TUSKROBOTS
EUROPE

AUTOMATED HEAVY PALLET TRANSPORT

TUSK **ES TITAN**

Move heavier loads.
Keep production moving.

Automate the pickup and transport of industrial pallets weighing up to 1,500 kg. A low-profile design and extending forks simplify pallet handling. Choose DM-code navigation or combined SLAM and DM-code navigation.



1,500 kg	≤2 h	±5 mm / ±1°
PAYLOAD	CHARGING TIME	DM-ONLY STOPPING ACCURACY

www.tuskrobots.eu

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PALLET HANDLING

Take the manual work out of heavy pallet transport.

Move loads of up to 1,500 kg between production, staging areas and storage, with extending forks for pallet pickup and a turning width of 1,800 mm.

01 Handle loads up to 1,500 kg

Pick up and transport heavy loads on compatible 1,000 × 1,200 mm industrial pallets.

02 Choose your navigation method

The robot uses either DM codes alone or combined SLAM and DM codes to travel between pickup and drop-off points.

03 Stop precisely. Move efficiently.

DM-only stopping accuracy is ±5 mm / ±1°.
With SLAM + DM, it is ±20 mm / ±2°.
Travel speed is up to 1.5 m/s unloaded.

04 Detect obstacles around the robot

Front and rear laser sensors provide 360° coverage. Additional sensors at the fork tips detect obstacles within a 100 mm range.

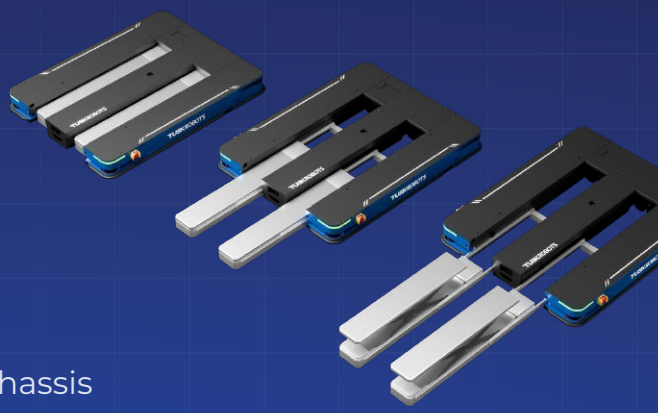


CE Certified
MEETS EU SAFETY REQUIREMENTS

VDA 5050 Ready
STANDARDISED FLEET INTEGRATION

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TECHNICAL SPECIFICATIONS



A compact platform for heavy pallets.

TUSK ES TITAN carries loads of up to 1,500 kg on a chassis just 170 mm high. Its forks extend up to 1,400 mm to pick up pallets, and it needs 1,800 mm of space to turn.

GENERAL SPECIFICATIONS

VEHICLE WEIGHT
331 kg

DIMENSIONS (L × W × H)
1,286 × 1,102 × 170 mm

MINIMUM TURNING WIDTH
1,800 mm

RATED LOAD CAPACITY
1,500 kg

FORK REACH
1,400 mm

OPERATING TEMPERATURE RANGE
0 to +45 °C

NAVIGATION, SAFETY & PERFORMANCE

NAVIGATION TECHNOLOGY
DM codes alone or SLAM + DM codes

STOPPING ACCURACY
±5 mm / ±1° (DM only)
±20 mm / ±2° (SLAM + DM)

TRAVEL SPEED (UNLOADED / LOADED)
1.5 / 1.2 m/s

MAXIMUM GAP / SLOPE / STEP CAPABILITY
40 mm / 4° (7%) / 15 mm

SAFETY LASER COVERAGE
360° via front and rear laser scanners

MAXIMUM LIFT HEIGHT
≤330 mm

LITHIUM BATTERY PERFORMANCE

≥6 h	≤2 h	1,500
BATTERY RUNTIME	CHARGING TIME	FULL CHARGE CYCLES

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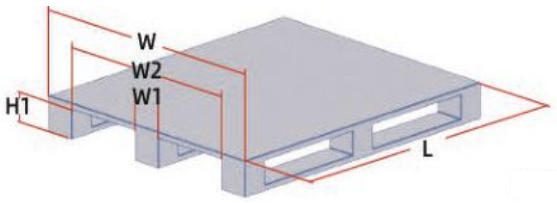
LOAD CARRIER COMPATIBILITY

Automate the way you move pallets, platforms and carts.

Handle loads up to 1,500 kg on compatible pallets. Use the dimensions below to check pallet fit. For platforms and wheeled carts, we'll review the frame and pickup points to confirm compatibility.

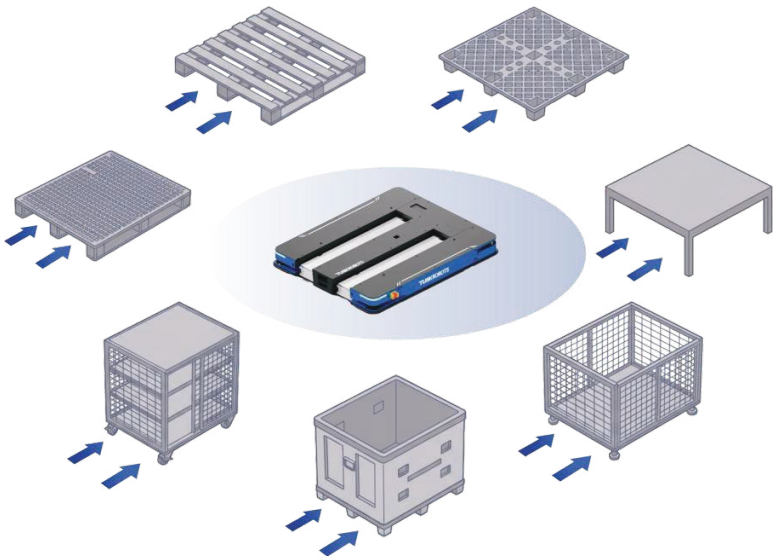
Pallet requirements

Measurement	Requirement
Width W1	**≤190 mm**
Width W2	**700–950 mm**
Pallet length L	**≤1,400 mm**
Pallet opening height H1	**120–130 mm**



Pallet dimensions

Load carrier examples



Which route would you like to automate?

Send us a drawing of your pallet, platform or cart, along with the load weight and pickup and drop-off locations. We'll check the fit and help you plan the route.

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