

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 (LiFePO₄)
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 ≥65 mm