

XIZIIPARKING

HANGZHOU XIZI IPARKING CO., LTD.

NO.181 HONGDA ROAD,LINPING ECONOMIC DEVELOPMENT
ZONE,HANGZHOU,P.R.CHINA 311100
TEL: 86-571-85143660/8813661 FAX: 86-571-88139678-20#
HTTP: WWW.XIZIIPARKING.COM



SCAN TO LEARN MORE



PARKING ROBOT
SMART PARKING EQUIPMENT

AGV

PARKING
SYSTEMS



TECHNOLOGY CREATES A PERFECT SPACE

CHINA'S SMART TRANSPORTATION INDUSTRY LEADER

Hangzhou Xizi iParking Co., Ltd. is affiliated with Xizi International. As China's leading intelligent parking enterprise, static traffic planner, national specialized and innovative "Little Giant", national service-oriented manufacturing demonstration enterprise, deputy chair unit of the Parking Equipment Industry Association, and a leading enterprise in the mechanical three-dimensional parking system industry, it has resolved parking issues in over 200 large and medium-sized cities nationwide and constructed nearly 800,000 parking spaces across the country, while also exporting to various countries worldwide. In 2023, the first domestic port AGV parking lot was put into operation at the Ro-Ro Terminal of Yantai Port.

The company is headquartered in the Linping Economic and Technological Development Zone, Hangzhou, and has passed the national second-level safety production standard audit. It applies Industry 4.0 intelligence to parking system manufacturing and has been recognized as a flagship enterprise of technology innovation in China's heavy machinery industry during the 13th Five-Year Plan, a national key high-tech enterprise, a provincial industrial design center, and creator of a provincial industrial internet platform, as well as a provincial two-industry integration pilot demonstration enterprise. It houses a provincial enterprise research institute, Hangzhou Academician Workstation, Hangzhou Enterprise Technology Center, and Xizi iParking Postdoctoral Workstation; Xizi iParking Testing Center achieved the industry's first national CNAS certification. The company currently holds over 200 patented technologies, with multiple products obtaining Zhejiang Manufacturing's "Quality" mark and CE certification.

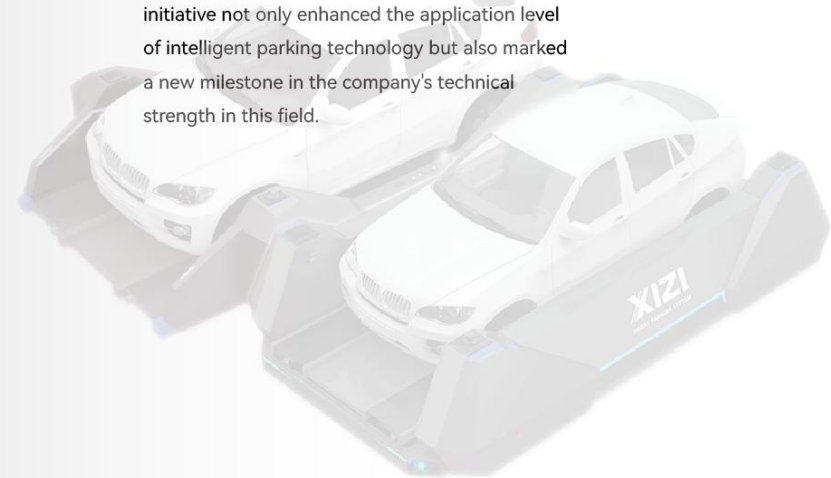
Amidst the increasingly fierce competition in the parking system market, the company is dedicated to establishing and becoming the industry benchmark for services, adhering to the concept of an intimate butler and professional service. User satisfaction is our eternal pursuit.



AGV Parking Robot Smart Parking Equipment

Leveraging its profound technical accumulations and extensive practical experience in the field of intelligent parking, Hangzhou Xizi iParking Co., Ltd. has launched a diversified AGV product line, including traverser-type, manipulator-type, multi-dimensional all-terrain, and vehicle-carrying plate-type parking AGVs, fully showcasing its technological leadership in the industry.

In 2023, the company successfully implemented the country's first port AGV parking project at the Ro-Ro Terminal of Yantai Port. This innovative initiative not only enhanced the application level of intelligent parking technology but also marked a new milestone in the company's technical strength in this field.



AGV

XIZI IPARKING
DEVELOPMENT HISTORY

XIZI IPARKING AGV BUSINESS STARTED

2013

VEHICLE-CARRYING PLATE AGV



2014

ALL-TERRAIN SELF-PROPELLED AGV



2018

SPLIT-TYPE AGV



2020

MANIPULATOR INTEGRATED AGV



2022

MULTI-DIMENSIONAL COLLABORATIVE
MANIPULATOR AGV SINGLE DECK



2024 >

MULTI-DIMENSIONAL COLLABORATIVE
MANIPULATOR AGV DOUBLE-DECK



PRODUCT TYPE »

AGV

AGV VEHICLE-CARRYING PLATE

HERCULES



TECHNICAL PARAMETERS

Performance	
Navigation Mode	Laser Navigation (Reflector) + Magnetic Nail
Mobility Function	Forward, backward, turn, spin, lateral movement
Drive and Steering Mode	Four-wheel drive and steering
Braking Mode	Fail-safe brake
Driving Speed	Maximum linear speed: 1.5m/s
Turning Speed	Maximum turning speed: 0.5m/s
Suitable Vehicle Weight	2.6 tons
Peak Travel Power	7.6KW
Guidance Accuracy	+10mm
Stopping Precision	±5mm
Communication Mode	WLAN
Safety Protection	Emergency stop button, safety laser protection, software emergency stop

EQUIPMENT DIMENSIONS

AGV L*W*H	3710mm*1760mm*305mm
Vehicle-carrying plate L*W*H	5300mm*2200mm*528mm

CHARGER POWER AND BATTERY

Charger Power	10KW
Battery Capacity	48V lithium iron phosphate battery 120AH
Full Battery Endurance	Approximately 4 hours
Full Charging Duration	2 hours (0.5C rate)
Charging Mode	Automatic or manual charging

PARKING SPACE INFORMATION

Car Capacity Specifications	5300mm (L) *2000mm (W) *2000mm (H)
Net Vehicle Weight	2.6tons
Parking Surface Height	387.5mm
Parking Space Clear Height	≥2600mm (parking SUV)
Aisle Width	≥6000mm (passage spin)

ENVIRONMENTAL REQUIREMENTS

Temperature	-10°C~40°C
Humidity	10%~90%, no condensation
Air	No dust, flammable, explosive, and corrosive gases

GROUND REQUIREMENTS

Recommended grounding method: C35 concrete + diamond abrasive ground,
The ground must be free of oil stains and water accumulation;
The ground must be free of hollows, and the ground load must meet the load requirements of the AGV equipment. The ground will not crack, break or sink during long-term operation of the AGV.
Ground flatness: ≤2mm/m²;
Ground expansion joint width: ≤6mm;
Ground friction coefficient: ≥0.6

AGV ALL-TERRAIN CLAMP TYPE

TITAN



TECHNICAL PARAMETERS

Performance	
Navigation Mode	Laser navigation
Mobility Function	Forward, backward, turn, spin, lateral movement
Drive and Steering Mode	Four-wheel drive and steering
Braking Mode	Fail-safe brake
Driving Speed	Maximum linear speed: 1.5m/s
Turning Speed	Maximum turning speed: 0.5m/s
Suitable Vehicle Weight	2.5 tons
Peak Travel Power	8KW
Guidance Accuracy	±10mm
Stopping Precision	±5mm
Communication Mode	WLAN
Safety Protection	Emergency stop button, safety laser protection, software emergency stop

EQUIPMENT DIMENSIONS

L*W*H	5250mm*3000mm*2500mm
Spin Diameter	5800mm

CHARGER POWER AND BATTERY

Charger Power	10KW
Battery Capacity	48V lithium iron phosphate battery 208AH
Full Battery Endurance	Approximately 6 hours (full load)
Full Charging Duration	0.5C charging time 2.5 hours
Charging Mode	Automatic or manual charging

PARKING SPACE INFORMATION

Car Capacity Specifications	5300mm (L) *1950mm (W) *2050mm (H)
Net Vehicle Weight	2.5 tons
Parking Space Clear Height	≥2600mm
Aisle Width	≥6000mm

ENVIRONMENTAL REQUIREMENTS

Temperature	-10°C~40°C
Humidity	10%~90%, no condensation
Air	No dust, flammable, explosive, and corrosive gases

GROUND REQUIREMENTS

Recommended grounding practice: C35 concrete + diamond abrasive ground, no hollows in the ground, free of oil stains and water accumulation;

The ground load must meet the AGV equipment's load requirements, ensuring no cracking, breaking, or settling during long-term operation of the AGV;

Ground flatness: ≤2mm/m²;

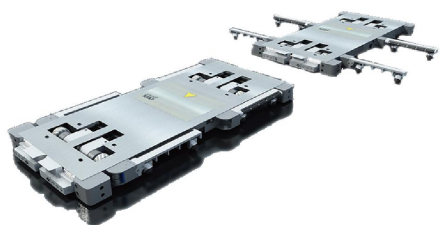
Ground slope: ≤3.5%;

Ground expansion joint width: ≤6mm;

Ground friction coefficient: ≥0.6

AGV ANTS

SPLIT CLAMP TYPE



TECHNICAL PARAMETERS

Performance	
Navigation Mode	Laser navigation + QR code navigation
Mobility Function	Forward, backward, turn, spin, lateral movement
Drive and Steering Mode	Each unit is equipped with dual differential drive and steering
Braking Mode	Fail-safe brake
Driving Speed	Maximum linear speed: 1.2m/s
Suitable Vehicle Weight	2.3 tons
Peak Travel Power	2.4KW
Guidance Accuracy	±20mm
Stopping Precision	±10mm
Communication Mode	WLAN
Safety Protection	Emergency stop button, safety laser protection, software emergency stop

EQUIPMENT DIMENSIONS

L*W*H	1900mm*1142mm*110mm single piece
Spin Diameter	5800mm Maximum

CHARGER POWER AND BATTERY

Charger Power	5KW
Battery Capacity	60V lithium iron phosphate battery 45AH
Full Battery Endurance	Approximately 3-4 hours (full load)
Full Charging Duration	0.5C charging time ≤ 2 hours
Charging Mode	Automatic or manual charging

PARKING SPACE INFORMATION

Car Capacity Specifications	5300mm (L) *1950mm (W) *2050mm (H)
Net Vehicle Weight	2.3 tons
Aisle Width	≥6000mm

ENVIRONMENTAL REQUIREMENTS

Temperature	-10°C~40°C
Humidity	10%~90%, no condensation
Air	No dust, flammable, explosive, and corrosive gases

GROUND REQUIREMENTS

Recommended grounding practice: C35 concrete + diamond abrasive ground, no hollows in the ground, free of oil stains and water accumulation;

The ground load must meet the AGV equipment's load requirements, ensuring no cracking, breaking, or settling during long-term operation of the AGV;

Ground flatness: ≤3mm/m²;

Ground slope: ≤3.5%;

Ground expansion joint width: ≤6mm;

Ground friction coefficient: ≥0.6

AGV INTEGRATED CLAMP TYPE

GAEA



TECHNICAL PARAMETERS

Performance	
Navigation Mode	Laser navigation + Magnetic pin navigation
Mobility Function	Forward, backward, turn, spin, lateral movement
Drive and Steering Mode	Dual differential drive and steering
Braking Mode	Fail-safe brake
Driving Speed	Maximum linear speed: 1.7m/s
Turning Speed	Maximum turning speed: 0.5m/s
Suitable Vehicle Weight	2.5 tons
Peak Travel Power	5KW
Guidance Accuracy	±10mm
Stopping Precision	±5mm
Communication Mode	WLAN
Safety Protection	Emergency stop button, safety laser protection, software emergency stop

EQUIPMENT DIMENSIONS

L*W*H	5250mm*1000mm*210mm
Spin Diameter	5700mm

CHARGER POWER AND BATTERY

Charger Power	10KW
Battery Capacity	48V lithium iron phosphate battery 208AH
Full Battery Endurance	Approximately 8 hours (full load)
Full Charging Duration	0.5C charging time 2.5 hours
Charging Mode	Automatic or manual charging

PARKING SPACE INFORMATION

Car Capacity Specifications	5300mm (L) *2000mm (W) *2050mm (H)
Net Vehicle Weight	2.5 tons
Parking Surface Height	120mm
Parking Space Clear Height	≥2270mm (SUV)
Aisle Width	≥6000mm

ENVIRONMENTAL REQUIREMENTS

Temperature	-10°C~40°C
Humidity	10%~90%, no condensation
Air	No dust, flammable, explosive, and corrosive gases

地面要求

Recommended grounding practice: C35 concrete + diamond abrasive ground, no hollows in the ground, free of oil stains and water accumulation;

The ground load must meet the AGV equipment's load requirements, ensuring no cracking, breaking, or settling during long-term operation of the AGV;

Ground flatness: ≤2mm/m²;

Overall ground plane: ≤3.5%; Local plane: ≤1%;

Ground expansion joint width: ≤6mm;

Ground friction coefficient: ≥0.6

AGV

MULTI-DIMENSIONAL
COLLABORATIVE ROBOT - SINGLE DECK

STAR SHUTTLE



TECHNICAL PARAMETERS

Performance	
Navigation Mode	Dual laser navigation
Mobility Function	Forward, backward, turn, spin, lateral movement
Drive and Steering Mode	Four-wheel drive and steering
Braking Mode	Fail-safe brake
Driving Speed	Maximum linear speed: 3m/s
Turning Speed	Maximum turning speed: 0.5m/s
Suitable Vehicle Weight	2.5 tons
Peak Travel Power	12KW
Guidance Accuracy	±10mm
Stopping Precision	±5mm
Communication Mode	WLAN
Safety Protection	Emergency stop button, safety laser protection, software emergency stop

EQUIPMENT DIMENSIONS

L*W*H	5600mm*2850mm*1300mm
Inner width	2160mm

CHARGER POWER AND BATTERY

Charger Power	10KW
Battery Capacity	48V lithium iron phosphate battery 300AH
Full Battery Endurance	Approximately 6 hours
Full Charging Duration	0.5C charging time 2.5 hours
Charging Mode	Automatic or manual charging

PARKING SPACE INFORMATION

Car Capacity Specifications	5300mm (L) *1950mm (W) *2050mm (H)
Net Vehicle Weight	2.5 tons
Parking Surface Height	150mm
Parking Space Clear Height	≥2300mm (parking SUV)
Aisle Width	≥6000mm; spin diameter 6000mm

ENVIRONMENTAL REQUIREMENTS

Temperature	-10°C~40°C
Humidity	10%~90%, no condensation
Air	No dust, flammable, explosive, and corrosive gases

GROUND REQUIREMENTS

Recommended grounding method: C35 concrete + diamond abrasive ground, The ground must be free of oil stains and water accumulation; The ground must be free of hollows, and the ground load must meet the load requirements of the AGV equipment. The ground will not crack, break or sink during long-term operation of the AGV.

Ground flatness: ≤2mm/m²; Overall ground plane: ≤3.5%; Local plane: ≤1%;

Ground expansion joint width: ≤6mm;

Ground friction coefficient: ≥0.6

AGV

Multi-dimensional collaborative robot - double-deck

STAR SHUTTLE



TECHNICAL PARAMETERS

Performance	
Navigation Mode	Laser navigation
Mobility Function	Forward, backward, turn, spin, lateral movement
Drive and Steering Mode	Four-wheel drive and steering
Braking Mode	Fail-safe brake
Driving Speed	Maximum linear speed: 1.5m/s
Turning Speed	Maximum turning speed: 0.5m/s
Suitable Vehicle Weight	2.5 tons
Peak Travel Power	23KW
Guidance Accuracy	±10mm
Stopping Precision	±5mm
Communication Mode	WLAN
Safety Protection	Emergency stop button, safety laser protection, software emergency stop

EQUIPMENT DIMENSIONS

L*W*H	5600mm*2900mm*4800mm
Spin Diameter	6000mm

CHARGER POWER AND BATTERY

Charger Power	12KW
Battery Capacity	48V lithium iron phosphate battery 315AH
Full Battery Endurance	Approximately 4 hours (full load)
Full Charging Duration	0.5C charging time 2.5 hours
Charging Mode	Automatic or manual charging

PARKING SPACE INFORMATION

Car Capacity Specifications	5300mm (L) *1950mm (W) *2050mm (H)
Parking weight	2.5 tons
Height of first deck of parking space	250mm
Height of second deck of parking space	2550mm (single deck SUV)
Parking Space Clear Height	≥4900mm (double-deck SUV)
Aisle Width	≥6000mm

ENVIRONMENTAL REQUIREMENTS

Temperature	-10°C~40°C
Humidity	10%~90%, no condensation
Air	No dust, flammable, explosive, and corrosive gases

GROUND REQUIREMENTS

Recommended grounding practice: C35 concrete + diamond abrasive ground, no hollows in the ground, free of oil stains and water accumulation; The ground load must meet the AGV equipment's load requirements, ensuring no cracking, breaking, or settling during long-term operation of the AGV;

Ground flatness: ≤2mm/m²;

Overall ground plane: ≤3.5%; Local plane: ≤1%;

Ground expansion joint width: ≤6mm;

Ground friction coefficient: ≥0.6; Ground bearing capacity: 3000KG.

YANTAI PORT AGV

Unmanned Dark Parking Lot The First Port AGV Parking Lot Put into Operation in China

The Yantai Port of Shandong Port Group represents the first domestic intelligent three-dimensional parking system tailored for commercial vehicles at a port. Unlike similar products, this project involves a customized three-dimensional parking system, signifying a new venture for intelligent parking system in the logistics sector. Covering 13,000 square meters, it accommodates over 3,000 commercial vehicles. The project comprises external all-terrain AGV berthing and internal AGV stacking equipment. These all-terrain AGVs enable rapid berthing of commercial vehicles and streamline rapid stacking by the internal AGV stacker.

This project's stacking equipment, more commonly used, utilizes a longitudinal design to optimize economic efficiency and equipment operation speed, enhancing stacking capacity by over three times compared to flat surface designs. Coupled with the world's first commercial vehicle transfer automation technology, it achieves intelligent sorting, scheduling, and transfer. At the same time, the intelligent three-dimensional parking system for commercial vehicles utilizes the roof and other spaces to install 15,000 square meters of photovoltaic equipment, achieving full self-sufficiency in electricity and zero carbon emissions.



INDUSTRY
POSITION&HONORS

AGV CHONGQING AUTO EXPO COMPLEX

Chongqing CCCC Smart Parking Auto Expo Complex is based on citizens' parking and related activity needs, constructs a "parking plus" consumption activity scene, and creates a "Chongqing living room and neighborhood gathering place."

Located on the east side of the intersection of Liuyun Road and Longqing Road in Liangjiang New District, Chongqing, it addresses regional parking difficulties and advances the green, low-carbon transition of energy. Liangjiang New District is the main hub for Chongqing's high-quality development.

Xizi iParking has developed a zero-carbon smart parking complex, establishing a new urban static traffic regulator that is ecological, technologically advanced, modern, energy-efficient, and environmentally friendly, laying a strong foundation for a modern and livable city.

The Smart Parking Auto Expo Complex integrates planar motion (PPY), parking robot (AGV), and other three-dimensional parking technologies to maximize space parking efficiency and effectively facilitate vehicle storage and retrieval.



TELOK KURAU PROJECT

AGV

SINGAPORE



KIM YAM ROAD

AGV

SINGAPORE



8 LOR 25A GEYLANG PROJECT

AGV

SINGAPORE



MP820

AGV

MALAYSIA

