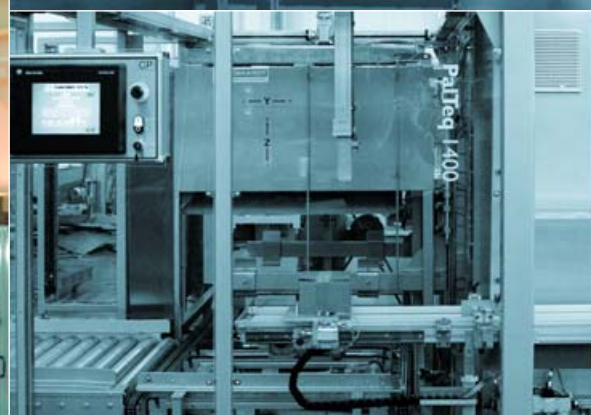


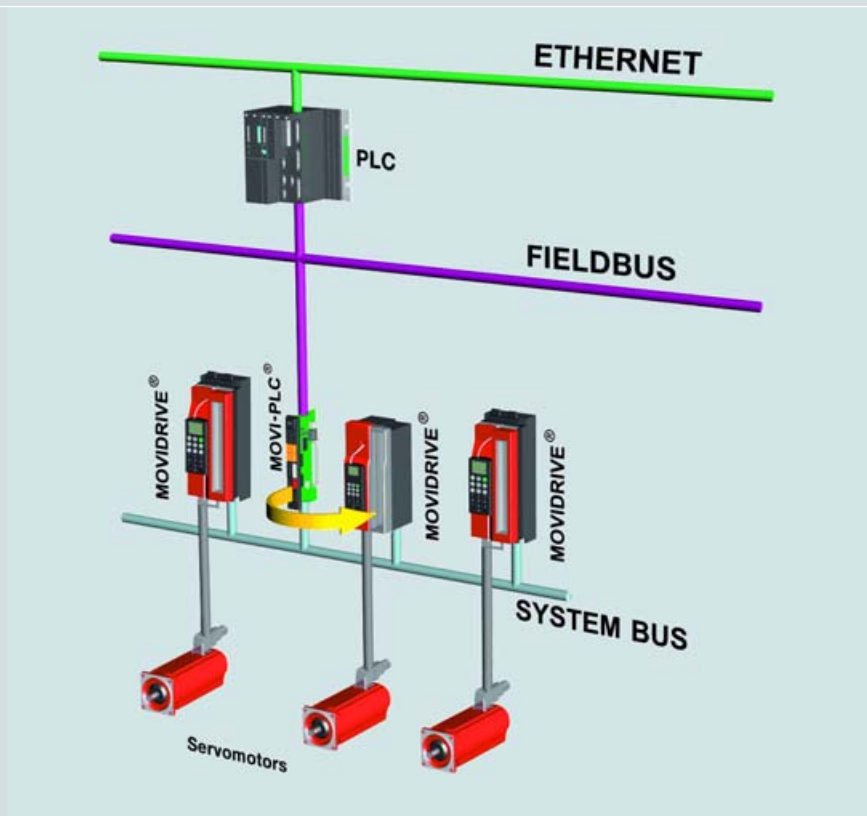
Application solutions for packaging technology:

Motion Solutions with MOVI-PLC®
for gantry palletizers



"Plug-and-Work" palletizing

Manufacturing and packaging processes for the production of consumer goods vary greatly. But in most cases, the production chain ends with the palletizing process. Here, secondary packaging such as cartons, trays, or containers are stacked on pallets for transport.



i	Application description	Criteria
	<p>In each cycle, the palletizer picks up one or several cartons from the feed conveyor and places them on a pallet. It follows a specified pattern, which is based on the size of the pallet and the cartons. Three axes position the pick-up, while a fourth axis controls its alignment. In each cycle, the four axes move the pick-up along a defined path, which results from variable corner points such as the point of pick-up and the point of placing the object on the pallet.</p>	<ul style="list-style-type: none"> – Flexible and simple specification of corner points and paths – Scalable solution also for palletizers with 2 or 3 axes – Fast cycle times – Cost-effective
?	Task	Requirements
	<p>All axes relevant for the motion sequence are to be combined into an intelligent function module. After the corner points have been specified, this module is to automatically coordinate the motion sequences of the individual axes. The desired path thus will include automatic overlap at the corner points. This means that the master controller is no longer responsible for the complicated coordination of axes, but only for specifying the corner points or selecting a path.</p>	<ul style="list-style-type: none"> – Intelligent function module – Elementary axis functions (jog mode, referencing, positioning) – Generation of coordinated motion sequences with automatic overlap – Engineering with standard tool in standard languages – Graphical interface for startup and parameter setting (e.g. specification of positions and paths)
✓	Solution from SEW-EURODRIVE	Components
	<p>Servo gearmotors, the drive inverter MOVIDRIVE® and a MOVI-PLC® control card form the intelligent function module, in which the inverter and MOVI-PLC® are connected via the integrated system bus. The software package “Application Solution Handling” offers a “Plug-and-Work” solution that provides basic axis functions (jog mode, referencing) and calculates the coordination of the axes including overlap. It can be used for 2 to 4 axes. They can be taken into operation using a graphical interface. Corner points and paths can be specified either by the master controller or by using the graphical interface. Breakpoints can be defined at which sensors can be queried. A standardized tool with programming languages according to IEC 61131 and extensive libraries ensures that the software package can easily be adapted to special requirements.</p>	<ul style="list-style-type: none"> – Intelligent function module with servo gearmotors, MOVIDRIVE® B application inverters and MOVI-PLC® control card. – Application Solution Handling for gantry palletizers – Fast cycle times – Cost-effective solution for 2 to 4 axes – Graphical interface for startup and parameter setting

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