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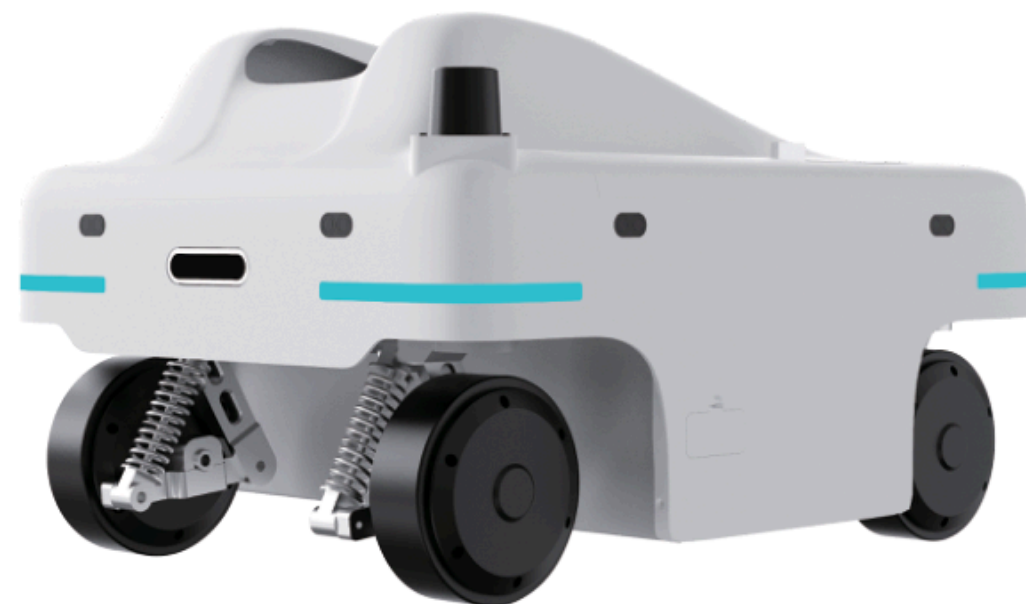
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SAMiR®



悟时创新
WUOSH

SAMiR® 系列

面向未来空间的智能机器人 Intelligent robots for future space

A new generation robotic solution

新一代智能移动机器人解决方案

Next-generation intelligent mobile robot
solution

为您打造专属具身智能机器人

Build your own embodied intelligent robot for you



www.wooshrobot.com

悟时创新

深圳悟时创新科技有限公司

Shenzhen Woosh Innovation Technology Co., Ltd

悟时创新成立2022年10月，以"成为具身智能机器人领域的一站式综合解决方案服务商"为核心战略，形成差异化竞争壁垒：

公司核心能力矩阵：

- ①整机系统设计—从需求定义到方案落地的全周期服务
- ②ODM定制化开发—客户专属产品定义与快速原型
- ③规模化量产制造—从样机到批量交付的品控保障

区别于单一品牌厂商或零部件供应商，悟时创新采用"客户共创"模式，提供从产品定义、研发设计到量产交付的全流程服务，助力合作伙伴缩短产品上市周期，加速市场导入。

核心团队凭借对具身智能、机器人软硬件设计、机器人操作系统（ROS）、机器人导航、物联网技术、数字化技术的行业经验，助力智能制造、仓储物流、商超零售、智慧医疗等领域的物流优化产业升级。

Founded in October 2022, Woosh Innovation has adopted the core strategy of "becoming a one-stop comprehensive solution provider in the field of embodied intelligent robots" to establish a differentiated competitive barrier:
Company Core Competence Matrix:

- ①Complete system design - full-cycle service from demand definition to scheme implementation
- ② ODM Customized Development - Customer-specific Product Definition and Rapid Prototyping
- ③ Large-scale mass production - quality control assurance from prototype to batch delivery

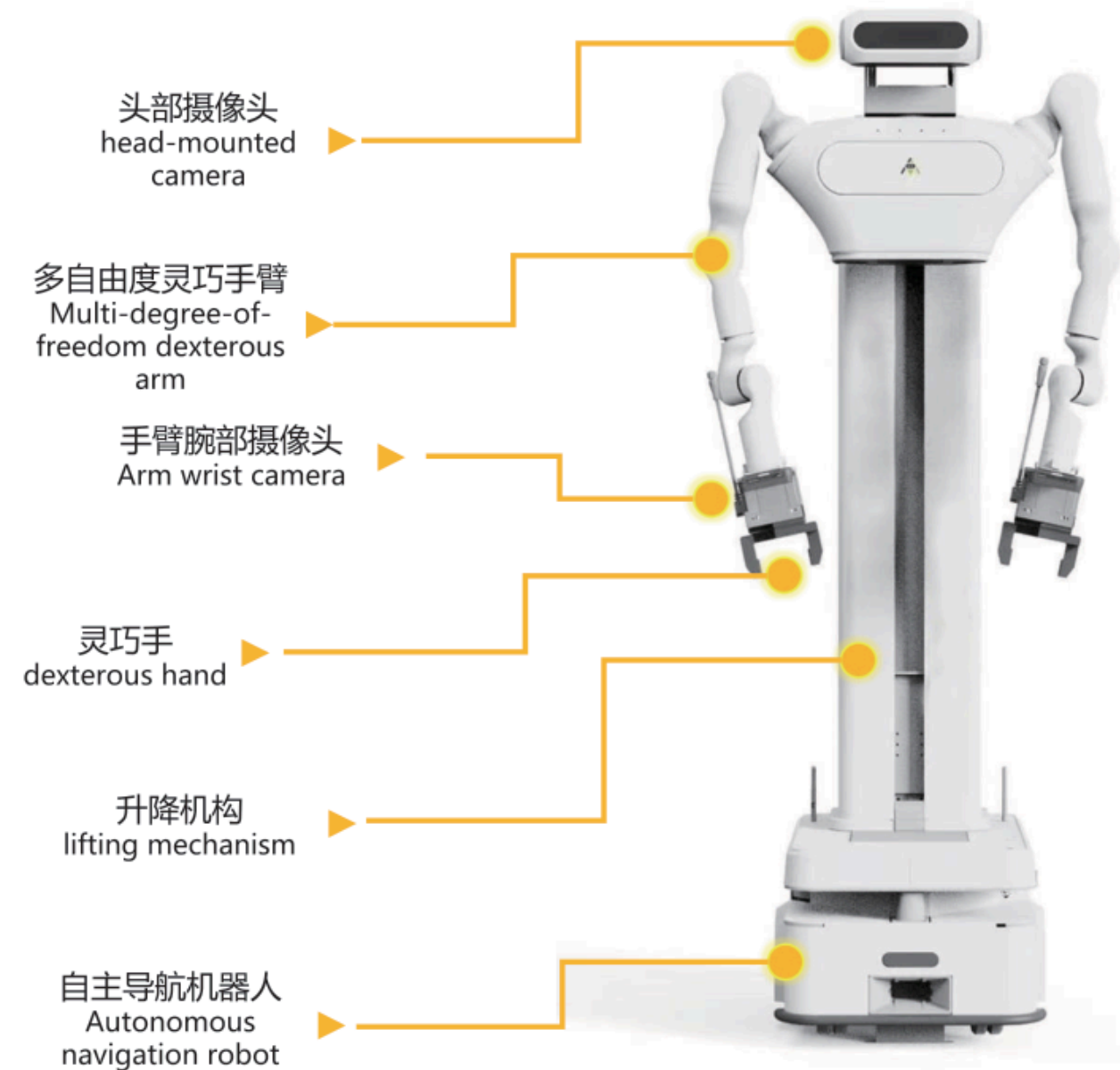
Different from single-brand manufacturers or component suppliers, Woosh Innovation adopts a "customer co-creation" model, providing full-process services from product definition, research and development design to mass production delivery, helping partners shorten product launch cycles and accelerate market introduction. The core team leverages industry experience in embodied intelligence, robot software and hardware design, robot operating system (ROS), robot navigation, Internet of Things technology, and digital technology to facilitate logistics optimization and industrial upgrading in fields such as smart manufacturing, warehousing and logistics, supermarket retail, and smart healthcare.

新一代具身智能

The new generation of embodied intelligence

SAMiR-Ei 具身智能产品在LLM的协助下做出更自然的反应，为用户提供更人性化体验，提供更精准的问题解决方案。卓越的机动性，加上协作机械臂可以协同完成需要更大操作范围或更复杂操作的任务。

SAMiR-Ei embodied intelligence products, assisted by LLM, can respond more naturally, providing users with a more humanized experience and more precise problem solutions. With excellent mobility and a collaborative robotic arm, they can complete tasks that require a larger operational range or more complex operations.



具身智能 SAMiR-Ei

Embodied Intelligence SAMiR-Ei

SAMiR-Ei 能够进行更自然、更智能的对话，并能准确理解复杂的语言结构和工作语境。

SAMiR-Ei is capable of engaging in more natural and intelligent conversations, and can accurately comprehend complex linguistic structures and working contexts.

打造专属您的具身机器人

Build your own embodied robot

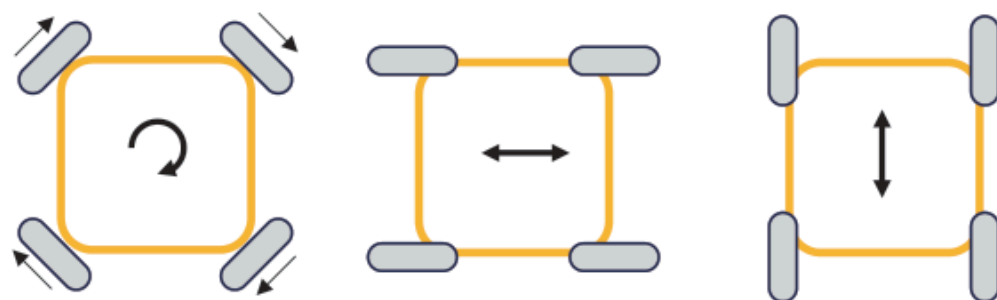


360°全向驱动，赋能具身智能灵巧移动

360-degree omnidirectional drive, empowering embodied intelligence for dexterous movement

SAMiR-Omni 系列产品具备 360°全向移动能力，能轻松实现横向平移、原地转向和复杂运动规划，使其在狭窄空间和运动受限环境中行动自如

The SAMiR-Omni series of products boasts 360° omnidirectional mobility, enabling effortless lateral translation, on-the-spot turning, and intricate motion planning, thus allowing it to move freely in confined spaces and environments where movement is restricted



360°全向驱动，极大提高机器人的机动性
360° omnidirectional drive greatly enhances the mobility of the robot

四轮强力驱动
Four-wheel strong drive

配合高精度升降平台扩展工作空间
Coordinate with high-precision lifting platform to expand working space



360°全向驱动，赋能具身智能灵巧移动

360-degree omnidirectional drive, empowering embodied intelligence for dexterous movement

SAMiR-Omni 系列产品具备 360°全向移动能力，能轻松实现横向平移、原地转向和复杂运动规划，使其在狭窄空间和运动受限环境中行动自如

The SAMiR-Omni series of products boasts 360° omnidirectional mobility, enabling easy lateral translation, on-the-spot turning, and complex motion planning, allowing it to move freely in narrow spaces and environments with limited movement

灵活四轮全向驱动

Flexible four-wheel omnidirectional drive

高精度导航定位

High-precision navigation and positioning

矢量运动控制

Vector motion control

柔性导航避障

Flexible navigation and obstacle avoidance

大电池大负载

Large battery with high load capacity

支持接口ROS2/ROS1/API/SDK

Supports interfaces ROS2

支持专属定制要求

Support exclusive customization requirements



全向驱动具身智能 SAMiR-Omni

Omnidirectional Driving Embodied Intelligence SAMiR-Omni

SAMiR-Omni 是机器人在狭窄环境中需要极致机动性的最佳选择

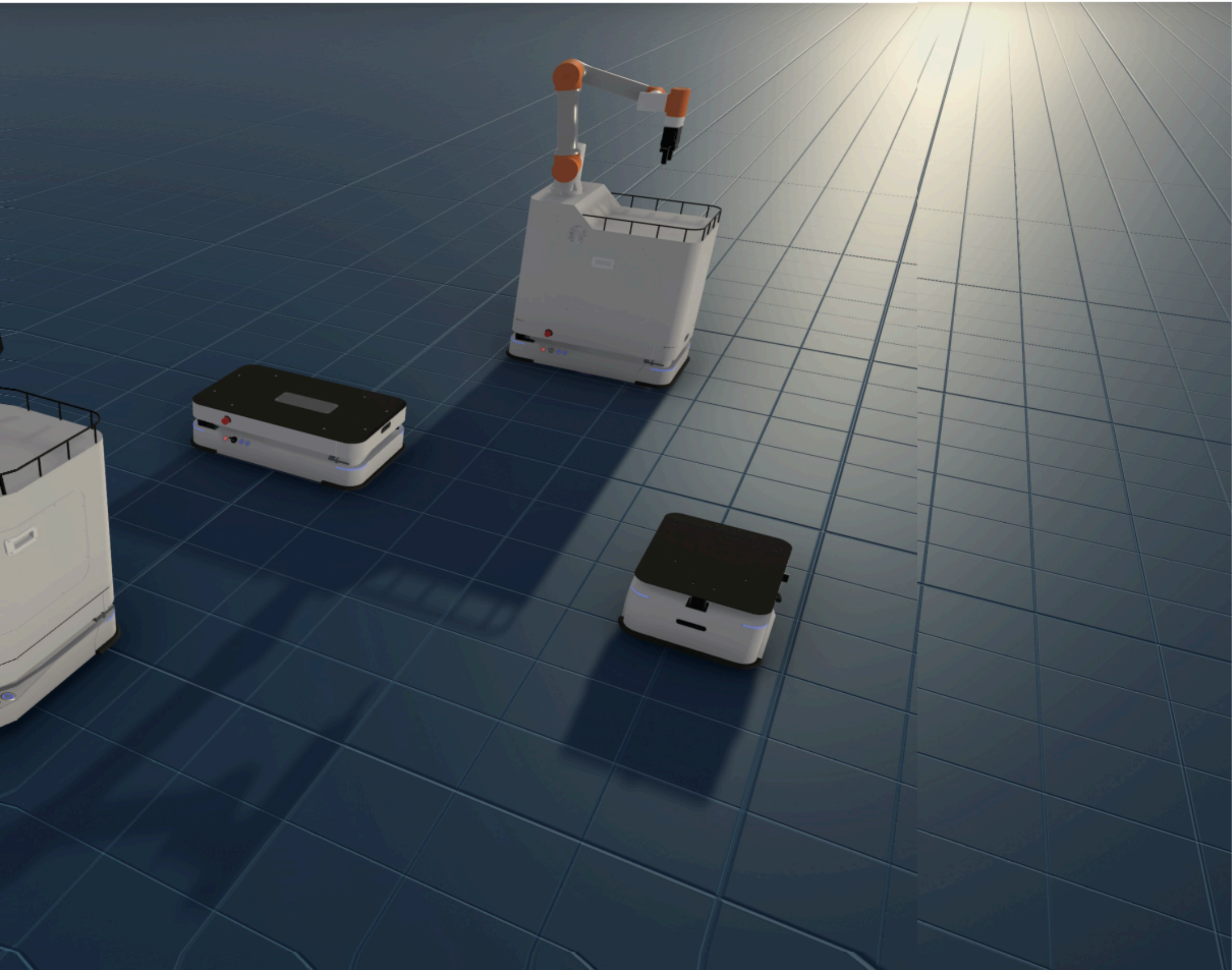
SAMiR-Omni is the optimal choice for robots requiring ultimate maneuverability in confined environments

SAMiR-GO系列重新定义物流工作流程

The SAMiR-GO series redefines logistics workflows

SAMiR-GO 机器人系列专注于优化企业内部的运输和物料转移，赋能物流营运优化。SAMiR-GO提供多样化的产品和创新解决方案，旨在满足中小型制造企业和大型配送中心的智能物流的多样化需求。

The SAMiR-GO robot series focuses on optimizing internal transportation and material transfer within enterprises, empowering logistics operations optimization. SAMiR-GO offers a diverse range of products and innovative solutions, designed to meet the diverse needs of intelligent logistics in small and medium-sized manufacturing enterprises as well as large distribution centers.



灵活部署 Flexible deployment

无需固定导轨或轨道，可在动态变化的环境中自如作业
Without the need for fixed guide rails or tracks, it can operate freely in dynamically changing environments



自主导航 autonomous navigation

凭借先进传感器和 SLAM 技术，实现环境感知、自主导航、智能决策和任务执行
Leveraging advanced sensors and SLAM technology, it achieves environmental perception, autonomous navigation, intelligent decision-making, and task execution



弹性扩展 Elastic Scaling

可根据需求轻松增减机器人数量，灵活应对业务变化
The number of robots can be easily increased or decreased according to demand, flexibly responding to business changes



高效作业 efficient work

及时完成既定任务，显著提高生产效率、降低运营成本
Complete assigned tasks in a timely manner, significantly enhance production efficiency, and reduce operational costs



安全保障 security guarantee

在人机共存环境中安全可靠地运行，具备智能障碍物识别、路径重规划和防碰撞能力
Operate safely and reliably in a human-robot coexistence environment, equipped with intelligent obstacle recognition, path re-planning, and collision avoidance capabilities



人机协作 Human-machine collaboration

可与人类无缝协作，并在紧急或意外状况下响应人类指令，立即停止作业
It can seamlessly collaborate with humans and respond to human instructions in emergency or unexpected situations, immediately stopping its operation



智能补电 Intelligent Replenishment

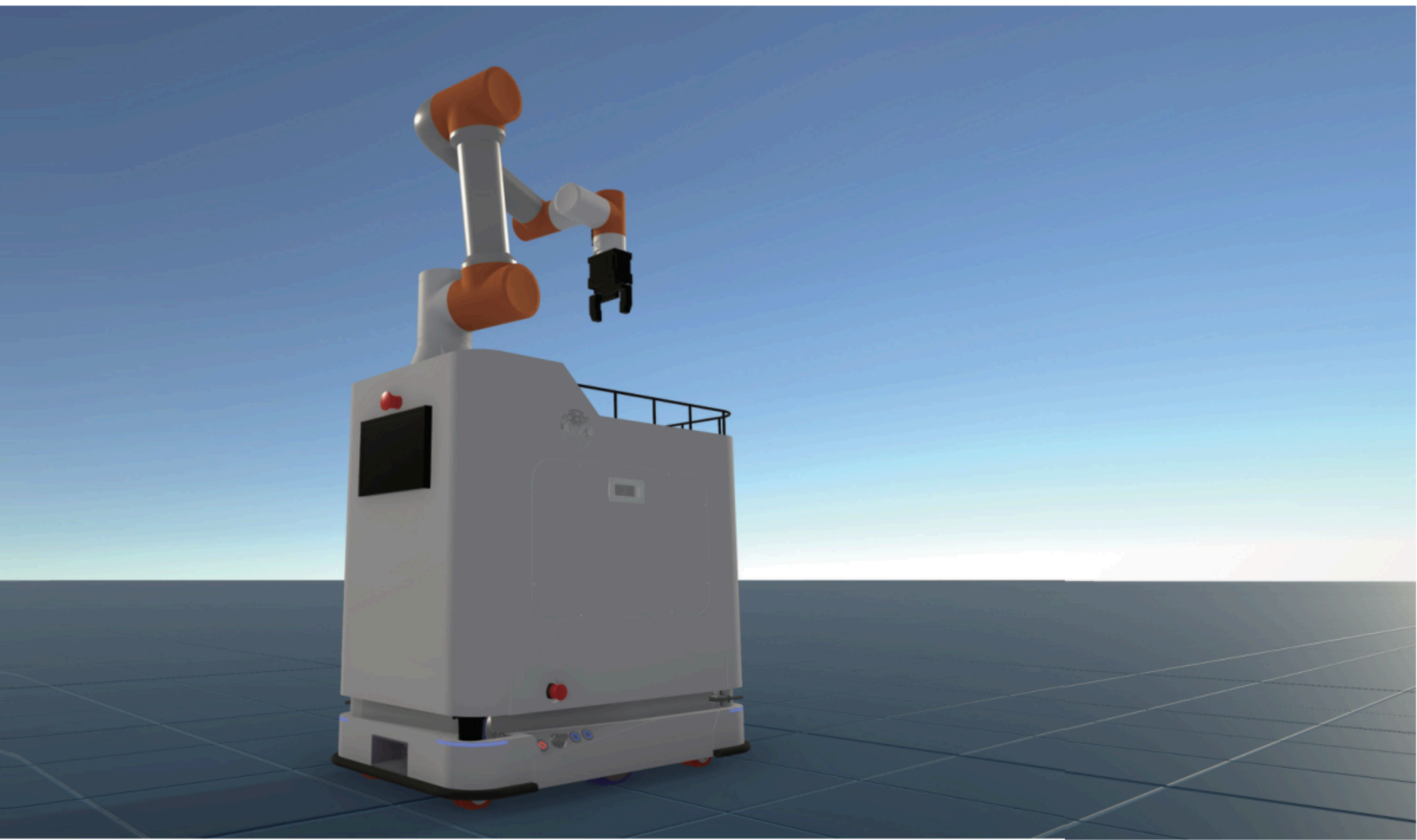
电池电量过低时自动返回充电，优化运营流程，最大限度减少停机
When the battery charge is low, it will automatically return to charging, optimizing operational processes and minimizing downtime

柔性运输与物料搬运

Flexible transportation and material handling

SAMiR-Arm 机器人致力于为物料和精密仪器部件提供灵活、平稳、自主化的远程运输和近程操作方案

The SAMiR-Arm robot is dedicated to providing flexible, stable, and autonomous remote transportation and close-range operation solutions for materials and precision instrument components



复合机器人 SAMiR-Arm

Hybrid robot SAMiR-Arm

SAMiR-ARM 机器人基于 SAMiR-200/300 移动机器人平台，装备 6 轴协作机械臂和多种末端执行器

The SAMiR-ARM robot, based on the SAMiR-200/300 mobile robot platform, is equipped with a 6-axis collaborative robotic arm and various end-effectors



半导体封测应用复合机器人上下料

Semiconductor packaging and testing application: compound robot for loading and unloading



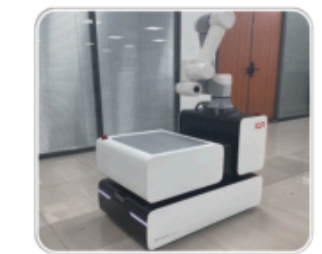
复合机器人支持科学研究

Hybrid robots support scientific research



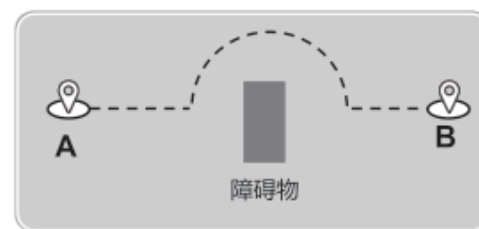
复合机器人支持科创竞赛

Hybrid robots support science and technology innovation competitions



定制个性化复合机器人

Customized personalized composite robot



两点间及多点间无轨自主导航
Trackless autonomous navigation
between two points and among
multiple points



轻易翻越行进路线中的斜坡和减速带
Easily navigate slopes and speed
bumps along the route



自动充电
Automatic charging



自动定位升举
Automatic positioning and
lifting



前后激光雷达全方位安全防护
Comprehensive safety protection
for front and rear lidar systems



高负载，强劲动力
High load capacity,
robust power



多机协作
multi-machine collaboration



教育版开源，支持ROS1/ROS2/API/SDK，支持二次开发

The educational version is open-source, supports
ROS1/ROS2/API/SDK, and allows for secondary development



RGB相机、深度相机、激光雷达支持定制化建图与导航
RGB cameras, depth cameras, and lidar support customized
mapping and navigation



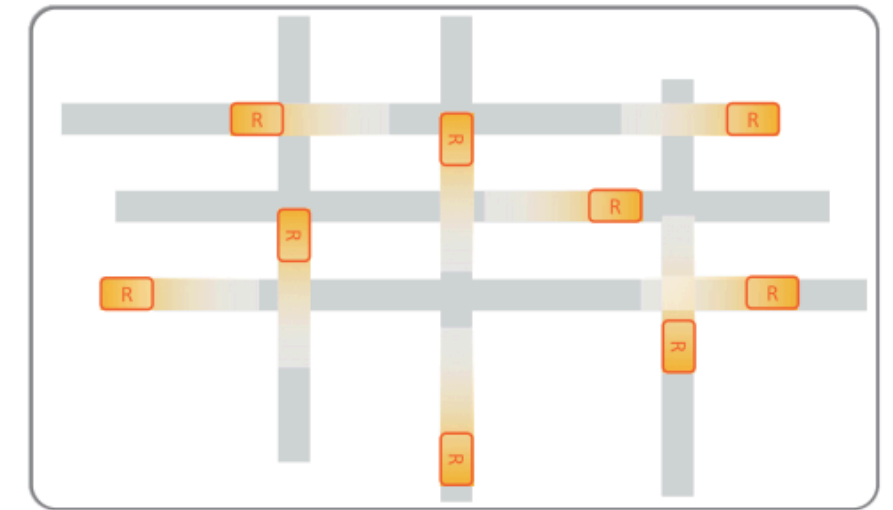
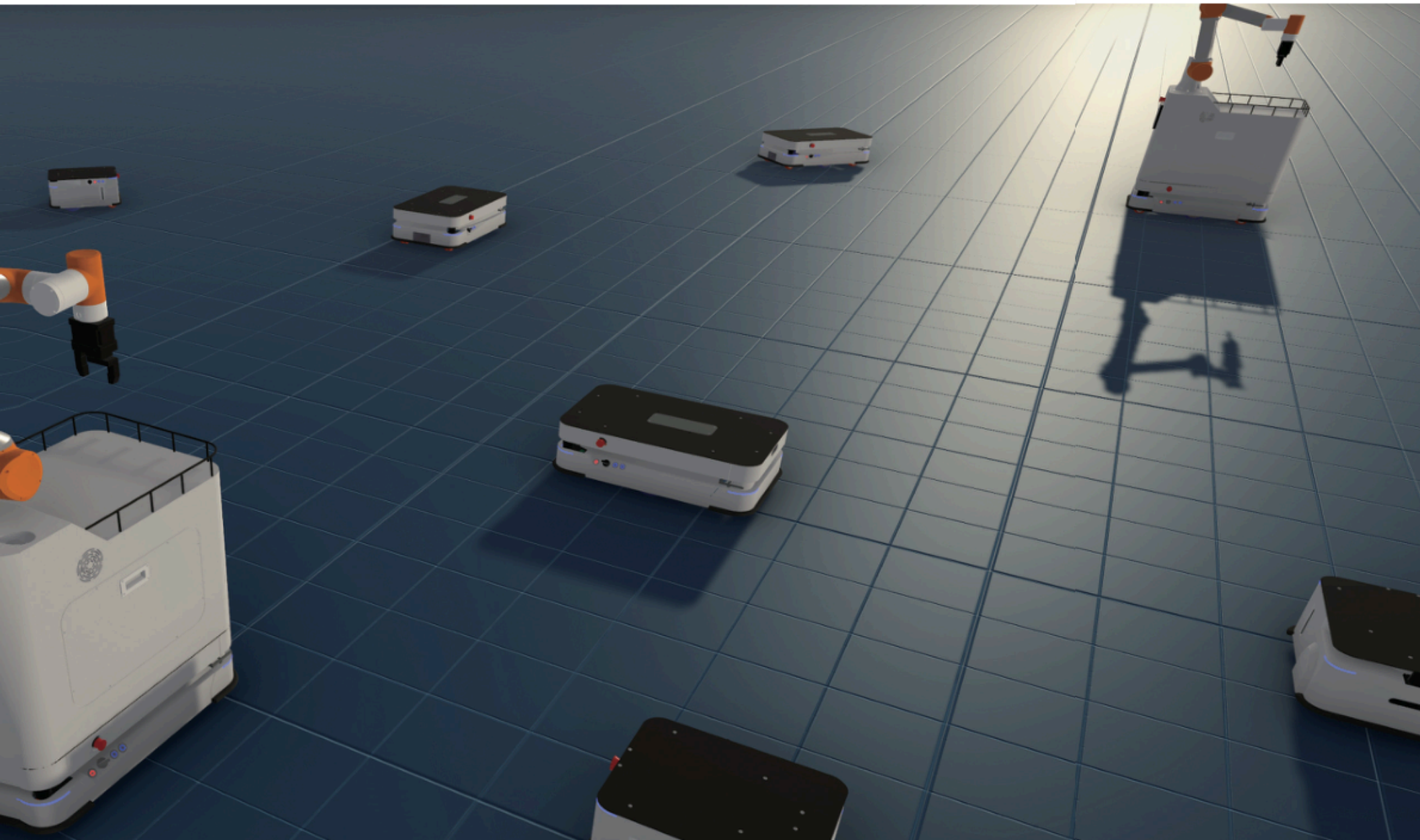
支持创客实践、科创项目、国家级竞赛
Support maker practice, science and technology innovation
projects, and national competitions

智能多机器人协同作业

Intelligent multi-robot collaborative operation

SAMiR-SWARM 机器人集群系统能够协调多达 100 台 SAMiR 系列机器人，在工厂或仓库环境中实现智能化的工作流程管理

The SAMiR-SWARM robot swarm system is capable of coordinating up to 100 SAMiR series robots, enabling intelligent workflow management in factory or warehouse environments



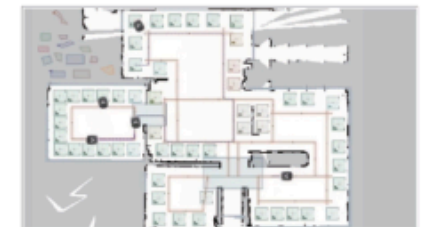
自主移动，互联互通，自主路径规划，自动任务调度

Autonomous movement, interconnection, autonomous path planning, automatic task scheduling



多机协作，自主安全避让

Multi-robot collaboration, autonomous safe avoidance



仿真测试，调度与部署

Simulation testing, scheduling, and deployment

SAMiR-SWARM

机器人集群 robot swarm

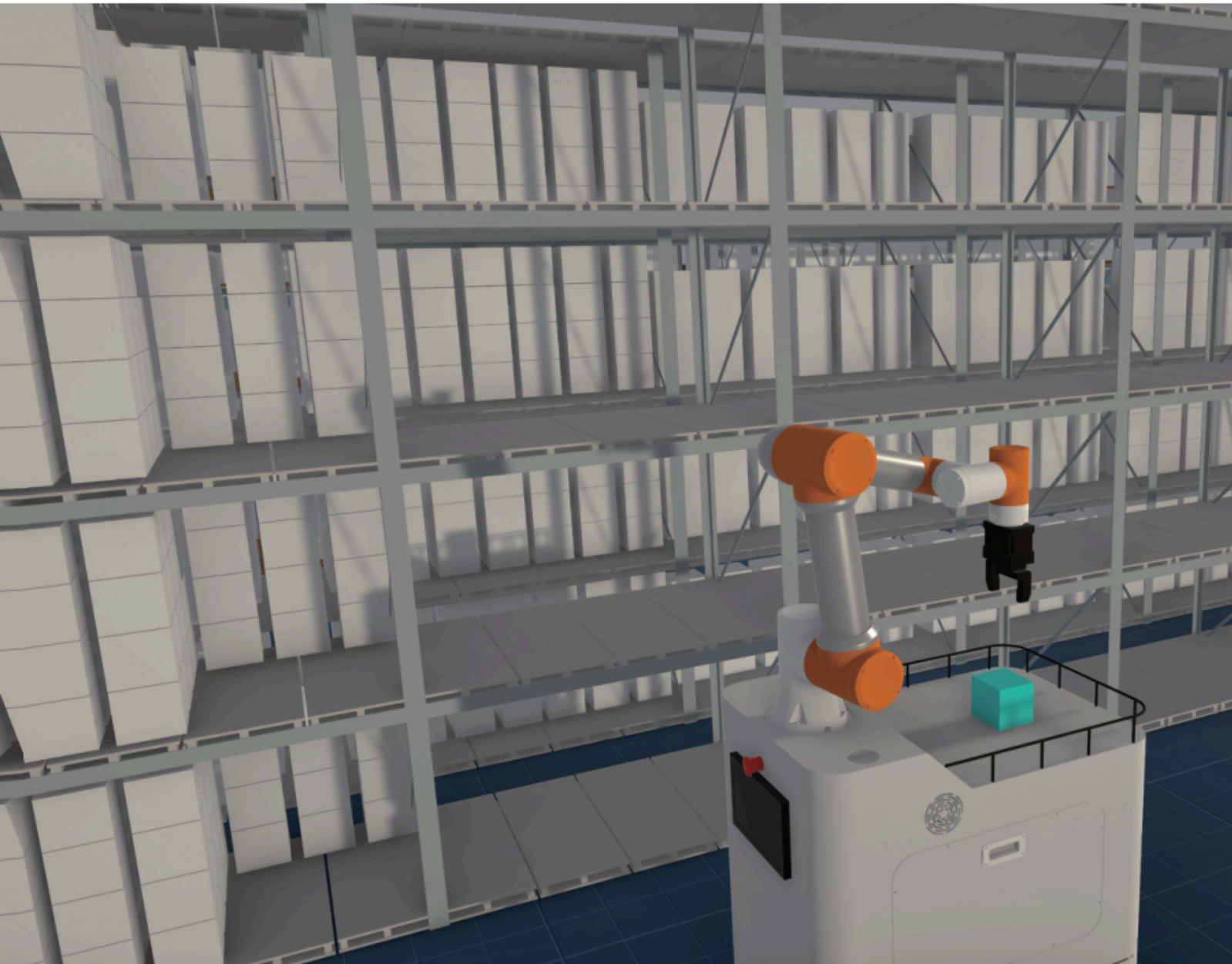
SAMiR-SWARM 平台使得机器人集群的管理、交通优化、地图构建和任务分配变得简单高效。用户可以通过直观的图形界面和仿真环境进行可视化工作流程设计和配置。

The SAMiR-SWARM platform simplifies and enhances the management of robot swarms, traffic optimization, map building, and task allocation. Users can design and configure workflows visually through an intuitive graphical interface and simulation environment.

借助大语言模型实现自然的人机协作

Achieve natural human-computer collaboration with the help of large language models

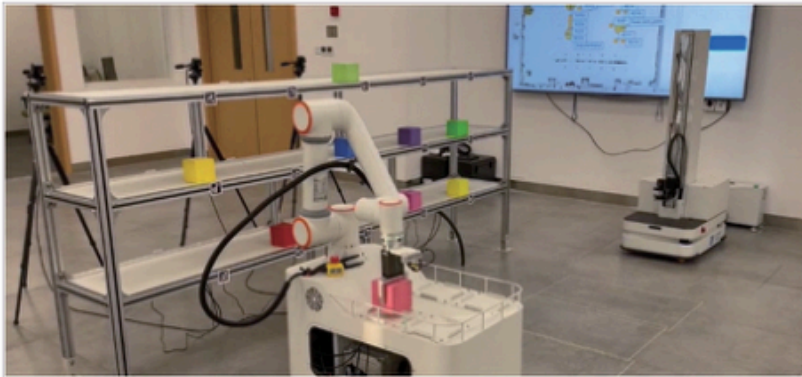
SAMiR-LLM 平台通过集成大型语言模型 (LLM)，实现了更直观、更流畅的人机协作体验。
The SAMiR-LLM platform achieves a more intuitive and smoother human-machine collaboration experience by integrating large language models (LLM).



SAMiR-LLM 大模型驱动机器人操作

Large model-driven robot operation

SAMiR-LLM 可以让用户像与人类交流一样，使用自然语言向 SAMiR-LLM 平台发送指令或提问，SAMiR机器人能够准确理解并执行相应的操作任务。
SAMiR-LLM allows users to interact with the SAMiR-LLM platform as if they were communicating with a human, sending instructions or asking questions in natural language. The SAMiR robot can accurately understand and perform the corresponding operational tasks.



预训练的大语言模型(LLM)理解用户自然语言指令，生成执行动作
The pre-trained Large Language Model (LLM) comprehends users' natural language instructions and generates actions to execute

-  请到6号货架
Please go to shelf number 6
-  取出第3列第2排的物品
Take out the item from the second row and the third column
-  将该物品运送到第18号包装工位
Transport this item to Packaging Station No. 18



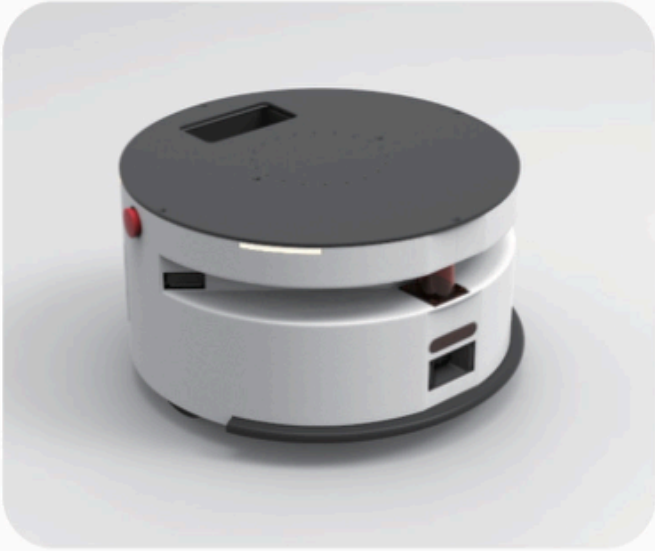
OSH60-DIFF-S

自主移动机器人平台

Autonomous Mobile Robot Platform

智能移动平台 OSH 是一系列适用于室内物流环境的通用安全 AMR（自主移动机器人）平台，采用改进的 SLAM 技术与多传感器融合方案，具备自主导航、深度感知及灵活避障等功能，负载范围覆盖 50kg 至 1200kg，可在生产物流、仓储物流及服务物流等众多场景中实现从轻型至重型货品的自主搬运。该底盘具备极强的拓展性，可集成配送柜、机械臂、传送带等上层机构，广泛应用于 AB 点搬运配送、职教比赛、巡逻安防等场景。同时，OSH 平台面向教学及科研领域，支持机器人、运动控制、导航定位、机器视觉感知避障、激光 SLAM、多传感器融合等技术方向的实践与研究，并可拓展至家政服务、科研机构等具身智能场景应用。

Intelligent Mobile Platform OSH is a series of general-purpose safe AMR (Autonomous Mobile Robot) platforms designed for indoor logistics environments. It adopts improved SLAM technology and multi-sensor fusion, featuring autonomous navigation, depth perception, and flexible obstacle avoidance. With a load capacity ranging from 50 kg to 1,200 kg, it enables autonomous material handling from light to heavy loads across various scenarios including production logistics, warehouse logistics, and service logistics. The platform is highly expandable, allowing integration of various upper mechanisms such as delivery cabinets, robotic arms, and conveyor belts, and is widely applicable in point-to-point material transfer, vocational education competitions, patrol and security scenarios. Additionally, the OSH platform supports teaching and research in fields such as robotics, motion control, navigation and positioning, machine vision perception and obstacle avoidance, laser SLAM, and multi-sensor fusion. It can also be extended to embodied AI scenarios, including home service and research institutions.



产品介绍

Product Overview

OSH60-DIFF-S 是一款通用型自主移动机器人（AMR）平台底盘，设计用于人机混行的室内场景，额定载重 60 kg。采用两轮差速轮电机驱动，单激光雷达 270° 自主导航，支持手动充电和自动对桩充电，适用于工厂、仓库等工业环境。

The OSH60-DIFF-S is a versatile Autonomous Mobile Robot (AMR) platform chassis designed for indoor environments with human-robot coexistence, featuring an 50 kg rated payload. Utilizing two-wheel differential hub motor drive and 270° autonomous navigation via a single LiDAR sensor, it supports both manual charging and automatic docking station charging. Suitable for industrial environments such as factories and warehouses.



丰富集成

Rich Integration

存储箱、机械手、人形上身等
Storage bins, manipulators, humanoid upper bodies



操作简便

Simple Operation

平板、PC、车载交互
Tablet, PC, onboard interaction



智能调度

Intelligent Scheduling

任务分配、动态集群调度
Task allocation, dynamic cluster scheduling



轻松部署

Easy Deployment

激光+视觉融合导航
Laser + vision fusion navigation



稳定安全

Stable and Safe

360°安全探测范围
360° safety detection range



强大续航

Powerful Endurance

自动充电 / 快速换电
Automatic charging / quick battery swap

典型应用：工厂作业、仓储物流、医疗教育、智慧楼宇、4S展厅、数采中心

Typical applications: factory operations, warehousing and logistics, medical education, smart buildings, 4S showrooms, data acquisition centers

机械参数 MECHANICAL PARAMETERS

整机尺寸（直径×高）	Overall Dimensions (D×H)	530 × 300 mm	530 × 300 mm
自重	Net Weight	60 kg	60 kg
额定负载	Rated Payload	60 kg	60 kg
驱动方式	Drive Type	两轮差速	Two-wheel Differential
最小转弯半径	Minimum Turning Radius	原地旋转	Zero-radius turn
悬挂方式	suspension method	弹簧悬挂	spring suspension

运动性能 MOTION PERFORMANCE

额定运行速度	Rated Operating Speed	1.5 m/s	1.5 m/s
导航最大速度	Maximum Navigation Speed	1.2 m/s	1.2 m/s
最大角速度	Maximum Angular Velocity	120 °/s	120 °/s
直行导航通道宽度	Straight Navigation Path Width	730 mm	730 mm
掉头导航通道宽度	U-turn Navigation Path Width	730 mm	730 mm
可越台阶高度	Step Climbing Height	20 mm	20 mm
可越间隙	Gap Crossing Capability	20 mm	20 mm
最大爬坡角度	Maximum Climbing Gradient	< 5%	< 5%

导航定位 NAVIGATION & POSITIONING

导航方式	Navigation Method	激光雷达自主导航	LiDAR Autonomous Navigation
激光雷达	LiDAR	1 个，视野角 270°	1 unit, Field of View 270°
激光雷达安装高度	LiDAR Mounting Height	约 180 mm	Approx. 180 mm
定位精度（全局）	Positioning Accuracy (Global)	±20 mm / ±3°	±20 mm / ±3°
定位精度（VL 标志）	Positioning Accuracy (VL Markers)	±5 mm / ±1°	±5 mm / ±1°
传感器	Sensors	激光雷达 / 深度摄像头 / 超声波 / 防撞触边 / IMU	LiDAR / Depth Camera / Ultrasonic / Collision / IMU

电气参数 ELECTRICAL PARAMETERS

电池电压	Battery Voltage	DC 42~54.7 V	DC 42~54.7 V
电池容量	Battery Capacity	30 Ah	30 Ah
充电时间	Charging Time	约 2 h	Approx. 2 h
续航时间	Operating Time	约 6 h（满载连续运行）	Approx. 6 h (full payload continuous operation)
电池寿命	Battery Cycle Life	1500次循环后，容量≥80%	≥80% capacity after 1500 cycles
充电方式	Charging Method	手动充电 / 自动对桩充电	Manual / Automatic Docking
额定电流	Rated Current	30 A	30 A

通信接口 COMMUNICATION INTERFACES

无线连接	Wireless Connection	Wi-Fi 802.11 a/b/g/n/ac	Wi-Fi 802.11 a/b/g/n/ac
有线连接	Wired Connection	RJ45网口 / USB-A	RJ45 Ethernet Port / USB-A
硬件接口	Hardware Interfaces	DC48V / 急停	DC48V / E-Stop
软件接口	Software Interfaces	ROS / ROS2 / SDK / API	ROS / ROS2 / SDK / API
机身按钮	Body Buttons	模式切换 / 暂停继续 / 复位初始化 / 急停	Mode switch / Pause-resume / Reset / E-Stop

环境要求 ENVIRONMENTAL REQUIREMENTS

工作温度	Operating Temperature	5 ~ 40 °C	5 ~ 40 °C
工作湿度	Operating Humidity	10 ~ 95 %Rh，无冷凝	10 ~ 95 %RH, no condensation
防护等级	Protection Rating	IP20	IP20
地面要求	Floor Requirements	硬质平整地面（无水/油/粉尘）	Hard, flat surfaces (free of water, oil, or dust)



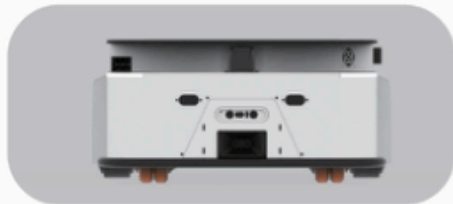
OSH80-DIFF-S

自主移动机器人平台

Autonomous Mobile Robot Platform

智能移动平台 OSH 是一系列适用于室内物流环境的通用安全 AMR（自主移动机器人）平台，采用改进的 SLAM 技术与多传感器融合方案，具备自主导航、深度感知及灵活避障等功能，负载范围覆盖 50kg 至 1200kg，可在生产物流、仓储物流及服务物流等众多场景中实现从轻型至重型货品的自主搬运。该底盘具备极强的拓展性，可集成配送柜、机械臂、传送带等上层机构，广泛应用于 AB 点搬运配送、职教比赛、巡逻安防等场景。同时，OSH 平台面向教学及科研领域，支持机器人、运动控制、导航定位、机器视觉感知避障、激光 SLAM、多传感器融合等技术方向的实践与研究，并可拓展至家政服务、科研机构等具身智能场景应用。

Intelligent Mobile Platform OSH is a series of general-purpose safe AMR (Autonomous Mobile Robot) platforms designed for indoor logistics environments. It adopts improved SLAM technology and multi-sensor fusion, featuring autonomous navigation, depth perception, and flexible obstacle avoidance. With a load capacity ranging from 50 kg to 1,200 kg, it enables autonomous material handling from light to heavy loads across various scenarios including production logistics, warehouse logistics, and service logistics. The platform is highly expandable, allowing integration of various upper mechanisms such as delivery cabinets, robotic arms, and conveyor belts, and is widely applicable in point-to-point material transfer, vocational education competitions, patrol and security scenarios. Additionally, the OSH platform supports teaching and research in fields such as robotics, motion control, navigation and positioning, machine vision perception and obstacle avoidance, laser SLAM, and multi-sensor fusion. It can also be extended to embodied AI scenarios, including home service and research institutions.



产品介绍

Product Overview

OSH80-DIFF-S 是一款通用型自主移动机器人（AMR）平台底盘，设计用于人机混行的室内场景，额定载重 80 kg。采用两轮差速伺服电机驱动，单激光雷达 270° 自主导航，支持手动充电和自动对桩充电，适用于工厂、仓库等工业环境。

The OSH80-DIFF-S is a versatile Autonomous Mobile Robot (AMR) platform chassis designed for indoor environments with human-robot coexistence, featuring an 80 kg rated payload. Utilizing two-wheel differential servo motor drive and 270° autonomous navigation via a single LiDAR sensor, it supports both manual charging and automatic docking station charging. Suitable for industrial environments such as factories and warehouses.

丰富集成

Rich Integration

存储箱、机械手、人形上身等
Storage bins, manipulators, humanoid upper bodies

操作简便

Simple Operation

平板、PC、车载交互
Tablet, PC, onboard interaction

智能调度

Intelligent Scheduling

任务分配、动态集群调度
Task allocation, dynamic cluster scheduling

轻松部署

Easy Deployment

激光+视觉融合导航
Laser + vision fusion navigation

稳定安全

Stable and Safe

360°安全探测范围
360° safety detection range

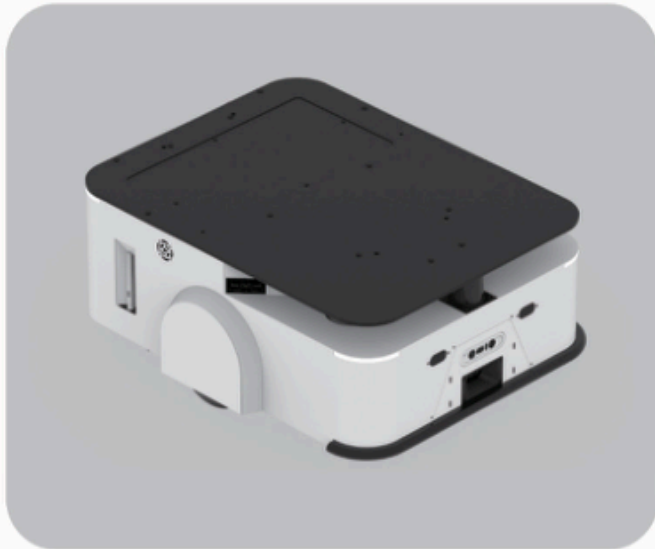
强大续航

Powerful Endurance

自动充电 / 快速换电
Automatic charging / quick battery swap

典型应用：工厂作业、仓储物流、医疗教育、智慧楼宇、4S展厅、数采中心

Typical applications: factory operations, warehousing and logistics, medical education, smart buildings, 4S showrooms, data acquisition centers



机械参数 MECHANICAL PARAMETERS

整机尺寸（长×宽×高）	Overall Dimensions (L×W×H)	600×520 x 243 mm	600×520 x 243 mm
自重	Net Weight	75 kg	75 kg
额定负载	Rated Payload	100 kg	100 kg
驱动方式	Drive Type	两轮差速	Two-wheel Differential
最小转弯半径	Minimum Turning Radius	原地旋转	Zero-radius turn
悬挂方式	suspension method	摆臂悬挂	Swing arm suspension

运动性能 MOTION PERFORMANCE

额定运行速度	Rated Operating Speed	1.5 m/s	1.5 m/s
导航最大速度	Maximum Navigation Speed	1.2 m/s	1.2 m/s
最大角速度	Maximum Angular Velocity	120 °/s	120 °/s
直行导航通道宽度	Straight Navigation Path Width	820 mm	820 mm
掉头导航通道宽度	U-turn Navigation Path Width	1000mm	1000 mm
可越台阶高度	Step Climbing Height	20 mm	20 mm
可越间隙	Gap Crossing Capability	20 mm	20 mm
最大爬坡角度	Maximum Climbing Gradient	< 5%	< 5%

导航定位 NAVIGATION & POSITIONING

导航方式	Navigation Method	激光雷达自主导航	LiDAR Autonomous Navigation
激光雷达	LiDAR	1 个，视野角 270°	1 unit, Field of View 270°
激光雷达安装高度	LiDAR Mounting Height	约 180 mm	Approx. 180 mm
定位精度（全局）	Positioning Accuracy (Global)	±20 mm / ±3°	±20 mm / ±3°
定位精度（VL 标志）	Positioning Accuracy (VL Markers)	±5 mm / ±1°	±5 mm / ±1°
传感器	Sensors	激光雷达 / 深度摄像头 / 超声波 / 防撞触边 / IMU	LiDAR / Depth Camera / Ultrasonic / Collision / IMU

电气参数 ELECTRICAL PARAMETERS

电池电压	Battery Voltage	DC 42~54.7 V	DC 42~54.7 V
电池容量	Battery Capacity	30 Ah	30 Ah
充电时间	Charging Time	约 2 h	Approx. 2 h
续航时间	Operating Time	约 8 h（满载连续运行）	Approx. 8 h (full payload continuous operation)
电池寿命	Battery Cycle Life	1500次循环后，容量≥80%	≥80% capacity after 1500 cycles
充电方式	Charging Method	手动充电 / 自动对桩充电	Manual / Automatic Docking
额定电流	Rated Current	30 A	30 A

通信接口 COMMUNICATION INTERFACES

无线连接	Wireless Connection	Wi-Fi 802.11 a/b/g/n/ac	Wi-Fi 802.11 a/b/g/n/ac
有线连接	Wired Connection	RJ45端口 / USB-A	RJ45 Ethernet Port / USB-A
硬件接口	Hardware Interfaces	DC48V / 急停	DC48V / E-Stop
软件接口	Software Interfaces	ROS / ROS2 / SDK / API	ROS / ROS2 / SDK / API
机身按钮	Body Buttons	模式切换 / 暂停继续 / 复位初始化 / 急停	Mode switch / Pause-resume / Reset / E-Stop

环境要求 ENVIRONMENTAL REQUIREMENTS

工作温度	Operating Temperature	5 ~ 40 °C	5 ~ 40 °C
工作湿度	Operating Humidity	10 ~ 95 %Rh，无冷凝	10 ~ 95 %RH, no condensation
防护等级	Protection Rating	IP20	IP20
地面要求	Floor Requirements	硬质平整地面（无水/油/粉尘）	Hard, flat surfaces (free of water, oil, or dust)



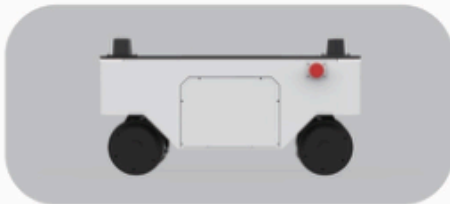
OSH100-OMNI-S

自主移动机器人平台

Autonomous Mobile Robot Platform

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产品介绍

Product Overview

OSH100-OMNI-S 是一款通用型自主移动机器人（AMR）平台底盘，设计用于人机混行的室内场景，额定载重 100 kg。采用四轮全向驱动，双激光雷达 360° 自主导航，支持手动充电和自动对桩充电，适用于工厂、仓库等工业环境。

The OSH100-OMNI-S is a versatile Autonomous Mobile Robot (AMR) platform chassis designed for indoor environments with human-robot coexistence, featuring an 100 kg rated payload. Utilizing two-wheel differential hub motor drive and 360° autonomous navigation via a single LiDAR sensor, it supports both manual charging and automatic docking station charging. Suitable for industrial environments such as factories and warehouses.



丰富集成

Rich Integration

存储箱、机械手、人形上身等
Storage bins, manipulators, humanoid upper bodies



操作简便

Simple Operation

平板、PC、车载交互
Tablet, PC, onboard interaction



智能调度

Intelligent Scheduling

任务分配、动态集群调度
Task allocation, dynamic cluster scheduling



轻松部署

Easy Deployment

激光+视觉融合导航
Laser + vision fusion navigation



稳定安全

Stable and Safe

360°安全探测范围
360° safety detection range



强大续航

Powerful Endurance

自动充电 / 快速换电
Automatic charging / quick battery swap

典型应用：工厂作业、仓储物流、医疗教育、智慧楼宇、4S展厅、数采中心

Typical applications: factory operations, warehousing and logistics, medical education, smart buildings, 4S showrooms, data acquisition centers



机械参数 MECHANICAL PARAMETERS

整机尺寸（长×宽×高）	Overall Dimensions (L×W×H)	699 × 503 × 307 mm	699 × 503 × 307 mm
自重	Net Weight	85 kg	85 kg
额定负载	Rated Payload	100 kg	100 kg
驱动方式	Drive Type	四轮全向	Four-Wheel Omnidirectional
最小转弯半径	Minimum Turning Radius	原地旋转	Zero-radius turn
悬挂方式	suspension method	弹簧悬挂	Spring suspension

运动性能 MOTION PERFORMANCE

额定运行速度	Rated Operating Speed	1.5 m/s	1.5 m/s
导航最大速度	Maximum Navigation Speed	1.2 m/s	1.2 m/s
最大角速度	Maximum Angular Velocity	120 °/s	120 °/s
直行导航通道宽度	Straight Navigation Path Width	710 mm	710 mm
掉头导航通道宽度	U-turn Navigation Path Width	1080 mm	1080 mm
可越台阶高度	Step Climbing Height	35 mm	35 mm
可越间隙	Gap Crossing Capability	35 mm	35 mm
最大爬坡角度	Maximum Climbing Gradient	< 18%	< 18%

导航定位 NAVIGATION & POSITIONING

导航方式	Navigation Method	激光雷达自主导航	LiDAR Autonomous Navigation
激光雷达	LiDAR	2 个，视野角 360°	2 unit, Field of View 360°
激光雷达安装高度	LiDAR Mounting Height	约 315 mm	Approx. 315 mm
定位精度（全局）	Positioning Accuracy (Global)	±20 mm / ±3°	±20 mm / ±3°
定位精度（VL 标志）	Positioning Accuracy (VL Markers)	±5 mm / ±1°	±5 mm / ±1°
传感器	Sensors	激光雷达 / 深度摄像头 / 超声波 / 防撞触边 / IMU	LiDAR / Depth Camera / Ultrasonic / Collision / IMU

电气参数 ELECTRICAL PARAMETERS

电池电压	Battery Voltage	DC 42~54.7 V	DC 42~54.7 V
电池容量	Battery Capacity	42 Ah	42 Ah
充电时间	Charging Time	约 2 h	Approx. 2 h
续航时间	Operating Time	约 8 h（满载连续运行）	Approx. 8 h (full payload continuous operation)
电池寿命	Battery Cycle Life	1500次循环后，容量≥80%	≥80% capacity after 1500 cycles
充电方式	Charging Method	手动充电 / 自动对桩充电 / 快拆电池	Manual / Automatic Docking / Quick-release battery
额定电流	Rated Current	42 A	42 A

通信接口 COMMUNICATION INTERFACES

无线连接	Wireless Connection	Wi-Fi 802.11 a/b/g/n/ac	Wi-Fi 802.11 a/b/g/n/ac
有线连接	Wired Connection	RJ45端口 / USB-A	RJ45 Ethernet Port / USB-A
硬件接口	Hardware Interfaces	DC48V / 急停	DC48V / E-Stop
软件接口	Software Interfaces	ROS / ROS2 / SDK / API	ROS / ROS2 / SDK / API
机身按钮	Body Buttons	模式切换 / 暂停继续 / 复位初始化 / 急停	Mode switch / Pause-resume / Reset / E-Stop

环境要求 ENVIRONMENTAL REQUIREMENTS

工作温度	Operating Temperature	5 ~ 40 °C	5 ~ 40 °C
工作湿度	Operating Humidity	10 ~ 95 %Rh，无冷凝	10 ~ 95 %RH, no condensation
防护等级	Protection Rating	IP20	IP20
地面要求	Floor Requirements	硬质平整地面（无水/油/粉尘）	Hard, flat surfaces (free of water, oil, or dust)



OSH200-DIFF-S

自主移动机器人平台

Autonomous Mobile Robot Platform

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Intelligent Mobile Platform OSH is a series of general-purpose safe AMR (Autonomous Mobile Robot) platforms designed for indoor logistics environments. It adopts improved SLAM technology and multi-sensor fusion, featuring autonomous navigation, depth perception, and flexible obstacle avoidance. With a load capacity ranging from 50 kg to 1,200 kg, it enables autonomous material handling from light to heavy loads across various scenarios including production logistics, warehouse logistics, and service logistics. The platform is highly expandable, allowing integration of various upper mechanisms such as delivery cabinets, robotic arms, and conveyor belts, and is widely applicable in point-to-point material transfer, vocational education competitions, patrol and security scenarios. Additionally, the OSH platform supports teaching and research in fields such as robotics, motion control, navigation and positioning, machine vision perception and obstacle avoidance, laser SLAM, and multi-sensor fusion. It can also be extended to embodied AI scenarios, including home service and research institutions.



产品介绍

Product Overview

OSH200-DIFF-S 是一款通用型自主移动机器人（AMR）平台底盘，设计用于人机混行的室内场景，额定载重 100 kg。采用四轮全向驱动，双激光雷达 360° 自主导航，支持手动充电和自动对桩充电，适用于工厂、仓库等工业环境。

The OSH200-DIFF-S is a versatile Autonomous Mobile Robot (AMR) platform chassis designed for indoor environments with human-robot coexistence, featuring an 100 kg rated payload. Utilizing two-wheel differential hub motor drive and 360° autonomous navigation via a single LiDAR sensor, it supports both manual charging and automatic docking station charging. Suitable for industrial environments such as factories and warehouses.



丰富集成

Rich Integration

存储箱、机械手、人形上身等
Storage bins, manipulators, humanoid upper bodies



操作简便

Simple Operation

平板、PC、车载交互
Tablet, PC, onboard interaction



智能调度

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任务分配、动态集群调度
Task allocation, dynamic cluster scheduling



轻松部署

Easy Deployment

激光+视觉融合导航
Laser + vision fusion navigation



稳定安全

Stable and Safe

360°安全探测范围
360° safety detection range



强大续航

Powerful Endurance

自动充电 / 快速换电
Automatic charging / quick battery swap

典型应用：工厂作业、仓储物流、医疗教育、智慧楼宇、4S展厅、数采中心

Typical applications: factory operations, warehousing and logistics, medical education, smart buildings, 4S showrooms, data acquisition centers

机械参数 MECHANICAL PARAMETERS

整机尺寸（长×宽×高）	Overall Dimensions (L×W×H)	800 × 500 × 250 mm	800 × 500 × 250 mm
自重	Net Weight	90 kg	90 kg
额定负载	Rated Payload	200 kg	200 kg
驱动方式	Drive Type	两轮差速	Two-wheel Differential
最小转弯半径	Minimum Turning Radius	原地旋转	Zero-radius turn
悬挂方式	suspension method	摆臂悬挂	Swing arm suspension

运动性能 MOTION PERFORMANCE

额定运行速度	Rated Operating Speed	1.5 m/s	1.5 m/s
导航最大速度	Maximum Navigation Speed	1.2 m/s	1.2 m/s
最大角速度	Maximum Angular Velocity	120 °/s	120 °/s
直行导航通道宽度	Straight Navigation Path Width	700 mm	700 mm
掉头导航通道宽度	U-turn Navigation Path Width	1150 mm	1150 mm
可越台阶高度	Step Climbing Height	20 mm	20 mm
可越间隙	Gap Crossing Capability	20 mm	20 mm
最大爬坡角度	Maximum Climbing Gradient	< 5%	< 5%

导航定位 NAVIGATION & POSITIONING

导航方式	Navigation Method	激光雷达自主导航	LiDAR Autonomous Navigation
激光雷达	LiDAR	2 个，视野角 360°	2 unit, Field of View 360°
激光雷达安装高度	LiDAR Mounting Height	约 180 mm	Approx. 180 mm
定位精度（全局）	Positioning Accuracy (Global)	±20 mm / ±3°	±20 mm / ±3°
定位精度（VL 标志）	Positioning Accuracy (VL Markers)	±5 mm / ±1°	±5 mm / ±1°
传感器	Sensors	激光雷达 / 深度摄像头 / 超声波 / 防撞触边 / IMU	LiDAR / Depth Camera / Ultrasonic / Collision / IMU

电气参数 ELECTRICAL PARAMETERS

电池电压	Battery Voltage	DC 42~54.7 V	DC 42~54.7 V
电池容量	Battery Capacity	20 Ah	20 Ah
充电时间	Charging Time	约 2 h	Approx. 2 h
续航时间	Operating Time	约 8 h（满载连续运行）	Approx. 8 h (full payload continuous operation)
电池寿命	Battery Cycle Life	1500次循环后，容量≥80%	≥80% capacity after 1500 cycles
充电方式	Charging Method	手动充电 / 自动对桩充电	Manual / Automatic Docking
额定电流	Rated Current	25 A	25 A

通信接口 COMMUNICATION INTERFACES

无线连接	Wireless Connection	Wi-Fi 802.11 a/b/g/n/ac	Wi-Fi 802.11 a/b/g/n/ac
有线连接	Wired Connection	RJ45网口 / USB-A	RJ45 Ethernet Port / USB-A
硬件接口	Hardware Interfaces	DC48V / 急停	DC48V / E-Stop
软件接口	Software Interfaces	ROS / ROS2 / SDK / API	ROS / ROS2 / SDK / API
机身按钮	Body Buttons	模式切换 / 暂停继续 / 复位初始化 / 急停	Mode switch / Pause-resume / Reset / E-Stop

环境要求 ENVIRONMENTAL REQUIREMENTS

工作温度	Operating Temperature	5 ~ 40 °C	5 ~ 40 °C
工作湿度	Operating Humidity	10 ~ 95 %Rh，无冷凝	10 ~ 95 %RH, no condensation
防护等级	Protection Rating	IP20	IP20
地面要求	Floor Requirements	硬质平整地面（无水/油/粉尘）	Hard, flat surfaces (free of water, oil, or dust)



OSH60-DIFF-S (无外壳)

自主移动机器人平台

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产品介绍

Product Overview

OSH60-DIFF-S 是一款通用型自主移动机器人（AMR）平台底盘，设计用于人机混行的室内场景，额定载重 60kg。采用麦克纳姆轮四轮全向驱动，双激光雷达 270° 自主导航，支持手动充电和自动对桩充电，适用于工厂、仓库等工业环境。

The OSH60-DIFF-S is a versatile Autonomous Mobile Robot (AMR) platform chassis designed for indoor environments with human-robot coexistence, featuring an 60 kg rated payload. Utilizing two-wheel differential hub motor drive and 270° autonomous navigation via a single LiDAR sensor, it supports both manual charging and automatic docking station charging. Suitable for industrial environments such as factories and warehouses.



丰富集成
Rich Integration

存储箱、机械手、人形上身等
Storage bins, manipulators, humanoid upper bodies



操作简便
Simple Operation

平板、PC、车载交互
Tablet, PC, onboard interaction



智能调度
Intelligent Scheduling

任务分配、动态集群调度
Task allocation, dynamic cluster scheduling



轻松部署
Easy Deployment

激光+视觉融合导航
Laser + vision fusion navigation



稳定安全
Stable and Safe

360°安全探测范围
360° safety detection range



强大续航
Powerful Endurance

自动充电 / 快速换电
Automatic charging / quick battery swap

典型应用：工厂作业、仓储物流、医疗教育、智慧楼宇、4S展厅、数采中心
Typical applications: factory operations, warehousing and logistics, medical education, smart buildings, 4S showrooms, data acquisition centers

机械参数 MECHANICAL PARAMETERS			
整机尺寸（直径×高）	Overall Dimensions (D×H)	524（直径）× 339 mm	524 (diameter) × 339 mm
自重	Net Weight	60 kg	60 kg
额定负载	Rated Payload	60 kg	60 kg
驱动方式	Drive Type	两轮差速	Two-wheel Differential
最小转弯半径	Minimum Turning Radius	原地旋转	Zero-radius turn
悬挂方式	suspension method	弹簧悬挂	Spring suspension

运动性能 MOTION PERFORMANCE			
额定运行速度	Rated Operating Speed	1.5 m/s	1.5 m/s
导航最大速度	Maximum Navigation Speed	1.2 m/s	1.2 m/s
最大角速度	Maximum Angular Velocity	120 °/s	120 °/s
直行导航通道宽度	Straight Navigation Path Width	730 mm	730 mm
掉头导航通道宽度	U-turn Navigation Path Width	730 mm	730 mm
可越台阶高度	Step Climbing Height	20 mm	20 mm
可越间隙	Gap Crossing Capability	20 mm	20 mm
最大爬坡角度	Maximum Climbing Gradient	< 5%	< 5%

导航定位 NAVIGATION & POSITIONING			
导航方式	Navigation Method	激光雷达自主导航	LiDAR Autonomous Navigation
激光雷达	LiDAR	1 个，视野角 270°	1 unit, Field of View 270°
激光雷达安装高度	LiDAR Mounting Height	约 180 mm	Approx. 180 mm
定位精度（全局）	Positioning Accuracy (Global)	±20 mm / ±3°	±20 mm / ±3°
定位精度（VL 标志）	Positioning Accuracy (VL Markers)	±5 mm / ±1°	±5 mm / ±1°
传感器	Sensors	激光雷达 / 深度摄像头 / 超声波 / 防撞触边 / IMU	LiDAR / Depth Camera / Ultrasonic / Collision / IMU

电气参数 ELECTRICAL PARAMETERS			
电池电压	Battery Voltage	DC 42~54.7 V	DC 42~54.7 V
电池容量	Battery Capacity	30 Ah	30 Ah
充电时间	Charging Time	约 2 h	Approx. 2 h
续航时间	Operating Time	约 6 h（满载连续运行）	Approx. 6 h (full payload continuous operation)
电池寿命	Battery Cycle Life	1500次循环后，容量≥80%	≥80% capacity after 1500 cycles
充电方式	Charging Method	手动充电 / 自动对桩充电	Manual / Automatic Docking
额定电流	Rated Current	30 A	30 A

通信接口 COMMUNICATION INTERFACES			
无线连接	Wireless Connection	Wi-Fi 802.11 a/b/g/n/ac	Wi-Fi 802.11 a/b/g/n/ac
有线连接	Wired Connection	RJ45网口 / USB-A	RJ45 Ethernet Port / USB-A
硬件接口	Hardware Interfaces	DC48V / 急停	DC48V / E-Stop
软件接口	Software Interfaces	ROS / ROS2 / SDK / API	ROS / ROS2 / SDK / API
机身按钮	Body Buttons	模式切换 / 暂停继续 / 复位初始化 / 急停	Mode switch / Pause-resume / Reset / E-Stop

环境要求 ENVIRONMENTAL REQUIREMENTS			
工作温度	Operating Temperature	5 ~ 40 °C	5 ~ 40 °C
工作湿度	Operating Humidity	10 ~ 95 %Rh，无冷凝	10 ~ 95 %RH, no condensation
防护等级	Protection Rating	IP20	IP20
地面要求	Floor Requirements	硬质平整地面（无水/油/粉尘）	Hard, flat surfaces (free of water, oil, or dust)



OSH100-MEC-SC (无外壳)

自主移动机器人平台

Autonomous Mobile Robot Platform

智能移动平台 OSH 是一系列适用于室内物流环境的通用安全 AMR（自主移动机器人）平台，采用改进的 SLAM 技术与多传感器融合方案，具备自主导航、深度感知及灵活避障等功能，负载范围覆盖 50kg 至 1200kg。可在生产物流、仓储物流及服务物流等众多场景中实现从轻型至重型货品的自主搬运。该底盘具备极强的拓展性，可集成配送柜、机械臂、传送带等上层机构，广泛应用于 AB 点搬运配送、职教比赛、巡逻安防等场景。同时，OSH 平台面向教学及科研领域，支持机器人、运动控制、导航定位、机器视觉感知避障、激光 SLAM、多传感器融合等技术方向的实践与研究，并可拓展至家政服务、科研机构等具身智能场景应用。

Intelligent Mobile Platform OSH is a series of general-purpose safe AMR (Autonomous Mobile Robot) platforms designed for indoor logistics environments. It adopts improved SLAM technology and multi-sensor fusion, featuring autonomous navigation, depth perception, and flexible obstacle avoidance. With a load capacity ranging from 50 kg to 1,200 kg, it enables autonomous material handling from light to heavy loads across various scenarios including production logistics, warehouse logistics, and service logistics. The platform is highly expandable, allowing integration of various upper mechanisms such as delivery cabinets, robotic arms, and conveyor belts, and is widely applicable in point-to-point material transfer, vocational education competitions, patrol and security scenarios. Additionally, the OSH platform supports teaching and research in fields such as robotics, motion control, navigation and positioning, machine vision perception and obstacle avoidance, laser SLAM, and multi-sensor fusion. It can also be extended to embodied AI scenarios, including home service and research institutions.



产品介绍

Product Overview

OSH100-MEC-SC-S 是一款通用型自主移动机器人（AMR）平台底盘，设计用于人机混行的室内场景，额定载重 100kg。采用麦克纳姆轮四轮全向驱动，双激光雷达 360° 自主导航，支持手动充电和自动对桩充电，适用于工厂、仓库等工业环境。

The OSH100-MEC-SC-S is a versatile Autonomous Mobile Robot (AMR) platform chassis designed for indoor environments with human-robot coexistence, featuring an 100 kg rated payload. Utilizing two-wheel differential hub motor drive and 360° autonomous navigation via a single LiDAR sensor, it supports both manual charging and automatic docking station charging. Suitable for industrial environments such as factories and warehouses.



丰富集成 Rich Integration

存储箱、机械手、人形上身等
Storage bins, manipulators, humanoid upper bodies



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典型应用：工厂作业、仓储物流、医疗教育、智慧楼宇、4S展厅、数采中心

Typical applications: factory operations, warehousing and logistics, medical education, smart buildings, 4S showrooms, data acquisition centers

机械参数 MECHANICAL PARAMETERS

整机尺寸（长×宽×高）	Overall Dimensions (L×W×H)	674 × 674 × 289 mm (底盘高度)	674 × 674 × 289 mm (chassis height)
自重	Net Weight	70 kg (底盘自重)	70 kg (chassis weight)
额定负载	Rated Payload	100 kg	100 kg
驱动方式	Drive Type	四轮全向	Four-Wheel Omnidirectional
最小转弯半径	Minimum Turning Radius	原地旋转	Zero-radius turn
悬挂方式	suspension method	弹簧悬挂	Spring suspension

运动性能 MOTION PERFORMANCE

额定运行速度	Rated Operating Speed	1.5 m/s	1.5 m/s
导航最大速度	Maximum Navigation Speed	1.2 m/s	1.2 m/s
最大角速度	Maximum Angular Velocity	120 °/s	120 °/s
直行导航通道宽度	Straight Navigation Path Width	974 mm	974 mm
掉头导航通道宽度	U-turn Navigation Path Width	974 mm	974 mm
可越台阶高度	Step Climbing Height	35 mm	35 mm
可越间隙	Gap Crossing Capability	35 mm	35 mm
最大爬坡角度	Maximum Climbing Gradient	< 5%	< 5%

导航定位 NAVIGATION & POSITIONING

导航方式	Navigation Method	激光雷达自主导航	LiDAR Autonomous Navigation
激光雷达	LiDAR	2 个, 视野角 360°	2 unit, Field of View 360°
激光雷达安装高度	LiDAR Mounting Height	约 315 mm	Approx. 315 mm
定位精度（全局）	Positioning Accuracy (Global)	±20 mm / ±3°	±20 mm / ±3°
定位精度（VL 标志）	Positioning Accuracy (VL Markers)	±5 mm / ±1°	±5 mm / ±1°
传感器	Sensors	激光雷达 / 深度摄像头 / 超声波 / 防撞触边 / IMU	LiDAR / Depth Camera / Ultrasonic / Collision / IMU

电气参数 ELECTRICAL PARAMETERS

电池电压	Battery Voltage	DC 42~54.7 V	DC 42~54.7 V
电池容量	Battery Capacity	20 Ah	20 Ah
充电时间	Charging Time	约 2 h	Approx. 2 h
续航时间	Operating Time	约 8 h（满载连续运行）	Approx. 8 h (full payload continuous operation)
电池寿命	Battery Cycle Life	1500次循环后，容量≥80%	≥80% capacity after 1500 cycles
充电方式	Charging Method	手动充电 / 自动对桩充电	Manual / Automatic Docking
额定电流	Rated Current	25 A	25 A

通信接口 COMMUNICATION INTERFACES

无线连接	Wireless Connection	Wi-Fi 802.11 a/b/g/n/ac	Wi-Fi 802.11 a/b/g/n/ac
有线连接	Wired Connection	RJ45端口 / USB-A	RJ45 Ethernet Port / USB-A
硬件接口	Hardware Interfaces	DC48V / 急停	DC48V / E-Stop
软件接口	Software Interfaces	ROS / ROS2 / SDK / API	ROS / ROS2 / SDK / API
机身按钮	Body Buttons	模式切换 / 暂停继续 / 复位初始化 / 急停	Mode switch / Pause-resume / Reset / E-Stop

环境要求 ENVIRONMENTAL REQUIREMENTS

工作温度	Operating Temperature	5 ~ 40 °C	5 ~ 40 °C
工作湿度	Operating Humidity	10 ~ 95 %Rh, 无冷凝	10 ~ 95 %RH, no condensation
防护等级	Protection Rating	IP20	IP20
地面要求	Floor Requirements	硬质平整地面（无水/油/粉尘）	Hard, flat surfaces (free of water, oil, or dust)



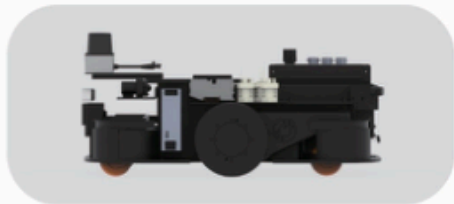
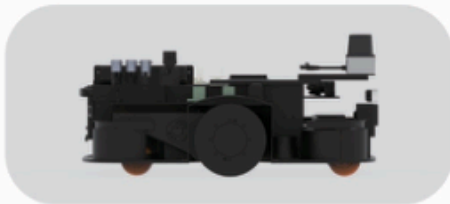
OSH100-DIFF-S (无外壳)

自主移动机器人平台

Autonomous Mobile Robot Platform

智能移动平台 OSH 是一系列适用于室内物流环境的通用安全 AMR (自主移动机器人) 平台, 采用改进的 SLAM 技术与多传感器融合方案, 具备自主导航、深度感知及灵活避障等功能, 负载范围覆盖 50kg 至 1200kg.可在生产物流、仓储物流及服务物流等众多场景中实现从轻型至重型货品的自主搬运。该底盘具备极强的拓展性, 可集成配送柜、机械臂、传送带等上层机构, 广泛应用于 AB 点搬运配送、职教比赛、巡逻安防等场景。同时, OSH 平台面向教学及科研领域, 支持机器人、运动控制、导航定位、机器视觉感知避障、激光 SLAM、多传感器融合等技术方向的实践与研究, 并可拓展至家政服务、科研机构等具身智能场景应用。

Intelligent Mobile Platform OSH is a series of general-purpose safe AMR (Autonomous Mobile Robot) platforms designed for indoor logistics environments. It adopts improved SLAM technology and multi-sensor fusion, featuring autonomous navigation, depth perception, and flexible obstacle avoidance. With a load capacity ranging from 50 kg to 1,200 kg, it enables autonomous material handling from light to heavy loads across various scenarios including production logistics, warehouse logistics, and service logistics. The platform is highly expandable, allowing integration of various upper mechanisms such as delivery cabinets, robotic arms, and conveyor belts, and is widely applicable in point-to-point material transfer, vocational education competitions, patrol and security scenarios. Additionally, the OSH platform supports teaching and research in fields such as robotics, motion control, navigation and positioning, machine vision perception and obstacle avoidance, laser SLAM, and multi-sensor fusion. It can also be extended to embodied AI scenarios, including home service and research institutions.



产品介绍

Product Overview

OSH100-DIFF-S 是一款通用型自主移动机器人 (AMR) 平台底盘, 设计用于人机混行的室内场景, 额定载重 80 kg。采用四轮全向驱动, 双激光雷达 270° 自主导航, 支持手动充电和自动对桩充电。适用于工厂、仓库等工业环境。

The OSH100-DIFF-S is a versatile Autonomous Mobile Robot (AMR) platform chassis designed for indoor environments with human-robot coexistence, featuring an 80 kg rated payload. Utilizing two-wheel differential hub motor drive and 270° autonomous navigation via a single LiDAR sensor, it supports both manual charging and automatic docking station charging. Suitable for industrial environments such as factories and warehouses.



丰富集成 Rich Integration

存储箱、机械手、人形上身等
Storage bins, manipulators, humanoid upper bodies



操作简便 Simple Operation

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360° safety detection range



强大续航 Powerful Endurance

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Automatic charging / quick battery swap

典型应用: 工厂作业、仓储物流、医疗教育、智慧楼宇、4S展厅、数采中心

Typical applications: factory operations, warehousing and logistics, medical education, smart buildings, 4S showrooms, data acquisition centers

机械参数 MECHANICAL PARAMETERS

整机尺寸 (长×宽×高)	Overall Dimensions (L×W×H)	617*480*246mm	617*480*246mm
自重	Net Weight	75 kg	75 kg
额定负载	Rated Payload	100 kg	100 kg
驱动方式	Drive Type	两轮差速	Two-wheel Differential
最小转弯半径	Minimum Turning Radius	原地旋转	Zero-radius turn
悬挂方式	suspension method	摆臂悬挂	Swing arm suspension

运动性能 MOTION PERFORMANCE

额定运行速度	Rated Operating Speed	1.5 m/s	1.5 m/s
导航最大速度	Maximum Navigation Speed	1.2 m/s	1.2 m/s
最大角速度	Maximum Angular Velocity	120 °/s	120 °/s
直行导航通道宽度	Straight Navigation Path Width	780 mm	780 mm
掉头导航通道宽度	U-turn Navigation Path Width	980 mm	980 mm
可越台阶高度	Step Climbing Height	20 mm	20 mm
可越间隙	Gap Crossing Capability	20 mm	20 mm
最大爬坡角度	Maximum Climbing Gradient	< 5%	< 5%

导航定位 NAVIGATION & POSITIONING

导航方式	Navigation Method	激光雷达自主导航	LiDAR Autonomous Navigation
激光雷达	LiDAR	1 个, 视野角 270°	1 unit, Field of View 270°
激光雷达安装高度	LiDAR Mounting Height	约 180 mm	Approx. 180 mm
定位精度 (全局)	Positioning Accuracy (Global)	±20 mm / ±3°	±20 mm / ±3°
定位精度 (VL 标志)	Positioning Accuracy (VL Markers)	±5 mm / ±1°	±5 mm / ±1°
传感器	Sensors	激光雷达 / 深度摄像头 / 超声波 / 防撞触边 / IMU	LiDAR / Depth Camera / Ultrasonic / Collision / IMU

电气参数 ELECTRICAL PARAMETERS

电池电压	Battery Voltage	DC 42~54.7 V	DC 42~54.7 V
电池容量	Battery Capacity	30 Ah	30 Ah
充电时间	Charging Time	约 2 h	Approx. 2 h
续航时间	Operating Time	约 8 h (满载连续运行)	Approx. 8 h (full payload continuous operation)
电池寿命	Battery Cycle Life	1500次循环后, 容量≥80%	≥80% capacity after 1500 cycles
充电方式	Charging Method	手动充电 / 自动对桩充电	Manual / Automatic Docking
额定电流	Rated Current	30 A	30 A

通信接口 COMMUNICATION INTERFACES

无线连接	Wireless Connection	Wi-Fi 802.11 a/b/g/n/ac	Wi-Fi 802.11 a/b/g/n/ac
有线连接	Wired Connection	RJ45网口 / USB-A	RJ45 Ethernet Port / USB-A
硬件接口	Hardware Interfaces	DC48V / 急停	DC48V / E-Stop
软件接口	Software Interfaces	ROS / ROS2 / SDK / API	ROS / ROS2 / SDK / API
机身按钮	Body Buttons	模式切换 / 暂停继续 / 复位初始化 / 急停	Mode switch / Pause-resume / Reset / E-Stop

环境要求 ENVIRONMENTAL REQUIREMENTS

工作温度	Operating Temperature	5 ~ 40 °C	5 ~ 40 °C
工作湿度	Operating Humidity	10 ~ 95 %Rh, 无冷凝	10 ~ 95 %RH, no condensation
防护等级	Protection Rating	IP20	IP20
地面要求	Floor Requirements	硬质平整地面 (无水/油/粉尘)	Hard, flat surfaces (free of water, oil, or dust)



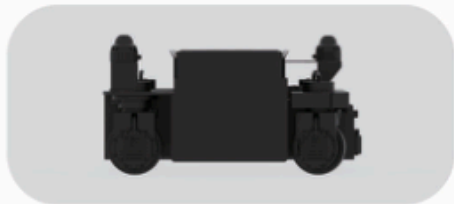
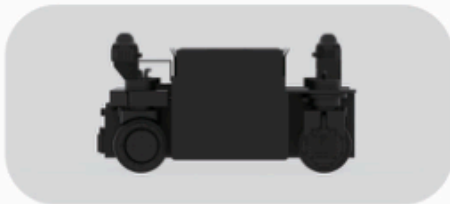
OSH100-OMNI-DV（无外壳）

自主移动机器人平台

Autonomous Mobile Robot Platform

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产品介绍

Product Overview

OSH100-OMNI-DV 是一款通用型自主移动机器人（AMR）平台底盘，设计用于人机混行的室内场景，额定载重 100 kg。采用四轮全向驱动，双激光雷达 360° 自主导航，支持手动充电和自动对桩充电，适用于工厂、仓库等工业环境。

The OSH100-OMNI-DV is a versatile Autonomous Mobile Robot (AMR) platform chassis designed for indoor environments with human-robot coexistence, featuring an 100 kg rated payload. Utilizing two-wheel differential hub motor drive and 360° autonomous navigation via a single LiDAR sensor, it supports both manual charging and automatic docking station charging. Suitable for industrial environments such as factories and warehouses.



丰富集成

Rich Integration

存储箱、机械手、人形上身等
Storage bins, manipulators, humanoid upper bodies



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360°安全探测范围
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Powerful Endurance

自动充电 / 快速换电
Automatic charging / quick battery swap

典型应用：工厂作业、仓储物流、医疗教育、智慧楼宇、4S展厅、数采中心

Typical applications: factory operations, warehousing and logistics, medical education, smart buildings, 4S showrooms, data acquisition centers

机械参数 MECHANICAL PARAMETERS

整机尺寸（长×宽×高）	Overall Dimensions (L×W×H)	622 × 600 × 322 mm	622 × 600 × 332 mm
自重	Net Weight	85 kg	85 kg
额定负载	Rated Payload	100 kg	100 kg
驱动方式	Drive Type	四轮全向	Four-Wheel Omnidirectional
最小转弯半径	Minimum Turning Radius	原地旋转	Zero-radius turn
悬挂方式	suspension method	弹簧悬挂	Spring suspension

运动性能 MOTION PERFORMANCE

额定运行速度	Rated Operating Speed	1.5 m/s	1.5 m/s
导航最大速度	Maximum Navigation Speed	1.2 m/s	1.2 m/s
最大角速度	Maximum Angular Velocity	120 °/s	120 °/s
直行导航通道宽度	Straight Navigation Path Width	900 mm	900 mm
掉头导航通道宽度	U-turn Navigation Path Width	1100 mm	1100 mm
可越台阶高度	Step Climbing Height	35 mm	35 mm
可越间隙	Gap Crossing Capability	35 mm	35 mm
最大爬坡角度	Maximum Climbing Gradient	< 18%	< 18%

导航定位 NAVIGATION & POSITIONING

导航方式	Navigation Method	激光雷达自主导航	LiDAR Autonomous Navigation
激光雷达	LiDAR	2 个，视野角 360°	2 unit, Field of View 360°
激光雷达安装高度	LiDAR Mounting Height	约 315 mm	Approx. 315 mm
定位精度（全局）	Positioning Accuracy (Global)	±20 mm / ±3°	±20 mm / ±3°
定位精度（VL 标志）	Positioning Accuracy (VL Markers)	±5 mm / ±1°	±5 mm / ±1°
传感器	Sensors	激光雷达 / 深度摄像头 / 超声波 / 防撞触边 / IMU	LiDAR / Depth Camera / Ultrasonic / Collision / IMU

电气参数 ELECTRICAL PARAMETERS

电池电压	Battery Voltage	DC 42~54.7 V	DC 42~54.7 V
电池容量	Battery Capacity	40 Ah（双电池）	40 Ah (dual battery)
充电时间	Charging Time	约 2 h	Approx. 2 h
续航时间	Operating Time	约 8 h（满载连续运行）	Approx. 8 h (full payload continuous operation)
电池寿命	Battery Cycle Life	1500次循环后，容量≥80%	≥80% capacity after 1500 cycles
充电方式	Charging Method	手动充电 / 自动对桩充电 / 热插拔	Manual / Automatic Docking / hot-swapping
额定电流	Rated Current	35 A	35 A

通信接口 COMMUNICATION INTERFACES

无线连接	Wireless Connection	Wi-Fi 802.11 a/b/g/n/ac	Wi-Fi 802.11 a/b/g/n/ac
有线连接	Wired Connection	RJ45网口 / USB-A	RJ45 Ethernet Port / USB-A
硬件接口	Hardware Interfaces	DC48V / 急停	DC48V / E-Stop
软件接口	Software Interfaces	ROS / ROS2 / SDK / API	ROS / ROS2 / SDK / API
机身按钮	Body Buttons	模式切换 / 暂停继续 / 复位初始化 / 急停	Mode switch / Pause-resume / Reset / E-Stop

环境要求 ENVIRONMENTAL REQUIREMENTS

工作温度	Operating Temperature	5 ~ 40 °C	5 ~ 40 °C
工作湿度	Operating Humidity	10 ~ 95 %Rh，无冷凝	10 ~ 95 %RH, no condensation
防护等级	Protection Rating	IP20	IP20
地面要求	Floor Requirements	硬质平整地面（无水/油/粉尘）	Hard, flat surfaces (free of water, oil, or dust)



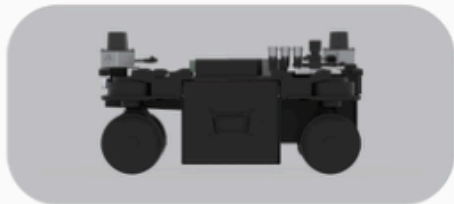
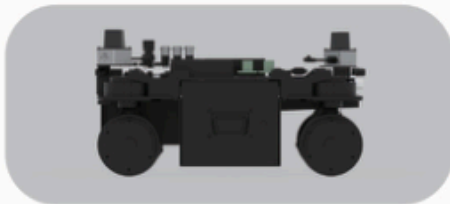
OSH100-OMNI-DH (无外壳)

自主移动机器人平台

Autonomous Mobile Robot Platform

智能移动平台 OSH 是一系列适用于室内物流环境的通用安全 AMR (自主移动机器人) 平台, 采用改进的 SLAM 技术与多传感器融合方案, 具备自主导航、深度感知及灵活避障等功能, 负载范围覆盖 50kg 至 1200kg.可在生产物流、仓储物流及服务物流等众多场景中实现从轻型至重型货品的自主搬运。该底盘具备极强的拓展性, 可集成配送柜、机械臂、传送带等上层机构, 广泛应用于 AB 点搬运配送、职教比赛、巡逻安防等场景。同时, OSH 平台面向教学及科研领域, 支持机器人、运动控制、导航定位、机器视觉感知避障、激光 SLAM、多传感器融合等技术方向的实践与研究, 并可拓展至家政服务、科研机构等具身智能场景应用。

Intelligent Mobile Platform OSH is a series of general-purpose safe AMR (Autonomous Mobile Robot) platforms designed for indoor logistics environments. It adopts improved SLAM technology and multi-sensor fusion, featuring autonomous navigation, depth perception, and flexible obstacle avoidance. With a load capacity ranging from 50 kg to 1,200 kg, it enables autonomous material handling from light to heavy loads across various scenarios including production logistics, warehouse logistics, and service logistics. The platform is highly expandable, allowing integration of various upper mechanisms such as delivery cabinets, robotic arms, and conveyor belts, and is widely applicable in point-to-point material transfer, vocational education competitions, patrol and security scenarios. Additionally, the OSH platform supports teaching and research in fields such as robotics, motion control, navigation and positioning, machine vision perception and obstacle avoidance, laser SLAM, and multi-sensor fusion. It can also be extended to embodied AI scenarios, including home service and research institutions.



产品介绍

Product Overview

OSH100-OMNI-DH 是一款通用型自主移动机器人 (AMR) 平台底盘, 设计用于人机混行的室内场景, 额定载重 100 kg。采用四轮全向驱动, 双激光雷达 360° 自主导航, 支持手动充电和自动对桩充电, 适用于工厂、仓库等工业环境。

The OSH100-OMNI-DH is a versatile Autonomous Mobile Robot (AMR) platform chassis designed for indoor environments with human-robot coexistence, featuring an 100 kg rated payload. Utilizing two-wheel differential hub motor drive and 360° autonomous navigation via a single LiDAR sensor, it supports both manual charging and automatic docking station charging. Suitable for industrial environments such as factories and warehouses.



丰富集成

Rich Integration

存储箱、机械手、人形上身等
Storage bins, manipulators, humanoid upper bodies



操作简便

Simple Operation

平板、PC、车载交互
Tablet, PC, onboard interaction



智能调度

Intelligent Scheduling

任务分配、动态集群调度
Task allocation, dynamic cluster scheduling



轻松部署

Easy Deployment

激光+视觉融合导航
Laser + vision fusion navigation



稳定安全

Stable and Safe

360°安全探测范围
360° safety detection range



强大续航

Powerful Endurance

自动充电 / 快速换电
Automatic charging / quick battery swap

典型应用: 工厂作业、仓储物流、医疗教育、智慧楼宇、4S展厅、数采中心

Typical applications: factory operations, warehousing and logistics, medical education, smart buildings, 4S showrooms, data acquisition centers

机械参数 MECHANICAL PARAMETERS

整机尺寸 (长×宽×高)	Overall Dimensions (L×W×H)	648 × 500 × 306 mm	648 × 500 × 306 mm
自重	Net Weight	85 kg	85 kg
额定负载	Rated Payload	100 kg	100 kg
驱动方式	Drive Type	四轮全向	Four-Wheel Omnidirectional
最小转弯半径	Minimum Turning Radius	原地旋转	Zero-radius turn
悬挂方式	suspension method	弹簧悬挂	Spring suspension

运动性能 MOTION PERFORMANCE

额定运行速度	Rated Operating Speed	1.5 m/s	1.5 m/s
导航最大速度	Maximum Navigation Speed	1.2 m/s	1.2 m/s
最大角速度	Maximum Angular Velocity	120 °/s	120 °/s
直行导航通道宽度	Straight Navigation Path Width	710 mm	710 mm
掉头导航通道宽度	U-turn Navigation Path Width	1100 mm	1100 mm
可越台阶高度	Step Climbing Height	35 mm	35 mm
可越间隙	Gap Crossing Capability	35 mm	35 mm
最大爬坡角度	Maximum Climbing Gradient	< 18%	< 15%

导航定位 NAVIGATION & POSITIONING

导航方式	Navigation Method	激光雷达自主导航	LiDAR Autonomous Navigation
激光雷达	LiDAR	2 个, 视角 360°	2 unit, Field of View 360°
激光雷达安装高度	LiDAR Mounting Height	约 315 mm	Approx. 315 mm
定位精度 (全局)	Positioning Accuracy (Global)	±20 mm / ±3°	±20 mm / ±3°
定位精度 (VL 标志)	Positioning Accuracy (VL Markers)	±5 mm / ±1°	±5 mm / ±1°
传感器	Sensors	激光雷达 / 深度摄像头 / 超声波 / 防撞触边 / IMU	LiDAR / Depth Camera / Ultrasonic / Collision / IMU

电气参数 ELECTRICAL PARAMETERS

电池电压	Battery Voltage	DC 42~54.7 V	DC 42~54.7 V
电池容量	Battery Capacity	40 Ah (双电池)	40 Ah (dual battery)
充电时间	Charging Time	约 2 h	Approx. 2 h
续航时间	Operating Time	约 8 h (满载连续运行)	Approx. 8 h (full payload continuous operation)
电池寿命	Battery Cycle Life	1500次循环后, 容量 ≥ 80%	≥ 80% capacity after 1500 cycles
充电方式	Charging Method	手动充电 / 自动对桩充电 / 热插拔	Manual / Automatic Docking / hot-swapping
额定电流	Rated Current	30 A	30 A

通信接口 COMMUNICATION INTERFACES

无线连接	Wireless Connection	Wi-Fi 802.11 a/b/g/n/ac	Wi-Fi 802.11 a/b/g/n/ac
有线连接	Wired Connection	RJ45接口 / USB-A	RJ45 Ethernet Port / USB-A
硬件接口	Hardware Interfaces	DC48V / 急停	DC48V / E-Stop
软件接口	Software Interfaces	ROS / ROS2 / SDK / API	ROS / ROS2 / SDK / API
机身按钮	Body Buttons	模式切换 / 暂停继续 / 复位初始化 / 急停	Mode switch / Pause-resume / Reset / E-Stop

环境要求 ENVIRONMENTAL REQUIREMENTS

工作温度	Operating Temperature	5 ~ 40 °C	5 ~ 40 °C
工作湿度	Operating Humidity	10 ~ 95 %Rh, 无冷凝	10 ~ 95 %RH, no condensation
防护等级	Protection Rating	IP20	IP20
地面要求	Floor Requirements	硬质平整地面 (无水/油/粉尘)	Hard, flat surfaces (free of water, oil, or dust)



OSH100-DIFF-S 两轮差速通用移动机器人底盘

Autonomous Mobile Robot Platform

OSH100-DIFF-S是深圳悟时创新自主研发的紧凑型两轮差速AMR移动底盘，机身小巧灵活、结构模块化极强，主打轻量化、高机动性与快速拓展集成，是搭建搬运、巡检、操作类智能机器人的通用基础移动平台，适配室内狭小空间自动化作业场景。

OSH100-DIFF-S is a compact two-wheeled differential AMR mobile chassis independently developed by Shenzhen Wushi Innovation. With its compact and flexible body and highly modular structure, it emphasizes lightweight, high maneuverability, and rapid expansion and integration. It serves as a versatile basic mobile platform for building intelligent robots for handling, inspection, and operation tasks, and is suitable for automated operation scenarios in indoor narrow spaces.



基础裸底盘（单底盘机型） Basic bare chassis (single chassis model)

整机采用紧凑化差速驱动结构，机身轮廓小巧圆润，转向灵活、穿行能力出众，可轻松穿梭车间过道、办公区域、机房、仓储窄通道等狭小场地。底盘内置成熟SLAM自主导航、智能避障、路径规划、自主回充核心功能；机身侧面集成控制按键、交互接口，周身配备防撞防护结构，安全可靠。顶面预留标准化安装孔位，可直接搭载料台、货架、检测传感器、配送箱体等外设，广泛应用于厂区物料转运、室内物资配送、机房巡检、场馆巡逻等基础移动作业，部署简单、落地效率高。

The entire machine adopts a compact differential drive structure, featuring a sleek and rounded body contour. It offers flexible steering and superior maneuverability, allowing it to easily navigate through narrow spaces such as workshop aisles, office areas, computer rooms, and narrow storage channels. The chassis is equipped with mature core functions such as SLAM autonomous navigation, intelligent obstacle avoidance, path planning, and autonomous recharging. The side of the body integrates control buttons and interactive interfaces, and the entire body is equipped with a collision-resistant protective structure, ensuring safety and reliability. Standardized installation holes are reserved on the top surface, allowing direct attachment of peripherals such as material tables, shelves, detection sensors, and distribution boxes. It is widely used in basic mobile operations such as material transfer in factory areas, indoor material distribution, computer room inspection, and venue patrol, with simple deployment and high efficiency.



OSH100-CLT-DIFF-S 底盘+升降立柱模组
Chassis + lifting column module

在OSH80S-DIFF-S原生底盘上模块化加装垂直升降立柱，实现作业台面高度无级可调。升降运行平稳、定位精准，无需改动底盘底层行走与控制系统，插拔式快速集成成型。一机多用拓展性极强。

A modular vertical lifting column is added to the OSH80S-DIFF-S original chassis, enabling stepless adjustment of the workbench height. The lifting operation is smooth and the positioning is precise, without requiring any modifications to the chassis's underlying travel and control system. It features plug-in and quick integration molding. The machine is highly scalable and versatile.



OSH100-LDAT-DIFF-S 底盘+升降+躯干+双机械臂一体化整机
Integrated machine with chassis, lifting mechanism, torso, and dual robotic arms

全功能集成终极方案：OSH80S-DIFF-S移动底盘+升降立柱+躯干机身+多自由度双柔性机械臂一体化组合。底盘负责全域自主移动导航与环境穿梭；升降模组大范围调节作业高度；双机械臂可完成抓取、分拣、拧动、物料接驳、精密操作等精细化动作；大幅缩短整机开发周期，快速落地复合型智能服务与工业作业机器人项目。

Ultimate full-function integration solution: OSH80S-DIFF-S mobile chassis + lifting column + torso body + multi-degree-of-freedom dual flexible robotic arms integrated combination. The chassis is responsible for autonomous mobile navigation and environmental traversal; the lifting module can adjust the working height over a wide range; the dual robotic arms can complete delicate actions such as grasping, sorting, twisting, material transfer, and precision operations; significantly shortening the overall development cycle and quickly launching composite intelligent service and industrial robot projects.

产品核心亮点 Product core highlights



差速灵活穿行 Differential speed, flexible maneuvering

两轮差速驱动转向灵敏，窄通道、复杂室内环境通行顺畅，空间适配性远超重载大底盘；
The two-wheel differential drive steering is agile, ensuring smooth passage through narrow passageways and complex indoor environments. Its spatial adaptability far surpasses that of heavy-duty large chassis;



模块化自由拼装 Modular free assembly

底盘、升降立柱、躯干、机械臂四大模块可拆分选配，按需组合成不同功能机型，适配ODM定制开发；
The four major modules, including the chassis, lifting column, torso, and robotic arm, can be disassembled and selected for assembly into different functional models according to needs, and are suitable for ODM customization and development;



成熟自研底层系统 Mature self-developed underlying system

内置稳定导航算法，自主避障、建图规划、续航回充功能完备，长时间连续运行故障率低；
Equipped with a built-in stable navigation algorithm, it boasts comprehensive functions including autonomous obstacle avoidance, mapping and planning, as well as endurance and recharging. With a low failure rate, it can operate continuously for extended periods;



全开放开发生态 Fully open development ecosystem

多路电源、串口、网口、全面开放，二次开发支持接口ROS1/ROS2/API/SDK;深度支持ODM定制开发。
Multiple power supplies, serial ports, Ethernet ports, fully open, with secondary development support for interfaces ROS1/ROS2/API/SDK, and deep support for ODM customization development.



轻量化安全设计 Lightweight safety design

机身紧凑轻量化布局，标配防撞防护、急停保护，室内人机协同作业更安全稳定。
The compact and lightweight layout of the machine body, coupled with standard anti-collision protection and emergency stop protection, ensures safer and more stable indoor human-robot collaborative operations.

OSH100-DIFF-S从小型转运、定点巡检到双臂柔性操作全覆盖，是室内轻量化自动化场景快速打造专属机器人的高性价比通用移动底座。

OSH100-DIFF-S, from small-scale transportation and fixed-point inspection to full coverage of dual-arm flexible operations, is a cost-effective universal mobile base for quickly building customized robots in indoor lightweight automation scenarios.



OSH100-OMNI-S

自研的模块化通用AMR移动机器人底盘

Autonomous Mobile Robot Platform

OSH100-OMNI-S 是深圳悟时创新自研的模块化通用AMR移动机器人底盘，主打高通用性、强拓展性与稳定可靠的室内自主行走能力，是一站式搭建各类作业机器人的基础移动平台。

OSH100-OMNI-S is a modular, universal AMR mobile robot chassis independently developed by Shenzhen Wushi Innovation. It features high versatility, strong expandability, and stable and reliable indoor autonomous walking ability, serving as a one-stop basic mobile platform for building various types of working robots.



基础裸底盘 Base bare chassis

整机结构紧凑扎实，搭载成熟驱动行走机构与减震悬架设计，车身集成急停按钮、声光警示灯、状态指示灯等安全配置；原生支持SLAM激光导航、自主避障、多点循迹、原地转向、自主回充等核心功能。车身顶面预留充足安装孔位，可直接搭载料箱、货架、输送机构、检测设备等等负载，广泛适配工厂物料转运、园区巡检、仓储搬运、场馆配送等场景，开箱即可快速部署基础运输作业。

The entire machine boasts a compact and sturdy structure, equipped with a mature drive and travel mechanism as well as a shock-absorbing suspension design. The body integrates safety configurations such as emergency stop buttons, sound and light warning lights, and status indicator lights. It natively supports core functions like SLAM laser navigation, autonomous obstacle avoidance, multi-point tracking, in-place steering, and autonomous recharging. The top surface of the body is equipped with ample mounting holes, allowing direct attachment of loads such as material boxes, racks, conveyor mechanisms, and detection equipment. It is widely suitable for scenarios like factory material transfer, park inspection, warehouse handling, and venue distribution, enabling rapid deployment of basic transportation operations right out of the box.



OSH100-CLT-OMNI-S 底盘+升降立柱模组
Chassis + lifting column module

在OSH100-OMNI-S底盘本体上集成垂直升降立柱模块，实现负载高度可调。可根据作业需求精准升降台面，适配高低工位对接、货物上下料、设备巡检观测、自动化接驳等场景；升降运行平稳顺滑，定位精度高，无需额外改造底盘结构，模块化拼接快速成型，轻松打造升降式搬运、升降巡检机器人，大幅拓宽作业适配场景。

The OSH100-OMNI-S chassis body integrates a vertical lifting column module, enabling adjustable load height. The platform can be precisely raised and lowered according to operational needs, adapting to scenarios such as high and low workstation docking, cargo loading and unloading, equipment inspection and observation, and automated transfer. The lifting operation is smooth and stable, with high positioning accuracy. No additional modification to the chassis structure is required, and modular splicing allows for rapid prototyping. This makes it easy to create lifting handling and inspection robots, significantly expanding the operational scenarios.



OSH100-LDAT-OMNI-S 底盘+升降+多自由度机械臂
Chassis + Lifting + Multi-degree-of-freedom Robotic Arm

全形态集成方案：OSH100-OMNI-S移动底盘+升降立柱+柔性多关节机械臂三合一组合。底盘负责全域自主移动导航，升降模组调节作业高度，多关节机械臂完成抓取、搬运、操作、调试等精细化动作。整套系统一体化协同控制，可胜任车间上下料、物料分拣、设备运维操作、智能巡检作业、柔性自动化装配等复杂工况。无需从零开发底层行走、导航控制系统，企业可大幅缩短整机研发周期，快速落地复合型智能作业机器人项目。

Full-form integration solution: a three-in-one combination of OSH100-OMNI-S mobile chassis, lifting column, and flexible multi-joint robotic arm. The chassis is responsible for autonomous mobile navigation across the entire area, the lifting module adjusts the working height, and the multi-joint robotic arm completes delicate actions such as grasping, handling, operating, and debugging. The entire system is controlled in an integrated and collaborative manner, capable of handling complex work conditions such as workshop loading and unloading, material sorting, equipment operation and maintenance, intelligent inspection operations, and flexible automated assembly. Without the need to develop the underlying walking and navigation control system from scratch, enterprises can significantly shorten the overall development cycle and quickly implement complex intelligent work robot projects.

产品核心亮点 Product core highlights



模块化自由拼装 Modular free assembly

底盘、升降、机械臂三大模块可独立拆分、灵活选配，按需组合成不同功能机型，适配多元化定制需求；
The three major modules, namely the chassis, lifting mechanism, and robotic arm, can be independently disassembled and flexibly selected, allowing for the assembly of different functional models according to specific needs, thus accommodating diverse customization requirements;



底层系统成熟稳定 The underlying system is mature and stable

自研导航与运动控制算法，环境适应性强，室内复杂场地自主避障、路径规划稳定可靠；
Self-developed navigation and motion control algorithms, with strong environmental adaptability, enable autonomous obstacle avoidance and stable and reliable path planning in complex indoor environments;



全开放开发生态 Fully open development ecosystem

多路电源、串口、网口、全面开放，二次开发支持接口ROS1/ROS2/API/SDK,深度支持ODM定制开发。
Multiple power supplies, serial ports, Ethernet ports, fully open, with secondary development support for interfaces ROS1/ROS2/API/SDK, and deep support for ODM customization development.



安全防护完备 Complete safety protection

标配急停、声光报警、防撞检测、过载保护等多重安全机制，工业场景运行更安心。
Equipped with multiple safety mechanisms such as emergency stop, audible and visual alarms, collision detection, and overload protection, it ensures safer operation in industrial settings.

OSH100-OMNI-S从基础搬运到精细化操作一站式全覆盖，是工业自动化、智能巡检、柔性物流领域快速落地机器人项目的高性价比通用移动底座。

OSH100-OMNI-S provides one-stop full coverage from basic handling to refined operations, making it a cost-effective and versatile mobile base for rapidly implementing robot projects in the fields of industrial automation, intelligent inspection, and flexible logistics.

OSH200-DIFF-S

重载两轮差速移动机器人底盘

Autonomous Mobile Robot Platform

OSH200-DIFF-S是深圳悟时创新自研载重200kg级重载差速AMR移动底盘，机身结构扎实稳固、承载能力强，采用模块化拓展设计，兼顾重载转运与灵活通行，是工厂仓储自动化搬运、柔性产线物料流转、复合型作业机器人开发的通用高性能移动基座，适配中重载室内工业场景落地使用。

OSH200-DIFF-S is a self-developed heavy-duty differential AMR mobile chassis with a load capacity of 200kg by Shenzhen Wushi Innovation. With a solid and stable body structure and strong carrying capacity, it adopts a modular expansion design, balancing heavy-load transportation and flexible passage. It is a versatile high-performance mobile base for factory warehouse automation handling, flexible production line material circulation, and composite operation robot development, suitable for medium and heavy-load indoor industrial scenarios.



基础裸底盘（原生底盘机型） Basic bare chassis (native chassis model)

整机采用高强度机身架构，额定载重可达200kg，两轮差速驱动转向灵活，既能承载大重量物料平稳行驶，也可在车间通道、仓库库区灵活转向穿梭。底盘内置成熟SLAM激光导航、自主路径规划、智能避障、自动回充全套功能；机身标配急停按钮、氛围警示灯、防撞防护结构，多重安全防护保障人机协同作业稳定。顶面布满标准化安装孔位，兼容性极强，可直接搭载托盘、料架、工装载具、检测设备等等外，广泛应用于车间原料转运、仓库成品运输、厂房物料流转等基础重载搬运场景，开箱即可快速部署自动化输送作业。

The entire machine adopts a high-strength body structure with a rated load capacity of up to 200kg. The two-wheel differential drive steering is flexible, allowing it to not only carry heavy materials and travel smoothly but also maneuver flexibly in workshop corridors and warehouse areas. The chassis is equipped with a full set of mature SLAM laser navigation, autonomous path planning, intelligent obstacle avoidance, and automatic recharging functions. The body comes standard with an emergency stop button, ambient warning lights, and anti-collision protective structure, providing multiple safety protections to ensure stable human-machine collaboration. The top surface is covered with standardized mounting holes, offering strong compatibility and allowing direct attachment of peripherals such as pallets, material racks, tooling carriers, and inspection equipment. It is widely used in basic heavy-load handling scenarios such as workshop raw material transfer, warehouse finished product transportation, and plant material circulation, enabling rapid deployment of automated conveyor operations right out of the box.



OSH200-L-DIFF-S 底盘+举升模组（自动举升搬运方案）
Chassis + lifting module (automatic lifting and handling solution)

在OSH200重载底盘基础上集成液压/电动举升机构，可自主顶起货架、工装托盘，实现无人化自动驮运、工位精准对接。替代人工完成重复性重载搬运工作，有效降低人力成本，提升车间仓储流转效率，是柔性工厂自动化物流的核心搬运载体。

Based on the OSH200 heavy-duty chassis, an integrated hydraulic/electric lifting mechanism is incorporated, enabling autonomous lifting of racks and tooling trays, facilitating unmanned automatic transport and precise docking at workstations. It replaces manual labor in repetitive heavy-duty handling tasks, effectively reducing labor costs and enhancing workshop storage and circulation efficiency. It serves as the core handling carrier for automated logistics in flexible factories.



OSH200-C-DIFF-S 底盘+载物箱体+协作机械臂一体化整机（复合型作业机器人）
Integrated machine of chassis + cargo box + collaborative robotic arm (composite operation robot)

全功能集成一体化方案：OSH200重载底盘+防护载物箱体+多关节协作机械臂组合成型。底盘承担200kg级全域自主移动与重载承载；载物箱体可收纳物料、零部件与电控配件；柔性协作机械臂独立完成物料抓取、分拣、上下料、装配辅助、设备巡检操作等精细化动作。客户无需从零开发底层行走、导航控制系统，大幅缩短整机研发周期，快速落地重载复合型智能作业机器人项目。

Fully functional integrated solution: OSH200 heavy-duty chassis + protective cargo box + multi-joint collaborative robotic arm combination. The chassis undertakes 200kg-level autonomous movement and heavy-duty loading; the cargo box can store materials, components, and electronic control accessories; the flexible collaborative robotic arm independently completes delicate tasks such as material grasping, sorting, loading and unloading, assembly assistance, and equipment inspection operations. Customers do not need to develop the underlying walking and navigation control system from scratch, significantly shortening the overall product development cycle and quickly launching heavy-duty composite intelligent work robot projects.

产品核心亮点 Product core highlights



200kg强劲重载能力 200kg strong heavy-duty capacity

高强度机身与驱动结构设计，载重充沛，重载行驶平稳不颠簸，适配工业中重型物料转运需求；
With a high-strength body and drive structure design, it boasts ample load capacity, ensuring smooth and bumpless operation under heavy loads, perfectly suited to the material transfer needs of industrial heavy-duty applications;



差速灵活通行 Flexible differential speed passage

两轮差速转向结构，原地转向灵活，狭小车间通道、仓库过道穿行顺畅，空间适配性强；
With a two-wheel differential steering structure, it can maneuver flexibly in place, ensuring smooth passage through narrow workshop aisles and warehouse corridors, with strong spatial adaptability;



模块化自由选配拓展 Modularized free selection and expansion

裸底盘、举升机构、载物箱体、协作机械臂四大模块可拆分组合，按需定制机型，支持ODM深度开发；
The four major modules, including the bare chassis, lifting mechanism, cargo box, and collaborative robotic arm, can be disassembled and assembled, allowing for customized models according to needs and supporting in-depth ODM development;



成熟稳定底层系统 Mature and stable underlying system

自研导航运动算法，建图、避障、路径规划可靠，长时间连续作业稳定性强，适配工业7×24小时不间断运行；
Self-developed navigation motion algorithm, reliable mapping, obstacle avoidance, and path planning, strong stability for long-term continuous operation, and suitable for industrial 7x24-hour uninterrupted operation;



多重安全防护体系 Multiple security protection systems

机身急停开关、防撞条、声光警示、过载保护、碰撞检测全方位防护，人机混场作业安全可控；
Comprehensive protection including emergency stop switch on the machine body, anti-collision strip, audible and visual warning, overload protection, and collision detection ensures safe and controllable human-machine mixed operation;



全开放开发生态 Fully open development ecosystem

多路电源、串口、网口、全面开放，二次开发支持接口ROS1/ROS2/API/SDK,深度支持ODM定制开发。
Multiple power supplies, serial ports, Ethernet ports, fully open, secondary development supports interfaces ROS1/ROS2/API/SDK, and deeply supports ODM customization development.

OSH200-DIFF-S集重载转运、自主接驳、柔性操作于一体，从基础物料运输到一体化智能作业全覆盖，是工业厂房、智能仓储打造自动化物流体系的高性价比通用重载移动底盘。

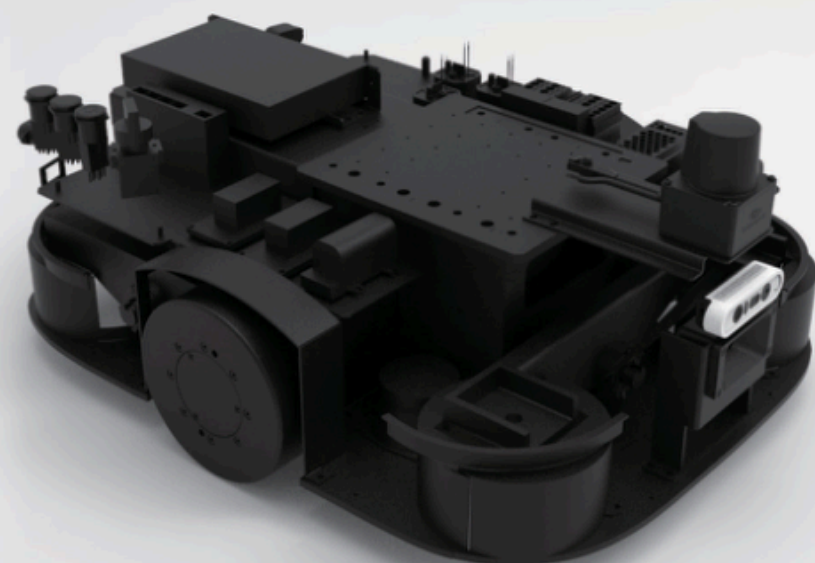
OSH200-DIFF-S integrates heavy-duty transfer, autonomous docking, and flexible operation, providing full coverage from basic material transportation to integrated intelligent operations. It is a cost-effective and versatile heavy-duty mobile chassis for industrial plants and smart warehouses to build automated logistics systems.

OSH100-DIFF-S（无外壳） 裸机模块化差速移动底盘

Autonomous Mobile Robot Platform

OSH100-DIFF-S（无外壳）是深圳悟时创新推出无外壳开放式两轮差速AMR运动底盘，支持客户自主定制外观ID造型，是研发集成、整机定制、复合型作业机器人开发的高性能通用底层平台。

OSH100-DIFF-S (without shell) is an open-type two-wheel differential AMR motion chassis without a shell, launched by Shenzhen Wushi Innovation. It supports customers to customize their own appearance ID design and serves as a high-performance universal underlying platform for R&D integration, complete machine customization, and composite robot development.



基础裸底盘（原生行走底盘） Basic bare chassis (native walking chassis)

整机去除外观外壳，内部驱动电机、导航传感器、电控接口、安装基座完全外露可视，采用两轮差速驱动方案，转向灵敏、原地掉头顺畅，窄道通行能力优异；预装成熟SLAM激光导航、自主避障、路径规划、自主回充核心底层控制系统。适合高校实验室、研发团队开展机器人算法调试、样机研发测试。

After removing the external shell, the entire machine reveals its internal drive motor, navigation sensors, electronic control interface, and mounting base, all of which are fully exposed and visible. It adopts a two-wheel differential drive scheme, featuring sensitive steering and smooth turning in place, and excellent narrow passage passing ability. Pre-installed with a mature SLAM laser navigation, autonomous obstacle avoidance, path planning, and autonomous recharging core underlying control system, it is suitable for university laboratories and R&D teams to carry out robot algorithm debugging, prototype development, and testing.



OSH100-SC-DIFF-S（无外壳） 底盘+剪叉式升降模组
Chassis + scissor lift module

在裸底盘本体上模块化搭载剪叉升降执行机构，依托剪叉结构实现大行程平稳举升，升降负载稳定、升降跨度大、支撑刚性强。快速打造升降式转运机器人、升降巡检作业平台，兼顾灵活移动与大范围高度调节能力。

The modularized scissor lift actuator is mounted on the bare chassis body, relying on the scissor structure to achieve smooth lifting with a large stroke. The lifting load is stable, the lifting span is large, and the support rigidity is strong. It can quickly build a lifting transfer robot and a lifting inspection platform, taking into account both flexible movement and wide-range height adjustment capabilities.



OSH100-FDA-DIFF-S（无外壳） 底盘+折叠支架+躯干+双机械臂一体化机型
Integrated model of chassis + folding bracket + torso + dual robotic arms

集成折叠支撑骨架+躯干机身+多自由度双机械臂，构成轻量化人形作业机器人雏形。底盘负责全域自主导航移动；折叠支架可灵活收纳、调节机身姿态；双柔性机械臂具备多关节活动能力，可完成抓取、分拣、操作、调试等精细化动作，大幅降低整机从零研发的机械结构与底盘控制开发成本。

The integration of a folding support frame, torso body, and multi-degree-of-freedom dual robotic arms constitutes the prototype of a lightweight humanoid working robot. The chassis is responsible for autonomous navigation and movement in all directions; the folding bracket can flexibly store and adjust the body posture; the dual flexible robotic arms have multi-joint mobility, capable of performing delicate actions such as grasping, sorting, operating, and debugging, significantly reducing the development cost of the mechanical structure and chassis control from scratch.



OSH100-LDAE-DIFF-S（无外壳） 底盘+多节电动升降立柱+躯干+双机械臂全功能机型
Chassis + multi-section electric lifting column + torso + dual robotic arms full-function model

裸底盘搭载多节电缸升降+躯干机身+双臂执行机构。升降运行顺滑、定位精准；搭配双臂作业模块，既能大范围升降改变作业区间，又可依靠机械臂完成精密作业操作。集成商可快速落地商用复合型智能机器人整机产品。

The bare chassis is equipped with a multi-segment electric cylinder lifting system, a torso body, and dual-arm actuators. The lifting operation is smooth and precise in positioning. Coupled with the dual-arm operation module, it can not only change the operation area through large-scale lifting but also rely on the robotic arms to complete precision operations. Integrators can quickly deploy commercial composite intelligent robot products.

产品核心亮点 Product core highlights



开放式裸机结构 Open bare-metal architecture

无外壳通透设计，内部元器件、走线、安装点位清晰可见，适配研发二次开发；
The transparent design without a shell allows clear visibility of internal components, wiring, and installation points, facilitating adaptation and secondary development for research and development;



差速高机动通行 High-mobility differential speed passage

两轮差速驱动转向灵活，狭小空间穿梭自如，室内厂区、实验室、办公场地环境适配性广；
With two-wheel differential drive, it offers flexible steering and can maneuver freely in narrow spaces, making it widely adaptable to indoor factory areas, laboratories, and office settings;



极强模块化兼容 Extremely strong modular compatibility

剪叉升降、折叠支架、多级电缸立柱、机械臂四大拓展模块可自由拆分配，拼装灵活多变，定制化空间充足；
The four expansion modules, including scissor lift, folding bracket, multi-level electric cylinder column, and robotic arm, can be freely disassembled and selected, allowing for flexible assembly and ample customization space;



成熟稳定底层控制系统 Mature and stable underlying control system

自研导航与运动控制算法，建图、避障、循迹、续航回充功能完备，长时间连续运行可靠性高；
Self-developed navigation and motion control algorithms, with complete functions of map building, obstacle avoidance, path following, and endurance recharging, ensuring high reliability for long-term continuous operation;



全开放开发生态 Fully open development ecosystem

多路电源、串口、网口、全面开放，二次开发支持接口ROS1/ROS2/API/SDK,深度支持ODM定制开发。
Multiple power supplies, serial ports, Ethernet ports, fully open, with secondary development support for interfaces ROS1/ROS2/API/SDK, and deep support for ODM custom development.



高适配研发场景 Highly adaptable R&D scenario

兼顾商用落地与科研实验，既能快速量产成型机器人，也可满足院校、研发机构机器人样机试制、算法迭代测试需求。
It takes into account both commercial application and scientific research experiments, enabling rapid mass production of robot prototypes while also meeting the needs of universities and research institutions for robot prototype trial production and algorithm iteration testing.

OSH100-DIFF-S裸机底盘是一套从基础移动、升降转运到双臂智能操作全覆盖的开放式机器人开发平台，为各类定制化移动机器人项目提供稳定可靠的底层行走核心支撑。

The OSH100-DIFF-S bare chassis is an open robot development platform that covers everything from basic movement, lifting and transporting to dual-arm intelligent operation, providing stable and reliable underlying walking core support for various customized mobile robot projects.

OSH100-OMNI-DV (无外壳) 四轮全向开放式移动底盘

Autonomous Mobile Robot Platform

OSH100-OMNI-DV四轮全向移动底盘，搭配双电池热插拔供电设计，支持客户定制外观ID，是研发集成、整机定制、复合型作业机器人开发的高性能通用底层平台。

The OSH100-OMNI-DV four-wheel omnidirectional mobile chassis, equipped with a dual-battery hot-swappable power supply design and supporting customizable appearance ID for customers, serves as a high-performance universal underlying platform for R&D integration, complete machine customization, and composite task robot development.



基础裸底盘（原生全向行走基座） Basic bare chassis (native omnidirectional walking base)

采用四轮全向驱动方案，可实现前后直行、横向平移、原地零半径转向，狭小车间、机房、仓储窄巷、复杂室内环境穿行能力远超差速底盘；内置成熟SLAM激光导航、自主路径规划、智能避障、自主回充全套控制系统。标配双电池仓热插拔结构，无需整机断电停机即可快速更换电池，也适合科研样机开发、项目前期调试验证。客户可设计专属外观ID，打造差异化整机产品。

Adopting a four-wheel omnidirectional drive scheme, it can achieve forward and backward straight travel, lateral translation, and zero-radius turning in place. Its ability to navigate through narrow workshops, machine rooms, storage alleys, and complex indoor environments far exceeds that of differential chassis. It is equipped with a mature SLAM laser navigation system, autonomous path planning, intelligent obstacle avoidance, and a complete control system for autonomous recharging. The standard configuration includes a dual-battery compartment with a hot-swappable structure, allowing for quick battery replacement without requiring the entire machine to be powered off and stopped. It is also suitable for research prototype development and early-stage project debugging and verification. Customers can design their own unique appearance ID to create differentiated complete machine products.



OSH100-SC-OMNI-DV 底盘+剪叉式升降模组
Chassis + scissor lift module

在全向底盘本体上模块化加装剪叉式大行程升降机构，剪叉结构刚性强、举升稳定、升降跨度大，运行过程晃动小、定位精度高。模块化装配无需改动底层导航与运动控制系统，升降模组上可适配不同的上层结构集成难度低、落地速度快。

A scissor-type large-stroke lifting mechanism is modularly installed on the omnidirectional chassis body. The scissor structure features strong rigidity, stable lifting, large lifting span, minimal shaking during operation, and high positioning accuracy. Modular assembly requires no changes to the underlying navigation and motion control system. The lifting module can be adapted to different upper structures with low integration difficulty and fast implementation speed.



OSH100-FDA-OMNI-DV 底盘+折叠支架+躯干+双机械臂一体化机型
Integrated model of chassis + folding bracket + torso + dual robotic arms

集成折叠支架+躯干+机械臂，打造移动式双臂作业机器人。折叠支架可灵活收放调节机身姿态，机械臂动作灵活，可完成物料抓取、分拣、设备操作、工况调试等精细化作业。大幅降低客户从零开发机械结构、底盘运动控制的研发周期与成本。

Integrating a folding stand, torso, and robotic arm, we create a mobile dual-arm operating robot. The folding stand allows for flexible adjustment of the robot's posture, while the robotic arm is agile and capable of performing delicate tasks such as material grasping, sorting, equipment operation, and working condition debugging. This significantly reduces the development cycle and cost for customers who would otherwise have to develop mechanical structures and chassis motion control from scratch.



OSH100-LDAE-OMNI-DV 底盘+多级电缸升降立柱+躯干+双机械臂全功能整机
Chassis + multi-level electric cylinder lifting column + torso + dual robotic arms full-function complete machine

全向底盘搭载多节电缸升降+躯干+双臂。多节电缸可实现超大行程调节，搭配双臂作业单元，既能大范围调整作业高度覆盖高低跨度工况，又可依靠机械臂完成精密操作任务。搭配热插拔双电池供电，既支持长时间稳定商用落地，也方便客户二次开发、外观ID定制化改版。

The omnidirectional chassis is equipped with a multi-segment electric cylinder lifting system, a torso, and dual arms. The multi-segment electric cylinder allows for ultra-large range adjustment. When paired with the dual-arm work unit, it can not only adjust the working height over a wide range to cover high and low span working conditions but also rely on the robotic arms to complete precise operation tasks. Equipped with hot-swappable dual battery power supply, it not only supports long-term stable commercial use but also facilitates secondary development and customized appearance ID modifications for customers.

产品核心亮点 Product core highlights



四轮全向高机动行走 Four-wheel all-direction high-mobility walking

支持横移、原地掉头、全方位灵活走位，狭窄空间通行适应性极强，复杂室内场地调度效率更高；
It supports lateral movement, turning on the spot, and flexible positioning in all directions, making it highly adaptable to narrow spaces and more efficient in complex indoor venue scheduling;



双电池热插拔供电 Dual-battery hot-swap power supply

双仓独立电池设计，不停机快速换电，无需整机断电停工，完美适配工业7×24小时连续作业场景；
The dual-battery independent design allows for quick battery swapping without halting the machine, eliminating the need for complete power shutdown and downtime, perfectly fitting the industrial 7x24-hour continuous operation scenario;



开放式裸机结构+ID定制自由 Open bare-metal architecture + ID customization freedom

无外壳通透布局，客户可独立设计专属外观壳体，打造品牌差异化整机；
With a transparent layout without a shell, customers can independently design their own appearance shell to create a brand-differentiated complete machine;



模块化多元拓展 Modular and diversified expansion

剪叉升降、折叠升降、多节电缸升降、双臂模组可自由拆分配选，从基础转运到智能操作多形态灵活组合；
Scissor lift, folding lift, multi-section electric cylinder lift, and dual-arm module can be freely disassembled and selected, allowing flexible combination from basic transfer to intelligent operation in multiple forms;



成熟稳定底层控制系统 Mature and stable underlying control system

自研导航运动算法，建图、避障、循迹、自动回充性能可靠，长时间重载运行稳定性优异；
Self-developed navigation motion algorithm, with reliable performance in map building, obstacle avoidance, path following, and automatic recharging, and excellent stability for long-term heavy-load operation;



全开放开发生态 Fully open development ecosystem

多路电源、串口、网口、全面开放，二次开发支持接口ROS1/ROS2/API/SDK,深度支持ODM定制开发。
Multiple power supplies, serial ports, Ethernet ports, fully open, with secondary development support for interfaces ROS1/ROS2/API/SDK, and deep support for ODM customization development.

OSH100-OMNI-DV集全向灵活移动、便捷续航运维、高度定制拓展于一体，覆盖基础转运、升降接驳、双臂智能作业全场景，是打造高端定制化移动机器人的高性能底层核心底盘。

The OSH100-OMNI-DV integrates omnidirectional flexible mobility, convenient battery life and operation and maintenance, and high customization and expansion capabilities. It covers the full range of scenarios including basic transportation, lifting and docking, and dual-arm intelligent operations. It serves as a high-performance underlying core chassis for creating high-end customized mobile robots.

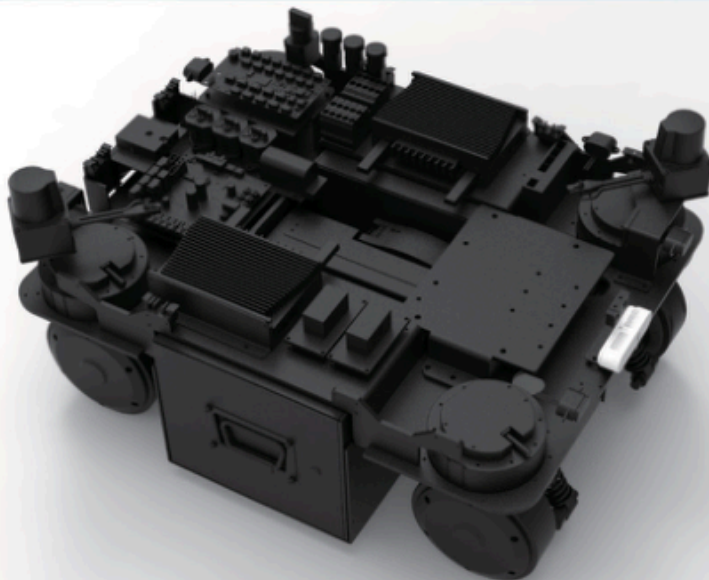


OSH100-OMNI-DH (无外壳) 四轮全向开放式移动底盘

Autonomous Mobile Robot Platform

OSH100-OMNI-DH四轮全向底盘，搭配双电池热插拔供电系统，移动灵活、续航运维高效；支持客户自主定制专属外观ID，是机器人研发集成、商用整机开发、科研项目试制的高性能通用底层运动平台。

The OSH100-OMNI-DH four-wheel omnidirectional chassis, equipped with a dual-battery hot-swappable power supply system, offers flexible mobility and efficient operation and maintenance. It supports customers in customizing their own unique appearance ID, making it a high-performance universal underlying motion platform for robot research and development integration, commercial machine development, and scientific research project prototyping.



基础裸底盘（原生全向行走基座） Basic bare chassis (native omnidirectional walking base)

四轮全向行走结构，可实现前后直行、横向平移、原地零半径转向，车间窄通道、机房、仓储复杂狭小空间穿行能力极强；预装成熟SLAM激光导航、自主路径规划、智能避障、自动回充全套控制系统。

标配双电池仓热插拔不停机换电，无需整机断电即可快速更替电池，；适配高校实验室、研发团队样机调试、算法验证。客户可设计专属外观ID，打造差异化品牌整机产品。

The four-wheel omnidirectional walking structure allows for straight forward and backward movement, lateral translation, and zero-radius turning in place, providing strong traversal capabilities in narrow passageways between workshops, machine rooms, and complex and small spaces in warehouses. It is pre-equipped with a mature SLAM laser navigation system, autonomous path planning, intelligent obstacle avoidance, and an automatic recharging control system. The standard configuration features dual battery compartments with hot-swappable battery replacement without machine downtime, allowing for quick battery swaps without the need to power off the entire machine. It is suitable for prototype debugging and algorithm verification in university laboratories and R&D teams. Customers can design their own unique appearance ID to create differentiated branded complete machine products.



OSH100-SC-OMNI-DH 底盘+剪叉式升降模组
Chassis + scissor lift module

在全向底盘基础上模块化加装剪叉大行程升降机构，剪叉结构承载刚性强、举升运行平稳、升降行程充足、定位精度稳定。模块化拼接集成简单，无需改动底盘导航与运动底层程序，升降模组上可适配不同的上层结构落地周期短，可快速打造全向升降机器人平台。

Based on the omnidirectional chassis, a modular scissor-type large-stroke lifting mechanism is added. The scissor structure features strong load-bearing rigidity, stable lifting operation, sufficient lifting range, and stable positioning accuracy. The modular splicing and integration are simple, without the need to modify the chassis navigation and motion underlying programs. Different upper structures can be adapted to the lifting module with a short landing cycle, enabling the rapid construction of an omnidirectional lifting robot platform.



OSH100-FDA-OMNI-DH 底盘+折叠+躯干+双机械臂一体化机型
Integrated model of chassis, folding mechanism, torso, and dual robotic arms

集成折叠+仿生躯干+多自由度双柔性机械臂，搭建移动式双臂作业机器人本体。折叠支架可灵活收放调节机身姿态，结构紧凑轻量化；多关节机械臂动作柔顺灵活，可独立完成物料抓取、分拣拆装、设备运维操作、工况调试等精细化作业。大幅降低客户从零开发机械结构、运动控制系统的研发投入与周期。

Integrating folding technology, bionic torso, and multi-degree-of-freedom dual flexible robotic arms, we have constructed a mobile dual-arm operation robot body. The folding bracket allows for flexible adjustment of the robot's posture, ensuring a compact and lightweight structure. The multi-joint robotic arms exhibit smooth and flexible movements, enabling them to independently perform delicate tasks such as material grasping, sorting and disassembly, equipment maintenance and operation, and working condition debugging. This significantly reduces the customer's investment and cycle in developing mechanical structures and motion control systems from scratch.



OSH100-LDAE-OMNI-DH 底盘+多级电缸升降立柱+躯干+双机械臂全功能整机
Chassis + multi-level electric cylinder lifting column + torso + dual robotic arms full-function complete machine

全配置集成终极方案：全向底盘搭载多节电动升降立柱+躯干机身+双臂执行模块。多节电缸可实现超大行程无级高度调节，升降顺滑无抖动、锁止稳固可靠；搭配双臂作业单元，大范围覆盖高低跨度作业区间，开放式底层架构+热插拔双电池供电，兼顾长时间商用稳定运行与二次开发自由度，适配各类定制化整机批量落地。

Ultimate fully-configured integration solution: The omnidirectional chassis is equipped with a multi-segment electric lifting column, a torso body, and a dual-arm execution module. The multi-segment electric cylinder enables ultra-large-range stepless height adjustment, with smooth lifting without jitter and stable and reliable locking; paired with a dual-arm work unit, it covers a wide range of high and low span work areas. The open-type underlying architecture, coupled with hot-swappable dual-battery power supply, balances long-term stable commercial operation and freedom for secondary development, making it suitable for the batch implementation of various customized complete machines.

产品核心亮点 Product core highlights



四轮全向超强机动性 Four-wheel omnidirectional super maneuverability

支持横移、原地掉头、全方位走位灵活，狭窄复杂场地调度效率远超普通差速底盘；
Supporting lateral movement, turning in place, and flexible all-around positioning, its efficiency in maneuvering in narrow and complex spaces far exceeds that of ordinary differential chassis;



双电池热插拔长效续航 Dual-battery hot-swappable for long-lasting battery life

双仓独立供电，不停机快速换电，保障工业7×24小时不间断作业，运维便捷省心；
Dual-storage independent power supply, quick battery change without downtime, ensuring 7x24 hours uninterrupted operation in industry, with convenient and worry-free operation and maintenance;



开放式裸机+ID自由定制 Open bare metal + ID free customization

无外壳通透布局，机身预留充足结构空间，支持客户自主设计外观壳体，塑造产品差异化；
The transparent layout without a shell design provides ample structural space for the body, allowing customers to independently design the appearance and shell, thus creating product differentiation;



模块化灵活拓展选配 Modular and flexible expansion options

剪叉升降、折叠升降、多节电缸升降、双臂模组可自由拆分组合，从基础转运到智能双臂作业多形态快速成型；
Scissor lift, folding lift, multi-section electric cylinder lift, and dual-arm module can be freely disassembled and assembled, enabling rapid prototyping from basic transfer to intelligent dual-arm operation in multiple forms;



成熟可靠底层控制系统 Mature and reliable underlying control system

自研导航与运动算法，建图、避障、循迹、自主回充性能稳定，长时间重载连续运行故障率低；
Self-developed navigation and motion algorithms ensure stable performance in map building, obstacle avoidance, path following, and autonomous recharging, with a low failure rate during long-term heavy-load continuous operation;



全开放开发生态 Fully open development ecosystem

多路电源、串口、网口、全面开放，二次开发支持接口ROS1/ROS2/API/SDK,深度支持ODM定制开发。
Multiple power supplies, serial ports, Ethernet ports, fully open, with secondary development support for interfaces ROS1/ROS2/API/SDK, and deep support for ODM customization development.

OSH100-OMNI-DH融合全向灵活行走、便捷换电运维、高度定制拓展能力，覆盖基础物料转运、升降工位接驳、双臂智能精细化作业全场景，是打造高端定制化商用移动机器人的高性能核心底盘载体。

OSH100-OMNI-DH integrates omnidirectional flexible movement, convenient battery swapping and operation and maintenance, and high customization and expansion capabilities. It covers the entire spectrum of basic material transfer, lifting and lowering station connection, and dual-arm intelligent precision operations. It serves as a high-performance core chassis carrier for creating high-end customized commercial mobile robots.



----- 为您打造专属具身智能机器人 -----

- BUILD YOUR OWN EMBODIED INTELLIGENT ROBOT FOR YOU