 m
PxG®/PSH.. planetary servo gear unit	2 ×	Single-stage with $i = 10$, including adapter and mounting	Stainless steel gear unit (hygienic) single-stage with $i = 10$, mounted
MOVI-C® DDI motor cable	2 ×	10 m, highly flexible hybrid cable, single-cable technology	10 m, highly flexible cable, double-cable technology
MOVI-PLC® I/O bus coupler	1 ×	EtherCAT® coupler, including end terminal, preconfigured with: <ul style="list-style-type: none"> – DC 24 V power supply module – 24 × digital inputs / 16 × digital outputs, DC 24 V – 8 × analog inputs, DC +/- 10 V, Pt1000 – Terminal modules with terminal block 	

MOVIKIT® bundle overview



MOVIKIT® software	MOVIKIT® bundle type	FormFillSeal FFS	FillSeal FS
	License ID	SMB0001*	SMB0002*
Web Visualization	SMK1504*	1	1
AutomationFramework	SMK2001*	1	1
PowerMode PowerAndEnergySolution	SMK1402*		
EnergyMode PowerAndEnergySolution	SMK1403*		
CamSwitch	SMK0014-000		
MultiMotion Camming	SMK0001*	1	1
PositionController add-on	SMK0006*	1	1
Interpolation add-on	SMK0012*	1	1
AntiSlosh add-on	SMK0013*		1
CombinedEncoderEvaluation add-on	SMK0007*	1	1
Robotics	SMK1101-000		
MediumModels add-on	SMK1102-000		
TouchProbe add-on	SMK1107-000		
ConveyorTracking add-on	SMK1110-000		
Circle add-on	SMK1105-000		
PreControl add-on	SMK1108-000		
CollisionDetection add-on	SMK1109-000		
Gearing	SMK1709*		
Winder	SMK1710*	1	1
FilmFeeder	SMK1720-000	1	1
FlyingSaw	SMK1730-000	1	1
RotaryKnife	SMK1740-000	1	1
Torque	SMK1201-000	1	1
OPC-UA	SMK1501*	1	1
PROFINET IO-Controller	SMK1502-000	1	1
EtherNet/IP-Scanner	SMK1503-000	1	1

* For the relevant performance class, depending on the UHX controller (020, 040, 060, 080).

CasePacker CP-SL	CasePacker Robotics CP-TL	EndOfLine EoL	EndOfLine Robotics EoL ROB
SMB0003*	SMB0004*	SMB0005*	SMB0006*
1	1	1	1
1	1	1	1
			1
			1
1	1		
1	1		
1	1		
			1
		1	1
	2	1	2
	2		2
	2		2
	2		2
	2		2
	2		2
	2		2
		1	1
		1	1
1	1		
1	1		1
1	1	1	1
1	1	1	1
1	1	1	1

MOVIKIT® software functional description

Web Visualization	Browser-enabled visualization for Windows-based visualization devices with ready-made templates for machine functions.
AutomationFramework	Programming template for machine automation based on PackML-compliant state manager and mode manager, including linear positioning, module positioning, conveyor, rotary knife, flying saw, pick and place, and torque winder machine modules, and much more besides.
PowerAndEnergySolution PowerMode	Function library for MDP92A power supply module or MDE90A energy converter and energy storage units for creating highly efficient power supply solutions.
PowerAndEnergySolution EnergyMode	Function library for highly efficient energy supply solutions with the energy storage unit decoupled from the DC link and simple supply via an MDE90A energy converter.
CamSwitch	Software module for position-dependent switching of digital outputs with dead-time compensation to support several software tracks and cams per track.
MultiMotion Camming	Software modules used to implement universal motion control functions for interpolating axes, including position-based synchronous operation and electronic cam functionalities. An IEC interface can be used to activate and, for example, overlay the motion profiles.
PositionController add-on	Additional controller-based closed-loop controller modules for an external drive controller, for centralized position control, and conventional encoder evaluation.
Interpolation add-on	Add-on function for generating electronic cams on the target system without a development environment, based on the interpolation of curve point tables within the target system.
AntiSlosh add-on	Add-on function for generating travel profiles to reduce vibration, for slosh-free positioning of liquids, including parameterization, and analysis functions.
CombinedEncoderEvaluation add-on	Add-on function for optimized encoder evaluation by combining distance and motor encoder for enhanced dynamics.
Robotics	Basic software for controlling a robot with two joint axes and support from 2D kinematic models. Includes SRL programming language as a programming interface and interpreter for creating robot user programs.
MediumModels add-on	Add-on robotics function to control robots with three or four joint axes and support the relevant kinematic models.
TouchProbe add-on	Add-on robotics function for precise measurement of path points and sensor-based positioning.
ConveyorTracking add-on	Add-on robotics function for synchronizing kinematic (pick & place) motions with a conveyor belt application. Can be used directly without programming thanks to easy parameterization for typical pick and place applications with product tracking.
Circle add-on	Add-on robotics function for circular kinematic interpolation in three dimensions.
PreControl add-on	Add-on robotics function for drive precontrol to reduce path deviations, vibrations, and thus also cycle time.
CollisionDetection add-on	Add-on robotics function for kinematic collision detection to ensure mechanical and material protection.
Gearing	Software module for electric gear unit mode, for applications with synchronous operation using a predefined fieldbus interface and parameterization.
Winder	Function library with function blocks for implementing winding applications with tension control or controlled via the speed.

FilmFeeder	Software module for implementing synchronized film feed with optional print mark recognition / positioning advance and retard via a predefined fieldbus interface and parameterization.
FlyingSaw	Software module for implementing a synchronized flying saw using a predefined fieldbus interface, with parameterizable and automatic electronic cam generation.
RotaryKnife	Software module for implementing a rotary knife using a predefined fieldbus interface, with parameterizable and automatic electronic cam generation.
Torque	Software module to control two drives acting on a common mass and their loading.
OPC-UA	Provision of an OPC UA data server on the MOVI-C® CONTROLLER, as a standardized communication interface for the connection of field units and for general data access.
PROFINET IO-Controller	Provision of a PROFINET IO controller on SEW-EURODRIVE controllers with integrated multi-master option and possibility of connecting decentralized field units using PROFINET IO.
EtherNet/IP-Scanner	Provision of an EtherNet/IP scanner on SEW-EURODRIVE controllers with integrated multi-master option and possibility of connecting decentralized field units using EtherNet/IP™.



MOVIKIT® offers ready-to-use software modules for everything from simple drive functions to complex motion control functions.



→ **Countless add-on options**
and simply a faster route to the finished machine!



Other aspects of the
MOVI-C® modular automation system
that might interest you

Software

Digital motor integration

Energy management

SEW
EURODRIVE

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