



Build your own robot fleet within days.

META



INSIDE



# 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.

<ul style="list-style-type: none"> <li>● Standard</li> <li>○ Optional</li> </ul>	Product model	
Basic parameters	Operation type	Automatic navigation, by manual control device
	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 1000×1200 (1200 placed)	2850+200 mm
	Right-angle stacking aisle width, pallet 800×1200 (1200 placed)	2957+300 mm
	Right-angle stacking aisle width, pallet 1000×1000 (1000 placed)	2805+300 mm
	Minimum turning radius	1577 mm
Performance parameters	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
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
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		●
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

