

Product model		SFL-CPD15-T
Basic parameters	Product name	Laser SLAM Counterbalanced Autonomous Forklift
	Operation type	Automatic navigation, seated driving
	Navigation type	Laser SLAM
	Pallet type	Open pallet / closed pallet
	Rated load capacity	1500 kg
	Load centre distance	500 mm
	Weight (with battery)	2325 kg
	Standard lifting height	3300 mm
	Forklift dimensions: L x W x H	P+F / FREE: 2520 x 1187 x 2346 / 2520 x 1187 x 2326 mm
	Fork dimensions: L x W x H	950 x 100 x 40 mm
	Fork outer width	215 mm-750 mm
	Right-angle stacking aisle width, pallet 1000x1200 (1200 placed along the fork)	2943+200 mm
	Right-angle stacking aisle width, pallet 800x1200 (1200 placed along the fork)	2911+200 mm
	Right-angle stacking aisle width, pallet 1000x1000 (1000 placed along the fork)	2477+200 mm
	Minimum turning radius	1511+200 mm
	Ambient temperature and humidity range	TEMP: 0°C to 50°C / RH: 10% to 90%, no compression, no condensation
Performance parameters	Driving speed: full load / no load	1.38 / 1.38 m/s
	Passability (slope / step / gap)	<5% / 10 mm / 30 mm
	Navigation position accuracy	±10 mm
	Navigation angle accuracy	±0.5°
Battery parameters	Battery specifications	24 V / 250 Ah (lithium iron phosphate)
	Comprehensive battery life	10 h
	Charging time (10% to 80%)	2.5 h
	Charging method	Manual / Automatic
Function configurations	Lidar number	1 (P+F R2000 / FREE H1) +3 (FREE C2)
	Wi-Fi roaming	•
	3D obstacle avoidance	◦
	Pallet recognition	•
	Cage stack	◦
	High shelf pallet recognition	◦
	Pallet stack	◦
	HMI display	•
Safety configurations	E-stop button	•
	Sound and light indicator	•
	Braking distance: 1 m/s / 1.5 m/s	≤30 cm / ≤50 cm
	360° laser protection	•
	Bumper strip	•
	Fork height protection	•
Certifications	EMC	•
	UN38.3	•