TROY INTELLIGENT

INTELLIGENT LOGISTICS SOLUTIONS

Unmanned Transport Robot

Digital Twin Empowers
Intelligent Manufacturing











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About Us

Beijing Robot Technology Co., Ltd. is a leading provider of autonomous mobile robot (AMR) solutions.

Facing the digital and intelligent transformation needs of factory enterprises, focusing on factory logistics, patrol inspection and other operational scenarios, Robot has created a leading solution to help factory customers improve production and management efficiency, reduce manpower costs, and build a new generation of smart factories that can be operated with the model of "Digital Twin Factory + Intelligent Robot".

Based on the deep accumulation of high-precision maps, real-time 3D modelling, spatial-temporal big data integration, digital twin and other technologies, Robot products have been widely used in automotive, logistics, 3C electronics, security, tobacco, daily chemicals, new energy and other industries.

From the autonomous driving system and high-precision map acquisition for logistics robots to the logistics scheduling software platform and factory's digital twin platform for logistics and transport solutions, Robot is your faithful AI driver, security guard and housekeeper for smart factories.

We have a senior expert technical team in the industry, based on years of rich industry solutions and scientific engineering project management experience, can provide customers with one-stop integration services including technical consulting, demand communication , programme planning, product design, system integration , rapid deployment , after-sales service to help users quickly build intelligent and unmanned operation capabilities with low-cost.

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The MyBull unmanned robot adopts multi-sensor fusion SLAM technology, including laser, vision, and satellite navigation sensors. It also adopts a multifunctional chassis that can be towed or pulled. The MyBull can be used in various fields such as factories, automobile manufacturing, ports, and food,achieving all-weather and full-function unmanned transport.

Product Features

- Indoor and Outdoor All-weather Operation
- Autonomous Navigation to Any Point
- Intelligent Multi-machine Scheduling
- Global Visualization Management
- Intelligent Obstacle Avoidance
- Autonomous Charging
- Automatic Unhooking
- IoT Device Access



Suitable for industries such as automotive, manufacturing, 3C, new energy, airport logistics, etc

Automotive Industry | Manufacturing Industry | 3C Industry | New Energy | Airport Logistics

MyBull Unmanned Transport Robot

TC200A

Maximum load 200kg



Metric	Parameter
Size	1800*720*1500(mm)
Maximum transport capacity	200kg
Navigation method	Multi-source fusion navigation (3DSLAM+RTK+IMU+Vision)
Positioning navigation accuracy	≤10cm
Fixed-point docking accuracy	≤3cm
Maximum travel speed	≤25km/h
Obstacle crossing height	150mm
Operating temperature	-20℃~50℃
Protection level	IP54

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TC800A

Maximum load 800kg



Metric	Parameter
Size	2900*1800*750(mm)
Maximum transport capacity	800kg
Navigation method	Multi-source fusion navigation (3DSLAM+RTK+IMU+Vision)
Positioning navigation accuracy	≤10cm
Fixed-point docking accuracy	≤3cm
Maximum travel speed	≤18km/h
Obstacle crossing height	≥80mm
Operating temperature	-20℃~50℃
Protection level	IP54

TT6000C

Maximum traction force 6000kg



Metric	Parameter
Size	2373*1176*2228(mm)
Maximum transport capacity	6000kg
Navigation method	Multi-source fusion navigation (3DSLAM+RTK+IMU+Vision)
Positioning navigation accuracy	≤10cm
Fixed-point docking accuracy	≤5cm
Maximum travel speed	8km/h(Full load)10km/h(Nol load)
Obstacle crossing height	30mm
Maximum climbing degree	6%(Full)/15%(no load)
Operating temperature	-20℃~50℃
Protection level	IP54

TT8000A

Maximum traction force 8000kg



Metric	Parameter
Size	2130*1250*2400(mm)
Maximum transport capacity	8000kg
Navigation method	Multi-source fusion navigation (3DSLAM+RTK+IMU+Vision)
Positioning navigation accuracy	≤10cm
Fixed-point docking accuracy	≤5cm
Maximum travel speed	10km/h(Full load)11km/h(Nol load)
Obstacle crossing height	50mm
Maximum climbing degree	6%(Full load)/10%(no load)
Operating temperature	-20℃~50℃
Protection level	IP54

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TT40000A

Maximum traction force 40T



Metric	Parameter
Size	3600*2100*2200(mm)
Maximum transport capacity	40T
Navigation method	Multi-source fusion navigation (3DSLAM+RTK+IMU+Vision)
Positioning navigation accuracy	⩽10cm
Fixed-point docking accuracy	⩽5cm
Maximum travel speed	16km/h(Full load)26km/h(No load)
Obstacle crossing height	100mm
Maximum climbing degree	1%(Full load)/9%(20% load)/ 30%(No load)
Operating temperature	-20℃~50℃
Protection level	IP54

TF2000A

Rated lifting capacity 2000kg



Metric	Parameter
Size	3450mm*1300mm*2400mm
Lifting height	3000mm
Rated lifting capacity	2000kg
Site repeat positioning accuracy	⩽±3cm
Endurance	⩾7h(50% Full load 50% No load)
Charging time	⩽2.5h
Charging method	Manual/automatic charging
Navigation method	Multi-source fusion navigation (3DSLAM+RTK+IMU)
Maximum autonomous driving speed	⩾4km/h(Full load) /⩾7km/h(No load)
Obstacle crossing height	⩾30mm(vertical)/50mm(speed bump)
Maximum climbing degree	⩾15%(Full load) /20%(No load)
Protection level	IP54

Application Cases



Digital twin empowers
intelligent manufacturing

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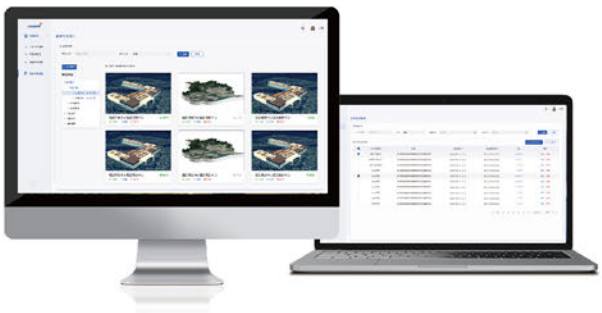
"TwinMap" Spatio-Temporal Big Data Platform

3D simulation | Multi-source data fusion | Empowering digital intelligence transformation

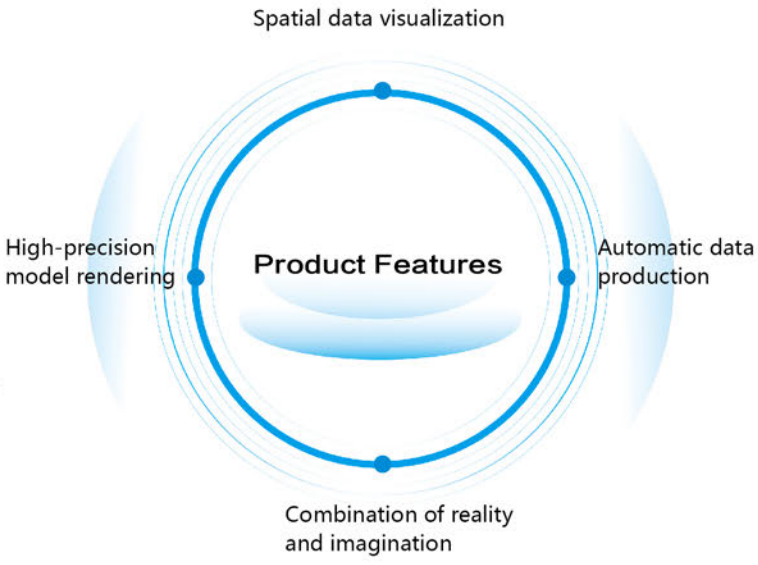


The TwinMap platform, which is a foundational-level product developed on the "BIM+GIS+IoT" framework, bases on three-dimensional visualization technology, integrating digital twin, data governance, spatial service, IoT, and other technologies. It provides digital twinning foundational data services, platform support, and secondary development capabilities for vertical industry applications such as smart cities, factory parks, and realizes the effect that physical world is under the control of virtual, which enhances intelligent management and decision-making capabilities for government and enterprises.

Product Features



Digital twin true image platform



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Program Spotlight







1 Self-developed platform with leading performance

The platform, based on self-researched digital twin base platform, supports more than 50 kinds of data format conversion and loading, and realizes the second-level response display of the whole-domain 3D model in the big scene for the factory.

2 Intelligent algorithm with higher efficiency

The platform takes advantage of multiple algorithms including task scheduling, path planning and traffic control to reduce the invalid driving distance and the idle rate, and improve the overall operational efficiency.

3 Automated processes without intervention

The platform supports robots to receive and execute tasks, navigate and renew automatically without human intervention to realize intelligent and unmanned operation and significantly reducing labor costs.

4 Open and compatible for smooth integration

Based on open API interface, the platform is compatible with robot devices of different manufacturers, meanwhile, it adopts modular and lightweight design, which is convenient to be integrated with the existing automation management system of the factory.













Product Applications

Digital Twin Factory



Smart City Operation Center



Urban three-dimensional prevention and control

