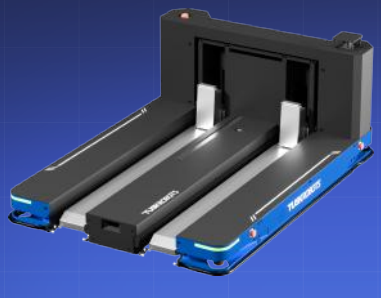
TUSKROBOTS
EUROPE

TUSK T10

SLAM-guided pallet-handling robot



Technical specifications

Basic parameters

Overall dimensions (L × W × H)	**1,520 × 1,108 × 626 mm**
Body height	**163 mm**
Rated lifting weight / self-weight	**800 kg / 400 kg**
Fork dimensions	**1,220 × 162 × 55 mm**
Maximum lift / turning diameter	**≤315 mm / 2,000 mm**
Wireless communication	**2.4 / 5 GHz dual-band; IEEE 802.11a/b/g/n**
Operating temperature	**0-45 °C**

Movement capability

Navigation mode	**Laser SLAM**
Movement mode	**Two-wheel differential**
Speed, unloaded	**0-1.5 m/s**
Speed, fully loaded	**0-1.2 m/s**
Rated acceleration	**1 m/s²**
Stop accuracy	**±10 mm / ±1°**
Maximum clearance	**30 mm**
Maximum slope	**2.5°**
Maximum step	**10 mm**

Safety protection

Obstacle detection	**360° coverage**
Front laser range	**0-3 m**
Mechanical protection	**Emergency stop, reset button and full-body protection strip**
Alarm functions	**Voice and visual alarms**

Lithium battery performance

Battery type	**LFP ($LiFePO_4$)**
Rated voltage / capacity	**51.2 V / ≥28 Ah**
Battery endurance	**≥8 h**
Charging time	**≤1.5 h**
Battery life	**2,000 full charge cycles**

Fork & pallet interface

Fork extension	**1,250 mm; max. 1,270 mm**
Fork spacing (inner / outer)	**289 / 613 mm**
Support-leg width	**Approx. 210 mm**
Support-leg centres	**Adjustable: 470-698 mm**