TUSKROBOTS
EUROPE

TUSK FL10C

Automated pallet handling with extended reach



Technical specifications

Basic parameters

Overall dimensions (L × W × H)	**1,647 × 1,482 × 2,092 mm**
Self-weight	**1,700 kg**
Maximum load by lift height	**1,000 kg below 1,600 mm; 800 kg below 2,500 mm**
Maximum lifting height	**2,500 mm**
Turning width / working aisle width	**2,100 mm / 1,850 mm**
Fork dimensions (L × W × H)	**1,200 × 130 × 35 mm**
Minimum fork height / horizontal reach	**90 mm / 1,300 mm**
Fork spacing (inner / outer)	**300 mm / 560 mm**

Movement capability

Navigation mode	**SLAM + DM code**
Movement mode	**Two-wheel differential; lateral shift**
Travel speed (unloaded / loaded)	**1.2 / 1.0 m/s**
Stop accuracy / acceleration	**±20 mm / ±1°; 1 m/s²**
Lift speed (unloaded / loaded)	**0.3 / 0.2 m/s**
Lowering / extension / retraction speed	**0.2 / 0.5 / 0.5 m/s**
Maximum clearance / step	**20 mm / 10 mm**
Maximum slope	**2° (3%)**

Safety protection

Obstacle detection	**360° laser coverage**
Front laser range	**0-3 m**
Mechanical protection	**Emergency stop, reset button and full-body protection strip**
Alarm functions	**Voice and visual alarms**
Fork tip / 3D protection	**Laser / supported**
Wireless communication	**Dual-band Wi-Fi: 2.4 / 5 GHz**

Battery & environment

Battery type	**LFP ($LiFePO_4$)**
Rated voltage / capacity	**51.2 V / 100 Ah**
Endurance / charging	**≥6 h / ≤1.5 h**
Battery life	**2,000 full charge cycles**
Operating temperature	**0-45 °C**

Pallet compatibility

Compatible pallet types	**Open and closed**
Maximum pallet length	**1,200 mm**
Widths W1 / W2	**≤240 mm / 600-1,200 mm**
Opening height H1	**≥95 mm**
Closed pallet clearance	**H1 – H2 ≥80 mm**