ROBOT Outsourcing Provider Co., Ltd.

Towing Moving Robot R3000TW-CB

LiDAR SLAM Navigation + 3000kg Load

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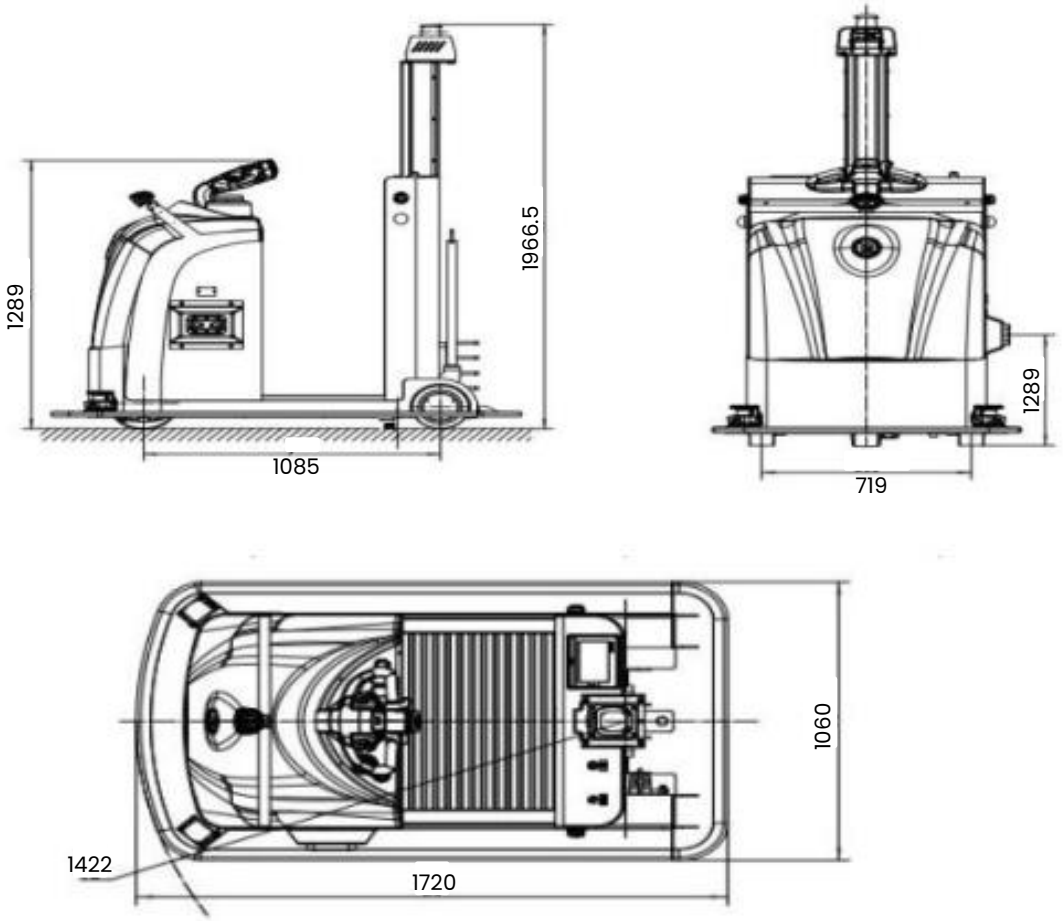
Dimension



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Specification	
Basic parameters	
Product model	Towing Moving Robot R3000TW-CB
Powering method	Electric
Driving method	AGV
Dimension (L x W x H)	1720 x 1060 x 1966.5 mm
Wheelbases	1085 mm
Payload	3000 Kg
Total Height	1966.5 mm
Height of Operating Handle in Driving Position	1289 mm
Ground Clearance of Charging Brush Plate	1289 mm
Total Length	1720 mm
Total Width	1060 mm
Minimum Ground Clearance of Vehicle Body	55 mm
Minimum Turning Radius	1422 mm
Wheel parameters	
Tire Type	Polyurethane
Tire Size for Driving Wheel Φ×W	Φ230×75 mm
Tire size for load-bearing Wheel Φ×W	Φ210×85 mm
Driving Side (× =Driving Wheel) / Load-bearing Side	1x-2
Track Width, Load-bearing Side	719 mm
Performance Parameters	
Driving speed (load/ unload)	5/6 km/h
Rated Tractive Force	600 N
Maximum Tractive Force Fmax	2400 N
Maximum Climbing Ability (Loaded/Unloaded)	5/8 %
Braking Mode	2.2 kw
Electronic Parameters	
Steering Motor Power	0.4 kw
Battery Type	LiFePO4
Battery Voltage / Rated Capacity	DC24V / 210Ah
Battery Weight	58 kg
Others	
Noise Level at Driver's Ears db	≤70 A

[1] Designed for indoor transport, not recommended for outdoor environments

[2] Road surface is smooth, clean and without significant undulations. Slope5%= arctan (0.05) ≈ 2.8°. The robot may not stop or turn at ramps, steps, or gaps, but may only pass quickly perpendicular to them.

[3] Navigation accuracy usually refers to the repeated accuracy of the robot navigation to the target site. When the environment scanned by the robot LiDARis relatively stable (change rate <30%), the repeated accuracy of the robot navigation from the fixed direction to the target site can reach the expected value. When the robot runs along the virtual path, it will try to fit the path, but it does not guarantee repeatability. That is, the robot can guarantee the accuracy of the point, without guaranteeing the accuracy of the navigation path. The minimum site spacing supported by the robot is 1cm.

[4] The basic functions include map editing, model editing, positioning and navigation, basic motion model (differential), API interface, etc.