



# AUTOMATED GUIDED VEHICLES



Our **broad range of AGVs** meets any handling requirements in the industrial sector, as it ranges from counterbalance vehicles to pallet trucks, from drive-in and stacker crane satellites to maxi outdoor shuttles, ensuring high performance and reliability for all models.

# AUTOMATED GUIDED VEHICLES

- > COUNTERBALANCED AGVs
- > PALLET TRUCKS
- > INDOOR TURTLES
- > MAXI OUTDOOR SHUTTLES
- > SHUTTLES FOR DRIVE-IN
- > SHUTTLES FOR STACKER CRANES



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Automated Guided Vehicles increase the **efficiency** and the **safety** of intralogistic operations, both indoors and outdoors. EMS AGVs ensure:

- > High application flexibility.
- > Finished product integrity.
- > Less costs due to damage to structures.

Thanks to safety laser scanners, AGVs guarantee **maximum reliability** when picking up and putting down products, avoiding risks for operators.

### Navigation system:

Laser guided, with SLAM/reflectors overhead and on the floor. Advantages: high flexibility, reduced installation times.

### Battery types:

Lithium battery.  
Lead-acid battery.

### Charging options:

Charging through contacts (biberronage).  
Manual or automatic battery change.

## COUNTERBALANCED AGVs

These counterbalanced vehicles are capable of operating both indoors and outdoors; they can also be equipped with double forks, forks with translators or centering devices, telescopic forks, hydraulic clamps, container tilting devices.

### THOR

Thor is designed to **handle materials** and **finished products**. It can also be equipped with forks, side telescopic forks and accessories for handling drums, metal tanks and reels.



- > Up to 3,000 kg load capacity (loading center: 600 mm).
- > Lifting capacity up to 8 m post.
- > Speed up to 1.5 m/s.
- > Forks with automatic translation and centering.
- > Front and side bumpers in addition to front and rear laser scanners.

### PAQUITO

Paquito is able to **handle materials** and **finished products** with a maximum weight of 1,300 kg (loading center: 600 mm).



- > Available version PAQUITO HEAVY, with load capacity up to 1,500 kg.
- > Lifting capacity up to 5 m.
- > Speed up to 1.8 m/s.
- > Forks with automatic translation and centering.
- > Compact size for maximum maneuvering freedom.
- > Front and side bumpers in addition to front and rear laser scanners.

## PALLET TRUCKS

These AGVs are **pallet truck type vehicles** with mast up to 5 m and particularly suitable for maneuvering in tight spaces. Safety based on front and side bumpers in addition to front and rear laser scanners.

### ESALINK 2.0



- > Up to 1,650 kg load capacity.
- > Lifting capacity up to 5 m.
- > Speed up to 1.5 m/s.
- > Forks with automatic translation and centering.
- > Compact size for superior maneuvering freedom.
- > Front and side bumpers in addition to front and rear laser scanners.

### ESAFLAT 65

Pallet truck type vehicle for heavy load handling.



- > Up to 6,500 kg load capacity.
- > Loading bed riser: 100 mm.
- > Speed up to 1.5 m/s.
- > Front and side bumpers in addition to front and rear laser scanners.

### OBERON



- > Up to 1,600 kg load capacity.
- > Lifting capacity up to 3 m.
- > Speed up to 1.5 m/s.
- > Compact size for superior maneuvering freedom.
- > Front and side bumpers in addition to front and rear laser scanners.

## INDOOR TURTLES

(Front or side unloading)  
Indoor Turtles carry loads onboard and can be equipped with chains, roller conveyors, belts, bed and lifting bed.

### DUKINO



- > Up to 400 kg load capacity.
- > Speed up to 1.5 m/s.
- > Loading bed height: 800 mm from the ground.
- > Option of installing a simple bed, lifting bed, motorized roller conveyors, chain conveyors and belts.

### ESATWIN 2000



- > Up to 2000 kg load capacity.
- > Speed up to 1.2 m/s.
- > Loading bed height: 900 mm from the ground.

## MAXI OUTDOOR SHUTTLES

These units transport and **protect finished products** from the place of manufacture to any surrounding facilities. The use of these vehicles replaces the intensive use of trucks, reducing carbon dioxide emissions.

### BIBE 120



- > Up to 12,000 kg load capacity.
- > Speed up to 1.3 m/s.
- > Automatic load covering.
- > Modular belts to move baskets.
- > Front and side bumpers in addition to front and rear laser scanners (outdoor).

### ESANAV 3RL-45



- > Up to 4,500 kg load capacity.
- > Three motorized independent roller conveyors.
- > Automatic load covering.
- > Speed up to 1.3 m/s.
- > Front and side bumpers in addition to front and rear laser scanners.

### ESANAV 35



- > Up to 4,000 kg load capacity.
- > Single large motorized internal roller conveyor.
- > Automatic load covering.
- > Speed up to 1.3 m/s.
- > Front and side bumpers in addition to front and rear laser scanners.

### ESACHAIN 80



- > Up to 8,000 kg load capacity.
- > Loading bed height: 1000 mm from the ground.
- > Two motorized independent chain conveyors.
- > Speed up to 1.3 m/s.
- > Front and side bumpers in addition to front and rear laser scanners.

### ESANAV R65



- > Up to 6,500 kg load capacity.
- > Loading bed height: 400 mm from the ground.
- > Two motorized independent roller conveyors.
- > Automatic load covering.
- > Speed up to 1.3 m/s.
- > Front and side bumpers and ultrasonic sensors.

### ESANAV XL80

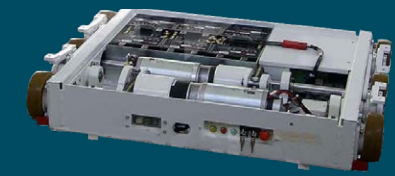


- > Up to 5,000 kg load capacity.
- > Loading bed height: 400 mm from the ground.
- > Two motorized independent roller conveyors.
- > Automatic load covering.
- > Speed up to 1.3 m/s.
- > Front and side bumpers and ultrasonic sensors.

## DRIVE-IN SHUTTLES

Ideal for handling pallets inside drive-in warehouses, allowing the operator or AGV to place and pick up products at the entrance of the drive-in, without entering the lane.

### TALP-ONE



- > Up to 1,300 kg load capacity.
- > Maximum speed: 1 m/s.
- > Acceleration: 1 m/s<sup>2</sup>.
- > It can operate in cold storage rooms (down to -30°C).
- > Automatic control of pallet positioning on platform.

## STACKER CRANES SHUTTLES

Shuttles for handling pallets with stacker cranes inside drive-in warehouses.

### TALP-OTTO



- > Up to 1,300 kg load capacity.
- > Maximum speed: 1 m/s.
- > Acceleration: 1 m/s<sup>2</sup>.
- > It can operate in cold storage rooms (down to -30°C).

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EMMETI

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Zecchetti

EMS Group was born in 2018 from the merger of five leading companies in the handling, palletizing and storage of goods and materials. The Group quickly made its mark, becoming an industry standard on the global market. Thanks to a wealth of expertise and a vast capacity for innovation and design flexibility, EMS Group is able to support customers with integrated digital solutions geared towards enhancing competitiveness.

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