TUSKROBOTS
EUROPE

LASER SLAM PALLET-HANDLING ROBOT

TUSK **T10**

Built for closed pallets.
To keep your operation moving.

Automate closed-pallet pickup and transport for loads up to 800 kg, with laser SLAM navigation guiding every move between production and storage without floor codes.



800 kg	Laser SLAM	360°
PAYLOAD	NAVIGATION	OBSTACLE DETECTION

www.tuskrobots.eu

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AUTOMATED CLOSED-PALLET TRANSPORT

Take repetitive transport off your team's hands.

Keep your closed pallets moving with automated pickup and transport for loads up to 800 kg. Handle plastic, wooden and GMA pallets with laser SLAM navigation guiding every move.

01 Navigate without floor codes

Laser SLAM uses the surrounding environment to guide the robot along its routes, without relying on DM codes on the floor.

02 Pick up and move up to 800 kg

Automate the pickup and transport of closed pallets with maximum lifting height of 315 mm and a fork extension of 1,250 mm (reach up to 1,270 mm).



03 Keep pallets moving for longer

Operate for at least 8 hours per charge and recharge in 1.5 hours or less. The LFP battery is rated for 2,000 full charge cycles.

04 Position pallets precisely

Laser SLAM provides stopping accuracy of ±10 mm and ±1°. Combined with 360° obstacle detection and a full-body safety strip, it supports precise, protected movement.

CE Certified
MEETS EU SAFETY REQUIREMENTS

VDA 5050 Ready
STANDARDISED FLEET INTEGRATION

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TECHNICAL SPECIFICATIONS

Low profile.
Precise pallet handling.



Designed to pick up and transport closed pallets weighing up to 800 kg, with a low body height of 163 mm and a taller rear section.

GENERAL SPECIFICATIONS

VEHICLE WEIGHT
400 kg

FOOTPRINT (L × W) / BODY HEIGHT
1,520 × 1,108 mm; body height 163 mm

TURNING DIAMETER
2,000 mm

RATED LOAD CAPACITY
800 kg

FORK REACH
1,250 mm; maximum 1,270 mm

OPERATING TEMPERATURE RANGE
0 to +45 °C

NAVIGATION, SAFETY & PERFORMANCE

NAVIGATION TECHNOLOGY
Laser SLAM

STOPPING ACCURACY
±10 mm / ±1°

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

GAP / MAXIMUM SLOPE / STEP CAPABILITY
30 mm / 2.5° / 10 mm

SAFETY LASER COVERAGE
360° obstacle detection

MAXIMUM LIFT HEIGHT
≤315 mm

LITHIUM BATTERY PERFORMANCE

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

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PALLET COMPATIBILITY

Your closed pallets. Ready to move automatically.

Automate transport of closed wooden, plastic and GMA pallets.
Compatibility depends on pallet dimensions and the size of the openings underneath.

Pallet dimensions and clearances

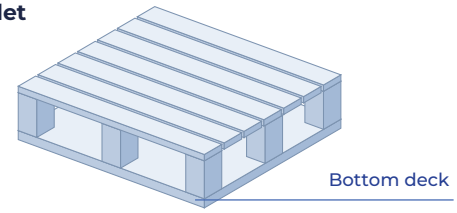
DIMENSION REQUIREMENTS

Measurement	Limit (mm)
Inner opening width (W1)	**≤ 229**
Outer opening width (W2)	**673–900**
Pallet clearance (H1)	**100–130**
Clear opening height (H3)	**≥ 85**
Opening length (L4)	**≥ 230**
Opening centre spacing (L3 + L4)	**450–700**
Pallet length (L)	**≤ 1,250**

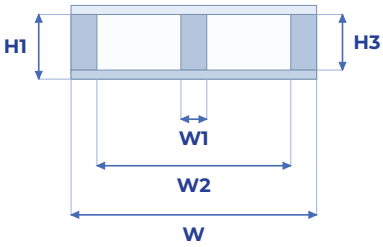
All dimensions in millimetres. Check the complete pallet drawing before deployment.

PALLET GEOMETRY

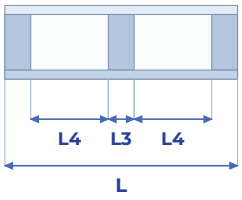
Closed pallet



FRONT VIEW



SIDE VIEW



Schematic, not to scale

FORK-ENTRY CLEARANCE

H3(Height) ≥ 85 mm

L4 (opening length) ≥ 230 mm

Let’s get your pallets moving.

Share your pallet drawings, load weights and transport routes with us.
We’ll check compatibility and help you find the right solution for automated pallet transport.

If you use different pallet types, base the clearance check on the smallest opening and thickest bottom beam
All pallets must meet the clearance and opening requirements. Loads must not overhang the side where the forks enter.

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