SEER ROBOTICS

Build your own robot fleet within days.





SEER Omnidirectional Stack 1000

SOS-1000

360° Omnidirectional Mobility to Navigate Narrow Aisles

1 T Load Capacity, Agile Maneuvering in Narrow Aisles

Equipped with 360° omnidirectional steering, the forklift enables lateral movement in 1.8 m narrow aisles and agile turning in 1.9 m confined spaces, greatly improving maneuverability.

Space-saving, Efficiency Enhancement

It maximizes space utilization in confined areas, boosting warehouse storage density and operational efficiency.

High Precision, Multi-directional Obstacle Avoidance

Equipped with 3D navigation LiDAR, distance sensors, and hardware self-diagnostics for comprehensive safety protection. Optional front-mounted 3D cameras enable pothole detection and ultra-small obstacle recognition, ensuring safe forward movement. A front contact bumper strip provides immediate stop upon impact, ensuring worry-free safety.

Flexible Routing, Omnidirectional Lateral Movement

Supports flexible path planning with a variety of motion types, such as diagonal trajectories, arcs, lateral movements, detours, and advanced cubic Bézier curve paths.

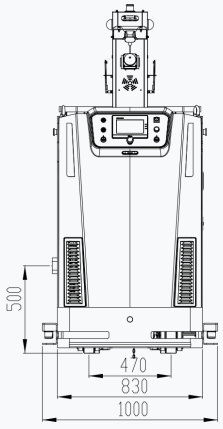
Customizable Options, Multiple Selections Available

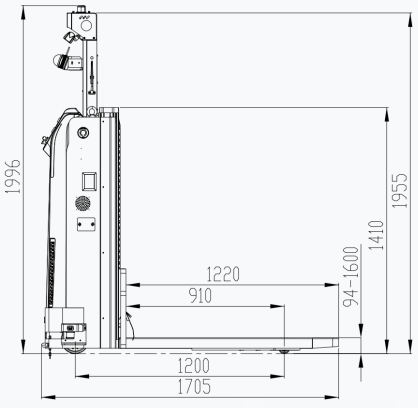
Supports customization of fork width, robot height, color and logo. Tailored to meet the diverse requirements of your unique business scenarios.

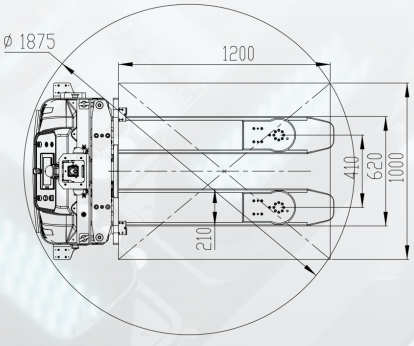
● Standard ○ Optional



	Product model	SOS-1000
Basic parameters	Operation type	Automatic navigation
	Navigation type	Laser SLAM
	Pallet type	Open pallet
	Rated load capacity	1000 kg (2204.62 lb)
	Load center distance	600 mm (23.62 in)
	Weight (with battery)	800 kg (1763.70 lb)
	Standard lifting height	1600 mm (62.99 in)
	Forklift dimensions: L x W x H	1705 x 1000 x 1995 mm (67.17 × 39.37 × 78.54 in)
	Fork dimensions: L x W x H	1220 x 210 x 60 mm (48.03 × 8.27 × 2.36 in)
	Fork outer width	620 / 680 mm (24.4 / 26.77 in)
	Right-angle stacking aisle width, pallet 1000×1200 (1200 placed along the fork)	1994+200 mm (78.50+7.87 in)
	Right-angle stacking aisle width, pallet 800×1200 (1200 placed along the fork)	1910+200 mm (75.20+7.87 in)
	Right-angle stacking aisle width, pallet 1000×1000 (1000 placed along the fork)	1924+200 mm (75.75+7.87 in)
	Minimum turning radius	1415 mm (55.71 in)
	Ambient temperature and humidity range	TEMP: 0℃ to 50℃ / RH: 10% to 90%, no compression, no condensation (TEMP: 32℉ to 122℉ / RH: 10% to 90%, no compression, no condensation)
Performance parameters	Driving speed: full load / no load	1.0 / 1.5 m/s (3.28 /4.92 ft/s)
	Passability (slope / step / gap) [1]	< 5% / 10 mm / 30 mm (< 5% / 0.39 in / 1.18 in)
	Navigation position accuracy [2]	±10 mm (±0.39 in)
	Navigation angle accuracy [2]	±1°
Battery parameters	Battery specifications	48 V / 106 Ah (lithium iron phosphate)
	Comprehensive battery life	10 h to 12 h
	Charging time (10% to 80%)	1 h
	Charging method	Manual / Automatic
Function configurations	Lidar number	1 (FREE H1 / P+F R2000) +3 (FREE C2)
	Wi-Fi roaming	●
	3D obstacle avoidance [3]	○
	Pallet recognition [3]	●
	Cage stack [3]	○
	High shelf pallet recognition [3]	○
	Pallet stack [5]	○
	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	ISO 3691-4	-
	EMC	-
	UN38.3	-
	RED	-
	Global series	Yes
	Product series	SEER Stack Truck







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