



SYINRO X1

Industrial / Factory AMR
Luggage / Goods Delivery Robot

Company Overview

Welcome to SYINRO.

We engineer and manufacture complete autonomous ecosystems designed to solve the biggest operational bottlenecks in large-scale commercial facilities.

From premium hospitality and fine dining to hospitals, supermarkets, and corporate spaces, rising labor costs and staff fatigue are hurting bottom lines. We provide the physical infrastructure to automate those heavy floor operations.

Engineered and manufactured locally at the Symetrix Innovation facility in Bhiwandi, India, our fleet is divided into four core operational pillars:

-  **Delivery & Logistics (R-Series & X-Series):** Eliminating transit fatigue and handling heavy payloads for F&B, retail, and inventory management.
- Commercial Floor Care (S-Series):** Massive-scale autonomous scrubbers that sweep, mop, and clinically disinfect using UVC light.
-  **Security & Surveillance (P-Series):** 24/7 mobile patrolling and hazard detection.
- Guest Services (H-Series & G-Series):** Direct-to-room delivery and front-of-house concierge guiding.

Imported white-label robots mean waiting weeks for parts. Because we manufacture the TITAN chassis and Syro Neural Core locally, our engineering support and spare parts are always locally available, not oceans away.

Discover the future of floor operations at syinro.com.

Overview of product mix



Product Description



Industrial / Factory AMR

Factory Delivery Robots

Dual laser Flyboat MAX Factory Delivery Robot, with a top lifting height of 10cm, automatic loading and unloading of shelves, a super large load capacity of 100 KG to 500KG, equipped with SYINRO' s self-developed SLAM 2.0 autonomous positioning and navigation system, no need to paste codes, high-precision navigation and positioning, open SDK platform, providing rich API interfaces, supporting secondary development or customized services, meeting different robot development needs.

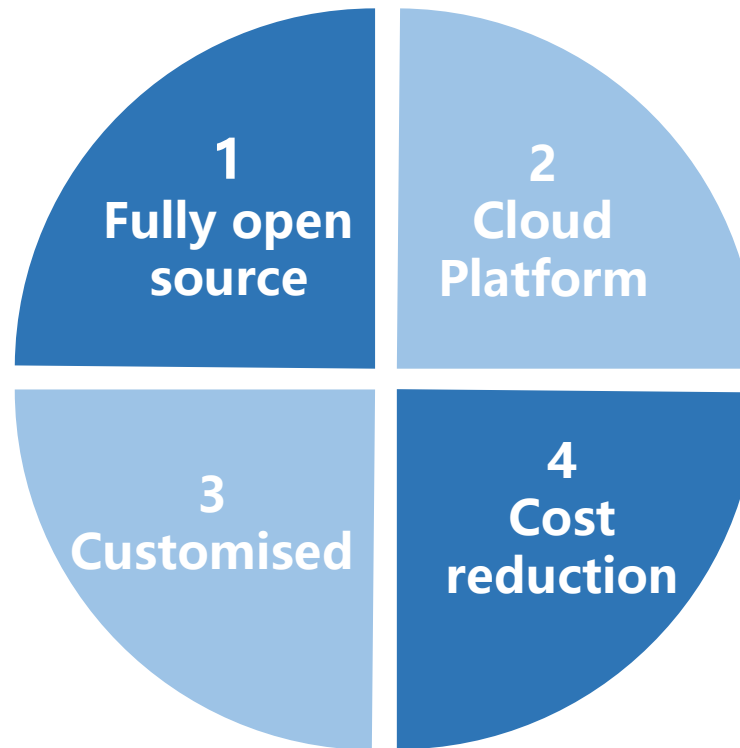
Product Advantages

Open SDK platform

Completely open hardware and software platform, providing API interface, rich technical support documentation, assisting product development throughout.

Customised development

Extremely scalable, allowing users to customise the upper layer of the application architecture according to their actual needs



Cloud Service Platform

Support remote navigation to build a map for deployment, real-time display of the robot chassis operating status, saving time and easy to operate

Reduced development costs

The chassis has a mature and stable navigation solution, helping companies to shorten product development cycles and reduce R&D investment costs

Functional features



01 Upto 300KG large load

Sheet metal structure, 100KG oversized transport, stable and not deformed

02 Active Obstacle Avoidance

3D camera + dual laser, active obstacle avoidance, stable and safer operation

03 Remote navigation deployment

Remote navigation to build maps, easy and fast

04 One-Click Call Robot

Support APP, smartwatch, remote control and other devices to call the robot remotely with one button

05 LiFePO4 battery

38.4V/25Ah battery, safe and environmentally friendly, non-combustible and non-explosive

06. Centralized dispatch system

Dynamic adjustment of robot speed for efficient and stable distribution.

07 Automatic recharge

When the battery is too low, it will return to charge automatically without manual operation.

08 Autonomous call elevator (optional)

Can be linked with the elevator, autonomous call elevator, cross-floor delivery

300KG large load capacity

Super load capacity, suitable for various places

Equipped with integrated wheel motor, with super dual drive, its chassis adopts flatbed truck structure, large platform space, strong load-bearing capacity, can be a maximum load of 300KG, to meet the needs of industry scenarios.



Open SDK platform

Extensive interfaces and scalability

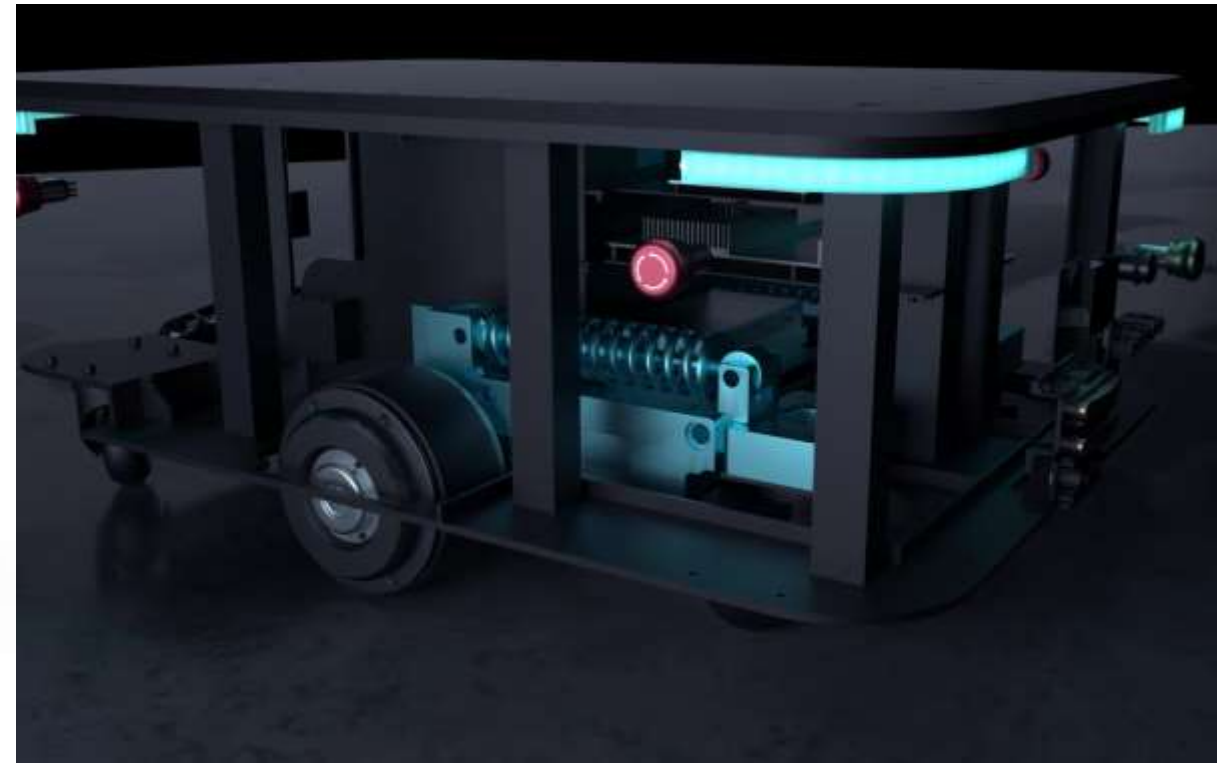
The SDK is open to all users, providing a rich API interface with great scalability, and for customers with certain development capabilities, customised development can be achieved according to the needs of scenario applications, meeting the diverse needs of the market for mobile robot chassis.



Independent suspension structure

Both side drive wheels with shock absorbing suspension system

During the movement of the robot, the posture is smoother, the steering action is small, and there is no tipping, effectively reducing problems such as slipping of items during delivery.



Autonomous obstacle avoidance

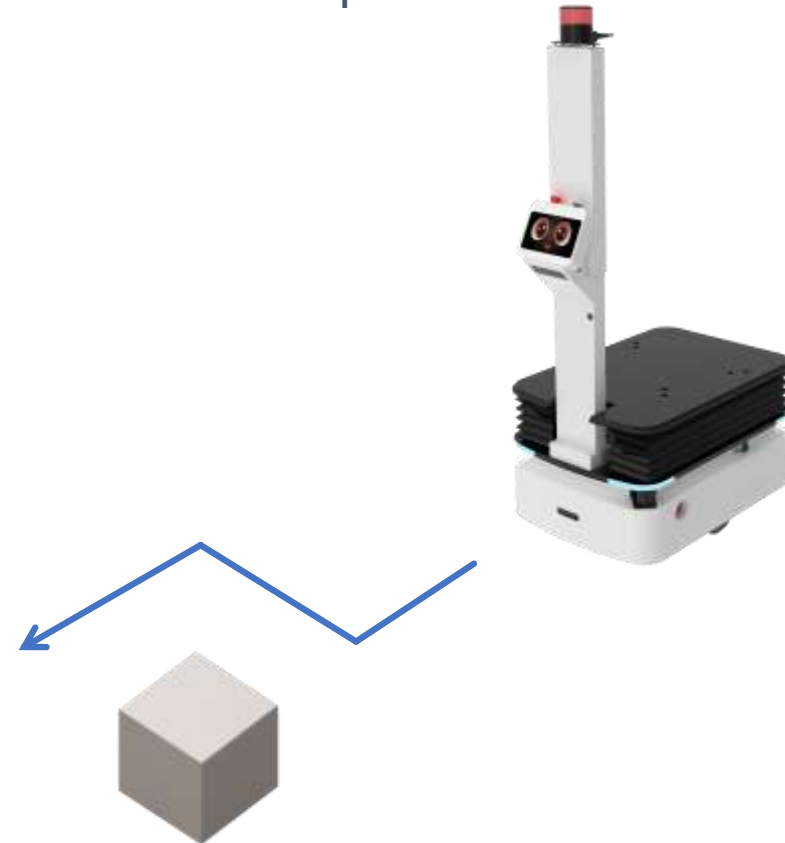
Equipped with Reeman's self-developed SLAM synchronous positioning map building system, high-precision navigation and positioning, Laser radar, 3D cameras, all-round perception of the surrounding environment, efficient and stable operation.

Single line Laser

Detection distance 25m, laser wavelength 905 nm Working area 270°

3D cameras

Vertical angle: 63° Horizontal angle 79°



No need to paste code, accurate positioning



Deployment without posting code

- Robotic navigation deployment without the need to affix codes for auxiliary positioning.
- no need to affix codes to the ceiling and no aesthetic impact on the decoration.
- Customised planning of delivery routes for easier operation.

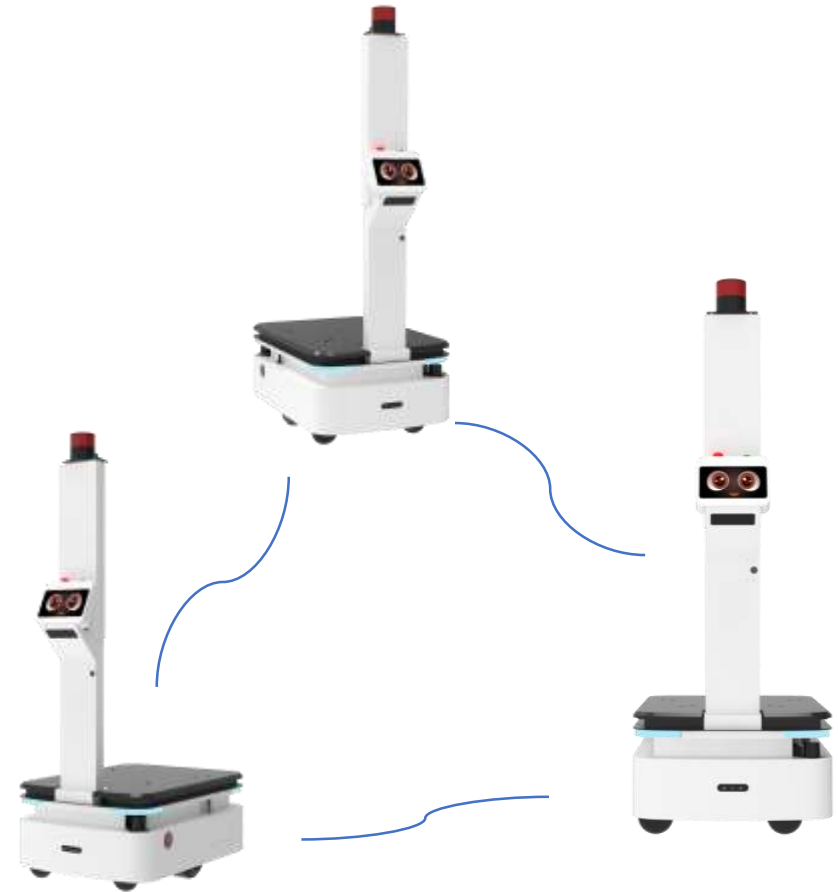
Highly accurate navigation and positioning

- Proven and stable navigation algorithms for precise positioning
- Multi-sensor fusion technology with LIDAR + 3D cameras for real-time sensing of the surroundings

Autonomous dispatch system

Multi-machine collaboration and orderly operation Avoid blocking the "machine"

The built-in scheduling system, with multi-machine collaboration, can dynamically adjust robot avoidance according to task priority to achieve efficient and safe, stable and reliable delivery efficiency.



Autonomous lift rides (Optional)



Supports most lifts on the market, builds maps for multiple floors, takes the lift independently, controls access control and automatically switches maps to complete cross-floor delivery tasks.

Lithium iron phosphate batteries



High temperature resistant, non-combustible and safe enough



Fast charging support for faster charging



Long battery life, discharge cycles Up to 2000 cycles



Green, energy efficient and environmentally friendly

Battery capacity 38.4V/25Ah, high temperature resistant, non-explosive, non-combustible, safe and secure, long battery life, up to 2000 discharge cycles



Heat-resistant



Non-burning



No explosion



Automatic recharging

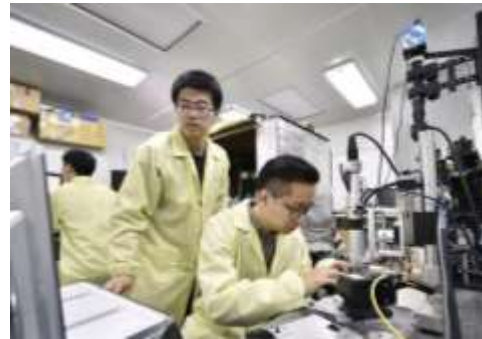
Custom set minimum power value, when the robot's power falls below the minimum value, it automatically returns to charging without manual operation.



Charging_Pile

Wide range of applications

Products are widely used in robot enterprises, scientific research institutions, colleges and universities, robot training institutions, logistics and warehousing, factory workshops, high-speed railway stations, hospitals



Product parameters

Operating systems	Android 11 operating system and above
Whole machine size	791.6mm (L)*560mm (W)*1682 mm (H)
Net weight	65KG
Screen	7 inches (resolution 1024*600)
Travel speed	0.1~1.0m/s
Maximum load capacity	300KG
Charging time	6 hours (with automatic recharge)
Navigation accuracy	±10cm
Battery parameters	Lithium iron phosphate 38.4V/25Ah
Battery life	Full load 8 hours, no load 20 hours
Charging method	Automatic re-charging, direct charging
Motor Drive	5.5 inch wheel motor
Adapter	Input: AC110-240V 50-60HZ Output: 43.2V-5A
Charging Pile Parameters	Overcurrent protection, intelligent power failure, output rated voltage: 43.2V DC Output rated current: 5A





SYINRO

Autonomous Service Robots

HEADQUARTERS & FACTORY

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