

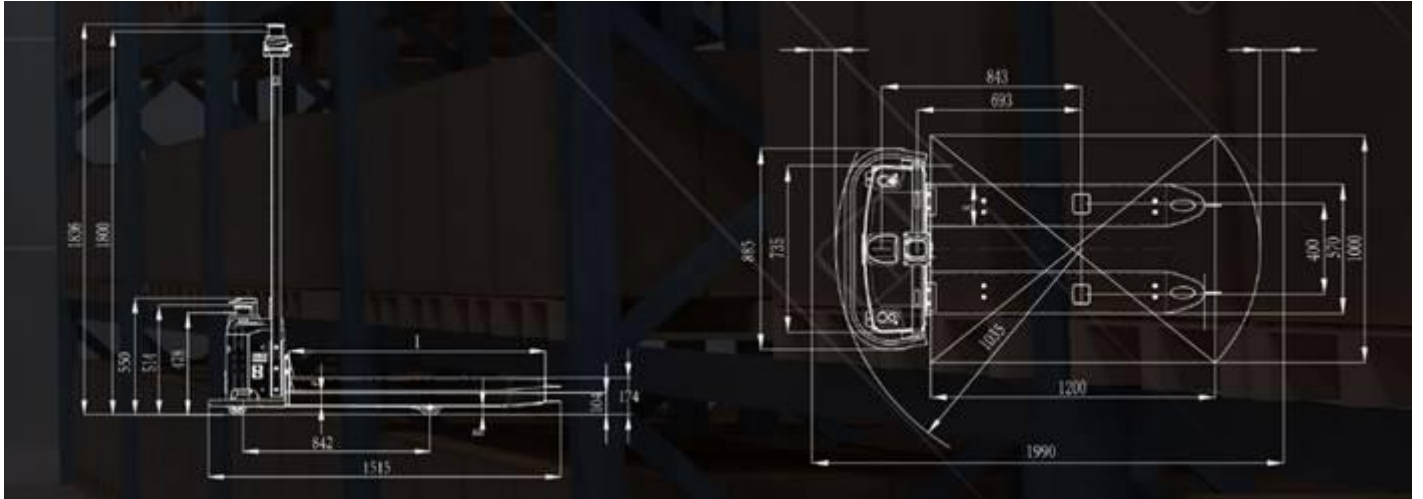


Mobile Pallet Truck WMF500

LiDAR Navigation + 3D obstacle avoidance camera + 500kg Load



Dimensional



Specification

Basic parameters	Model	WMF500
	Driving form	Differential / wheel
	L * w * h	1585mm*885mm*1836m m
	Weight (including battery)	210kg
	Load center distance	600mm
	Wheel base	842mm
	Minimum turning radius	1035mm
	Fork size (W / T / L)	186mm*60mm*1154mm
	Fork lifting height	174mm



	Fork lowering minimum height	104mm
	Fork width (outside)	570mm
	Minimum ground clearance	40mm
	Body color	Blue + Black
	Wired network	RJ45 interface * 1
	wireless network	Built in moxa awk-1137c
Battery	capacity	48V 35Ah
	Endurance	≥ 8h
	Charging time	0-80% : 2h
	Charging mode	Manual / automatic (with automatic charging pile)
	Cycle times of battery charging and discharging	> 500 times
security	Number of navigation lasers	1 (sick nano scan 3 / P&F R2000-HD)
	Number of obstacle avoidance lasers	1 (Hinson CNS-LS05I)
	Safety touch	√
	Photoelectric protection of fork tip	√



	Feedback of pallet in place	√
operation	Emergency stop button	√
	Buzzer	√
	Power on indicator	√
	speaker	√
	Light belt	√
performance	Maximum load	500kg
	Gradeability (Note 1)	Slope < 5%
	Trafficability	Step < 0.5cm, gap < 1cm
	Positioning accuracy (Note 2)	± 10mm , ± 1.0°
	Navigation speed	≤ 0.9m/s
	Map area (each)	≤ 200000m ²
function	Basic functions (Note 3)	√
	WiFi roaming function	√
	Automatic charging function (Note 4)	○
	Laser reflector navigation function	√
	Pallet identification function (Note 5)	○
	3D obstacle avoidance	○



	function (Note 6)	
Environmental Science	Ambient temperature and humidity range	0°C ~ 50 °C (humidity 10-90%, no compression condensation)
	IP class (Note 7)	IP20

Legend:	
√	Support
X	I won't support it
0	Optional

Notes:

1. The road surface shall be flat, clean and free from obvious undulation. Slope 5% = arctan (0.05) \approx 2.8 °.The robot shall not stop or turn at the ramp, step or gap, and can only pass through the ramp, step or gap perpendicular to the ramp, step or gap quickly



2. The positioning accuracy is affected by environment, ground, etc. Please refer to the interpretation of positioning accuracy in the final technical agreement
3. Basic functions include but are not limited to map editing, model editing, positioning module, navigation module and API interface
4. It needs to be used with a special automatic charging pile
5. Special camera is required to realize this function
6. 3D camera is required to realize this function
7. WMF500 is only designed for indoor transportation, not recommended for outdoor environment



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