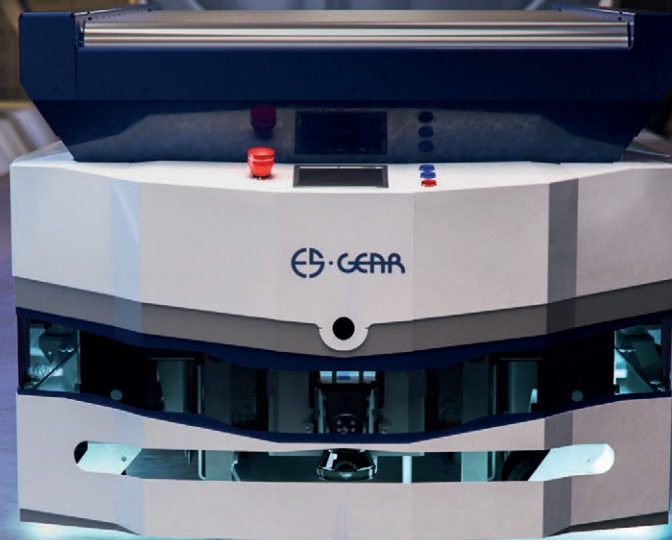




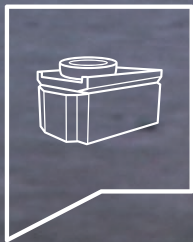
EUROPA
SYSTEMS®

AUTOMATED GUIDED VEHICLE

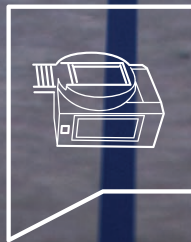


FACTORY OF THE FUTURE

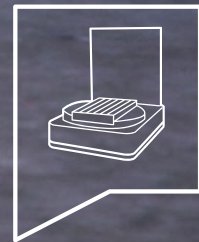
Doesn't your factory deserve
to be fully automated too?



**TECHNOLOGICAL
TRANSPORT**



**IN-LINE
PROCESS**



**END-OF-LINE
PROCESS**

ES GEAR

AGV TECHNOLOGY AT YOUR FINGERTIPS

Europa Systems has designed and manufactured the ES Gear - an Automated Guided Vehicle [AGV]

UNIQUE **PRODUCT CHARACTERISTICS**



MODULE CONSTRUCTION

Turnkey Custom Solution – “build your own AGV”. A modularised, pre-defined and scalable solution built in close cooperation with the customer. The vehicle has been designed so as to allow a choice of elevator, chassis size, loads, length of route and communication options.



CONTROL AND MANAGEMENT

Control and management system – “a fleet of automatic vehicles under your control”. ES Gear is fitted with a management control system which ensures the full integration of the truck with the existing intralogistic system: monitoring statuses and stocks, as well as the AGV fleet for location and battery charging levels. Europa Systems as the general contractor delivers and provides advice on the most effective and optimal forms of truck communication and navigation systems (wi-fi, laser, tape).



POWER SUPPLY

ES Gear is equipped with a SEW-EURODRIVE engine using the latest super capacitor technology and contactless energy transmission.

It is possible to combine these forms of power supply in a hybrid version. In such case we completely eliminate maintenance operations while the truck is in use (no operator involvement is required in order to charge the batteries).

USE OF ES GEAR

At production plants, warehouses, distribution centres – wherever the full automation of internal transport processes is required. FMCG, Automotive sector, especially Tyre and Retail. Automatic transfer trucks/fleet of trucks supporting the movement of goods – both finished and semi-finished products, raw materials and components. The key element is the complete integration of the truck fleet with the transport lines and other systems in the manufacturing and storage areas.



THE ES GEAR AGV IS ESPECIALLY DESIGNED TO WORK IN THE FOLLOWING AREAS

END-OF-LINE PROCESS | Production line end

Trucks designed for moving pallet loads, maximum load 2,000 kg, minimum working height 400 mm

IN-LINE PROCESS | Assembly lines

Truck carries dedicated loads on pallets and in crates, working height above 400 mm

TECHNOLOGICAL TRANSPORT

During the technological process, automatic movement of special loads between individual areas, e.g. in the tyre sector, the collection of “green tyres” from the green tyre warehouse, which are then placed on special trays and transported by the trucks to the press areas where they are threaded.

BUILD YOUR OWN AGV

MODULE TURN-KEY SOLUTION

POWER SUPPLY

- Energy storage, Supercapacitors
- Contactless energy transfer MOVITRANS®
- Hybrid

WORKING HEIGHT

- 400 mm
- 800 mm
- Up to 1200 mm or more

CONVEYOR OPTIONS

- Roller, belt or chain conveyors
- Turntable conveyor
- Lifting tables

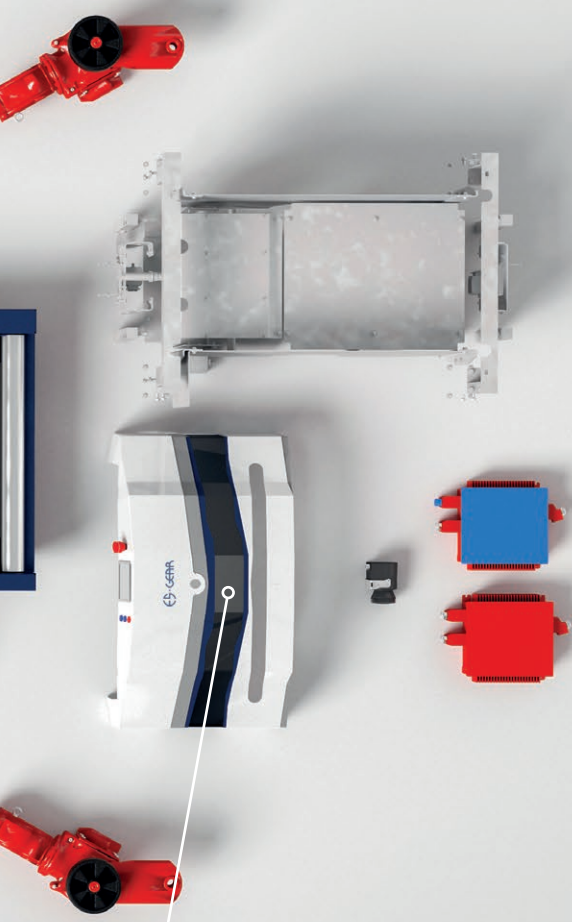
DESIGN

- RAL colour options
- Dedicated branding
- Optional equipment





HOW IT WORKS. Scan the code and Watch the movie
www.europasystems.pl/agv



TECHNICAL PARAMETERS OF ES GEAR

- **AGV Type**
Load Transport Vehicles – intended for horizontal transport of loads on the truck
- **Load**
between 50 and 2,000 kg
- **Load unit**
typical pallet units (euro, industrial), but also smaller transport units (semi-pallets, boxes, trays, cartons))
- **Transport speed**
up to 60 m/min or depending on the work zone
- **Charging time**
supercapacitors with a charging time of several seconds at the docking stations
- **Power supply**
Supercapacitors, induction tape MOVITRANS
- **Control**
Siemens S7/200

NAVIGATION

- Wire - guided
- Magnetic
- Laser - guided

We agree on the selection of power supply technology with the customer. Depending on needs and conditions it may turn out that using popular motive-power batteries is a more advantageous option.



EUROPA SYSTEMS

ES GEAR TEAM

ES GEAR – THE AUTOMATED GUIDED VEHICLE IS YET ANOTHER INNOVATIVE DESIGN CREATED BY THE ENGINEERS AT EUROPA SYSTEMS.

“*Scientists dream about doing great things.
Engineers do them.*”

James A. Michener

Photo, from left to right :

Krzysztof Piotrowski - constructor, **Robert Chmara** - project manager,
Bartosz Młyński - designer, **Przemysław Świtacz** - project manager,
Dawid Jarzab - constructor

WE ARE ENGINEERS

We are a team of 200 engineers, technicians and highly qualified specialists.

We have one of the most modern production plants in Europe and a team of more than 20 designers.
We have over 20 years

of experience gained through the deployment of hundreds of projects for customers in 35 countries.

We are among the leading manufacturers of internal logistic systems and equipment and automatic storage systems.

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EUROPA
SYSTEMS®



WE ARE ENGINEERS

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