



## Main product introduction

Logistics Automation  
AGV/AMR  
Micro Fulfillment Center  
Parking Robot



AGV for logistic, Smart solution specialized company

### PEGAS-T6-800 PRODUCT SPECIFICATION

Size : L980xW680xH245mm	Operation mode : QR, Inertial Guidance
Weight : 160kg	Full charge time : ≤1.5h
Speed : 2.2m/s	Charging : Automatic, Manual
Load capacity : 800 kg	Continuous running time : ≥1.5h
Battery volume : 27AH	Obstacle avoidance : traffic control, lidar, bumper SW
Stop Accuracy : ±10mm	Voltage : DC 48V
Communication method : WIFI 2.4G/5G	Lifting height : 60mm
Rotation accuracy : 360°/ 1°	Charge & Discharge time : 80% DOD 20,000



**MAXIMUM SPEED**  
2.2m/s



**SHOCK LOAD**  
4,900kg/m<sup>2</sup>



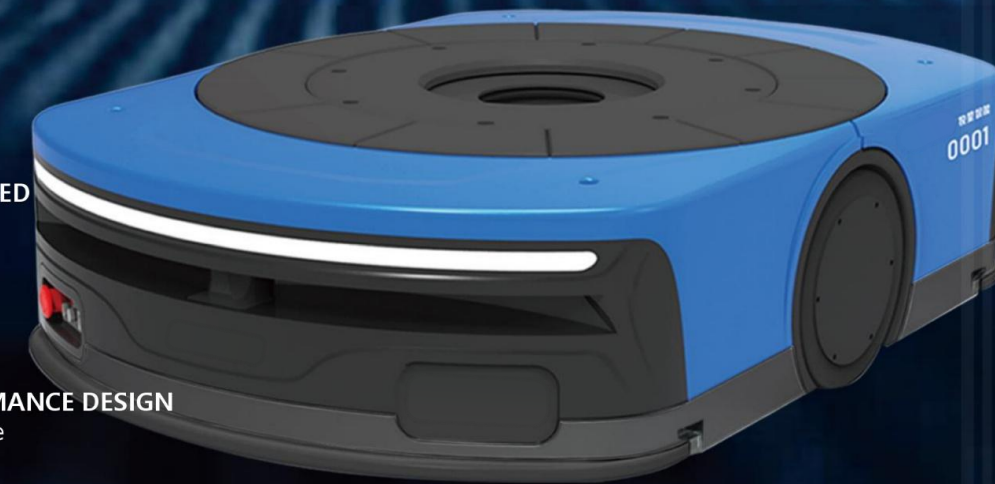
**HIGH PERFORMANCE DESIGN**  
Aluminum frame



**DURABILITY**  
Battery operating temperature : -20°C~65°C



**COMPACT**  
Overall width 980mm  
Overall height 245mm



# Q1 – 800 (AGV)

-  Intelligent scheduling system and super computing power
-  Highly compatible and customized
-  High-performance design
-  Multiple safety protection devices



Coming soon



## QUICK




Q1-800 Product Parameters

Size :	L915 x W690 x H293mm	Weight :	200kg
Speed :	1.8m/s	Load Capacity :	800kg
Obstacle Avoidance :	LADAR	Stop Accuracy :	±10mm
Communication Mode :	WIFI/5G (LG U+ /SKT)	Rotation Accuracy :	360°, ±0.5°
Battery Volume :	26.4Ah <input type="checkbox"/>	Navigation :	Visual 2D Code + Inertial
Full Charge Time :	≤1.5h	Charging :	Automatic, Manual charging
Battery Life Time :	≥6h	Protection :	Traffic, Laser, Edge
AGV Charging Proportion :	1:6 <input type="checkbox"/>	Voltage :	48V
Lifting Height :	60mm	Charge and Discharge Times :	20,000

(Optional)



# T5-800/1200

-  Intelligent scheduling system and super computing power
-  Highly compatible and customized
-  High-performance design
-  Multiple safety protection devices

## PEGAS




T5-800 Product Parameters

Size :	L920 x W690 x H280mm	Weight :	200kg
Speed :	1.8m/s	Load Capacity :	800kg
Obstacle Avoidance :	LADAR	Stop Accuracy :	±10mm
Communication Mode :	WIFI	Rotation Accuracy :	360°, ±0.5°
Battery Volume :	26.4Ah <input type="checkbox"/>	Navigation :	Visual 2D Code + Inertial
Full Charge Time :	≤1.5h <input type="checkbox"/>	Charging :	Automatic, Manual charging
Battery Life Time :	≥6h	Protection :	Traffic, Laser, Edge
AGV Charging Proportion :	1:6	Voltage :	48V
Lifting Height :	60mm	Charge and Discharge Times :	20,000

(Optional)



## F-15\*2

-  Intelligent scheduling system and super computing power
-  High-performance design
-  Multiple safety protection devices



## SORTER AGV

F-15\*2 Product Parameters

Size :	L760 x W480 x H1000 L760 x W480 x H700	Weight :	115kg
Speed :	2.0m/s	Load Capacity :	1x30kg or 2x15kg
Turning ability :	Turning radius 0m, accuracy±0.2°	Stop Accuracy :	±10mm
Obstacle Avoidance :	Infrared + Ultrasound	Navigation :	Visual 2D Code + Inertial
Communication Mode :	WIFI	Protection :	Infrared, Ultrasound, Control
AGV Charging Proportion :	1:7 ○	Charging :	Automatic, Manual charging
Battery Volume :	16.5Ah ○	Voltage :	48V
Full Charge Time :	≤1.5h	Charge and Discharge Times :	20,000
Battery Life Time :	≥5h		

○ (Optional)

## Mini Load AGV

-  **High-density storage**  
can be stored and released a small tote box
-  **High durability equipment**  
chain up-down structure
-  **High light weight design**  
aluminum frame
-  **Low center of gravity design**  
goods in high places can be stored and released without shaking




## MINI LOAD AGV

MINI LOAD AGV Product Parameters

Size :	L1600 x W900 x H5000mm	Operation mode :	QR code, Inertial Guidance
Speed :	1.2m/s	Communication Mode :	WIFI / 5G
Weight :	480kg	Charging :	Automatic, Manual charging
Handling Load	30kg	Voltage :	48V
Load Capacity :	30kg x 6ea	Battery Volume :	49.5Ah
Rotation Accuracy :	360°, 1°	Full Charge Time :	≤2h
Stop Accuracy :	10mm	Charge and Discharge Times :	80% DOD 20,000
Up-Down Speed	0.5m/s		



# SRX14-Auto

-  Intelligent scheduling system and super computing power
-  Multiple sensor protection, ensuring safety and reliability
-  International famous brand guarantee

# Omni Sorter

-  Highly scalable in both size and throughput
-  Automatic barcode scanning and delivery of each item
-  Easily integrated with WMS system
-  Configurable LED Pack-to-Light system
-  Integrated with Omni Storage System to support complex Order workflow



## AUTONOMOUS FORKLIFT

SRX14-AUTO Product Parameters

Drive Unit :	Elec-48V	Lift Height :	10500mm
Load Capacity / Rated Load :	1400kg	Turning Radius :	1620mm
Load center Distance :	600mm	Lowering Speed Laden/Unladen :	0.55m/s
Load Center Distance, Centre of Drive Axle to Fork Face 1	314mm	Reach Speed, laden/Unladen :	0.2m/s
Wheelbase :	1410mm	Battery acc .to DIN43531/35/36 A,B,C, no	DIN 43531A
Service Weight Including Battery :	3280kg	Battery Voltage, Nominal Capacity	48V 465
Tire Size, Front :	Ø 343 x 114	Type of Drive Control	Mosfet Inverter
Tire Size, Rear :	Ø 285 x 100	Operating Pressure for Attachments :	190bar
Mast/Fork Carriage Tilt Forward/Backward 2	3/4 deg.	Sound Level, Driver's Ear According to DIN 12053	67dB(A)

## AUTO RE-BIN

Omni Sorter Product Parameters

Size :	L10 x W2 x H2.2m	Destinations :	200
Destination Size :	L450 x W350 x H140mm	Robots :	5-30
Payload :	Up to 5kg	Item Size :	L380 x W310 x H200mm
Throughput :	1000-1800 pcs/hr	Storage :	Customizable with top or Five-side scanning of Bar-code or QR code
	Customizable with number Of robots and induction system		

# AGV Management System (RCS/WCS)

## RCS FEATURES

Web-based map editing	Web monitoring	Support HTML5	AGV control
Traffic control	Active route setting	Multiple simultaneous AGV control	Route optimization
BMS system	Classification of workgroups	Order monitoring	KPI indicators
Fool proof	Interlocking facility status management	Batch control of various type of AGVs	Emergency shutdown
Safe zone setting	Equipment health management	Emergency alert system	Trouble shooting
Order user settings	Various API interface	Command control	Map edit
Language settings	Multi-zone setting	Multi-layer control	Logo edit
Equipment status report	Other brand AGV control	Control of over 1000 AGVs	User settings
RCS simulation	Cloud/local selectable	Globalization	UX-based

Screen customization



Improving on-site management skills

Simulation



Multifunction

Safe zone setting



Flexible charging method

## Omni Storage Pro



High density storage-retrieval system with totes and pallets



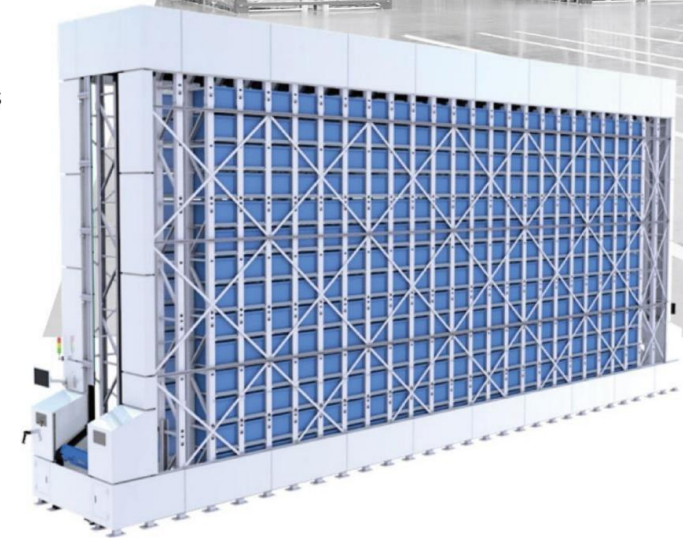
Errorless goods-to-person picking method



Real-time optimization on the layout by the frequency of retrievals



Accurate material management, Dynamic inventory adjustment Without manual check







## AUTO RE-BATCH

### Omni Storage Product Parameters

Height :	4.5 – 12m	Width :	2.5m
Length :	15 – 40m	Robots :	Up to 50 for single aisle
Payload :	Up to 30kg	I/O Stations	1 or 2 at sides or ends
Throughput :	Up to 400 totes/hr at each station Depending on the number of robots	Storage :	Up to 8000 storage locations per aisle Support trays and totes L600 x W400mm with variable height



## Omni Storage Mini

-  Container size autonomous module
-  Plug-and-play mode, deployed in hours
-  High mobility
-  Supporting input/output stations at two sides or ends

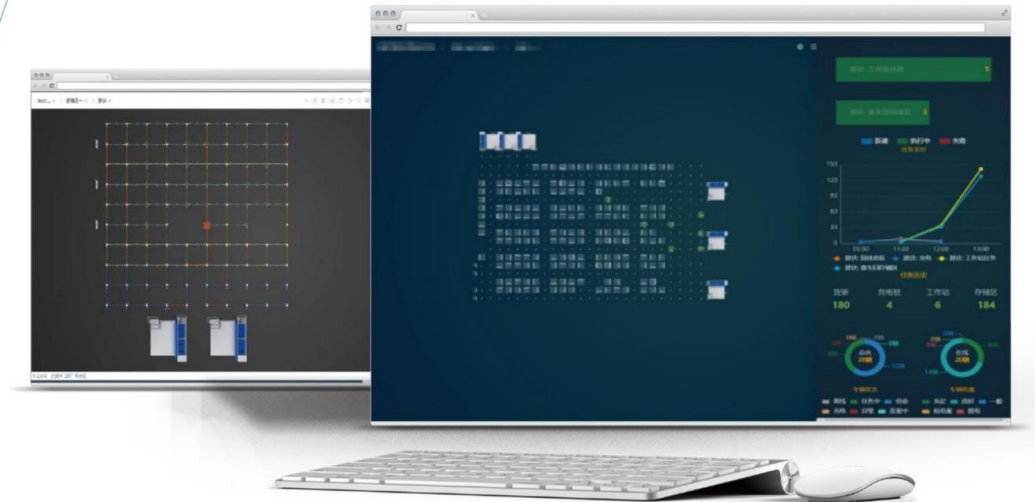
## SMART WAREHOUSE (20PT/40PT CONTAINER TYPE)

Omni Storage Mini Product Parameters

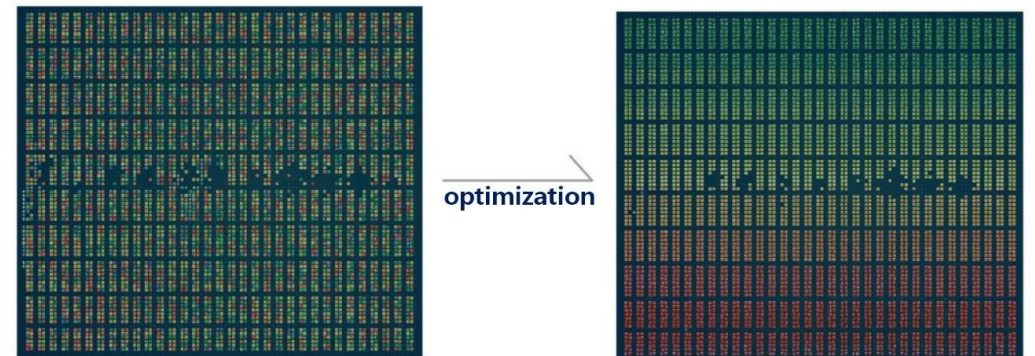
Height :	2.5 – 4.5m	Width :	2.5m
Length :	4 – 12m	Robots :	2 – 15
Payload :	Up to 30kg	I/O Stations	Configurable at sides or ends
Throughput :	150 – 500 totes/hr Depending on the number Of robots	Storage :	Support trays and totes L600 x W400mm with variable height

## Map Set-up (RCS/WCS)

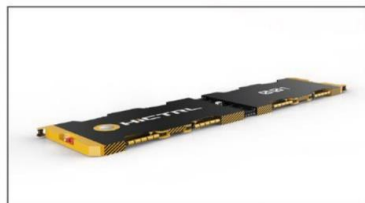
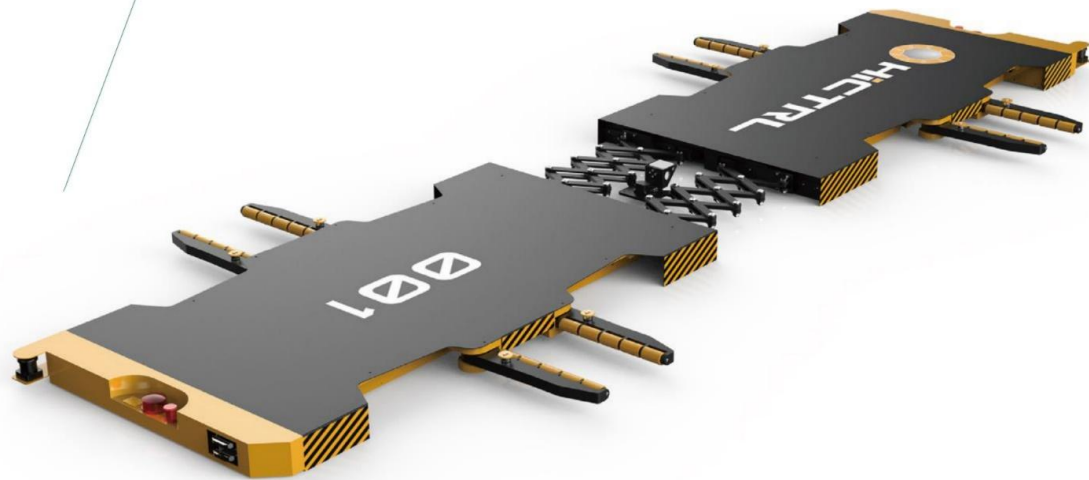
- Charger
- Vehicle Route
- Station
- POD Area
- QR Code
- Obstacle
- Special Area
- Elevator
- Other Area



## POD Usage Frequency Measurement



# Tongs Type Parking Robot



## Product Description

1<sup>st</sup> generation parking robot  
The parking robot can handle vehicles weighing up to 2.5 tons, has a maximum driving speed of 1M per second, and realizes a flexible and intelligent parking lot in conjunction with the parking management system.  
Tongs type parking robot increases parking space efficiency to provide convenient and safe parking



## Environmental Requirements

Temperature :	-10° ~ 40°
Humidity :	30% ~ 95%
Ground activity	< 3mm/m <sup>2</sup>
Ground unevenness	< 2mm
Gap space	< 8mm
friction factor	> 0.65
Gradeability	< 6mm
The width of the passage	> 2.5 ~ > 5.7m
Ground concrete strength	≥ C 35

# Plate Type Parking Robot



## Product Description

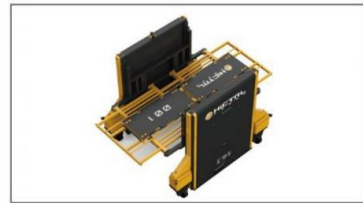
It is 3rd generation surface plate shape parking machine.  
It's usually used by parking, or vehicle transporting in factory.  
Parking robot can move to all directions because of its starting system 'Mecanum wheel' that operates all eight wheels. Moving speed is fast. There is no shaking when it moves, and the power of ground grip is strong because the height of robot is designed low-rise shape.  
The noise of moving is relatively quite, the structure of up-down system being simply and stably more than before by changing from screw-type lifting method to servo motor driving method.  
The power module is lithium ion battery that used for car.  
The stability and using time of battery are got better.  
Parking robot combines 'parking management system' and 'operating system', therefore, its flexibility, parking efficiency, convenience of stored and released are good.



## Environmental Requirements

Temperature :	-10° ~ 40°
Humidity :	30% ~ 95%
Ground activity	< 3mm/m <sup>2</sup>
Ground unevenness	< 2mm
Gap space	< 4mm
friction factor	> 0.65
Gradeability	< 6mm
The width of the passage	> 5.7m
Ground concrete strength	≥ C 36

# Double Decker Type Parking Robot



## Product Description

'The elevating parking robot' is recently developed large parking robot. The vehicle transport shuttle is designed thin form half height, so it can not only carry low body vehicles, but also put in and out with a two-story structure. It is more effectively and economically than general car parking lot, and it can put in and out vehicles more easily than mechanical tower parking lot.



It is more effectively and economically than general car parking lot , and it can put in and out vehicles more easily than mechanical tower parking lot.

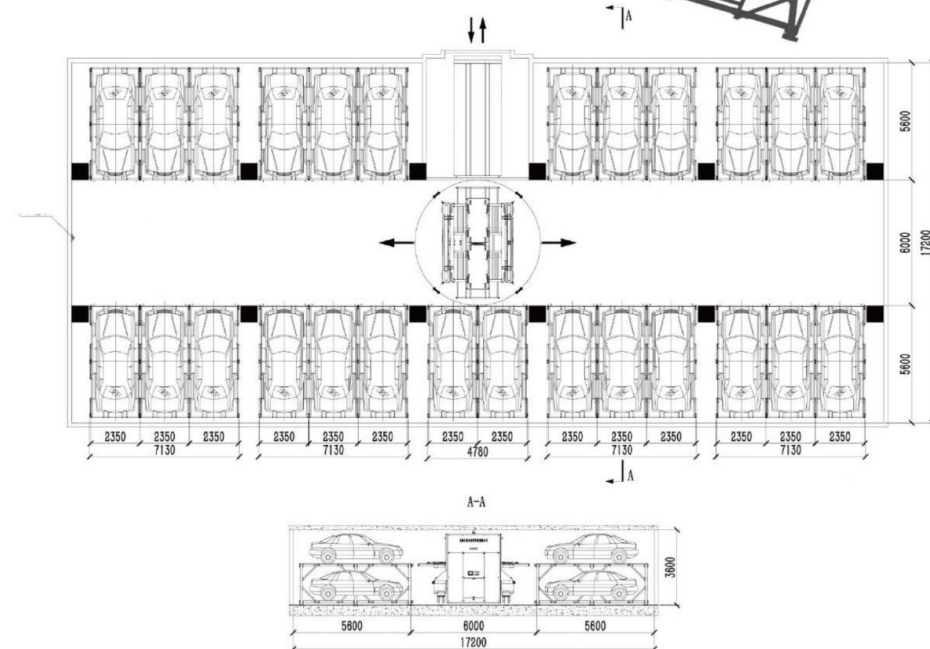
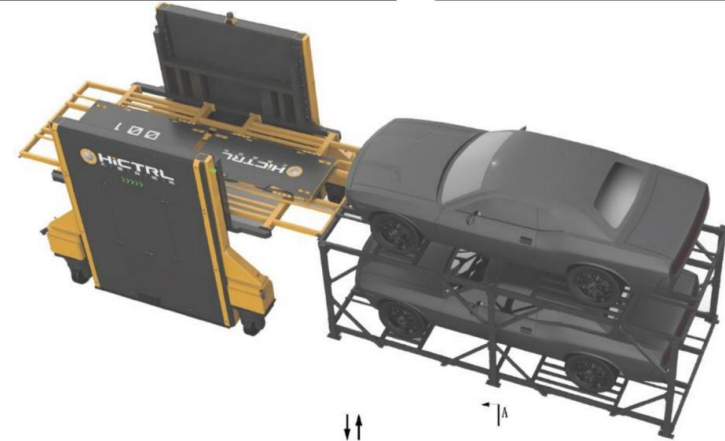
## Environmental Requirements

Temperature :	-10° ~ 40°
Humidity :	30% ~ 75%
Ground activity	< 8mm/m <sup>2</sup>
Ground unevenness	< 5mm
Gap space	< 20mm
friction factor	> 0.5
Gradeability	< 15mm
The width of the passage	> 5.8m
Ground concrete strength	≥ C 35

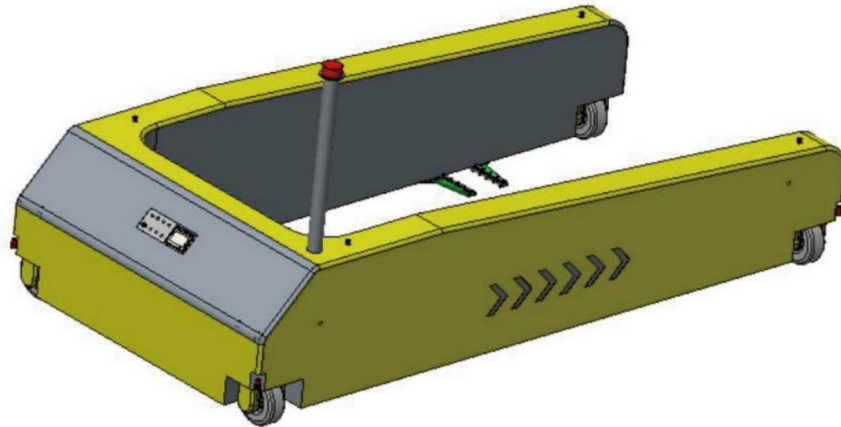
# Double Decker Type Parking Robot

## Double Decker Type Parking Robot Product Parameters

Rated load	2.5 ton	Body weight	3.5 ton
Body length	6,000mm	vehicle towing method	Non-surface plate
Body height	1,400mm	applicable vehicle	Wheelbase 2400~3200mm
Body width (inside)	2,300mm	induction method	Laser method
Body width (outside)	3,000mm	induction precision	±20mm
Rated running speed	1m/s	driving function	Forward, Backward, Horizontal movement
Lifting height	150mm	braking method	Electromagnetic break
Maximum driving time	4h	communication method	WIFI / 5G
Charging method	Automatic + Manual	Ingress Protection	IP 54



# CPR-2500 Outdoor Type Parking Robot



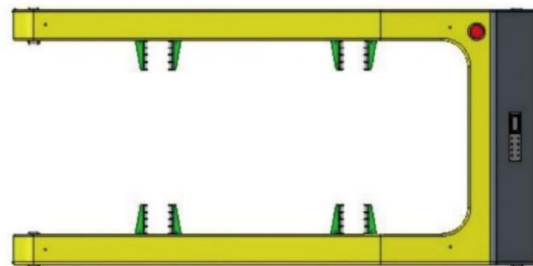
## Outdoor Type Parking Robot

CPR-2500 Product Parameters

Rated load	2.5 ton	Body weight	3.5 ton
Body length	6,000mm	vehicle towing method	Non-surface plate
Body height	1,400mm	applicable vehicle	Wheelbase 2400~3200mm
Body width (inside)	2,300mm	induction method	Laser method
Body width (outside)	3,000mm	induction precision	±20mm
Rated running speed	1m/s	driving function	Forward, Backward, Horizontal movement
Lifting height	150mm	braking method	Electromagnetic break
Maximum driving time	4h	communication method	WIFI / 5G
Charging method	Automatic + Manual	Ingress Protection	IP 54



Option: vehicle alignment



# Storage Facility

## ■ Mini Load



Maximum height :	20m
Maximum running speed :	300m/min
Maximum lift speed :	120m/min

## ■ SRM (Pallet)



Maximum height :	40m
Maximum running speed :	200m/min
Maximum lift speed :	60m/min

## ■ 4 Way Pallet Shuttle



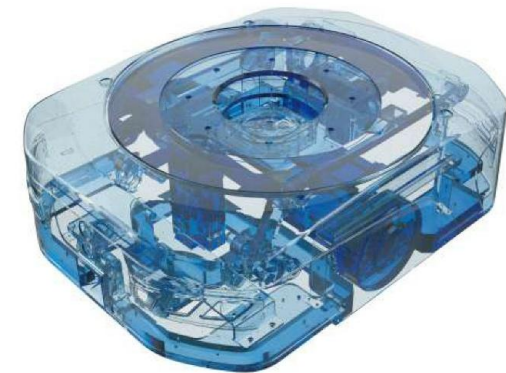
Maximum speed :	1.2m/s
Load Capacity :	1.5 ~ 2.5ton
Travelling accuracy :	2mm

## ■ Multi Shuttle



Load weight :	50kg	Extending speed :	1.2m/s
Speed :	5m/s	Extending acceleration :	
Driving acceleration :	2m/s <sup>2</sup>	Speed :	1.5m/s <sup>2</sup>

# MAJOR CUSTOMERS



MAKE LOGISTICS FORWARD



## PT Buana Inskonsi Jaya

Contact Us  
 ICE Business Park F23-25 Pagedangan, Kec  
 Pagedangan, Kab Tangerang, Banten (15339), Indonesia  
 Sales : (+62) 813 112 113  
 Service : (+62) 21 3973 1528  
 Email : info.buanainkonsi@gmail.com  
 Website : www.buanagroup.com



## 주식회사 케이엔

서울사무소:서울시 중구 광희동1가 퇴계로 307 광희BD 7F  
 본사주소:경남 창원시 구산면 로봰랜드로33 R&D센터 3동 105호  
 Sales:(+82)10-8524-7388  
 창원R&D센터:+82-70-4060-8828  
 Email:sopori6@daum.net  
 Website:www.kncorp.co.kr