



Gausium Mira

The **Miracle** Solution for Modern Retail Cleaning



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Solution Director, Europe
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Basic Information – Mira



- The Mira is officially released in March 2025.
- It has undergone full testing and now officially available for sale in overseas markets.
- This model was created for environments with narrow aisles and heavy foot traffic, which combines a compact design, strong dual-disc scrubbing system, and self-cleaning wastewater tank to deliver outstanding cleaning results in tight spaces.

Model Name	Version	Description	Key Features Summary
Mira	Standard version	Standard commercial sales version with full core functions, suitable for most overseas projects	• Clean: All-in-one cleaning - front sweep + rear scrub system, removes trash and stains in one pass • Care: Self-cleaning system - > low maintenance • Compact: Small size and footprint, ideal for grocery store aisles
Mira	IEC version	Based on the standard version with additional IEC63327 safety certification, mainly for Europe and markets with strict safety compliance requirements	

Specifications * – Mira



Key Specification



Size (LxWxH)	680×550×900 mm
Scrubbing Width	400 mm
Sweeping Width	750mm
Max. Speed	1.4 m/s
Max. Cleaning Efficiency (Theoretical)	2016 m ² /h
Cleaning Pressure	25 kg
Min. Pass Width	<660 mm
Min. U-turn width	<950 mm
Gradeability	6°
Clean Water Tank	22 L
Waste Water Tank	20 L
Runtime	Scrubbing: 3-4h
Charging time	2.5h
Battery Capability	24V / 60 Ah LFP battery

** For more Spec information of Mira, please search on the E-learning platform, or reach out to our pre-sales managers.*

Features Comparison – Phantas VS Mira VS Omnie



Model		Phantas V1.3	Phantas Extra	Mira	Omnie	Marvel
Features						
General Feature	Spot Cleaning	Yes	Yes	Yes	Yes	Yes
	3D LiDAR & Mapping	/	/	Yes	Yes	Yes
	Self-Cleaning (of Squeegee Blade, Suction Pipe, Dirty Water Tank)	Yes	Yes	Yes	/	Yes
	Self-Cleaning Wastewater Tank	/	/	Yes	/	Yes
	Compatibility with Mobile Water Tank	Yes	Yes	Yes	Yes	/
	Compatibility with PhanShop Add-on	Yes	Yes	/	/	/
Cleaning Feature	Max. Cleaning Efficiency	Theoretical: 950 sqm/h Real: 300-450 sqm/h	Theoretical: 950 sqm/h Real: 300-450 sqm/h	Theoretical: 2016 sqm/h Real: 500-800 sqm/h	Theoretical: 2621 sqm/h Real: 700-1000 sqm/h	Theoretical: 3024 sqm/h Real (estimated): 1000-1500 sqm/h
	Scrubbing	Yes (with 2 * roller brushes)	Yes (with 2 * roller brushes)	Yes (with 2 * disc brushes, as rear wet cleaning system)	Yes	Yes (with 2 * disc brush brushes, as rear cleaning system)
	Vacuuming	Yes	Yes	/	/	/
	Sweeping	Yes (with 2 * roller brushes + 1 * side brush)	Yes (with 2 * roller brushes + 1 * side brush)	Yes (with 2 * side brushes + 1 * roller brush, as front dry-cleaning system)	Only roller brush version supports, disc brush version does not support	Yes (with 2 * side brushes as front dry-cleaning system)
	Dust Mopping	Yes (with 1 * roller brush + 1 * roller cloth)	Yes (with 1 * roller brush + 1 * roller cloth)	Yes	Yes	Yes
Cleaning Component	Roller Brush	Yes	Yes (Larger-diameter roller brushes)	Yes (1)	Only roller brush version supports: Yes (2)	/
	Disc Brush	/	/	Yes (2)	Only disc brush version supports: Yes (2)	Yes (2)
	Side Brush	Yes	Yes (Enhanced longer side brush)	Yes (2)	Only roller brush version supports: Yes (2)	Yes (2)
	Filter System	Yes (with filter element for clean water, and filter basket for dirty water)	Yes (with enhanced filter element for clean water, and filter basket for dirty water)	Yes (filter basket, filter cartridge, etc.)	Yes (filter basket, filter cartridge, filter elements, etc.)	Yes (filter basket, filter cartridge, etc.)
	Water Recycling System	/	/	/	Yes	/
Applicable Scenarios		Small to mid-sized spaces (cleanable area: 800-1200 sqm): retail stores, office buildings, hospitals	Small to mid-sized spaces (cleanable area: 800-1200 sqm): retail stores, office buildings, hospitals	Mid-Sized Spaces (cleanable area: 800-2000 sqm): retail stores, manufacturing plants, warehouses, transportation hubs, hospitals, shopping malls, etc.	Mid-sized to Large spaces (cleanable area: 1,500-3,000): supermarkets, manufacturing plants, warehouses, transportation hubs, hospitals, shopping malls.	Large & complex spaces (cleanable area >3000 sqm): supermarkets, manufacturing plants, warehouses, transportation hubs, hospitals, shopping malls

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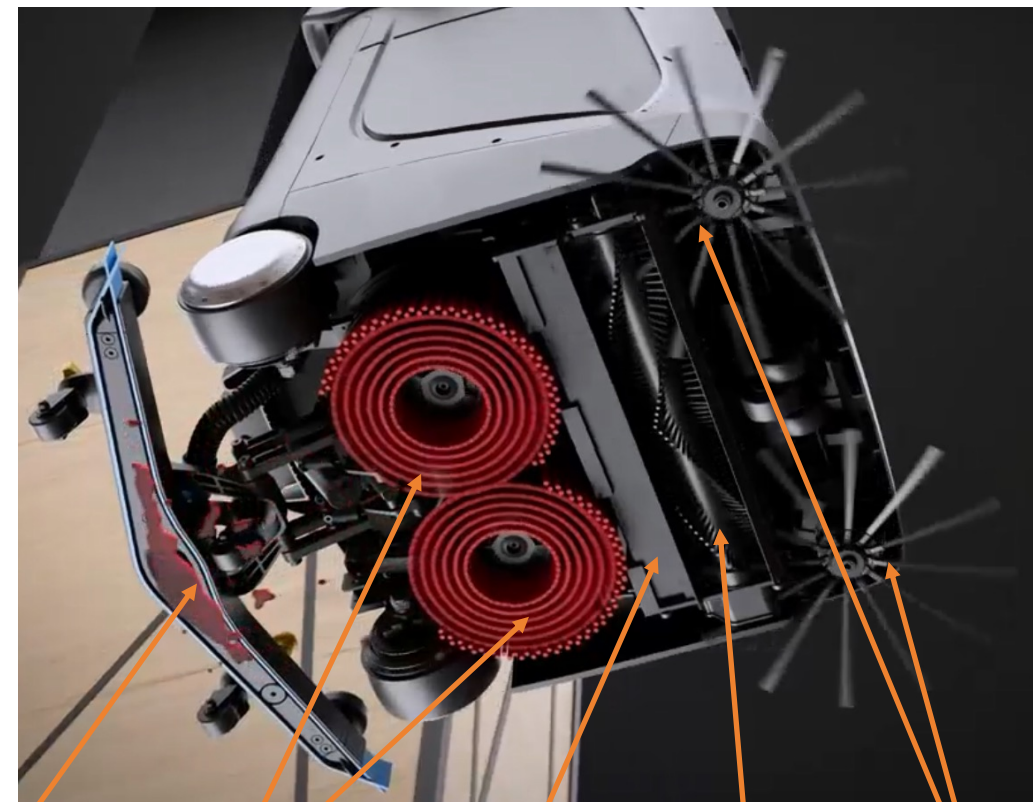
Key Features – Sweep & Scrub in One Pass



Wet & Dry Clean in One Go

Performs sweeping and scrubbing simultaneously for maximum efficiency

- Equipped with **2 side brushes** and **1 front roller brush** for effective sweeping, plus **2 rear disc brushes** for powerful scrubbing.
- **Front dry cleaning** prevents debris from sticking to the squeegee blade or clogging the suction pipe.
- **Dual rear disc brushes with 25kg down pressure** deliver superior scrubbing performance compared to roller-only setups.



Squeegee

Disc Brush * 2

Wet Cleaning

Debris Hopper * 1

Roller Brush * 1

Side Brush * 2

Dry Cleaning



Key Features – Intelligent Self-Cleaning



Self-Cleaning System for Minimal Maintenance

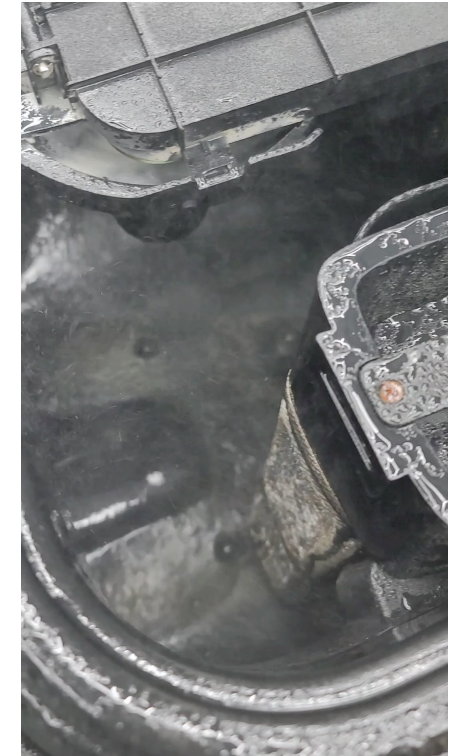
Mira automatically cleans critical components after operation, keeping the robot hygienic and reducing maintenance effort.

Automatic cleaning covers:

- **Wastewater Tank** – internal spray rinses tank walls
- **Squeegee & Suction Hose** – water flushing clears the suction path

Benefits

- **Lower** clogging **risk**
- **Reduced odor** from wastewater residue
- **Less** manual **maintenance** for staff
- **More** reliable long-term **operation**



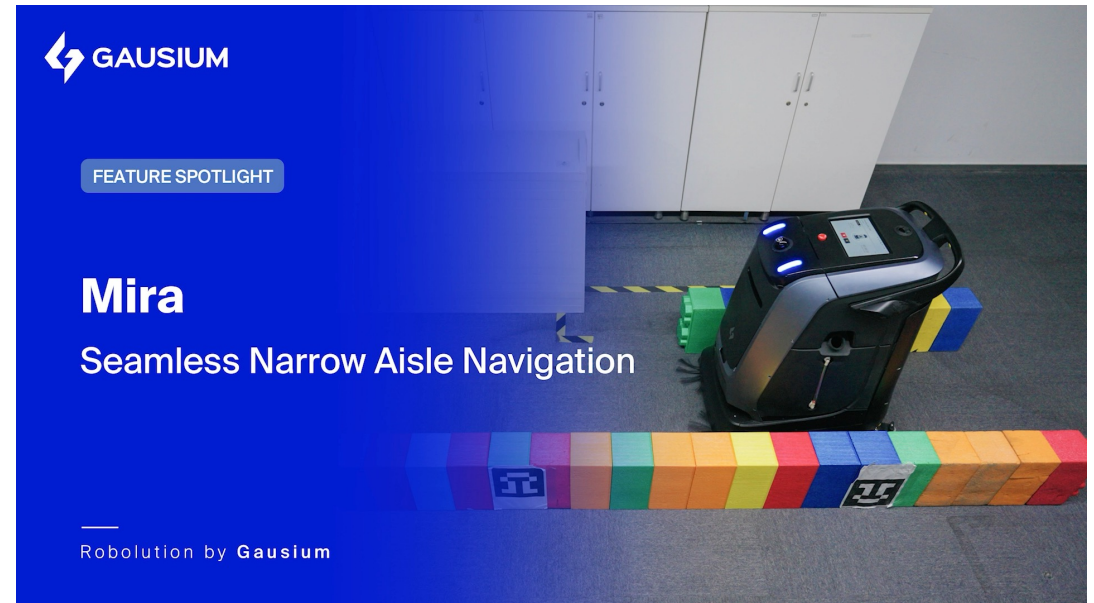


Key Features – Narrow-Aisle Mobility



Compact Design for Narrow Aisles

- Retail aisles are often narrow and densely packed with shelves and displays.
- Mira can navigate aisles as narrow as 66 cm and perform U-turns within just 95 cm, enabling **smooth operation even in tight supermarket layouts**.
- This ensures **maximum cleaning coverage**, continuous operation, and **minimal manual intervention** in busy retail environments.





Key Features – Smart Deployment



Hassle Free Deployment

High-precision 3D-LiDAR-based mapping, navigation, and positioning.

Effortless Remote Deployment

Quick setup with remote 3D map editing and easy no-go zone marking

3D Mapping and Remote Map Editing



Key Features – 3D LiDAR + 360° Sensor Fusion



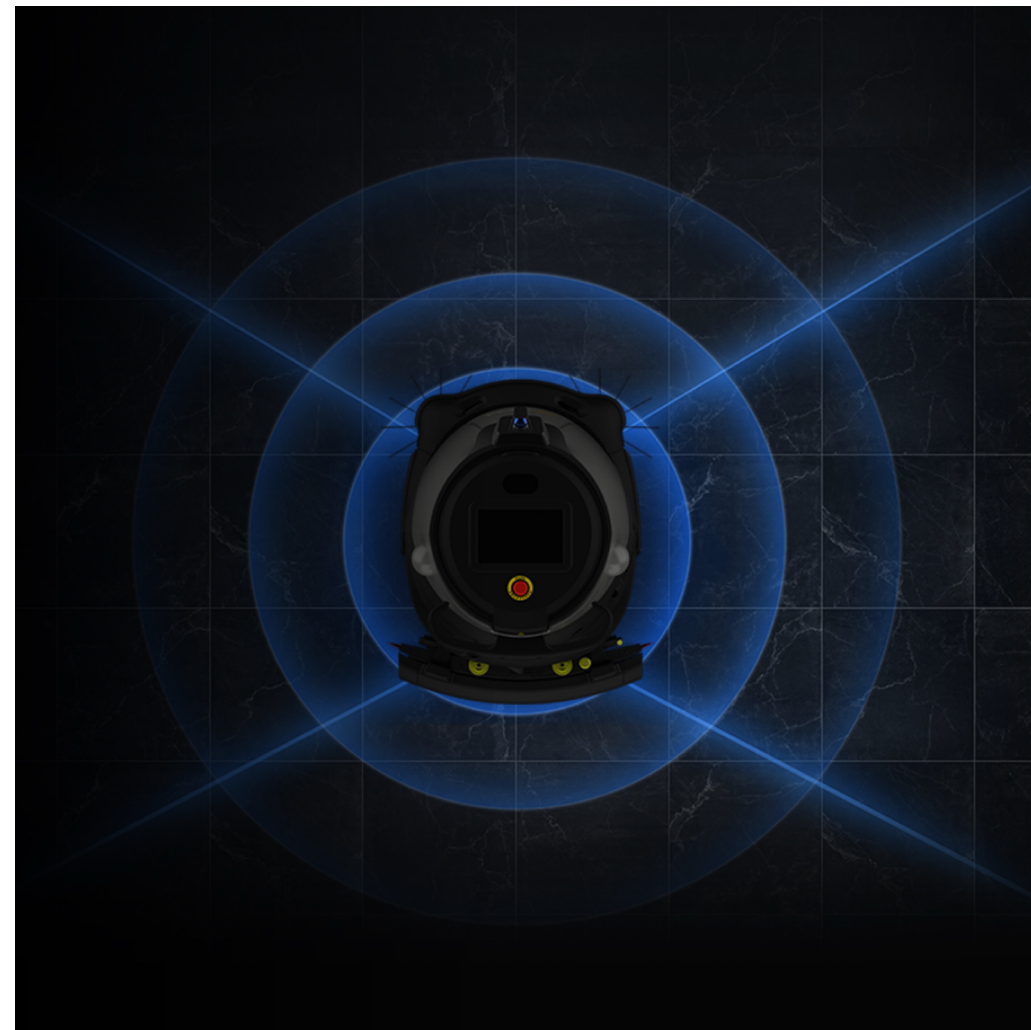
3D LiDAR + 360° Sensor Fusion

Smarter and safer obstacle avoidance.

Recognizes people, chairs, fall hazards, wires, escalators, and other obstacles.

Never Get Lost

The robot navigates vast areas autonomously, never getting lost or needing human assistance.





Features Summary – Mira



Clean

All-in-one cleaning – front sweep + rear scrub system, removes trash and stains in one pass



Care

Self-cleaning system -
> low maintenance



Compact

Small size and footprint, ideal for grocery store aisles



Charging dock,
Workstation,
Mobile water tank



Multiple Accessories

Optional charging dock,
workstation, mobile water tank



Safety

3D LiDAR + 360° Sensor
Fusion to ensure the smartest
and safest obstacle avoidance.



Enhanced Cleaning

Dual-disc brush system delivers the best
cleaning results with 25kg down pressure





Key Features Summary - Mira



01

Sweep & Scrub in One Pass (**C**lean)

02

Intelligent Self-Cleaning (**C**are)

03

Compact Design for Narrow Aisles (**C**ompact)

04

Smart Deployment (**S**etup)

05

3D LiDAR + 360° Sensor Fusion (**S**ight)

3Cs + 2S: Built for Smart, Autonomous Cleaning

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Applicable Scenario Types



Retail Store



Transportation Hub



Shopping Mall

Mira can be applied in these typical application scenarios like, retail stores, transportation hubs, shopping malls, hospitals, exhibition halls, etc.,



Recommended Application Scenario



Product Combo below is recommended for **store area of 2,000-3,000 sqm (cleanable area: 800-2000 sqm)**

1 * Mira + 1 * Workstation (WS-05)

Consider **other product combos for** areas out of this area range.

1 *



1 *





Solution Value – ROI Calculation of Cleaning



Save **€6,500- €8,750 per year**

by reducing 1.0-2.5 hours of manual work per day



Assumptions (based on the recommended scenario)

1. Store size:

2000–3,000 m²

2. Actual cleanable area of the aisles (≈40-50% of store area):

800–2,000 m²

3. Mira cleaning capacity:

~800-2,000 m²/day (to cover all aisle area once / day)

(→ 2-3 shifts are also possible to cover the whole area several times / day)

4. Manual cleaning efficiency:

~800 m²/hour

5. Manual detail cleaning previously required:

1.0–2.5 hours/day (average → 1.75h)

6. Labor cost (Europe average):

€15-20/hour (including social insurance & overhead)

Daily labor saved:

1.75h × (€15- €20) = €26- €35/day

Yearly savings:

€26- €35/day × 250 workdays = **€6,500- €8,750 per year**

Note: Labor costs vary by country. Estimates of around €6,500 apply to regions with lower labor costs, while up to €8,750 is expected in higher-cost European countries.

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Accessory Feature – Mira Workstation

Workstation – WS-05 (Optional)

The **WS-05** is designed to pair with **Mira**, enabling fully automated operation.

This workstation is **NOT** compatible with **Marvel's workstation**.

But Mira and Marvel **charging docks** are **interchangeable**, but the base height needs to be adjusted depending on robot model.

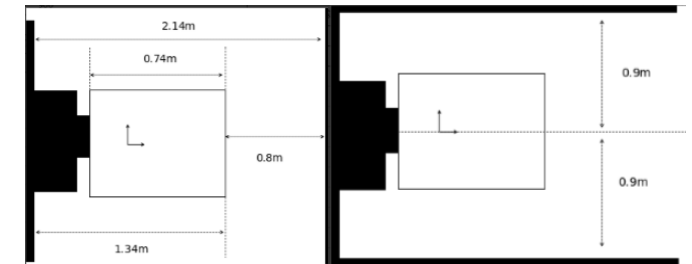
By simply docking with the workstation, Mira can autonomously **charge, refill water, and discharge dirty water**, minimizing human intervention. Additionally, it automatically **rinses and cleans** the **suction pipe, wastewater tank, and squeegee blade** for optimal performance.



Accessory Spec – Mira Workstation



Basic Information	Dimension	777(L)*537(W)*873(H)mm / 30.6(L)*21.1 (W)*34.4(H)in
	Main Functions	Automatic charging, Automatic filling, Automatic draining, Self-cleaning
	GVW (kg)	30kg/66.1 lb
	IP code	IPX3
	Support Robots	Mira
Charging	Charging Voltage	24VDC
	Charging Current	25A
Refilling	Water supply method	Municipal water, Mobile water tank
	Water supply pressure	0.15-0.6 MPa
	Water flow rate	4L/min
Draining	Drainage method	Pump Drainage
	Drainage time	≈ 3min
	Drainage height	≤1.5m/ < 4.9 ft
Automatic Self-Cleaning	Automatic Self-cleaning Function	Automatic self-cleaning of robot suction pipe and squeegee, waste water tank
Power	Rated Input	100~260VAC ~8.1A 50~60Hz
	Rated Power	906W
Communication	Wireless Communication Solution	WiFi
Others	Manual Charging	Support
	OTA firmware upgrade	Support
	Status Indicator	RGB Indicator
	Power switch	Support
	Min. Installation Space	1.8m*2.14m



Required Min. Installation Space for Mira Workstation:

1.8m * 2.4m

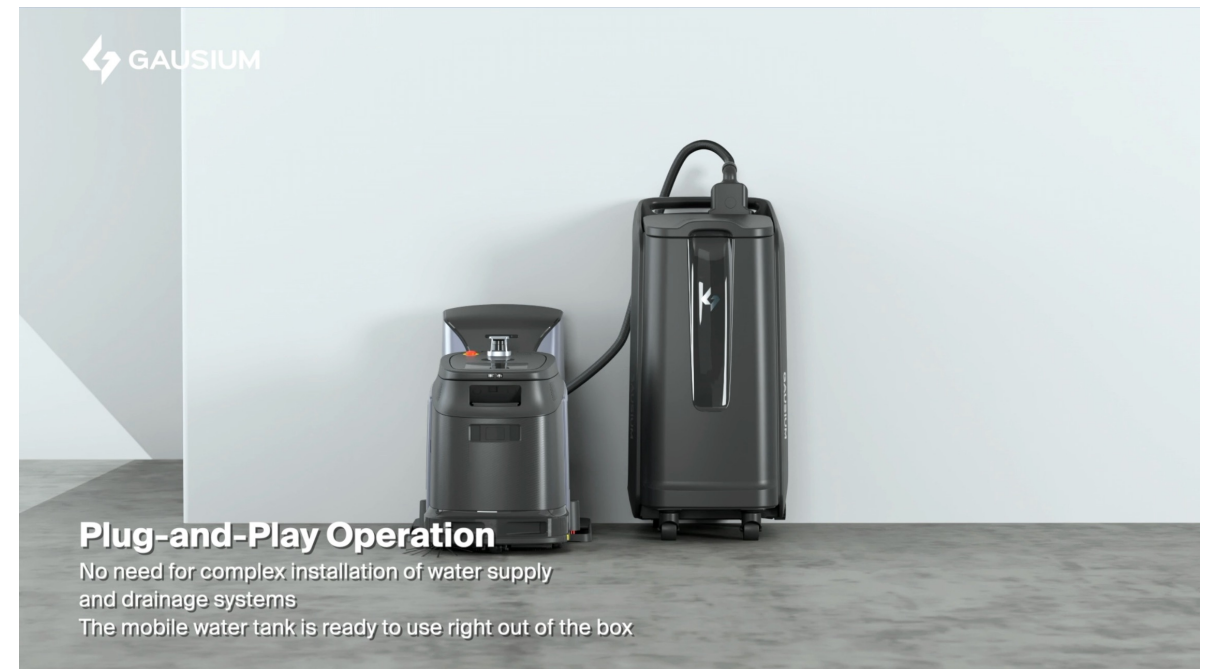
Accessory Feature – Mobile Water Tank



Mobile Water Tank (Optional)

Designed for Sites Without Water Supply & Drainage

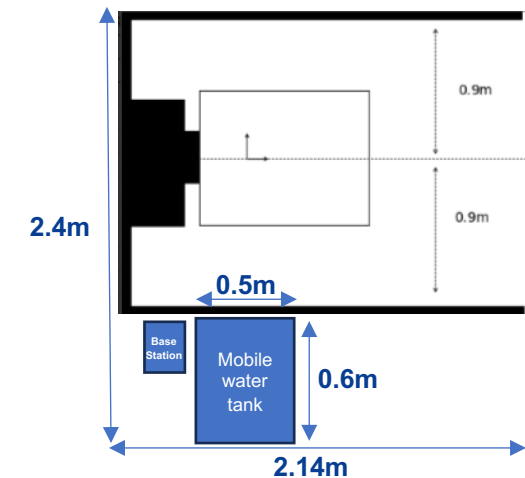
Connects to the workstation for **automatic water refilling and discharge**. Its **large-capacity tank** and **easy mobility** minimize human intervention, ensuring seamless operation.



Accessory Spec – Mobile Water Tank



Dimension	600*500*1060 mm (23.6*19.7*41.7 in)
Clean / Waste Water Tank Capacity	90 L / 75 L (23.8 gal / 19.8 gal)
Max. Obstacle Pass-over Height	50 mm (2.0 in)
Min. Pass width	600 mm
Gradeability	8°
Max. Parking Slope	3°
IP Rating	IP23
Operation Noise	<50dB
Ergonomic Handle	Standard
LED Indicator Light	Standard
Operation Temperature	0°C - 45°C (32°F - 113°F)
Storage Temperature	-20°C - 70°C (-4°F - 158°F)



Required Min. Installation Space for Workstation + Mobile Water Tank,
Min. total area: 2.14m*2.4m = 5.136 sqm, around 5.2 sqm

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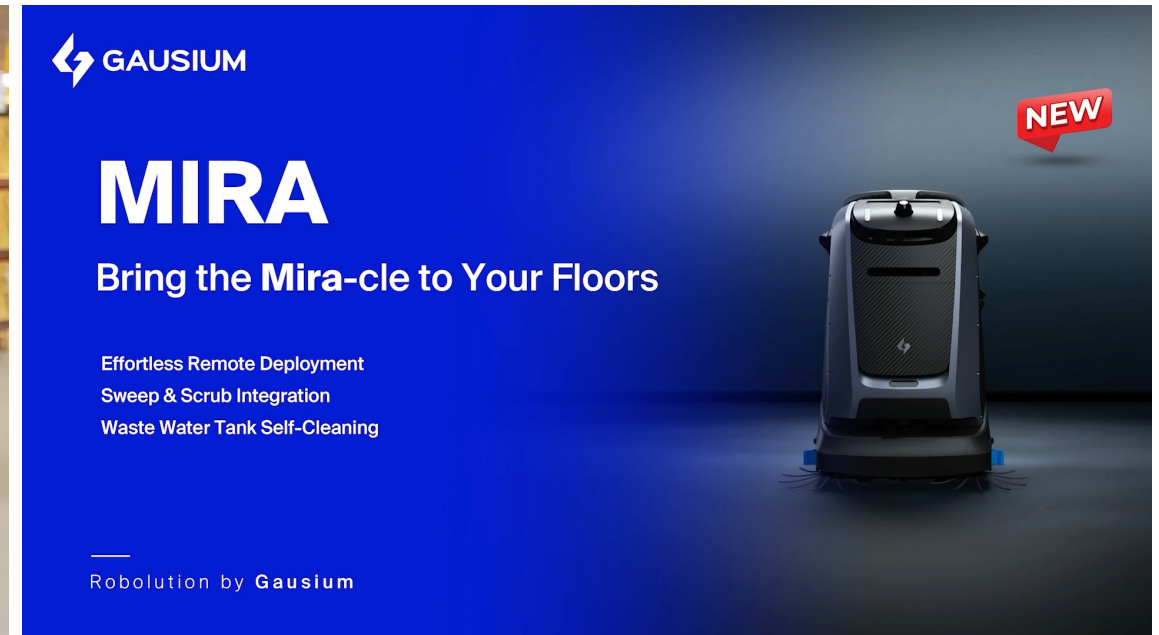
Demo Video – Mira



Video Source:

YouTube: https://youtu.be/rUmYVvKA8tjc?si=wxymfxwaOt_fCGsz

E-learning: <https://short-phx-ali.yunxuetang.cn/rvcwfsn55>



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