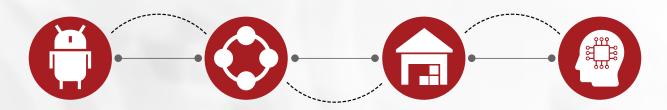




INTELLIGENTSOFTWARE

Warehouse Management System with Intelligent Algorithm



Intelligent Robot

Multi-Robot Intelligent Coordination

Warehouse Management System

Intelligent Algorithm



Positioning & Navigation



Task Assignment



Order Management



Inventory Recommendation



Robot Vision System



Route Planning



Inventory Management



Promotion Recommendation



Interaction

Traffic Control



Product Launch Strategy



Sales Revenue Forecast

SYSTEMARCHITECHTURE









Dynamic Loading

Event Processing

Status Control



INTERACTION















EXTERNAL COMM



RESTful

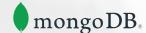




DATA ACCESS



redis

















SHUTTLESPECIFICATIONS



OBSTACLE AVOIDANCE

- Automatic traffic control of multiple vehicle operation.
- Foreign object detection.
- Off position detection.



- Automatic deceleration at route end.
- Elevator pathway fixed stop to prevent falling.
- Shock absorber at route end.



- Storage inventory detection.
- Pallet size and weight checking.





- Safety netting cover at storage route end.
- Main route bottom netting cover.



SMART & SAFE CHARGING

- Battery level alarm system.
- Smart control of Shuttles to get recharge at charging station.
- Fireproof design charging station.



- Operating position correction.
- Automatic pallet position correction.

FEATURE	Model 1	MODEL 2	MODEL 3
Body Dimension	1090L x 1030W x 150H	1090L x 1030W x 126H	1090L x 1030W x 150H
Application Environment	0 ~ 50°C	0 ~ 50°C	-25 ~ 0°C
Driving Mode	Motor Drive	Motor Drive	Motor Drive
Power Source	Lithium Iron Phosphate Battery	Lithium Iron Phosphate Battery	Lithium Iron Phosphate Battery
Linear Drive Motor	1.2 kW	1.2 kW	1.2 kW
Lifting Height (mm)	50	40	50
Allowable Load (kg)	1,000	1,000	1,000
Application Pallet Size	1,000 ~ 1,400	1,000 ~ 1,400	1,000 ~ 1,400
Shuttle Weight (kg)	350 ~ 500	350 ~ 450	350 ~ 500
Battery Capacity	40AH& >8h	40AH& >8h	40AH& >8h
Anti-Collission Detection	Yes	Yes	Yes



REVOLUTIONARYTECHNOLOGYOF SMARTWAREHOUSE

Over the decades, A.S.R.S is a terminology known as the automated warehousing system built with Stacker Crane. With the latest technology invented, A.S.R.S is no longer exclusive term for Stacker Crane warehouse. Introducing shuttle robot smart warehouse, it attributes the latest warehouse technology that has been widely recognized internationally since half a decade ago.

In history, A.S.R.S is meant for considerable large warehouse, those in smaller scale are all left with no opportunities of automation implementation. In the country with majority SMEs' entrepreneurs, there are big numbers of warehouse in relatively smaller scale around. In the era of industrial 4.0, we believe that there will be emerging needs of automated warehouse. The invented shuttle system overcomes nearly all shortages and limitations of conventional A.S.R.S, we are exciting to introduce this technology to all our potential clients.









Manufacturing

3PI

Medical

Cold Storage











gy Furniture