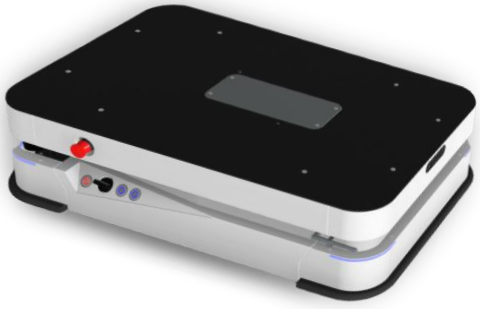
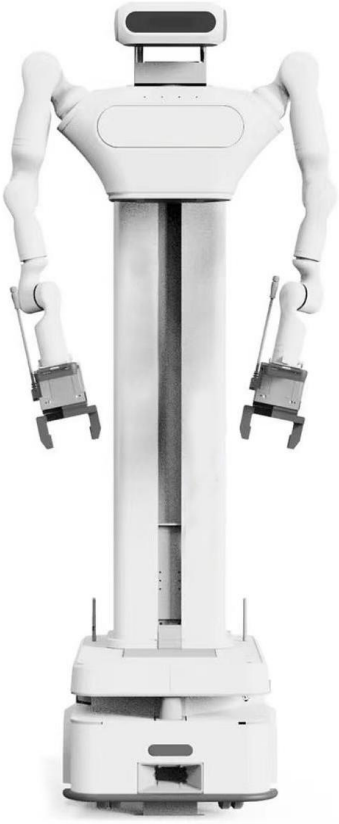
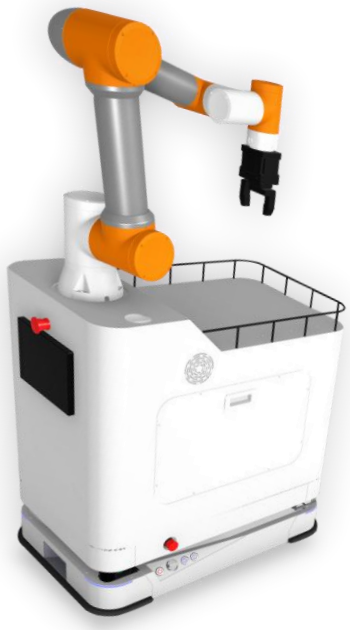
SAMiR® Series

Future Space Autonomous Mobile Intelligent Robot

A new generation robotic solution







www.wooshrobot.com

Woosh Innovation

Product images in this catalog are for reference purposes only. The actual product's appearance and specifications may vary.

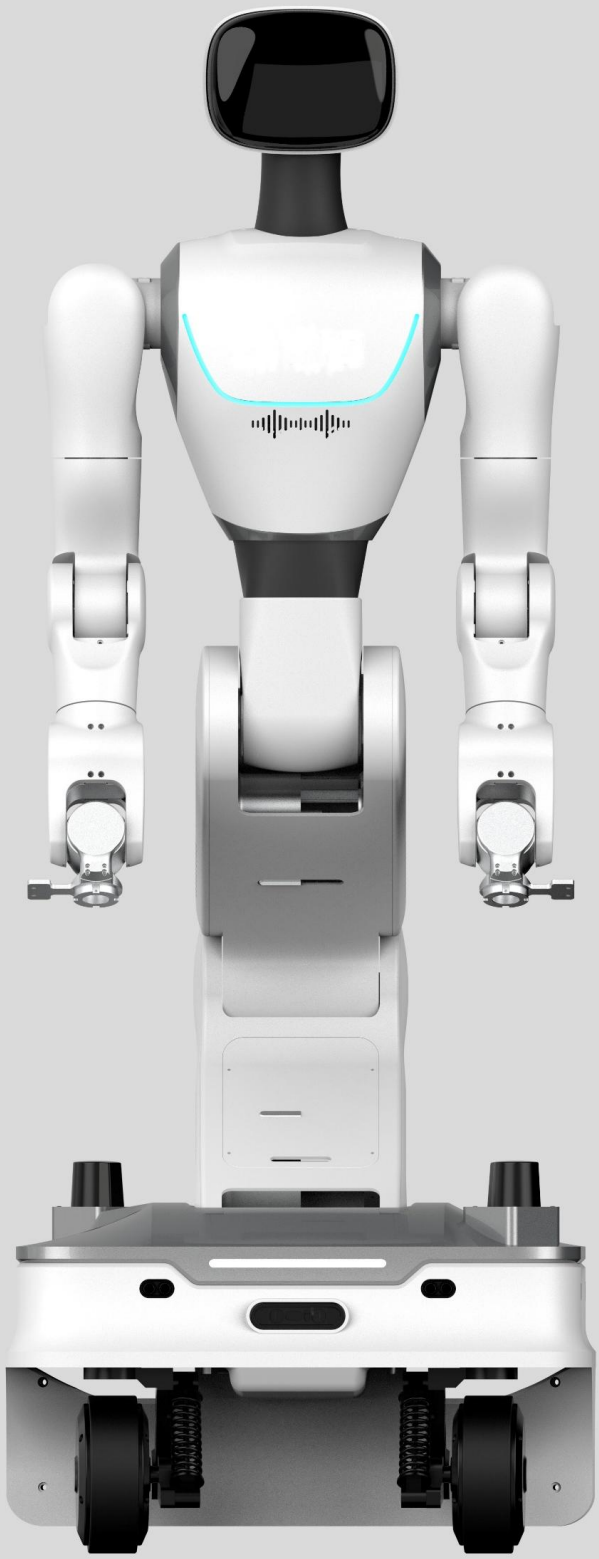
Woosh Innovation

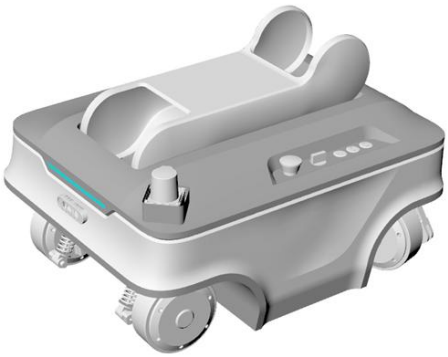
Founded in 2023, the team focuses on the research and development of core technologies for intelligent robots, providing flexible material handling and dexterous manipulation solutions for embodied intelligence, indoor logistics, and smart factories. The products include the SAMiR-Ei embodied intelligence series, the SAMiR-Omni omnidirectional autonomous mobile robots, the SAMiR-Arm collaborative robots, the SAMiR SWARM robot solution, the SAMiR-LLM control solution using large language model, and the SAMiR-MS cross-platform management and scheduling system.

With deep industry expertise in embodied intelligence, robot hardware and software design, ROS, robot navigation, IoT, and digitalization, the team empowers logistics optimization and industrial upgrading across intelligent manufacturing, warehousing, retail, healthcare, and beyond.

Next Generation of Embodied Intelligence

SAMiR-Ei Pro robot utilizes its superior maneuverability to achieve wider-ranging and more complex manipulation tasks.

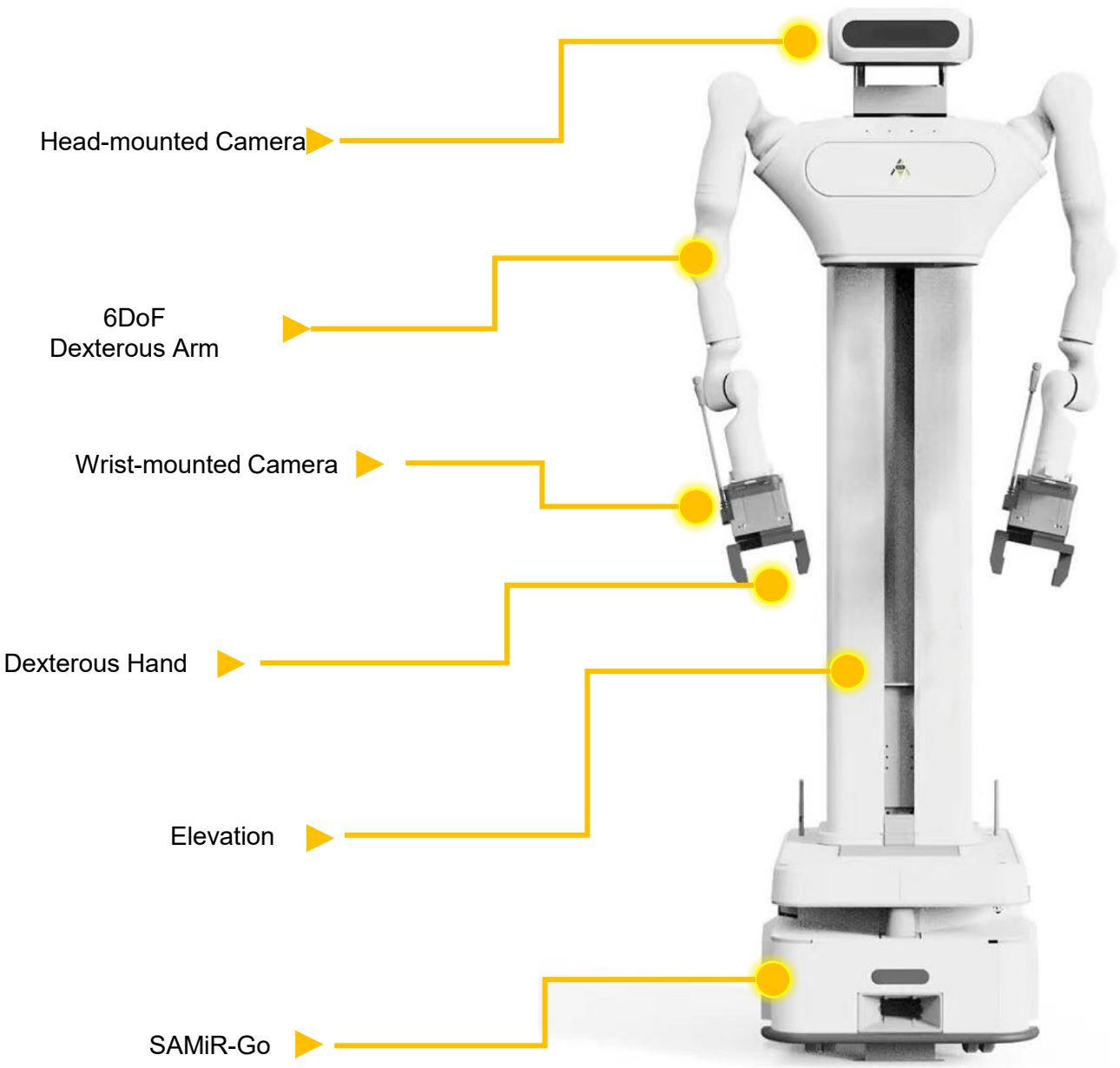




Cooperating with users to design customized high-precision embodied intelligence solutions.

Humanoid Embodied Intelligence and LLM Brain

SAMiR®-E utilizes embodied intelligence to engage customers in a natural, human-like way, delivering proactive assistance.



Embodied Intelligence SAMiR®-Ei

SAMiR ®-Ei allows engaging in more natural and nuanced conversations, understanding complex language and context.

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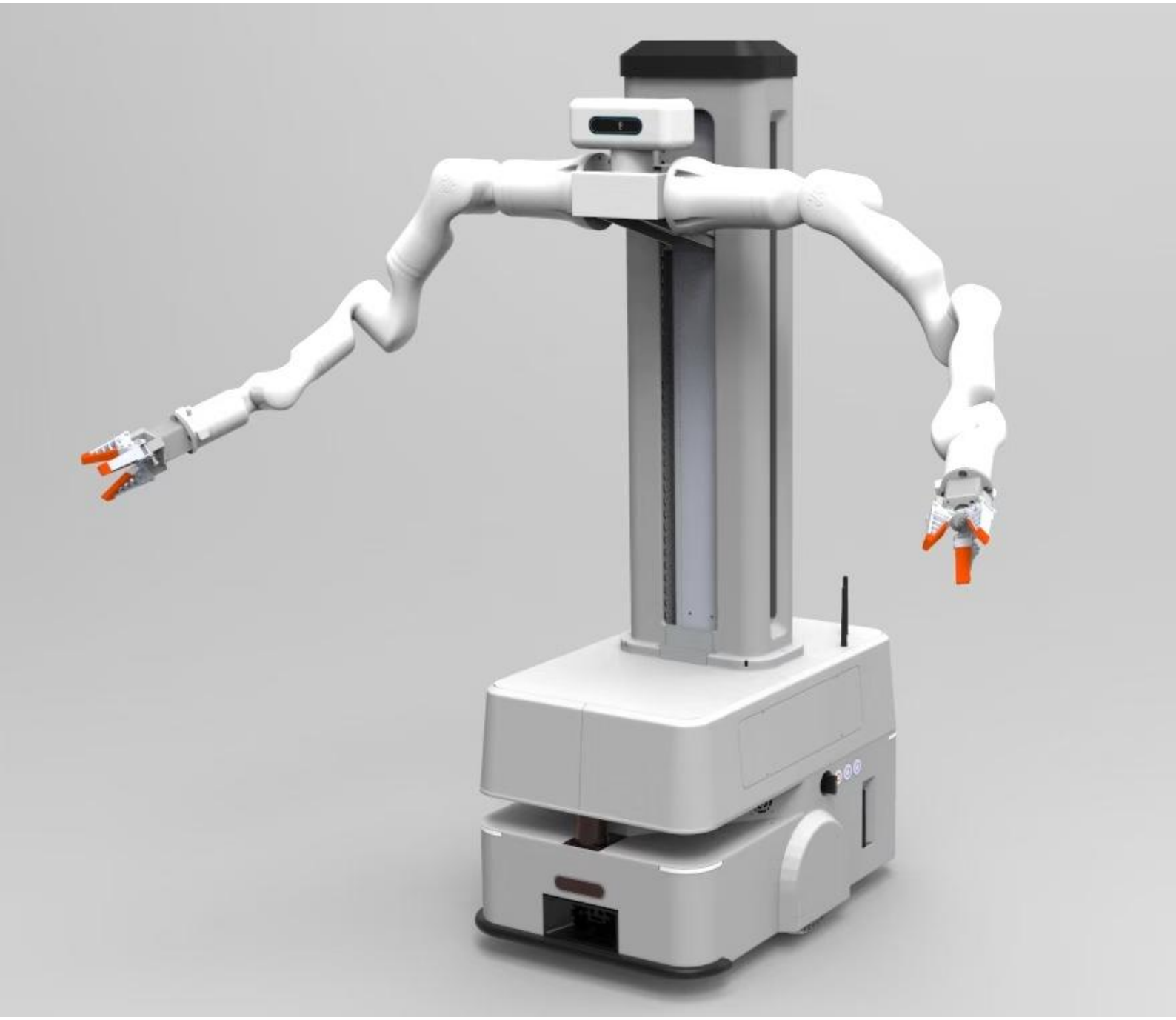
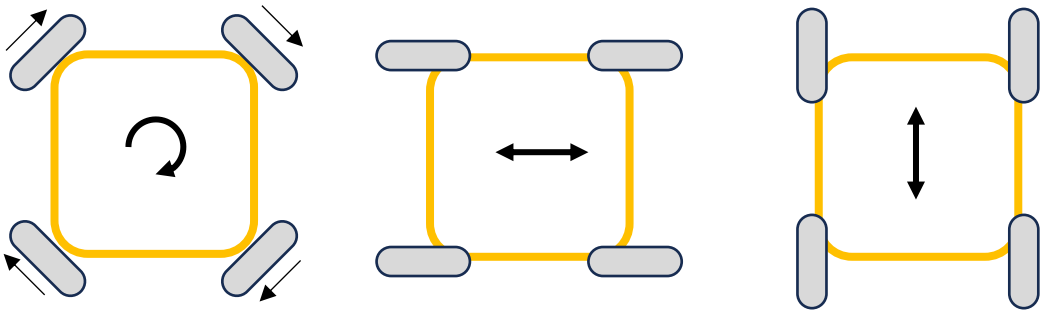
Omnidrive Robots for All Embodied Intelligence

SAMiR®-O omnidrive robots offer full 360° movement, allowing them to navigate complex trajectories and crowded, confined spaces. This omnidirectional capacity includes the ability to turn sideways and pivot on the spot.



A New Generation Embodied Intelligence **SAMiR®-Omni**

SAMiR ®-Omni is the best option in situations requiring extreme maneuverability in tight environments.



360-degree omnidirectional drive greatly improves the robot's maneuverability

Four-wheel powerful drive

High-precision lifting platform to expand working space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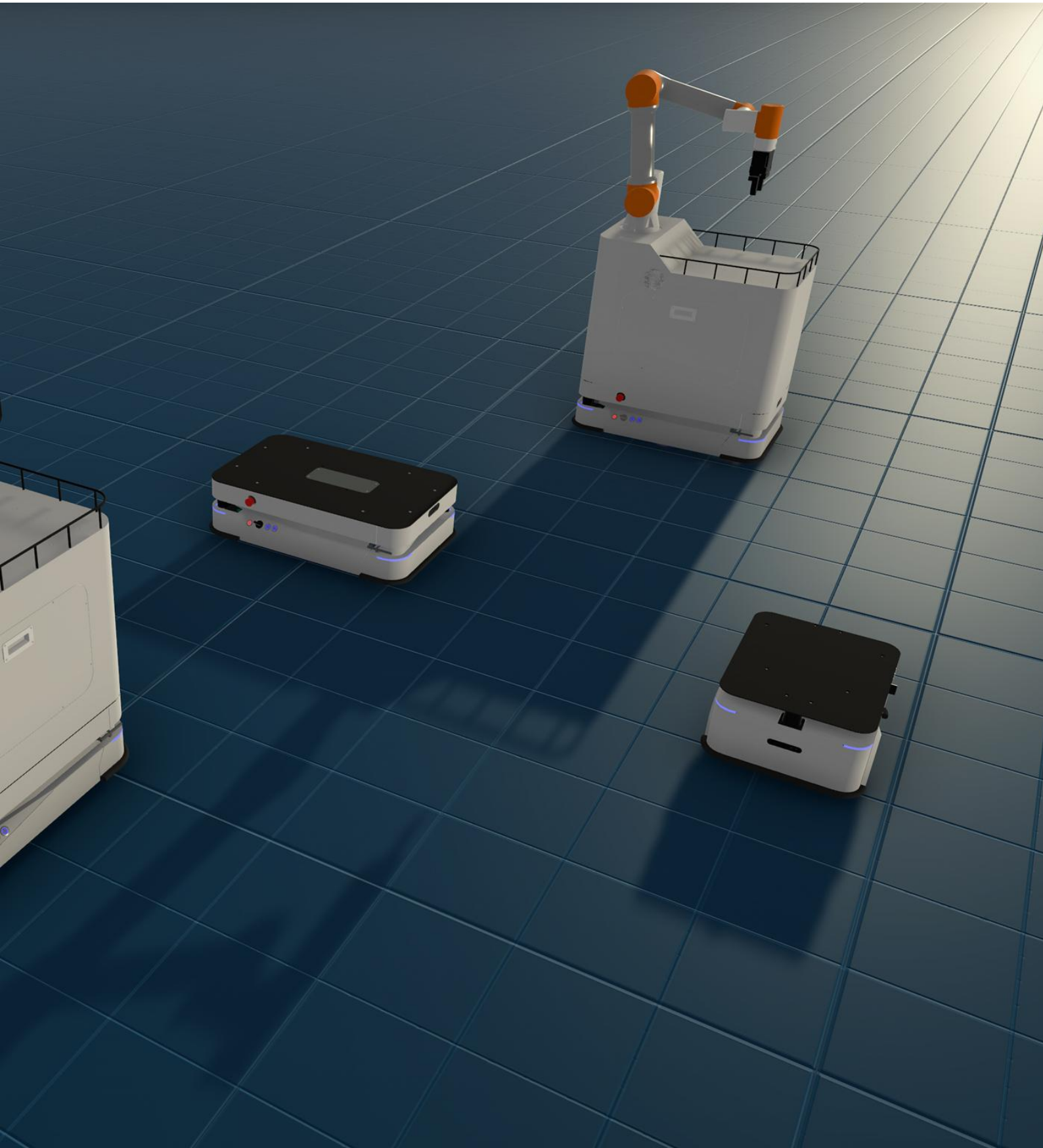
Logistics optimization and digital upgrade for future factories, smart manufacturing, warehousing and logistics, supermarkets and retail, smart healthcare and other fields.

SAMiR® Series Redefines Logistics Workflows

The SAMiR® robot series is designed to optimize logistics operations by maximizing internal transportation and material handling. SAMiR® series products and innovative solutions address a diverse range of workflows, catering to the unique needs of small and mid-sized manufacturers as well as large distribution centers.



Flexibility

Operate in dynamic and changing environments, without the need for fixed infrastructure like guide rails or tracks.

Autonomy

Navigate, make decisions and perform tasks autonomously using advanced sensors, cameras, and SLAM technologies.

Scalability

Easy to scale up or down the number of autonomous mobile robots in a fleet to meet changing demands.

Efficiency

Complete the given tasks in a timely manner and lead to increased productivity and reduced operational costs.

Safety

Operate safely in shared spaces with many robots when detecting obstacles, rerouting, and avoiding collisions.

Collaboration

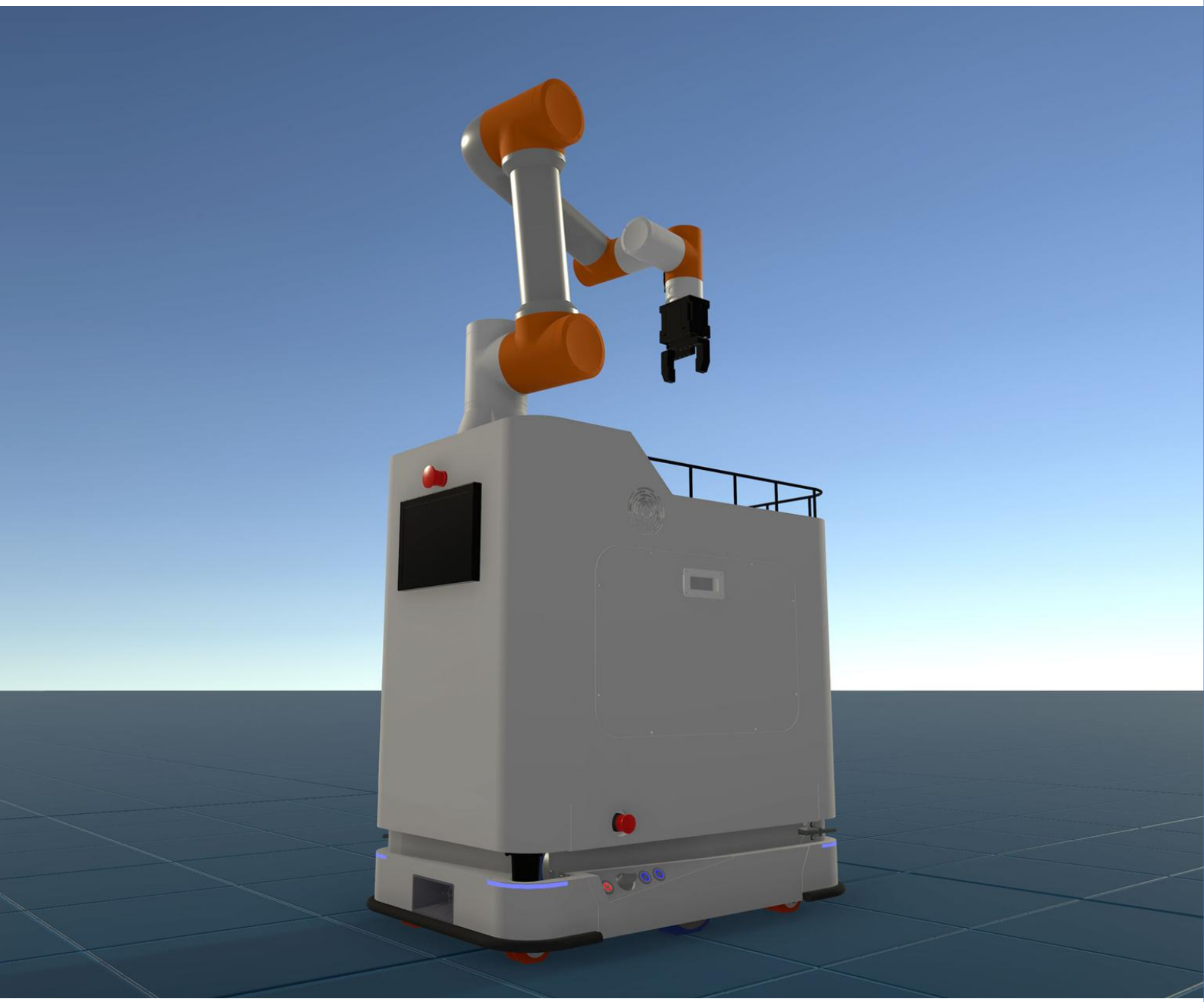
Cooperate with humans and allow humans to halt operations immediately in case of an emergency or unforeseen situation.

Auto-recharging

Recharge automatically when battery levels drop below a certain threshold. This enhances operational efficiency and minimizes downtime.

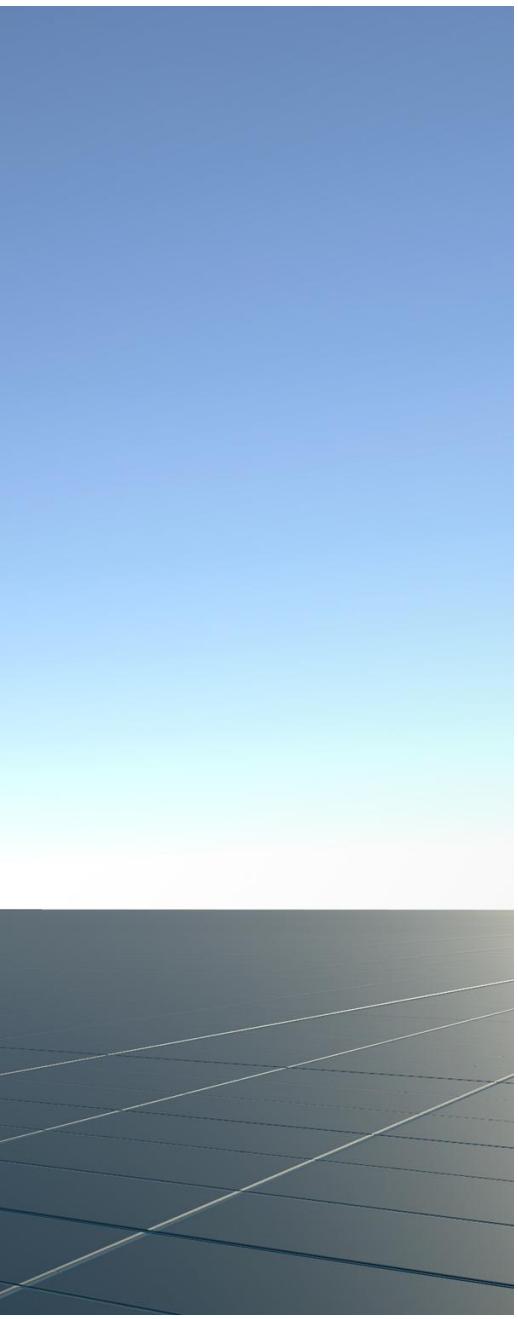
Flexible Transportation and Material Handling

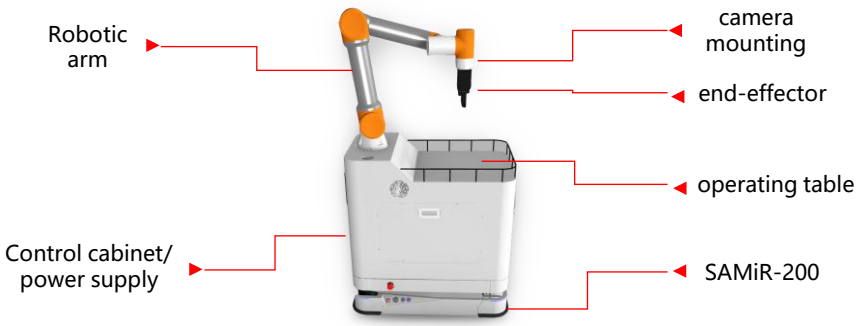
SAMiR®-ARM is dedicated to facilitating the flexible, smooth, and autonomous transportation and handling of materials and precision instrument components.



SAMiR®-ARM

SAMiR®-ARM is built upon the mobile robot SAMiR®-200/300 and features a 6-axis collaborative robotic arm along with a variety of end effectors.





Loading and unloading in semiconductor application

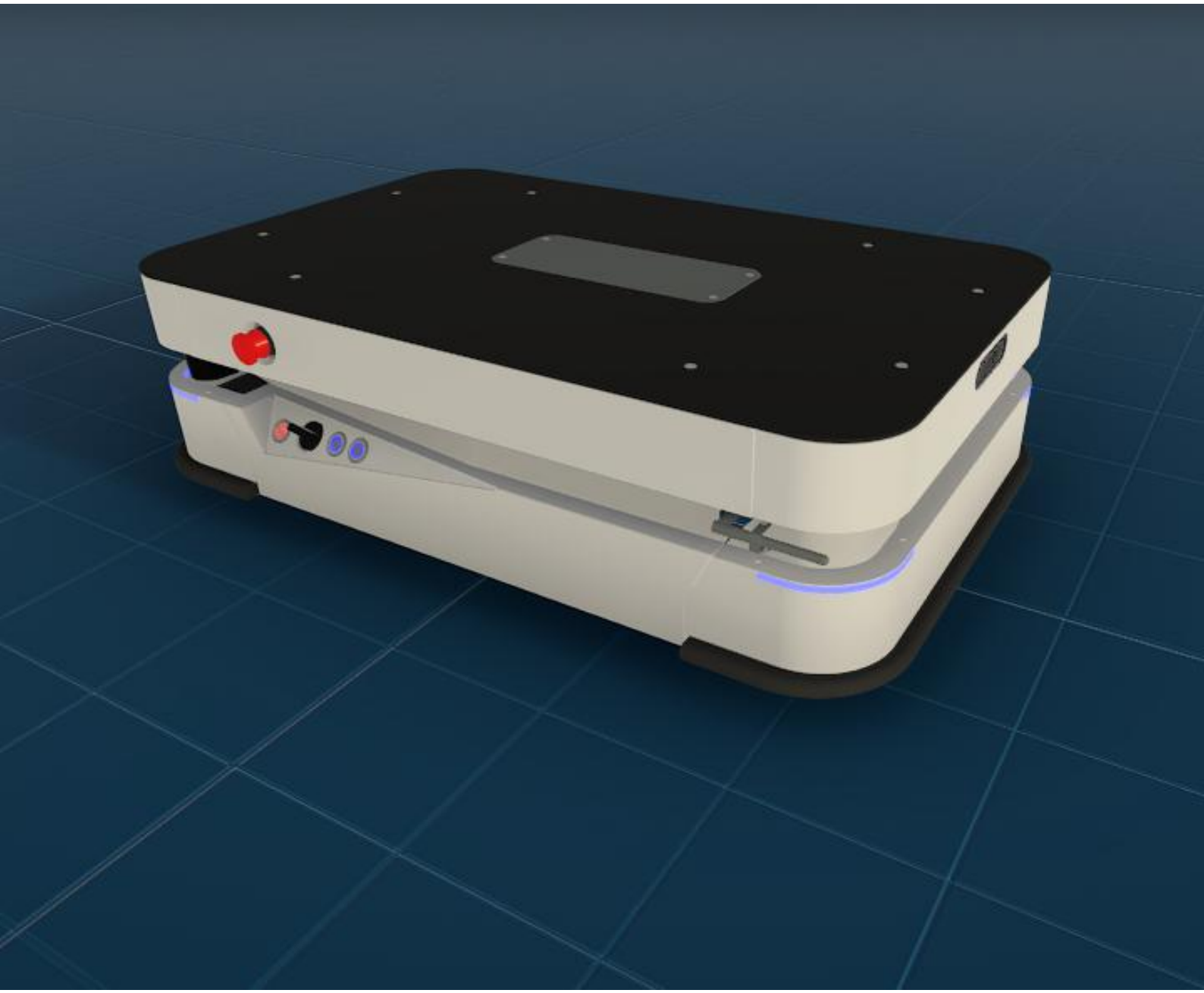
Scientific research

Innovation competition

Customized design

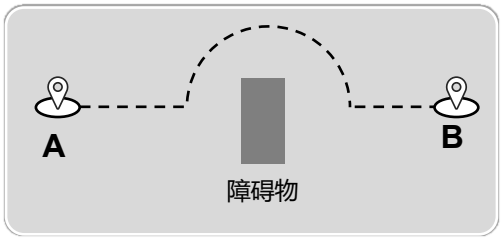
A Better Autonomous Internal Transportation

SAMiR®-200/300 excels in flexible, smooth, and autonomous internal transportation. Relying on LiDARs, cameras and advanced SLAM technologies, SAMiR®-200/300 navigates, makes decisions and performs transportation tasks autonomously.



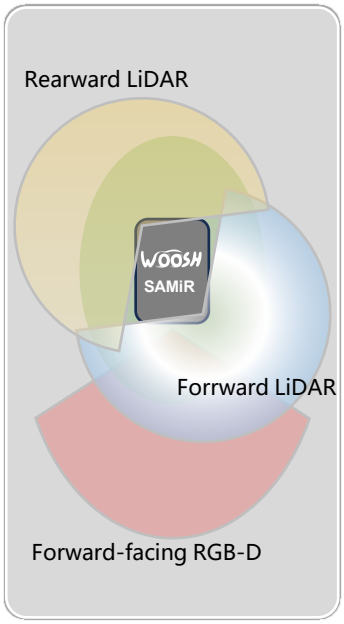
SAMiR®-200/300

SAMiR®-200 and SAMiR®-300 have payload 200Kg and 300Kg, respectively, with a towing capacity of up to 500Kg and with running time up to 10 hours. SAMiR®-200 and SAMiR®-300 can be mounted with customized top modules such as bins, racks, lifts, conveyors, or even a collaborative robot arm.



Trackless autonomous navigation between two or more points

Easily climb over slopes and speed bumps along the way



Front and rear LiDAR for all-round safety protection

Automatic charging

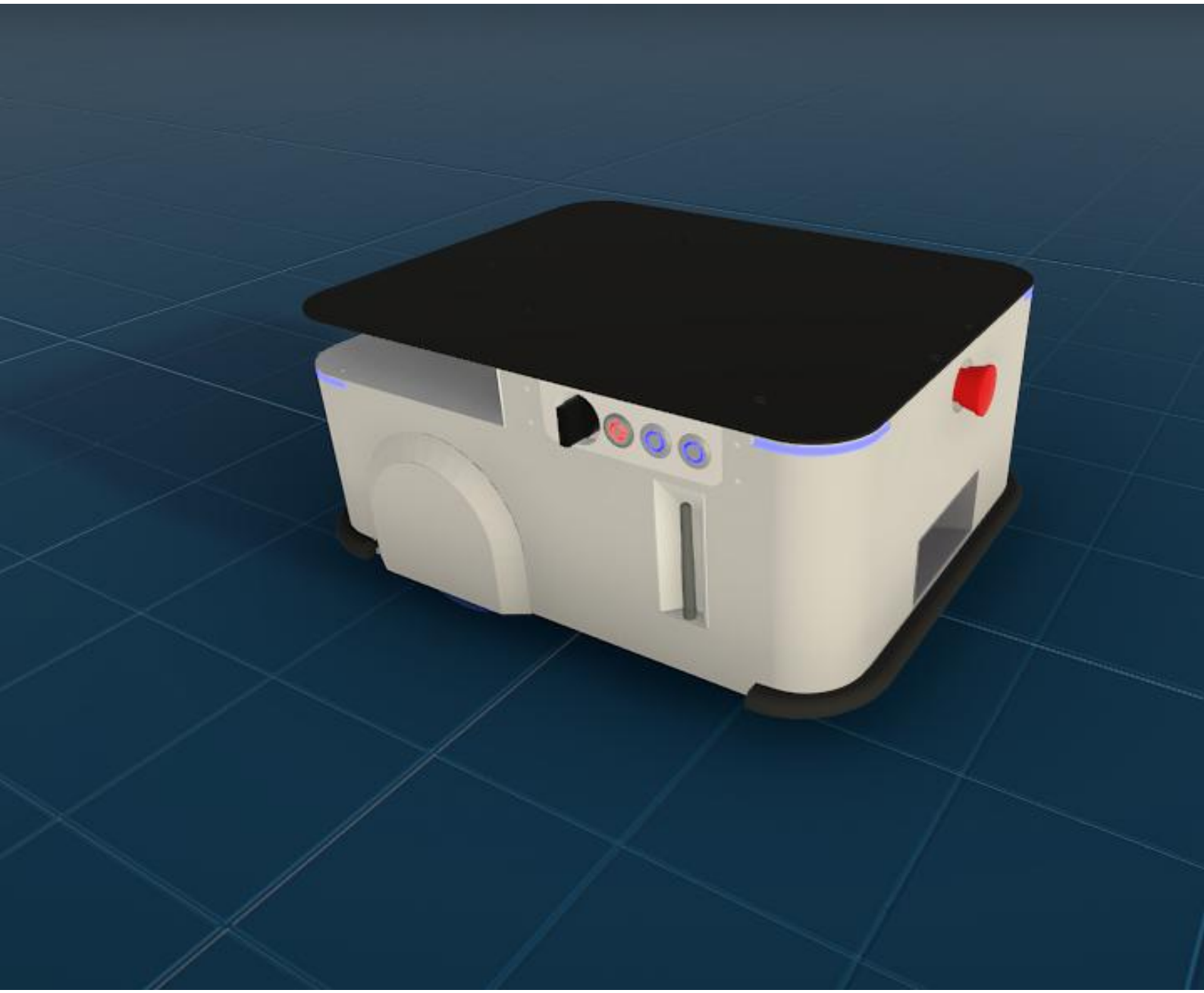
High load, strong power

Automatic positioning & lifting

Multi-robot collaboration

Open-Source Versatile Robots for Education

SAMiR®-50 is designed for education, research and product development purposes with open-source software. SAMiR®-50 comes with various sensors, such as cameras, depth sensors, and LiDAR, working seamlessly with ROS/ROS2 and open-source algorithms.

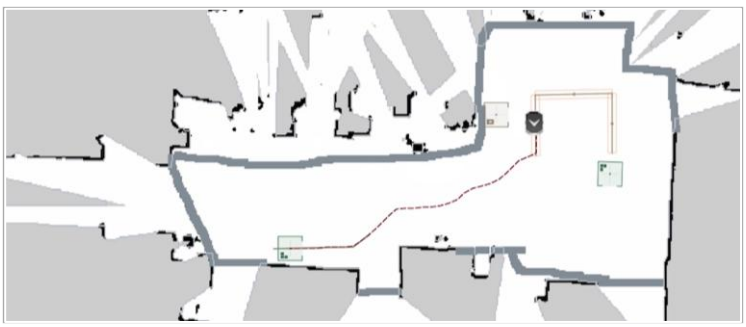


SAMiR®-50

SAMiR®-50 can see in 3D, autonomously drives around using SLAM, and has enough horsepower to create exciting applications. By adding additional sensors, actuators, or other hardware components, SAMiR®-50 can be extended and customized for a wide range of education, research and development projects.

ROS + GitHub

The educational version is fully open source, offering robust support for both ROS 1 and ROS 2, and is designed to facilitate extensive secondary development.

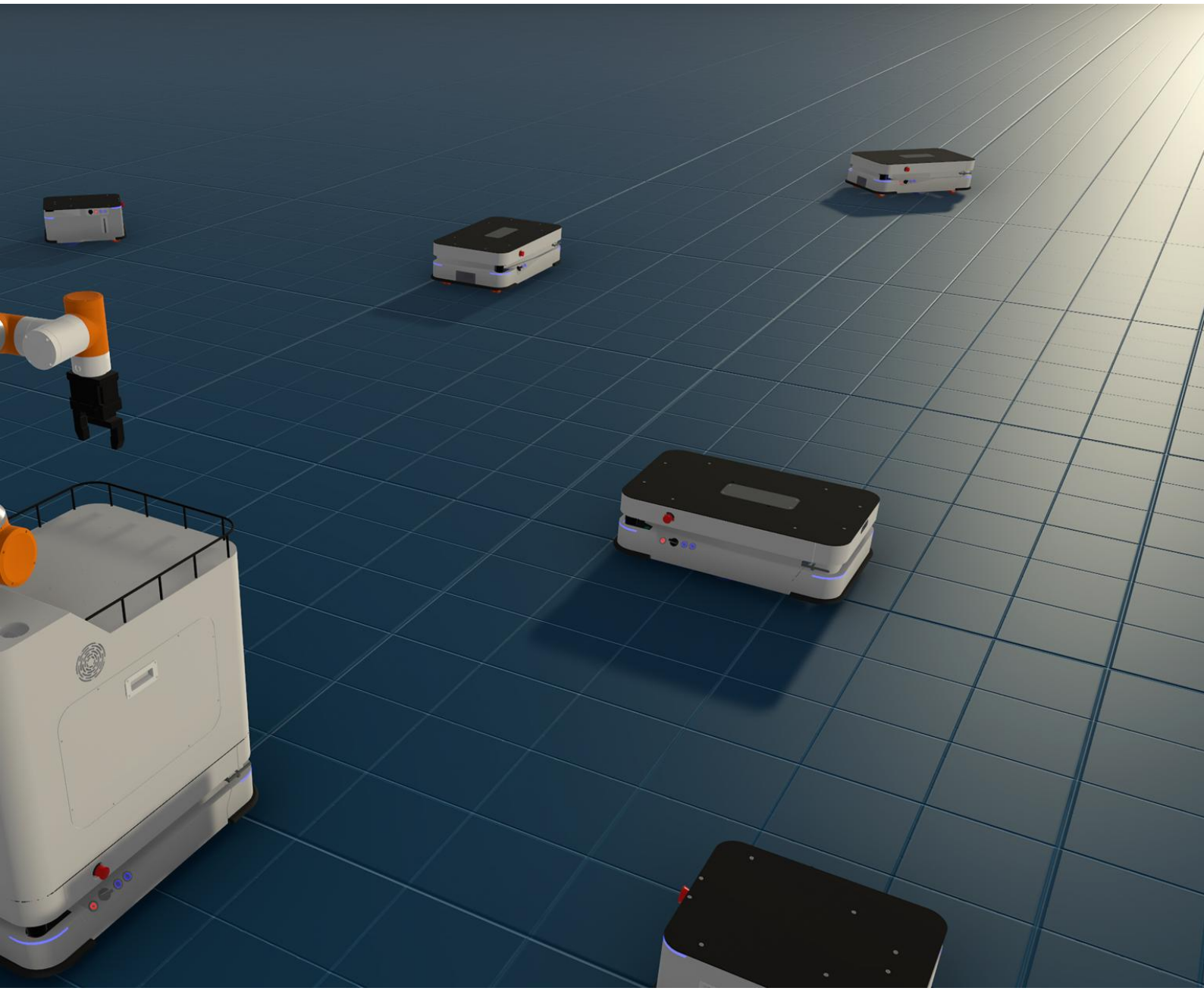


RGB cameras, depth cameras, and lidar support customized mapping and navigation

Providing support for maker practice, innovation projects, and competitions

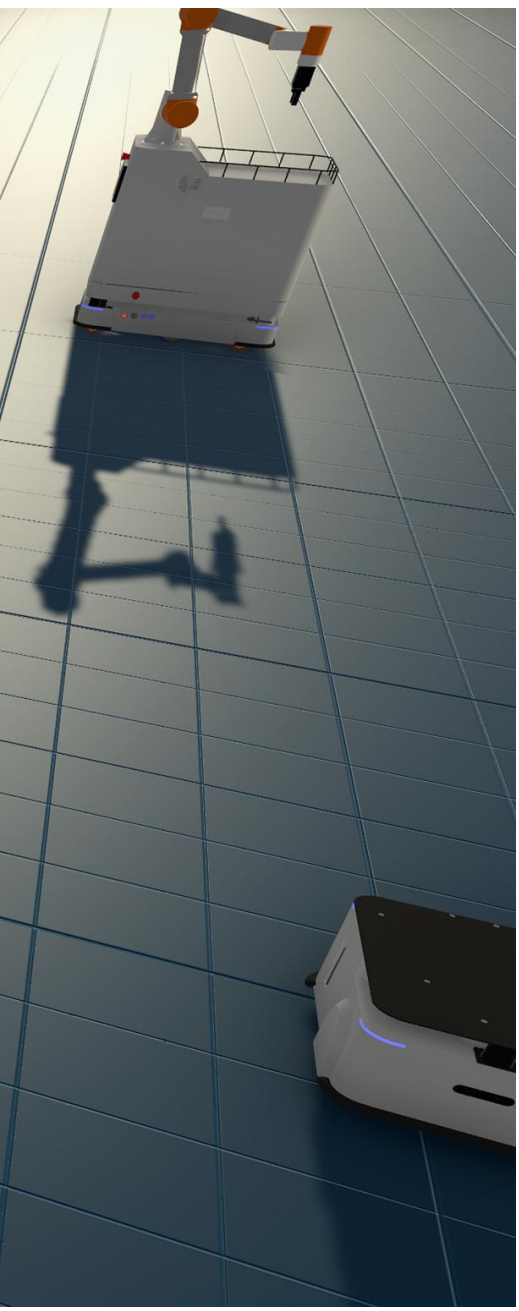
Many-Robot Coordination and Cooperation

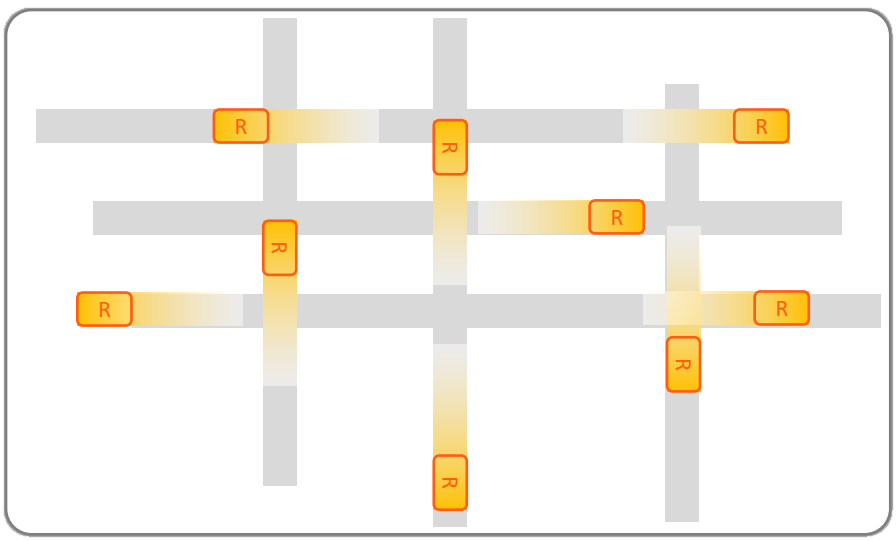
SWARM SAMiR® automates workflow management within factories or warehouses using up to 100 SAMiR® family robots.



SWARM SAMiR®

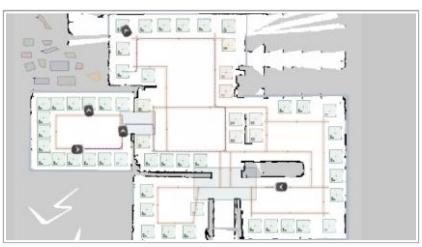
SWARM SAMiR® makes fleet management, traffic control, map generation, workload distribution rather simple. The SWARM SAMiR® simulator and graphical user interface enables users to create and configure workflows visually.





Autonomous mobility, interconnection, autonomous path planning, and automatic task scheduling

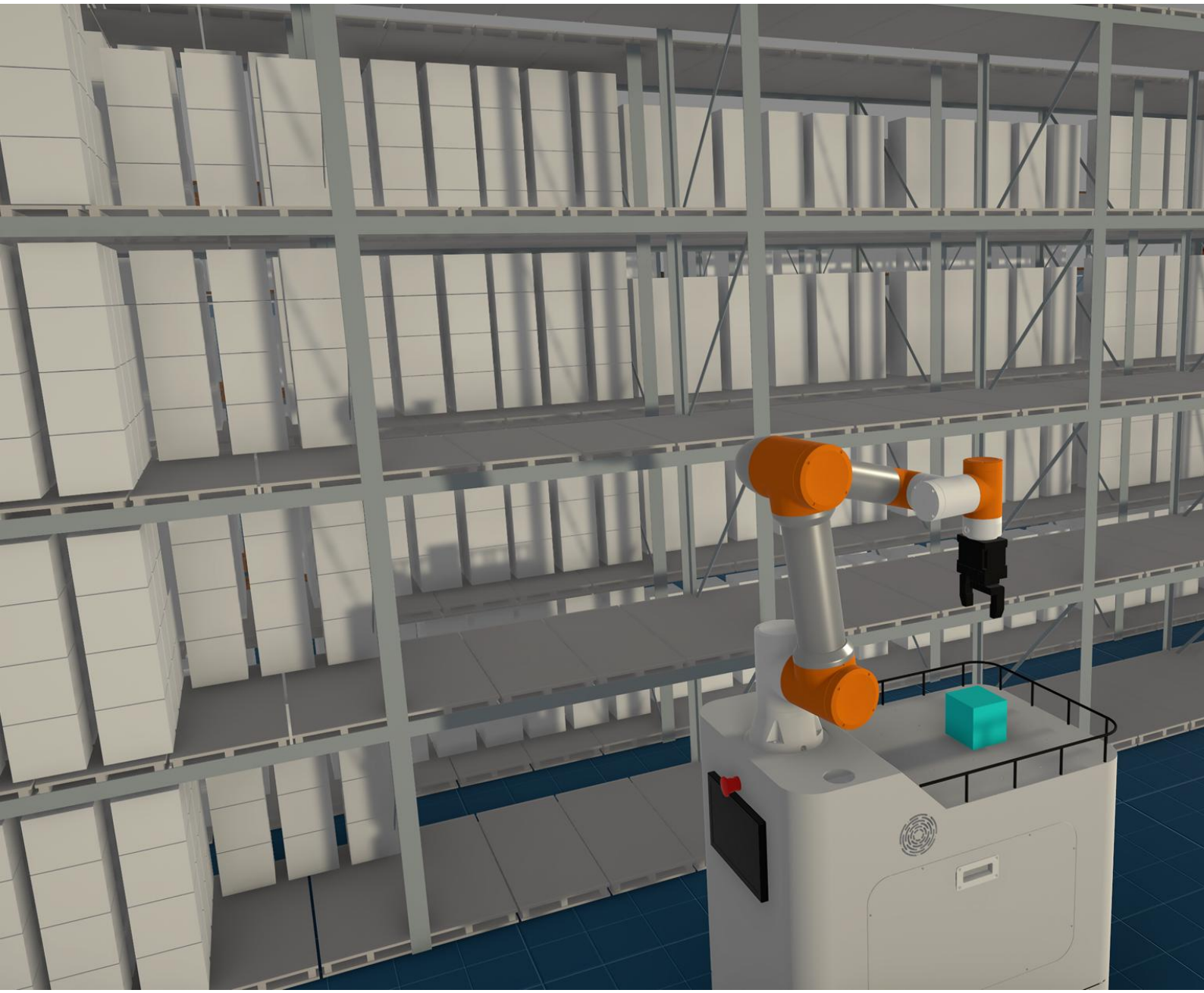
Multi-robot collaboration, autonomous and obstacle avoidance



Simulation testing, scheduling and deployment

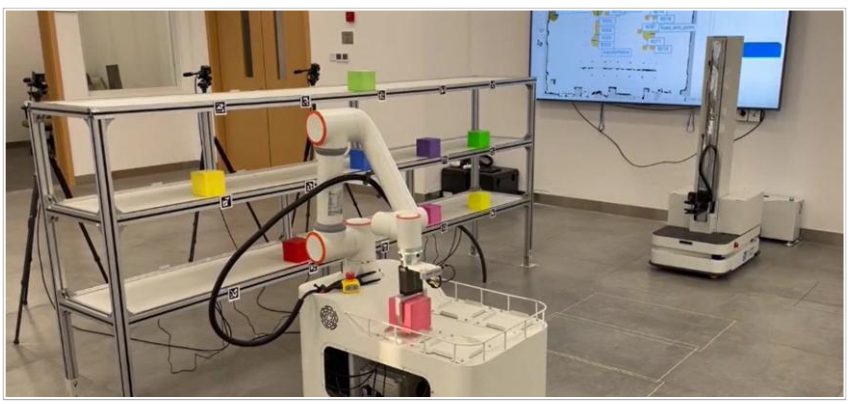
Human-Robot Collaboration using LLM

SAMiR®-LLM enables more intuitive and better collaboration between humans and robots using large language model (LLM).



SAMiR®-LLM

SAMiR ®-LLM allows users issue commands or queries in natural language, and the robot can interpret and execute these commands for manipulation tasks.



The pre-trained Large Language Model (LLM) understands the user's natural language instructions and generates execution actions

Please go to shelf #6

Take out the item in the 3rd column and 2nd row

Deliver the item to packing station #18

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