

Autonomous Forklift-R500F-L

LiDAR SLAM Navigation + 500KG Payload



Specification	
Basic parameters	
Name	Autonomous Forklift-R500F-L
Self-weight	210 Kg (including battery)
AMR Rated Payload	500 Kg
Load center distance	600 mm
wheel base	842 mm
Minimum turning radius	1035 mm
Dimensions (L x W x H)	1585 x 885 x 1836 mm
Fork Dimensions (L x W x H)	186 x 60 x 1154 mm
Fork highest ascent height	174 mm
Fork lowest descent height	104 mm
Fork width (outside)	570 mm
Minimum ground clearance	40 mm
Cable network	RJ45 interface x 1
Wireless network	Built-in MoxaAWK-1137C
Performance Parameters	
Climbing ability (slope)	≤5%
Pass ability (Step/Gap)	≤10 mm/ ≤30 mm
positioning accuracy	±10 mm, ±1.0°
Navigation speed	≤0.9 m/s
Map area (single frame)	≤200000 m ²
Battery Parameters	
Battery specifications	DC48V / 35Ah (Lithium iron phosphate)
Endurance	≥ 8 hr.
Charging time (10-80 %)	2 hr.
Charging mode	Manual/Automatic charging (With the automatic charging pile)
Number of battery charge and discharge cycles	> 500
Function configurations	
Basic function	✓
Wi-Fi roaming	✓
Automatic charging	OPTIONAL
Laser reflector panel navigation	✓
Shelf recognition	OPTIONAL
3D obstacle avoidance	OPTIONAL
Safety configurations	
Number of navigation lasers	1 (SICK nanoScan3/Pepper + Fuchs R2000-HD)
Number of obstacle avoidance lasers	1 (Hinson CNS-LS051)
Safety rim	✓
Fork tip photoelectric protection	✓
Pallet arrived feedback	✓
E-stop button	✓
Buzzer	✓
Boot indicator light	✓
Speaker	✓
Light strip	✓
Ambient	
Range of ambient temperature and humidity	Temperature: 0~50°C Humidity: 10~90% No compression condensation
IP rating	IP20