TUSKROBOTS
EUROPE

OMNIDIRECTIONAL PALLET-HANDLING AGV

TUSK **ES OMNI**

Move sideways.
Open new routes.

Move sideways and align with pallets without needing to turn. TUSK ES OMNI brings greater flexibility to pallet handling in production and warehouse layouts.



1,000 kg	Omnidirectional	360°
PAYLOAD	MOVEMENT	LASER COVERAGE

www.tuskrobots.eu

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OMNIDIRECTIONAL PALLET FLOW

Approach pallets from a new angle. Move with greater flexibility.

When a conventional turning approach does not suit your layout, TUSK ES OMNI adds another option. Sideways and angled travel supports flexible alignment at pickup and drop-off points.

01 Align without turning first

Move laterally or at different angles to approach pallet positions and connect transport paths.

02 Handle loads up to 1,000 kg

Engage loads with a 1,400 mm fork extension. Lift up to 1,000 kg to a maximum height of ≤330 mm.



03 Keep pallets moving for longer

The battery runs for at least eight hours and recharges in up to 1.5 hours.

04 Navigate safely. Position Precisely.

Stopping accuracy is ±5 mm / ±1° with DM codes and ±10 mm / ±1° with SLAM. Dual front and rear laser sensors combine 360° coverage with PLd-level safety.

CE Certified
MEETS EU SAFETY REQUIREMENTS

VDA 5050 Ready
STANDARDISED FLEET INTEGRATION

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TECHNICAL SPECIFICATIONS

Flexible movement. Precise positioning.



The ES OMNI moves in any direction, handles loads up to 1,000 kg and offers 1,400 mm of fork extension. Allow a 2,210 mm aisle for turning.

GENERAL SPECIFICATIONS

VEHICLE WEIGHT
380 kg

DIMENSIONS (L × W × H)
1,297 × 1,497 × 170 mm

VEHICLE TURNING WIDTH
1,908 mm

RATED LOAD CAPACITY
1,000 kg

FORK REACH
1,400 mm

OPERATING TEMPERATURE RANGE
0 to +45 °C

NAVIGATION, SAFETY & PERFORMANCE

NAVIGATION TECHNOLOGY
SLAM + DM code

STOPPING ACCURACY
±5 mm / ±1° (DM), ±10 mm / ±1° (SLAM)

TRAVEL SPEED (UNLOADED / LOADED)
1.44 / 1.2 m/s

GAP / MAXIMUM SLOPE / STEP CAPABILITY
30 mm / 4° (7%) / 10 mm

SAFETY LASER COVERAGE
360° via dual front + rear laser sensors

MAXIMUM LIFT HEIGHT
≤330 mm

LITHIUM BATTERY PERFORMANCE

≥8 h	≤1.5 h	2,000
BATTERY RUNTIME	CHARGING TIME	FULL CHARGE CYCLES

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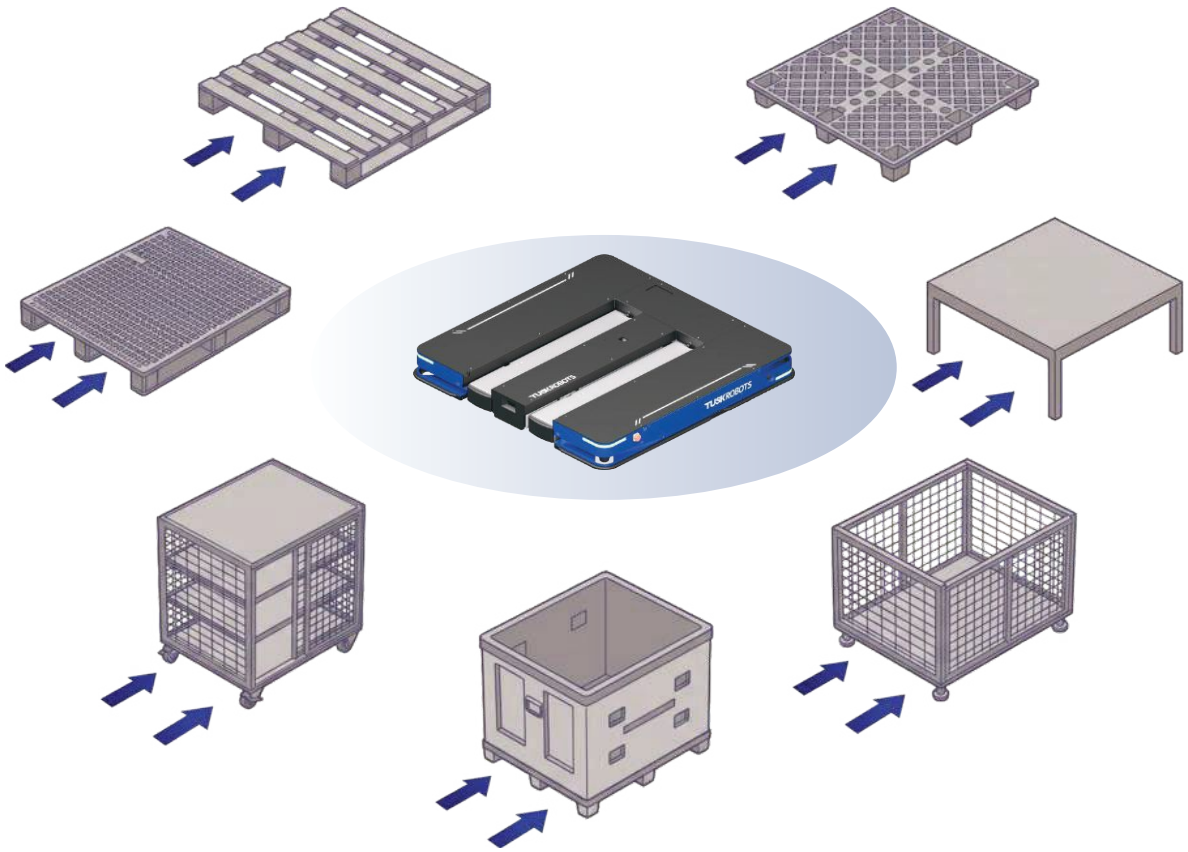
PALLET COMPATIBILITY

The right fit for your pallets.

Pallet compatibility depends on the opening height and load weight.
The ES OMNI accepts 95–130 mm openings. At 1,000 kg, use 100–130 mm.
Its forks are 90 mm high and extend by 1,400 mm.



Bring more flexibility to your pallet routes.

Share your layout and pallet handling needs with us.
We'll help you explore how the ES OMNI can reach difficult pickup points and automate your transport routes.

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