

Product Announcement

AGV application system solution

Innovative automated guided vehicles





The perfect mix for every movement: System integration made by SEW-EURODRIVE

From now on, it does not matter what your drive problem looks like: The new system integration concept is SEW-EURODRIVE's turnkey solution for you.

All components and subsystems are integrated in the overall system. The result is an application tailored precisely to your requirements. The necessary standardization and matching of all components leads to a smaller number of interfaces and reduces maintenance storage. As a consequence, the costs occurring during the entire product life cycle decrease significantly.

At the same time, performance and flexibility of your system are improved and power consumption is reduced.

In addition to that, system integration made by SEW-EURODRIVE provides all the expertise and service from one source: from documentation to maintenance.

Your Requirements – Our Solution

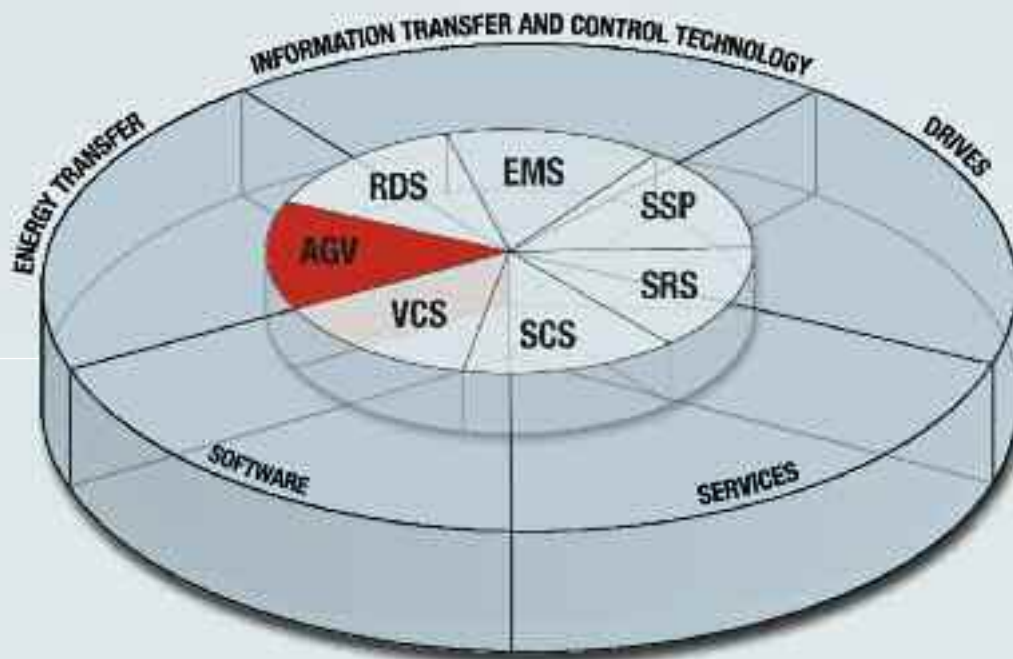
For decades, SEW-EURODRIVE drive technology has set the benchmark for quality and power, worldwide accessibility, competence and know-how. At SEW-EURODRIVE, we constantly strive for improvement. This leads to new, innovative products and solutions, which will continue to set standards. Take the new modular application system as an example: It combines single products and system modules to individual, functional application system solutions such as "Automated Guided Vehicles – AGV" perfectly matched to the application requirements.

SEW-EURODRIVE develops, tests and improves the solutions in close cooperation with leading system designers and operators. High-quality

production processes and shortest possible delivery times ensure greater efficiency for any system in any industry sector.



Modular application system



Application

- Overhead trolley system
- Skillet conveyor with energy supply
- Storage and retrieval unit
- Conveyor trolleys
- Vertical conveyor / hoist
- Automated guided vehicles
- Rotary distributor / rotary table

System solution from SEW-EURODRIVE

- **EMS** / Electrified Monorail System
- **SSP** / Skillet Conveyor System with Power Supply
- **SRS** / Storage and Retrieval System
- **SCS** / Shuttle Conveying System
- **VCS** / Vertical Conveyor System
- **AGV** / Automated Guided Vehicle System
- **RDS** / Rotary Distribution System



The proven product modular system in conjunction with the new system modules provide for customer-specific application system solutions "made by SEW-EURODRIVE": innovative, powerful and reliable.

System solutions for automated guided vehicle systems (AGV)

In many areas of intra-factory logistics, automated guided vehicles (AGV) provide new possibilities for automated material handling. The modular concept from SEW-EURODRIVE offers all components required for the implementation: transmission of power or data, control, visualization and diagnostics, or the use of additional drives or encoder systems.

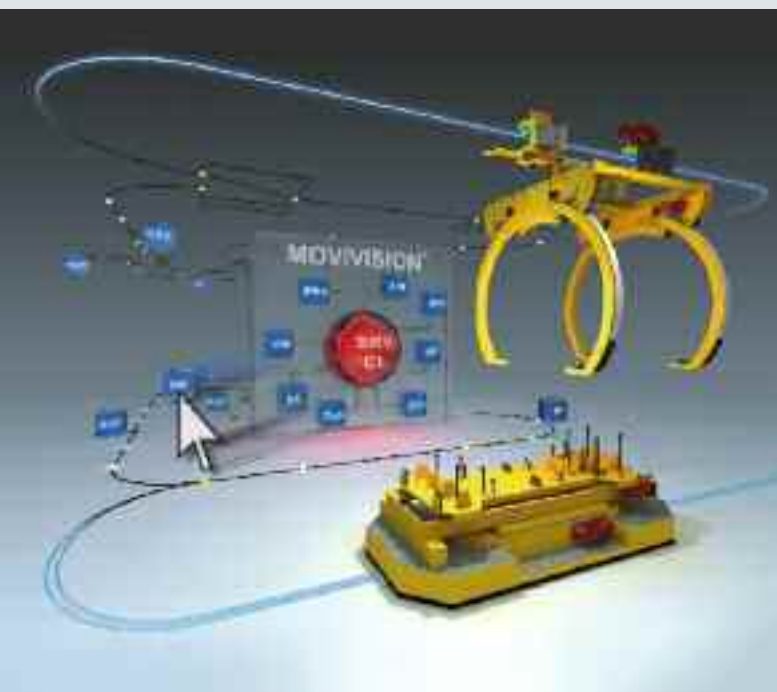
Distinctive feature: SEW-EURODRIVE is the first supplier to offer a complete solution for an automated guided vehicle system (AGV): design, project planning, all electronic and mechatronic components, startup support, installation monitoring and after-sales services.

Energy is supplied to the vehicles on the basis of the inductive power transmission principle of the contactless MOVITRANS® power supply system. In this system, electrical energy is transferred without contact from a fixed conductor to one or more AGVs. The electromagnetic connection is made via an air gap and is not subject to wear, making it maintenance-free. A continuous power supply to the vehicle renders a battery on the

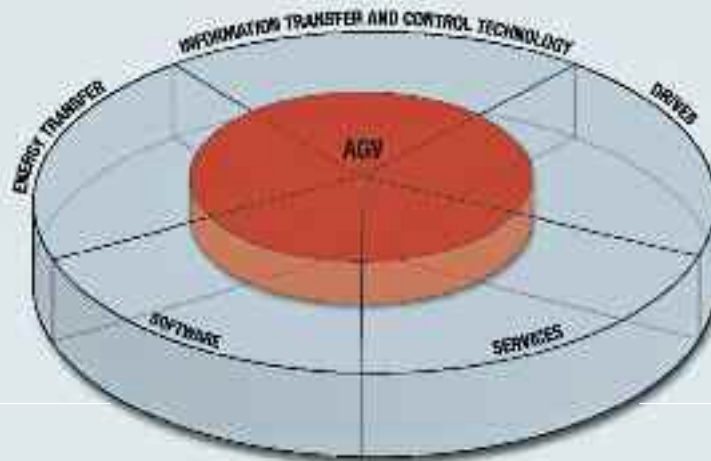
vehicle for storing energy obsolete. Another big advantage: MOVITRANS® is not affected by dirt, moisture or temperature fluctuations. The insulated power lines ensure full protection against contact. Information transfer and control of the AGV is provided by the decentralized MOVIPRO® controller.







Benefits of automated guided vehicle systems with contactless, continuous power:

- No charging cycles as opposed to a battery supply
- Maintenance-free energy transfer
- High availability and reliability
- No permanent follow-up costs for replacing run-down batteries



The system modules of the AGV application solution at a glance



	System modules				
					
AGV – Automated guided vehicle systems	Energy transfer	Drives	Information transfer and control technology	Software	Services
	<ul style="list-style-type: none"> – Contactless with MOVITRANS® 	<ul style="list-style-type: none"> – Standard servo gear units and motors 	<ul style="list-style-type: none"> – MOVIPRO® drive control – MOVIPRO® segment controller (optional) – MOVIPRO® LSI operator panel – MOVIPRO® information transfer components: Access point, radiating cable 	MOVIVISION® intuitive software solution for: <ul style="list-style-type: none"> – Design and project planning, administration, management and startup of the system – Facilitating the system maintenance, diagnostics as well as system operation and monitoring in the "function" or "coordination" power ratings 	<ul style="list-style-type: none"> – Planning – Application or system configuration – Startup support – Installation monitoring – Service and system maintenance with CDS® – Complete Drive Service – Distribution logistics, e.g. DriveGate – Product training at the DriveAcademy® – Internet portal for a perfect communication among the persons involved in the project



With the AGV application solution, SEW-EURODRIVE is able to implement flexible and efficient automated guided vehicle systems which control the intra-factory material flow independently and significantly increase productivity.

How we're driving the world



SEW-EURODRIVE
Driving the world

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