



SFL-CPD20-Y

Laser SLAM Counterbalanced Autonomous Forklift SFL-CPD20-Y

Compact in Size, yet Capable of Carrying 2 T Load



Ultrasonic Detection, Safe Stacking

Ultrasonic technology detects the separation status between goods and forks in real-time, ensuring safe and secure stacking.



Adjust Fork Width for Different Carriers

Manually adjustable fork width ranges from 400 mm to 700 mm, making it suitable for multiple types of carriers. Our forklift can accurately recognize pallets, shelves and cages of different sizes and types.



1180 mm Narrow AMR Width, 2 T High Load Capacity

With the AMR width of only 1180 mm and a minimum turning radius of 1577 mm, our robot boasts a remarkable load capacity of 2 T. Standing at a standard height of 3 m, it can even be customized to 4 m.



40 m Detection Range, 4-layer Safety Protection

The 40 m detection range provides a broader vision and enhanced safety. Equipped with 3D obstacle avoidance laser, safety edge sensor, distance sensor and hardware self-checks, our robot offers you unparalleled 4-layer safety protection.



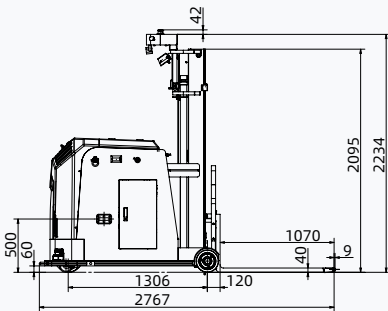
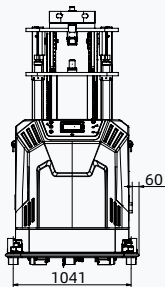
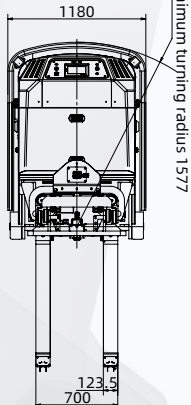
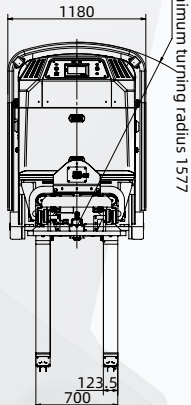
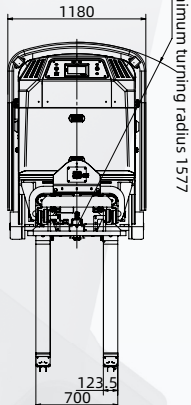
Battery Replacement in 2 Minutes, Fast Charging in 2 Hours

Empower beginners to effortlessly replace the battery in 2 minutes, ensuring worry-free endurance. Equipped with 24 V / 200 Ah battery, it guarantees an impressive 6-hour to 8-hour long endurance. Moreover, the 24 V fast charging station can fully charge the robot in just 2 hours.



Flexible Customization with 4 Options

Supports customization of fork width, robot height, color and logo. Tailor-made to meet the diverse requirements of your unique business scenarios.

● Standard ○ Optional	Product model		
	Operation type	Automatic navigation, by manual control device	
Basic parameters	Navigation type	Laser SLAM	
	Pallet type	Open pallet / closed pallet	
	Rated load capacity	2000 kg	
	Load center distance	500 mm	
	Weight (with battery)	3130 kg	
	Standard lifting height	3000 mm	
	Forklift dimensions: L x W x H	2767 x 1180 x 2235 mm	
	Fork dimensions: L x W x H	1070 x 122 x 40 mm	
	Fork outer width	400 mm to 700 mm	
	Right-angle stacking aisle width, pallet 1000x1200 (1200 placed	2850+200 mm	
	Right-angle stacking aisle width, pallet 800x1200 (1200 placed	2957+300 mm	
	Right-angle stacking aisle width, pallet 1000x1000 (1000 placed	2805+300 mm	
Performance parameters	Minimum turning radius	1577 mm	
	Ambient temperature and humidity range	TEMP: 0°C to 50°C / RH: 10% to 90%, no compression, no condensation	
	Driving speed: full load / no load	1.5 m/s	
	Passability (slope / step / gap)	< 5% / 10 mm / 30 mm	
Battery parameters	Navigation position accuracy	±10 mm	
	Navigation angle accuracy	±1°	
	Battery specifications	24 V / 200 Ah (lithium iron phosphate)	
	Comprehensive battery life	6 to 8 h	
Function configurations	Charging time (10% to 80%)	2 h	
	Charging method	Manual / Automatic	
	Lidar number	1 (FREE H1 / P+F R2000) +3 (FREE C2)	
	Wi-Fi roaming	●	
Safety configurations	3D obstacle avoidance	○	
	Pallet recognition	●	
	Cage stack	○	
	High shelf pallet recognition	○	
	Pallet stack	○	
	HMI display	●	
	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	●	
	Global series	Yes	
	Product series	SEER Counterbalance Truck	



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