TUSKROBOTS
EUROPE

AUTOMATED PALLET-HANDLING FORKLIFT

TUSK **FL10C**

Lift higher.
Reach further.

Move pallets between floor level and raised transfer points. Vertical lift, horizontal reach and lateral shift help position each load for pickup and placement.



1,000 kg	2,500 mm	360°
PAYLOAD BELOW 1,600 MM	MAXIMUM LIFT	LASER COVERAGE

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ELEVATED PALLET TRANSFERS

Move pallets from floor level to raised transfer points.

Handle pallets at different heights with TUSK FL10C.
Extending forks and lateral shift help align each pickup and drop-off, while SLAM and DM-code navigation guide the robot between stations.

01 Lift pallets up to 2,500 mm

Handle loads of up to 1,000 kg at heights below 1,600 mm, and up to 800 kg at heights below 2,500 mm.

02 Reach further for each pickup

Extend the forks up to 1,300 mm to pick up and place pallets while the robot stays in position.

03 Align the forks with precision

Lateral shift moves the forks sideways to line them up with pallets and transfer stations.

04 Detect obstacles. Stop precisely.

360° laser coverage, fork-tip sensors and 3D protection help detect surrounding obstacles. Stopping accuracy is ±20 mm and ±1°.



CE Certified
MEETS EU SAFETY REQUIREMENTS

VDA 5050 Ready
STANDARDISED FLEET INTEGRATION

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TECHNICAL SPECIFICATIONS

Vertical lift.
Horizontal reach.



Lift pallets up to 2,500 mm and reach up to 1,300 mm, with a working aisle width of 1,850 mm.
Load capacity depends on the lifting height.

GENERAL SPECIFICATIONS

VEHICLE WEIGHT
1,700 kg

DIMENSIONS (L × W × H)
1,647 × 1,482 × 2,092 mm

MINIMUM TURNING WIDTH
2,100 mm

RATED LOAD CAPACITY
1,000 kg below 1,600 mm;
800 kg below 2,500 mm

FORK REACH
1,300 mm

OPERATING TEMPERATURE RANGE
0 to +45 °C

NAVIGATION, SAFETY & PERFORMANCE

NAVIGATION TECHNOLOGY
SLAM + DM-code

STOPPING ACCURACY
±20 mm / ±1°

TRAVEL SPEED (UNLOADED / LOADED)
1.2 / 1.0 m/s

GAP / MAXIMUM SLOPE / STEP CAPABILITY
20 mm / 2° (3%) / 10 mm

SAFETY LASER COVERAGE
360° laser coverage

MAXIMUM LIFT HEIGHT
2,500 mm

LITHIUM BATTERY PERFORMANCE

≥6 h	≤1.5 h	2,000
BATTERY RUNTIME	CHARGING TIME	FULL CHARGE CYCLES

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PALLET COMPATIBILITY

Open or closed pallets. One handling solution.

Automate the pickup and placement of compatible open and closed pallets up to 1,200 mm long. Compatibility depends on pallet dimensions, underside openings and bottom construction.

Pallet dimensions and clearances

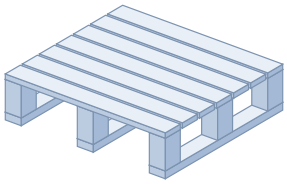
DIMENSION REQUIREMENTS

Measurement	Limit (mm)
Width (W1)	**≤240**
Width (W2)	**600–1,200**
Height (H1)	**≥95**
Closed-pallet clearance (H1 − H2)	**≥80**
Pallet length (L)	**≤1,200**

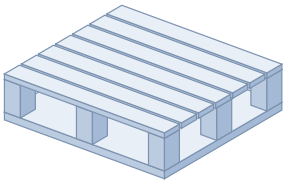
All dimensions in millimetres.

PALLET GEOMETRY

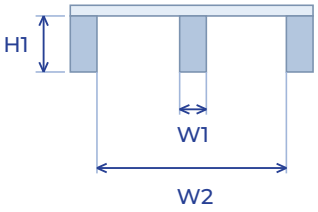
Open pallet



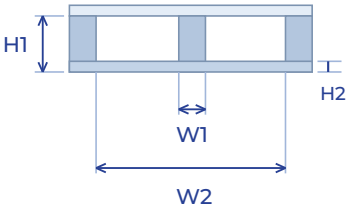
Closed pallet



FRONT VIEW



FRONT VIEW



Schematic, not to scale

PALLET CLEARANCE REQUIREMENTS

Open pallets

H1 ≥ 95 mm

Closed pallets

H1 ≥ 95 mm and H1 − H2 ≥ 80 mm

Let’s get your pallets moving.

Share your pallet drawings, load weights and pickup and drop-off points. We’ll check compatibility and help you find the right solution for your automated pallet transport.

Pallets must meet all dimensional requirements. Pallet lengths above 1,200 mm may cause collisions. Check the complete pallet drawing before deployment.

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