

TITAN

300KG payload Mobile Robot

The front and rear Ackerman steering configurations used on the Titan wheeled robot chassis from AgileX Robotics enhance the vehicle's manoeuvrability. As a result of the Titan's adaptive front swing arms and rear shock absorbers, the ground load is effectively increased, and performance in the areas of stability, driving, and cornering is improved. On difficult driving surfaces, including wet, slick, loose, uneven, and steep hills, it offers improved stability and smooth acceleration. Both sides of the Titan's battery compartment are portable and open, making it simple to remove and replace the battery and enabling quick-charging hot swapping. The Titan vehicle-grade robot chassis may perform a variety of activities in a number of different industries, including industrial automation, logistics and distribution, environmental monitoring, and scientific research. It offers users reliable, dependable, and safe services.



Features



Payload capacity: 300kg



Quick-charging with hot-swappable batteries



Climbing ability: 10°



Electromagnetic brake for parking



Overcoming obstacles: 120mm



Front and rear Ackerman steering

Specifications

Type	Project	Indicator
Mechanical Parameters	Dimensions (mm)	1550X980X710
	Wheelbase(mm)	860
	Front/Rear Wheel Track(mm)	854
	Weight(Kg)	280kg
	Battery Type	One Lithium Battery 48V 24Ah (Supports 2 batteries)
	Power Drive Motor	Permanent Magnet Synchronous DC Motor 2*1000W
	Steering Drive Motor	DC Servo Motor 2*400W
	Drive Gearbox	1: 23
	Steering Gearbox	1: 40
	Parking Method	DC Electromagnetic Brake
	Steering	Front/Rear Wheel Ackermann
	Encoder	Incremental Magnetic Encoder 1024
	Max Inner Wheel Steering Angle	21°
Performance Parameters	Max Speed (Empty)(m/s)	3
	Mini Turning Radius(m)	1.9
	Max Climbing Ability	10°
	Mini Ground Clearance (mm)	160
	Operating Temperature	-10~45C°
	Max Obstacle Clearance Height	120mm
	Payload	300kg
Control Parameters	Control Mode	Remote Control
	Remote Control	2.4G / Max Distance 100m
	Communication Interface	CAN

