Laser SLAM Autonomous Pallet Truck

MOVE-IT-4K

Transformers, fearless of pallet types

Load type

Parameter Specification   ● Standard   ○ Optional

Basic parameters

Product name	Laser SLAM Autonomous Pallet
Powering method	Truck
Operation type	Electric
Navigation type	Automatic navigation, by manual control device
Pallet type	Laser SLAM
Rated load capacity	Open pallet / Closed pallet
Load center distance	2000 kg
Weight (with battery)	600 mm
Standard lifting height	560 kg
Fork surface ground clearance	200 mm
(at the lowest position)	110±5 mm
Navigation laser scanning height	
Forklift dimensions: L x W x H	2000 mm
Fork dimensions: L x W x H	2004 x 983 x 2035 mm
Fork outer width	1220 x 180 x 55 mm
Right-angle stacking aisle width,	550 / 600 / 680 mm
pallet 1000×1000	2253+200 mm
(1000 placed along the fork)	
Minimum turning radius	
Ambient temperature	1619 mm
and humidity range	TEMP: 0℃ to 50℃ / RH: 10% to 90%,
IP rating	no compression, no condensation
	IP20

Performance parameters

Driving speed: full load / no load	1.2 / 1.4 m/s
Passability (slope / step / gap)	< 5% / 10 mm / 30 mm
Navigation position accuracy	±10 mm
Navigation angle accuracy	±1°

Battery parameters

Battery specifications	24V/210 Ah
Comprehensive battery life	(lithium iron
Charging time (10% to 80%)	phosphate)
Charging method	2 h
	Manual / Automatic

Function configurations

Lidar number	1 (FREE H1 / P+F R2000-25M) +2 (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
Fork height protection	●

Certifications

EMC	●
UN38.3	●

Dimension ⟨mm⟩

Compatible with Closed Pallets for Superior Versatility

Compatible with both closed and open pallets, unfazed by pallet types, offering flexible and seamless material handling solutions. Proficient in climbing slopes, overcoming obstacles, navigating elevators, mastering every task.

AI Deep Learning, Improved Recognition Ability

It boasts the capability to recognize pallets and racks in different colors and sizes with unparalleled precision and adaptability from multiple angles. Experience seamless and stable handling and transfer of goods.

360° Field of View, Comprehensive Safety Protection

Supports a maximum scanning range of 360°; equipped with 3D safety obstacle avoidance lasers, distance sensors, hardware self-checks, and other multiple safety protections.

4 Navigation Options, Accuracy up to ±10 mm

Harnessing the power of SLAM, QR cpde, reflector, and NFL navigation modes, offering a remarkable ±10 mm positioning accuracy, it effortlessly caters to diverse business navigation needs, including secondary positioning, high dynamic environments, and non-modified environments.

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.