

PRODUCT BROCHURE

CATALOGUE

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Proportion of R&D personnel

40%

Was established in

2019

COMPANY PROFILE

CORE BUSINESS

The company focuses on the fields of agriculture, industry, and education, specializing in wheeled/tracked intelligent chassis. Its products are widely used in agricultural operations, scientific research and teaching, and industrial automation scenarios.

FUTURE VISION

In the future, the company is committed to promoting the upgrading of agricultural intelligence, building a robot technology platform that deeply integrates industry, academia, and research, and aims to become a leading global provider of intelligent chassis solutions.

DEVELOPMENT HISTORY

Tai'an Shuobao Intelligent Technology Co., Ltd. was established in 2019 and is a high-tech enterprise dedicated to the research and production of intelligent unmanned vehicle chassis.

RESEARCH TEAM

We currently have a team of over 10 people, with R&D personnel accounting for over 40%. We possess more than ten core technology patents and have established partnerships with dozens of universities, research institutions, and agricultural bases in China.

COOPERATIVE PARTNER



山东农业大学



南昌陆军步兵学院



上海交通大学



北京理工大学



中建四局



中铁十三局



同济大学



中国农业大学



航天二院



航天三院



山东理工大学

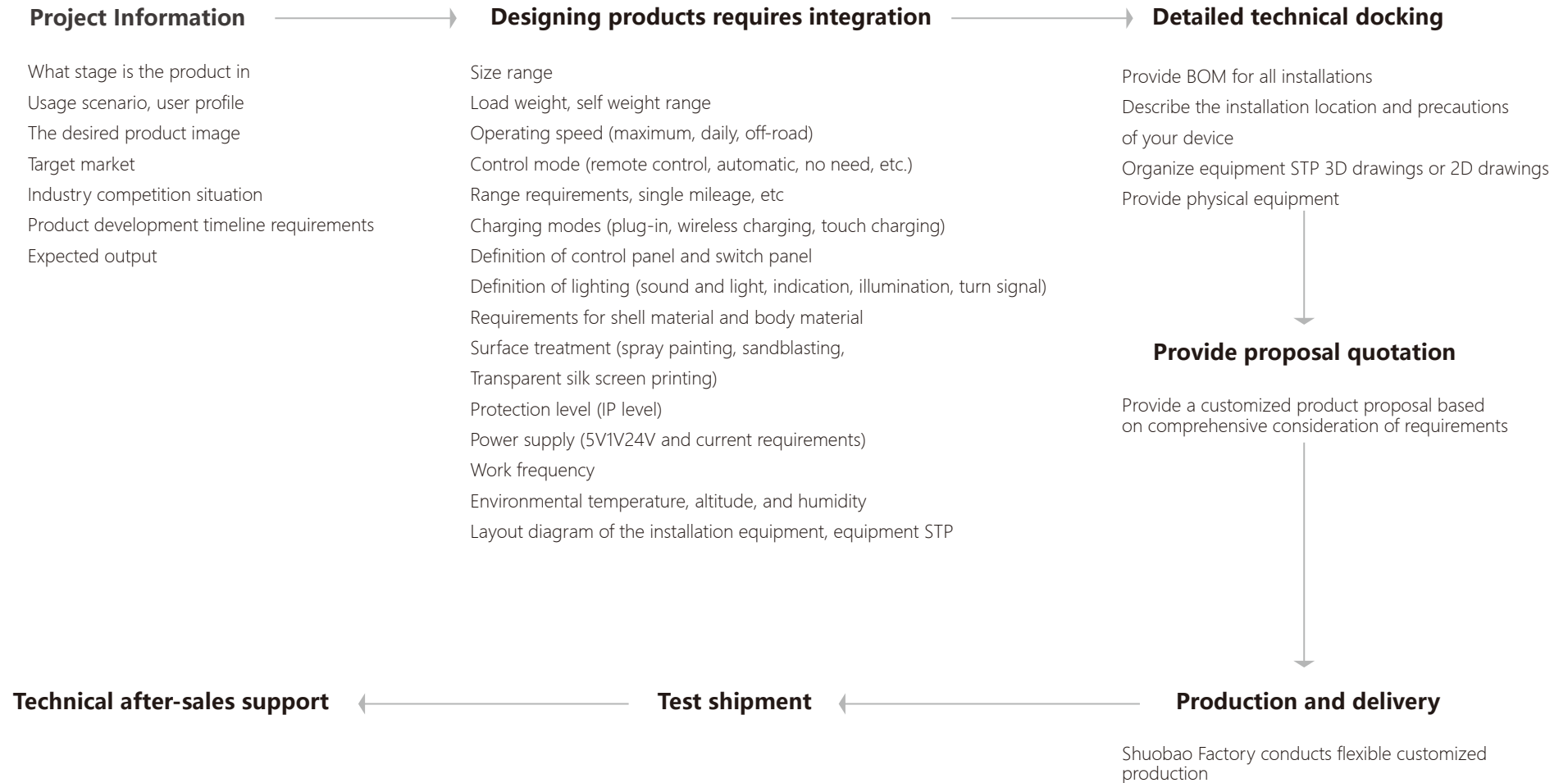


国家农业智能装备
工程技术研究院

PATENT CERTIFICATE



SERVICE PROCESS



01 / AGRICULTURAL SERIES

Tyrannosaurus Type 01A-D



Product Introduction

The Tyrannosaurus Type 01A-D tracked chassis product is a rubber tracked chassis product with superior powerperformance,



Can be used to install robotic arms and inspection modules, suitable for agricultural environments such as greenhouses and farmland



Technical Parameters

External dimensions	Design according to the requirements of Party A
Ground clearance	<10cm
Climbing angle	35° (No load)
Weight	130Kg
Maximum payload	100Kg(Horizontal road surface)
Tire	Rubber material

Speed	0-5km/h
Range	About 2 hours
Working temperature	-15~50°C
Servo motor	800Wx2
Reducer	Precision planetary deceleration
Motor voltage	Lithium battery (high discharge current) 48V40AH



Multi expansion track chassis



Product Introduction

The multi expansion track chassis is made of carbon steel material, with a ground clearance of 192mm, a climbing angle of $>30^\circ$, a load capacity of 300Kg, and is suitable for multifunctional modules such as spraying, weeding, and transportation. Remote control/CAN control (300 meters), 1200W dual motor drive, with a range of about 4 hours, sturdy and durable structure, easy operation, suitable for complex terrain agricultural operations.



Technical Parameters

External dimensions	1500*1027*429mm	Rated speed	3.6km/h (speed closed-loop control)
Ground clearance	192mm	Material	Carbon steel
Climbing angle	$\geq 30^\circ$	Normal battery life	Depending on usage, it will take about 4 hours without load
Dead weight	About 280kg	Electrical machinery	Brushless 1200W * 2
Maximum payload	Rated 300Kg	Braking method	Motor braking
Reducer	Planet (high transmission efficiency)	Electrical machinery	48v
Control mode	Remote control; Equipped with a CAN port Optional video feedback; Autonomous driving	Battery	48v45ah lead-acid acid

Orchard lawn mower



Product Introduction

1-meter wide lawn mowing with dual row feeding and dual engine power for climbing and obstacle crossing; 210mm high ground protection for fruit trees, 200 meter remote control for precise obstacle avoidance, all-around king for clearing grass in orchards!



Technical Parameters

External dimensions	2040*1120*810mm	Rated speed	3.6km/h (speed closed-loop control)
Ground clearance	210mm	Material	Carbon steel
Climbing angle	30°	Generator	48v2kw
Weight	About 300Kg	Walking motor	Brushless 1.2kw * 2
Battery capacity	Lithium battery 48v45ah	Weeding scope	1m
Control mode	Remote control with video feedback, can be equipped with autonomous driving	Braking method	Motor braking
Gasoline engine power	9.2KW/approximately 12.5 horsepower	Mowing efficiency	5.4 acres per hour

Tyrannosaurus 03B-M tracked chassis

Product Introduction

The "Tyrannosaurus 03B-M" tracked chassis is suitable for industrial, agricultural and other scenarios, with a maximum load capacity of 300kg and a climbing angle of >30°. Inorganic 1200W * 2 motor+48V voltage, strong power; Rubber steel core tire+155mm ground clearance, strong off-road capability in complex terrains. Support CAM interface control and customized modification, flexibly meeting diverse needs.



Technical Parameters

External dimensions	1665*1020*400mm	Rated speed	5/h (speed closed-loop control)
Ground clearance	155mm	Material	Carbon steel
Climbing angle	≥30°	Normal battery life	Depending on battery capacity
Dead weight	About 240Kg	Electrical machinery	Brushless 1200W * 2
Maximum payload	300Kg	Braking method	Motor braking
Tire	Rubber track (including steel core)	Motor voltage	48v
Control mode	Remote control/CAN/serial port (remote control is about 300 meters)	Battery	Optional

Tyrannosaurus 03B-M-tracked transport vehicle

Technical Parameters



External dimensions	Based on the design
Normal battery life	About 4 hours
Motor voltage	48v
Weight	350Kg
Platform load capacity	100Kg
Battery	48v50ah ternary lithium
Electrical machinery	Brushless 1200W * 2
Elevating height	1000mm

Tyrannosaurus rex 03B-M-agricultural lift truck

Technical Parameters



External dimensions	1680*1027*770mm
Normal battery life	About 4 hours
Motor voltage	48v
Weight	350Kg
Platform load capacity	100Kg
Battery	48v50ah ternary lithium
Electrical machinery	Brushless 1200W * 2
Elevating height	1000mm

Ant Cube Modular Robot

Product Introduction

The modular design of this product enables one machine to be used for multiple purposes, with quick switching to achieve functions such as dispensing, transportation, and traction;



Technical Parameters

External dimensions	2100*1300*860	Rated speed	5km/h (speed closed-loop control)
Ground clearance	≥200mm	Material	Carbon steel
Climbing angle	≥30°	Normal battery life	Continuous work for about 5 hours
Dead weight	> 400KG	Generator	Extended range gasoline engine
Medicine box capacity	350L	Braking method	Motor braking
Track	Rubber track (including steel core)	Electrical machinery	Brushless motor 3KW × 2
Control mode	Remote control/CAN	Battery	Lead acid battery 72V45AH

Transportation module: large capacity design, quick disassembly of side panels, carbon steel material, sturdy and durable;
Parameters: Equipped with transportation module, capable of loading 1.04 cubic meters, maximum load capacity of 400kg

Medication module: Dual motor high-voltage brushless, independent control of left and right spray bars, good atomization effect, saving medication and not damaging young fruits;Parameters: Equipped with a spraying module with a battery life of up to 5 hours, equipped with a 350L large medicine box and high-pressure atomization system, capable of covering up to 7 metersApply evenly and reduce fruit damage. Support remote control and autonomous driving, low fuel level alarm.

Walking module: Oil electric hybrid power, long range, strong power, strong off-road passability, with mechanical and electrical interfaces, quickly connects with other modules in our company;



Four wheel drive and four-wheel drive Qinghe 03A

Product Introduction

This smart agricultural vehicle has a four-wheel drive and four-wheel drive chassis, supporting stationary steering, lateral movement, diagonal movement, and dual Ackermann mode; High ground clearance, cross crop operation, can be mounted for spraying and weeding Modules such as robotic arms are used for algorithm validation and optimization.



Technical Parameters

External dimensions	Adjust according to the design	Rated speed	3.6km/h (speed closed-loop control)
Ground clearance	0.75 meters	Material	Carbon steel
Climbing angle	Not less than 20 °	Normal battery life	Continuous work for about 4 hours
Dead weight	About 200kg	Walking motor	Servo motor 1kw * 4
Control mode	Remote control/Bus interface (remote control approximately 300 meters)	Steering motor	Servo motor 400w * 4
Braking method	Motor braking	Motor voltage	Lithium battery 48v100ah
Tire	Solid tire with herringbone pattern	Voltage Output	Reserve 12v 24V output

Vegetable crop protection robot

Product Introduction

830mm proud vegetable bed, four-wheel drive servo precise furrow walking; Fiberglass corrosion-resistant armor; modular equipped with weeding and pesticide spraying robotic arms, and versatile hands for greenhouse crop protection.



Technical Parameters

External dimensions	1650*1120*1150	Rated speed	3.6km/h(Speed closed-loop control)
Ground clearance	830mm	Material	Carbon steel
Climbing angle	20%	Normal battery life	Continuous work for about 2 hours
Weight	About 200kg	Walking motor	Servo motor 1kw * 4
Battery capacity	Lithium battery 48v60ah	Steering motor	Servo motor 400w * 4
Control mode	Remote control	Braking method	Motor braking

Qinghe 02A Light

Product Introduction

The Qinghe 02A model is a high ground clearance (1100mm) and lightweight (140kg) field operation robot, equipped with a 48V40Ah lithium battery with a range of ≥ 4h and supporting modular expansion(Monitoring/spraying/weeding), differential steering to adapt to narrow terrain, spring shock absorption to cope with 4cm road undulations, suitable for smart agriculture and efficient management of complex environments.



Technical Parameters

External dimensions	1830×1620x1600	Speed	0~4km/h
Ground clearance	1336mm	Battery specifications	Lithium battery 48V40AH
Climbing angle	30 ° (unloaded)	Range	≥4h
Weight	About 200kg	Servo motor	1000Wx2
Maximum payload	100kg (horizontal road surface)	Working temperature	-15~55°C
Tire	Rubber material	Other	Spring shock absorption and road adaptation (4cm road undulations)

Qinghe 02A Lightweight -

Front Differential and Rear Universal Medicine Dispenser



Qinghe02A-D



Technical Parameters

External dimensions	1520×1670x1390mm	Speed	0-3.6km/h
Ground clearance	1100mm	Battery specifications	48V50AH
Climbing angle	20°	Endurance	≥4h
Weight	About150Kg	Servo motor	1000Wx2
Maximum payload	100Kg	Operation temperature	-15~55°C
Tire	Solid tire	Other	Spring damping and balance bridge (4cm road surface undulations)

Smart tractor



Product Introduction

Smart tractors are designed specifically for fields and orchards, integrating autonomous driving/cross traffic operations, remote control/CAN control (300 meters). Four wheel drive and four-wheel drive+dual Ackermann mode, suitable for complex terrain;1360mm ground clearance+20 ° climbing. 48V200Ah lithium battery+photovoltaic, with a range of 4 hours; 2.5kW servo motor, modular hanging pesticide/weed control equipment, self-developed main control can be customized, Efficient and flexible.



Technical Parameters

External dimensions	2700*2500*2100	Rated speed	2.5km/h (speed closed-loop control)
Ground clearance	1360mm	Material	Carbon steel
Climbing angle	Not less than 20 °	Normal battery life	Continuous work for about 4 hours
Dead weight	About 2000Kg	Walking motor	Servo motor 2.5kw*4
Motor voltage	Lithium battery 48v200ah	Steering motor	Servo motor 1000w * 4
Control mode	Remote control/CAN serial port (remote control is about 300 meters)	Braking method	Motor braking

High altitude four-wheel drive and four-wheel rotation agricultural robot



Product Introduction

High altitude four-wheel drive four wheel drive agricultural robot, with adjustable wheelbase of 1610-2010mm, equipped with 48V200AH battery+2000W gasoline generator, 300L water tank, and servo motor for precise walking and steering. It can be equipped with modules for weeding, spraying, sowing, etc. to achieve multifunctional operations.



Technical Parameters

External dimensions	2350 (including spray bar 3130) × 2480-2068 (including handwheel 2840-2428 with adjustable width) × 2025mm		
Ground clearance	1014mm	Speed	0-3.6km/h
Climbing angle	15°(No load)	Battery specifications	Lithium Iron Phosphate48V200AH
Water tank capacity	300L	Gasoline generator	2000w
Walking motor	Servo motor2.4kw	Steering motor	Servo motor1.8kWx4
Tire	Rubber material	Operation temperature	-10~50°C
Module installation	Precise spraying, mechanical weeding and pneumatic sowing		
		Track width	1610-2010

Qinghe 01 type

Product Introduction

The Qinghe 01 four-wheel independent drive chassis is lightweight, runs smoothly, and has reasonable space, making it easy to arrange other equipment. The structure is shown in the figure, with a battery and a driving motor inside the framework, Steering motor, main control, flat top and bottom of the frame, reserved GPS antenna installation holes, and mechanical arm installation holes.



Technical Parameters

External dimensions	About 800x800x800mm	Speed	0-4km/h
Ground clearance	≥ 0.5 meters	Full speed endurance	≥ 3h
Climbing angle	≤ 30° (No load)	Normal battery life	≥ 5h
Weight	50Kg	Brushless Motor	500Wx4
Maximum payload	50Kg (Horizontal road surface)	Motor voltage	Lithium battery (high discharge current) 48V40AH
Material	Mainly carbon steel	Operation temperature	-15~40°C
Tire	16x8-7 inch vacuum tire		

lawn mower

Product Introduction

The cutterhead is adaptively adjustable with five levels of precision, ranging from 20-120mm, intelligently matching grass height and terrain undulations, protecting the blade while achieving ground trimming.

Four wheel drive power+15 ° climbing ability, easily handling steep slopes and ravines; 8cm obstacle height, accessible in complex courtyards.



Technical Parameters

External dimensions	1250×1200×700mm	Speed	0-3.6km/h (speed closed-loop control)
Ground clearance	133mm Adjustable chassis height	Engine	Net power of 9.2KW/3600rpm Net torque 27Nm/2600rpm
Climbing angle	5° (No load)	Endurance	≥ 4h
Dead weight	350Kg	Servo motor	Power 800W, rated speed 1500rpm rated torque 5.2NM
Reducer	Speed ratio 20	Operation temperature	-15~55°C
Track	Steel core rubber material	Other	

Orchard pesticide spraying robot



Product Introduction

Track structure, suitable for the vast majority of road sections; High pressure spraying and atomization, uniform spraying, with a working radius of up to seven meters and a maximum coverage width of 14 meters; Remote control operation, high work efficiency (equivalent to 10 manual workers); Maximum capacity of 200kg of medicine, continuous operation; Long battery life and wide spraying range



Technical Parameters

External dimensions	2000x1210x1400	Speed	0-4km/h
Ground clearance	150mm	Energy	Petrol-Electric Hybrid
Climbing angle	30°(Full load)	Normal battery life	≥10h
Weight	About 600Kg (full load)	Electrical machinery	Brushless
Maximum payload	350Kg	Operation temperature	-15~55°C
Track	Rubber material (embedded manganese steel)	Surface Treatment	Spray coating/baking paint
Remote control distance	Within 200 meters	Video feedback	Optional (default none)
Pharmacy water tank	200L	Method of medication application	High pressure pump spraying
Operating speed	About 10 acres per hour	Operating mode	Remote control
Scope of medication application	Width about 14m, height about 9m (adjustable)	Drug dispensing flow	14-24L/min

Agricultural pesticide truck



Product Introduction

Large load, large-scale disinfection operation. Carrying 500 pounds of medicine at a time, the maximum spray range is easily 14 meters, equivalent to 40 manual labor; Beautiful appearance, Customizable logo for homework units; Oil electric hybrid, long endurance operation; Remote control linkage of spray action, remote opening and closing, convenient for drug saving; High definition video feedback, No need to go deep into dangerous scenes, remote control operation, maximum remote control distance of 500 meters in open space.



Technical Parameters

Dimensions	1600×950×700mm	Rated speed	0-5km/h
Ground clearance	170mm	Battery	48V90ah
Climbing angle	30 ° (full load)	Normal endurance	Oil electric hybrid
Weight	About 650Kg (full load)	Electrical machinery	Brushless
Maximum load capacity	250Kg	Working temperature	-15~55°C
Tire	Inflatable tires	Surface Treatment	Baked enamel
Remote control distance	Within 500 meters (open space)	Video feedback	High definition video playback
Pharmacy water tank	250L	Method of medication application	Electric high voltage fog
Drug spraying angle	Adjustable	Operating mode	Video remote control
Scope of medication application	Width about 14m height about 7m (adjustable)	Drug pump flow rate	0-20L/min

Tyrannosaurus 01A-D-tracked chassis

Product Introduction

The Tyrannosaurus Type 01A-D tracked chassis product is a rubber tracked chassis product with superior power performance, smooth operation, and strong ground adaptability, which has excellent comprehensive performance.



Technical Parameters

Dimensions	1050×961×560 (Design according to customer needs)	Speed	0-4km/h
Ground clearance	150mm	Endurance	≥4h
Climbing angle	35° (no-load)	Operating Temperature	15~50°C
Self weight	about150Kg	Servo motor	1000Wx2
Rated load capacity	100Kg	Battery	Large capacity and high discharge current lithium battery 48V60ah
Track material	Rubber embedded steel core	Motor voltage	48V
Shock absorption	Christie Hanging		

Tyrannosaurus 01A-D-PTZ Agricultural Inspection Vehicle

Product Introduction

Intelligent navigation with automatic obstacle avoidance and 24-hour unmanned cruise control; AI vision+multispectral millisecond recognition of 53 types of pests and diseases, dynamically matching agents to save 40% of drugs; 4-hour ultra long endurance, rubber tracks suitable for complex farmland, and precise pesticide application efficiency increased by 3 times.



Technical Parameters

Dimensions	1020*958*1223
Ground clearance	101mm
Climbing angle	15° (Empty load)
Self-respect	About200Kg
Maximum Load Capacity	100Kg
Crawler track	Rubber material

Tyrannosaurus rex 01A-D-agricultural inspection vehicle

Product Introduction

Intelligent navigation with automatic obstacle avoidance and 24-hour unmanned cruise control; 4-hour ultra long endurance, rubber tracks suitable for complex farmland

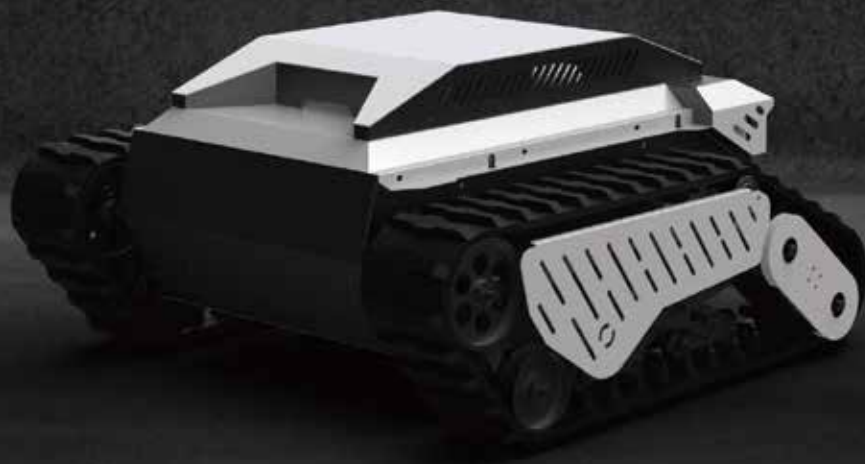


Technical Parameters

Rated speed	0-4km/h
Battery Specifications	Lead acid battery 48V45AH with 5kw range extender
Normal battery life	≥4h
Motor	1000Wx2
Working temperature	-15~55°C
Other parameters	Spring damping and road adaptation

02

TRACK SERIES



Tyrannosaurus rex 01A



Product Introduction

The Tyrannosaurus Type 01A tracked chassis product is a rubber tracked chassis product with superior power performance, smooth operation, and strong ground adaptability, which has excellent comprehensive performance.



Technical Parameters

External dimensions	1020*750*405mm	Control the internal warehouse	320*295*240
Chassis weight	110kg	Running speed	0-6.5km/h
Track	High quality rubber embedded with Kevlar fiber	Ride Height	115mm
Chassis material	Carbon steel	Protection grade	IP54
Damping	Left and right independent shock absorption	Surface Treatment	Black paint
Rated power	1000*×2	Design load	100kg
Motor selection	48V DC brushless motor/ high-precision servo motor	Torque	60NM
Reduction ratio	1:7.5	Bandwidth	150mm
Maximum obstacle crossing	150mm	Maximum climbing	> 30°
Maximum span	> 300mm	Maximum payload	120kg
Control mode	CAN communication control +remote control	Hang	Christie+Matilda four-wheel balanced suspension

00ZT linear track chassis

Product Introduction

The ultra-low "one line" track chassis is suitable for working in ultra-low space and high load scenarios,such as rail pre installation production lines



Technical Parameters

External dimensions	1500*1000*290	Rated speed	3.6km/h (speed closed-loop control)
Ground clearance	50mm	Material	Carbon steel
Climbing angle	Horizontal road application	Normal battery life	About 4 hours
Weight	About 200kg	Electrical machinery	Brushless 2000W × 2
Maximum payload	Maximum500kg	Braking method	Motor braking(Optional mechanical brake)
Control mode	Remote control/CAN	Motor voltage/V	48v
Track material	Engineering rubber track	Battery	48v80ahHigh current lithium battery

Tyrannosaurus Type 01A-T Track Chassis

Product Introduction

The Tyrannosaurus 01A-T tracked chassis product is a mobile platform designed specifically for smart agriculture. It has superior power performance, smooth operation,and is suitable for orchards and mountains,In forestry and other occasions, it is highly cost-effective.



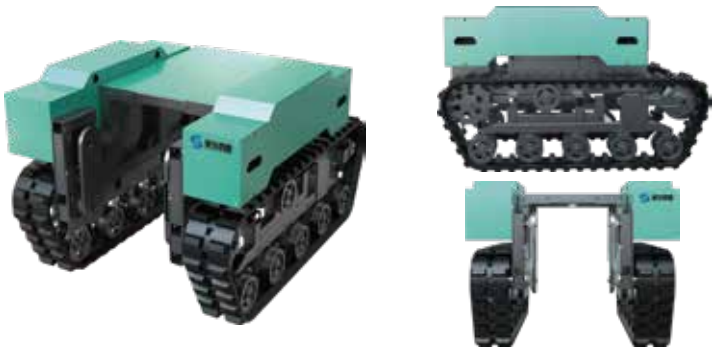
Technical Parameters

External dimensions	2000x1700x600	Speed	0~4km/h
Ground clearance	200mm	Full speed endurance	Depending on the range of the fuel generator
Climbing angle	≥30°	Normal battery life	Depending on the range of the fuel generator
Weight	500Kg	AC machine	380v3KM×2
Maximum payload	1000Kg	Reduction ratio	1:15
Tire	High quality rubber embedded with high-strength fiber width230mm	Motor voltage	380v
Material	Carbon steel	Operation temperature	-25~50°C

Jizhi 02A

Product Introduction

The Jizhi 02A tracked chassis product is a mobile platform designed specifically for smart agriculture, with superior power performance and smooth operationSuitable for orchards, mountains, forestry and other occasions, it is highly cost-effective.



Technical Parameters

External dimensions	1400x1300x860	Speed	0-4km/h
Ground clearance	700mm	Body material	Mainly carbon steel
Climbing angle	30°(No load)	Endurance/h	2h
Weight	200Kg	Electrical machinery	Servo motor
Maximum payload	200Kg(Horizontal road surface)	Control mode	Remote control/CAN/232 provides control protocol
Track material	High quality rubber steel core track	Battery	High current lithium battery
Operation temperature	-15~50°C		

Agricultural track chassis

Product Introduction

This agricultural track chassis has stable structure and excellent off-road performance. Suitable for field work. Steel core tracks, load-bearing wheels, and driving wheels are all made of steel and are not easily detached from the tracks.



Technical Parameters

External dimensions/mm	1400x1000x400 (The size shall be subject to the final design)	Speed	0-4km/h
Maximum climbing	30 degrees (full load)	Control mode	Line control/remote control provides communication protocol
Driver	48v80A dual output	Electrical machinery	1.8kw * 2 DC brushless
Maximum obstacle crossing	10cm	Normal battery life	Full load full speed < 5h
Weight	About 300KG	Maximum payload	350kg
Track	Steel core rubber track	Surface Treatment	Baked enamel
Steering method	Differential Steering	Braking method	Motor braking
Battery	Lithium iron phosphate 48v200ah	Charger	High power charger

03

WHEEL SERIES



Industrial transport vehicle chassis



Product Introduction

The chassis of the industrial transport vehicle is made of carbon steel material, with a rated load of 200kg. It is equipped with dual 1000W servo motors and 48V50Ah lithium batteries, with a range of 3 hours and supports remote control/CAN intelligent control, 60mm off the ground, able to climb a 30 ° slope, suitable for complex terrain, and suitable for high-intensity transportation scenarios such as warehousing and workshops.



Technical Parameters

External dimensions	External dimensions 1125*843*445mm
Ground clearance	60mm
Climbing angle	≥30° (No load)
Weight	About 180Kg
Rated load	200Kg
Tire	Inflatable tires
Control mode	Remote control/CAN

Rated speed	3.6km/h (speed closed-loop control)
Material	Carbon steel
Normal battery life	About 3 hours
Electrical machinery	Servo 1000w × 2
Braking method	Motor braking
Motor voltage	48v
Battery	48V50ah high current lithium battery

Wheeled educational robot chassis

Product Introduction

Wheeled educational robot chassis, powerful and adaptable to multiple scenarios. Made of carbon steel material, with a maximum load capacity of 50kg, a range of ≥ 2h, a climbing angle of ≥ 30 °, and equipped with 10 inch solid tires, Suitable for agriculture, exploration, logistics, and autonomous driving development, supporting customized modifications.



Technical Parameters

External dimensions	716*600*355mm	Rated speed	0-6km/h (speed closed-loop control)
Ground clearance	80mm	Material	Carbon steel
Climbing angle	≥30°	Normal battery life	≥2h
Dead weight	About 40Kg	Electrical machinery	400W*2
Maximum payload	50Kg	Braking method	Motor braking
Tire	10 inch solid tire	Motor voltage	48v
Control mode	Remote control/CAN/serial port	Battery	48v20ah lead-acid acid

Automatic inspection vehicle

Product Introduction

Intelligent navigation for autonomous cruising, with daily efficient coverage of 10000 square meters; 35 ° climbing+real-time obstacle avoidance, carbon steel body suitable for 30kg dynamic load; Support automatic charging, Supports multi protocol control and secondary development, industrial grade durability, and stable inspection in complex environments.



Technical Parameters

External dimensions	716*550*560	Rated speed	3.6km/h (speed closed-loop control)
Ground clearance	80mm	Material	Carbon steel
Climbing angle	≥35°(No load)	Normal battery life	Continuous work for about 2 hours
Weight	76.5Kg	Walking motor	Servo 400Wx2
Maximum payload	120kg(Static load)	Tire	Solid tire
Control mode	Remote control/CAN /serial port	Battery	48v30ah

Four-wheel drive differential wheel chassis



Technical Parameters

External dimensions	1098x849x491	Rated speed	PWM 5km/h(Speed closed-loop control)
Ground clearance	158	Material	Carbon steel
Climbing angle	≥30°(No load)	Normal battery life	≥2h
Weight	About60Kg	Electrical machinery	Brushless 800Wx2
Maximum payload	100Kg(Horizontal road surface)	Braking method	Motor braking
Tire	16 inch vacuum tire	Motor voltage	48v
Control mode	Remote control/CAN/serial port	Battery	48v80ahHigh current lithium battery

Material transport vehicle

Product Introduction

Integrate autonomous driving and intelligent tracking, suitable for scenarios such as warehouses and agriculture. Four wheel drive structure+16 inch vacuum tires, supporting 30 ° climbing and 100kg load capacity, with a range of 2 hours. Modular sealing design, multi-mode control, efficient and labor-saving.



Technical Parameters

External dimensions	1098x849x491	Rated speed	PWM 5km/h(Speed closed-loop control)
Ground clearance	158	Material	Carbon steel
Climbing angle	≥30°(No load)	Normal battery life	≥2h
Weight	About60Kg	Electrical machinery	Brushless 800Wx2
Maximum payload	100Kg(Horizontal road surface)	Braking method	Motor braking
Tire	16 inch vacuum tire	Motor voltage	48v
Control mode	Remote control/CAN/serial port	Battery	48v80ahHigh current lithium battery

Ackermann chassis V13



Product Introduction

The Akman robot chassis is made of carbon steel/aluminum alloy material, with independent suspension and shock absorption, four-wheel mechanical disc brakes, and a maximum load capacity of 40kg. Battery life ≥ 7 hours, supports CAN/remote control/upper computer control, equipped with 48V400Ah lithium iron phosphate battery, suitable for 30 ° climbing, Protection level IP54, suitable for complex scene operations.



Technical Parameters

External dimensions	1500*1000*600	Rated speed	0-10km/h (speed closed-loop control)
Ground clearance	300mm	Material	Carbon steel, aluminum alloy
Climbing angle	$\geq 30^\circ$ (unloaded)	Normal battery life	$\geq 7h$
Weight	220Kg	Walking motor	Servo motor
Maximum payload	Rated 40kg	Tire	Tubeless
Control mode	Remote control/CAN/with upper computer debugging software	Battery	48v400ah lithium iron phosphate battery
Protection grade	IP54	Steering method	Ackermann front wheel steering rear wheel drive

Ackermann chassis V14



Product Introduction

This Ackermann robot chassis adopts rear wheel differential steering, with a load capacity of 200KG, equipped with four-wheel suspension suspension and 16/20 inch off-road tires, supporting 30 ° climbing and 0.5m/s closed-loop speed regulation. Built in 80Ah lithium battery, remote control distance of over 200 meters, integrated CAN interface and 220V output, suitable for complex terrain operations and secondary development.



Technical Parameters

External dimensions	1900×1500×700mm	Rated speed	0-20km/h
Steering method	Ackermann, rear wheel with differential	Remote control distance	Tested distance 400m
Equipped with tires	16/20 inch vacuum off-road tire	Battery capacity	$\geq 80Ah$
Climbing angle	$\geq 30^\circ$	Type	48V lithium battery
Maximum payload	200KG	Tire	Tubeless
Control mode	Remote control/CAN	Remote control	Model airplane handheld remote control(12 channels)
Damping	Cross arm independent suspension	Ground clearance	200mm

Ackermann chassis V15

Product Introduction

The Manyan Q3 wheeled chassis product is a mobile platform specially designed for autonomous driving, with superior power performance, stable performance, and sensitive response. Suitable for unmanned driving development, education, logistics turnover and other occasions, highly cost-effective.



Technical Parameters

Speed ratio	1: 20 (customizable)	Signal format	PWM(Adjusting the duty cycle to achieve different actions)
Speed per hour	0-10km/h (customizable)	Braking method	Electric motor braking+electronic parking
Storage battery	Lead acid 24v45ah	Steering method	Servo DC brushed Ackermann steering
Endurance	About 4 hours	Tire	13 inch inflatable tire (diameter approximately 330mm)
External dimensions	1320/ 615 /340mm	Climbing angle	Greater than 10 °
Vehicle weight	70kg (including battery)	Load	Maximum 100kg
Drive motor	DC BRUSH	Sensor	Code wheel speed measurement and power display
Control mode	Remote control or program control		

SQ-03-D

Product Introduction

The SQ-03-D four-wheel drive product is a wheeled chassis product with superior power performance, smooth operation, and strong ground adaptability, with excellent comprehensive performance.



Technical Parameters

External dimensions	About 1800x1200x800	Rated speed	0-4km/h (Speed closed-loop control)
Ground clearance	According to the design	Material	Carbon steel
Climbing angle	≥30° (No load)	Normal endurance	≥3h
Weight	About 200Kg	Electrical machinery	High power brushless motor drive servo motor steering
Maximum payload	≤400Kg (Horizontal road surface)	Braking method	Motor braking
Tire	Off road patterned vacuum tire	Motor voltage	Reserved battery compartment space for 220V AC
Battery	48v80ah High current lithium battery	Voltage reduction module	220v to 48v DC
Control mode	Remote control/CAN/serial port	Reducer	Precision planetary deceleration

04/

ARCHITECTURAL SERIES



Concrete smoothing robot

Product Introduction

This product adopts military grade carbon steel body and steel core rubber tracks, equipped with a 48V three motor system (1000W walking+750W rotation+400W swing), with strong power and improved polishing efficiency30%. Support 300 meter remote control and intelligent pressure regulation technology, real-time adaptation of concrete status, ensuring smooth and even ground, reducing secondary finishing. Equipped with a 48V100A large capacity battery with a range of 4 hours, it is an ideal intelligent equipment for efficient construction on construction sites.



Technical Parameters

External dimensions	Dimensions 1970 * 1006 * 935	Rated speed	0-3.6/h (speed closed-loop control)
Ground clearance	60mm off the ground	Material	Carbon steel
Climbing angle	≥0°	Normal battery life	About 4h
Dead weight	About 300Kg	Walking motor	48v1000w
Chassis load capacity	100Kg	Swing motor	48v400w
Tire	Rubber track (including steel core)	Rotating machines	48v750w
Control mode	Remote control/CAN/serial port (remote control is about 300 meters)	Battery	48v100a

Concrete leveling robot

Product Introduction

The concrete leveling robot is an efficient and intelligent equipment designed specifically for modern construction scenarios. It integrates core advantages such as long battery life, narrow space operation, laser leveling, and remote control operation, and is committed to improving the efficiency and construction quality of concrete leveling and reducing labor costs.



Technical Parameters

External dimensions	1380*1070*1630	Rated speed	3.6km/h (speed closed-loop control)
Ground clearance	135mm	Material	Carbon steel
Climbing angle	≤20°	Normal battery life	Continuous work for about 4 hours
Dead weight	About 100kg	Walking motor	1kw at 1500 RPM
Motor voltage/V	Battery 48v50ah	Tire	Inflatable tires
Control mode	Remote control/CAN serial port	Braking method	Motor braking

05

SPECIAL SERIES



Wuji 01 type tracked chassis



Product Introduction

The Wuji 01 tracked chassis product is a rubber tracked chassis product with superior power performance, smooth operation, and strong ground adaptability, which has excellent comprehensive performance. Suitable for work scenarios such as



Technical Parameters

External dimensions	1400×1210×698
Ground clearance	300mm
Climbing angle	30 ° (unloaded)
Weight	About 150Kg
Maximum payload	200Kg (Horizontal road surface)
Tire	Rubber material

Speed	0-4km/h
Battery specifications	Lithium battery (high discharge current) 48V80AH
Range	≥2h
Brushless Motor	1500Wx2
Operation temperature	-10~50°C
Other	

Heavy duty AGV

Product Introduction

3-ton heavy-duty stable operation like walking on flat ground, 8-hour ultra long endurance automatic charging, modular expansion of lifting and feeding turnover, all-round intelligent control in extremely harsh environments of -15~50 °C



Technical Parameters

Dimensions	2730×2000×910	Speed	0-3.6km/h
Ground clearance	≤150mm	Range	About 8 hours
Climbing angle	≤ 6 ° (no load)	Working temperature	-15~50°C
Self weight	1.5 t	Servo motor	1.5KWx2
Maximum load capacity	3 tons (horizontal road surface)	Reducer	Precision planetary deceleration
Tire	Solid rubber	Motor voltage	Lithium battery (high discharge current) 48V200AH

Strawberry picking robot

Product Introduction

Four wheel independent steering, dancing ballet between strawberry ridges, precise 266mm crossing without damaging seedlings; 8-hour battery life, daily harvest of 1000 kilograms of fruit,stable operation with a light load of 40kgFresh and sweet, a new benchmark for intelligent harvesting



Technical Parameters

External dimensions	1500*900*730mm	Dattery	48v100ah
In-wheel motor	800w*4	Endurance	8h
Steering motor	400w*4	Material	Carbon steel
Ground clearance	266mm	Rated speed	3.6km/h
Control mode	Remote control	Load	40kg

Photovoltaic cleaning robot

Product Introduction

The photovoltaic cleaning vehicle is made of lightweight aluminum alloy material (50Kg), equipped with high-pressure spray cleaning solution and anti fall protection, and modular roller brush for quick disassembly and assembly. Remote control/CAN control,Nylon wheels and track design are anti slip, suitable for climbing and complex terrain, with a range of ≥ 2 hours, specially designed for efficient cleaning of photovoltaic panels.



Technical Parameters

External dimensions	603 * 543 * 243 (excluding brush head)	Rated speed	3.6km/h (speed closed-loop control)
Ground clearance	33mm	Material	Carbon steel
Climbing angle	≥0°	Normal battery life	≥2h
Dead weight	About 50Kg	Electrical machinery	400W*2
Maximum payload	50Kg	Braking method	Motor braking
Tire	Nylon wheel	Motor voltage	24v
Control mode	Remote control/CAN/serial port	Battery	24v50ah*2

Boar tractor

Product Introduction

The boar tractor is driven by brushless dual motors (1000W × 2), with a maximum load capacity of 100kg and a climbing angle of>35 ° . Rubber manganese steel tracks are durable and slip resistant, with convenient remote control operation,4 hours of battery life, suitable for -15~50 ° C environment. Compact in size, with both traction and transportation functions, suitable for scenarios such as farms and slopes.



Technical Parameters

External dimensions	1000*600*1000mm	Rated speed	0-3.6/h (speed closed-loop control)
Ground clearance	Not less than 8mm	Wheel set form	Single wheel structure form
Climbing angle	≥ 35 ° without load	Normal battery life	Continuous work for about 4 hours
Dead weight	Not less than 200kg	Electrical machinery	Brushless 1000W * 2
Maximum payload	100kg (horizontal road surface)	Reducer	Worm gear reduction motor
Tire	Rubber tracks contain manganese steel	Motor voltage	Lead acid 48V45AH
Control mode	Remote control (one handed remote control) with one set of backup/two sets in total	Operation temperature	-15~50°C

Substation cleaning robot

Product Introduction

Zero contact cleaning of high-risk equipment with a 2.8-meter lifting pole, capable of conquering 15 ° steep slopes with a tonnage load carrying equipment; Dual 5000W motor breaking, five level insulation protection, ultimate tool for unmanned operation in substations



Technical Parameters

Dimensions	1600*1350*2800(including lifting rod)	Speed	3.6km/h
Ground clearance	140mm	Battery specifications	Lithium battery 48v460ah
Climbing angle	15°	Range	≥8h
Self weight	About 600kg	Electrical machinery	Servo motor 5000Wx2
Water pump	1kw	Operation temperature	-15~55℃
Load	1000kg	Tire diameter	40cm

06 / MILITARY SERIES



Military assault vehicle

Product Introduction

The product has superior power performance, smooth operation, and strong ground adaptability, with excellent comprehensive performance. Suitable for complex road conditions, it can be equipped with thermal imaging, laser ranging, visible light cameras, assault rifles, to achieve remote assault and reconnaissance; The rear can also be equipped with drones for high-altitude reconnaissance;



Technical Parameters

External dimensions	2250*1440*730(Excluding gimbal)	Speed	10km/h(Speed closed-loop control)
Ground clearance	250mm	Material	Carbon steel
Climbing angle	≥30°	Normal battery life	Normally around 5 hours
Weight	About 500kg	Electrical machinery	Brushless3000Wx2
Maximum payload	300Kg	Braking method	Motor braking
Tire	Rubber track (including steel core)	Motor voltage	48v
Control mode	Remote control/CAN/serial port (remote control is about 300 meters)	Battery	Lithium Iron Phosphate48v200ah

Reconnaissance vehicle

Product Introduction

The product has superior power performance, smooth operation, and strong ground adaptability, with excellent comprehensive performance. Suitable for complex road conditions, six wheel drive, strong passability, simple maintenance, and low noise;



Technical Parameters

External dimensions	1450*1000*690(Excluding gimbal)	Rated speed	10km/h(Speed closed-loop control)
Ground clearance	150mm	Material	Carbon steel
Climbing angle	≤30°(No load)	Normal endurance	≥5h
Weight	About 150Kg	Electrical machinery	Brushless 1200Wx2
Maximum payload/Kg	100Kg	Braking method	Motor braking
Tire	Diameter 400 vacuum tire * 6	Motor voltage	48v
Control mode	Remote control/CAN/serial port (remote control is about 300 meters)	Battery	Lithium iron phosphate 48v100ah

Unmanned Assault Vehicle

Product Introduction

The unmanned assault vehicle is designed specifically for mobile assault, with dimensions of 2200 × 1060 × 950mm, a load capacity of 100kg, and a ground clearance of 200mm,Climbing a 30 ° slope, with a range of over 6 hours, suitable for environments ranging from -15 ° C to 55 ° C, and possessing both high passability and reliability.



Technical Parameters

Dimensions	2200×1060×950	Speed	0-15km/h
Ground clearance	165mm	Battery specifications	Lead acid battery 48V45AH
Climbing angle	16 ° (unloaded)	Range	≥2.5h
Weight	≥200Kg	Brushless Motor	1200Wx1
Maximum load capacity	250Kg	Working temperature	-15~55°C
Tire	Rubber inflatable tire		

Individual support vehicle

Product Introduction

The product has superior power performance, smooth operation, and strong ground adaptability, with excellent comprehensive performance.Suitable for driving on complex road conditions, with strong passability and high reliability, suitable for transporting materials in extreme mountain and hilly road conditions;



Technical Parameters

External dimensions	2380*1440*1100mm	Speed	8km/h(Speed closed-loop control)
Ground clearance	250mm	Material	Carbon steel
Climbing angle	≥30°	Normal battery life	Normally around 4 hours
Weight	About 500g	Electrical machinery	Brushless 3000Wx2
Maximum payload	500Kg	Braking method	Motor braking
Tire	Rubber track (including steel core)	Motor voltage	48v
Control mode	Remote control/CAN/serial port (remote control is about 300 meters)	Battery	Lithium Iron Phosphate 48v400ah

07 / DYNAMICAL SYSTEM



Tracked vehicle power unit

The power unit of the tracked vehicle adopts a carbon steel structure with dimensions of 920 × 335 × 174mm (customizable), driven by dual 1200W brushless motors, Working temperature range of -15~55 ° C, optional speed ratio of 10/20, strong adaptability and durability.

Technical Parameters



External dimensions	920×335×174 (Can be replaced according to user needs)
Operation temperature	-15~55°C
Material	Carbon steel
Speed ratio	10/20
Brushless Motor	1200Wx2
Driving wheel	7-tooth 72 pitch (can be replaced according to the user's track model)

Gearbox motor integrated power unit

The integrated power unit of the reducer motor adopts a carbon steel structure, 470 × 168×168 (single size, can be replaced according to user needs), driven by dual 1500W brushless motors, The working temperature range is -15~55 ° C, with a speed ratio of 20 to choose from, providing strong

Technical Parameters



External dimensions	470×168×168 (Single size, can be replaced according to user needs)
Operation temperature	-15~55°C
Material	Carbon steel
Speed ratio	20
Brushless Motor	1500Wx2
Driving wheel	11 teeth and 60 pitch (Can be replaced according to the user's track model)

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