



MICBOT

WHEEL-LEGGED QUADRUPED ROBOT

HANGZHOU MICBOT TECHNOLOGY CO., LTD.

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Hangzhou Micbot Technology Co., Ltd. is a high-tech enterprise specializing in the R&D and application of wheeled quadruped robots, dedicated to developing full-terrain mobile intelligent agents with autonomous operation capabilities.

Core members of our R&D team hail from prestigious domestic and international institutions including Stanford University, Zhejiang University, Hong Kong Polytechnic University, Beijing Institute of Technology and Zhejiang Sci-Tech University, building an in-depth collaborative innovation ecosystem integrating industry, academia and research.

Sticking to full-stack independent R&D, the company has established a proprietary technology platform centered on integrated perception, planning, control and drive systems. We complete forward development of full-chain core software and hardware, including motion control algorithms, high-performance actuator modules and multi-modal perception systems. Coupled with innovative body mechanical configurations, we foster differentiated, leading product strengths across multiple dimensions.

Built on a standardized, open and modular architecture, our products flexibly adapt to diverse scenarios such as industrial maintenance, infrastructure inspection, urban public security and emergency disposal, advancing the practical deployment of domestic high-end embodied intelligent equipment. Guided by a nationwide development strategy, we have set up regional subsidiaries in Beijing, Guangzhou and Binzhou, forming a multi-location collaborative industrial base and localized technical service network.

Our founding team possesses full-cycle expertise spanning technical R&D, market expansion and commercial operation. We keep driving technological iteration and product upgrading to facilitate normalized application and large-scale commercial rollout of high-performance embodied intelligent robots.

Specialized

MOVENEW P2

Industrial Special Wheeled Quadruped Robot



Industry-First Quadruple-Enabled
Rugged Robot Platform



The Industry's Only Integrated
Perception-Planning-Control-Drive
Embodied System



The Industry's First Kinetic
Energy Recovery System
for Embodied Robots



Full-Stack In-House Developed
Skeletal-Configuration
Embodied System

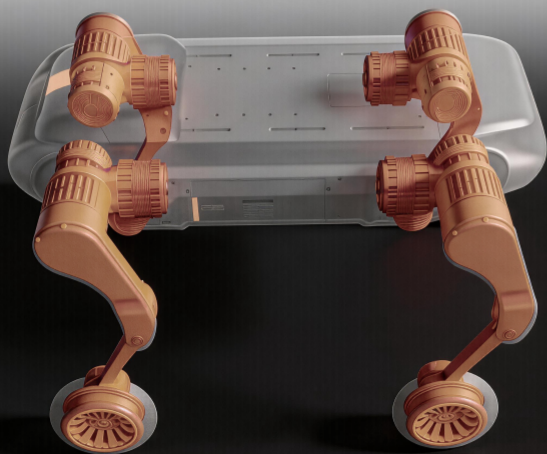
EXTREME CONDITIONS ARE OUR NATURAL HABITAT

MICBOT's iterative upgraded industrial special wheel-legged robot body is purpose-built for extreme high-risk scenarios. It redefines industrial mobility efficiency with its wheel-legged fusion architecture, certified with composite explosion-proof standards Ex db eb IIB T4 Gb and a 4-fold protection system (explosion-proof / anti-magnetic / waterproof / heat-resistant). It delivers full-domain mobile intelligent solutions for flammable, explosive, strong-magnetic, and low-temperature environments such as petrochemical plants, underground mines, and aluminum factories, replacing humans in every inch of hazardous terrain.

Sense-Planning-Control-Drive Integrated Robot Body

Integrated Robot Body

As the industry's only quadruped robot with fully integrated Sensing-Planning-Control-Drive capabilities, it builds a full-link collaborative architecture powered by NeuroFuse Multi-Modal Perception System, CogniDecide Intelligent Decision Engine and DynaCore Balance Motion System. It closes the data loop across sensing, planning, control, and drive to achieve millisecond-level ultra-low latency and 3-second one-tap following, delivering efficient and stable intelligent operation support for extreme high-risk scenarios.



Kinetic Energy Recovery

Integrated Robot Body

Equipped with the industry's first kinetic energy recovery system for embodied robots, paired with intelligent power consumption algorithms and high-density semi-solid dual batteries, it stably delivers 8 hours of continuous operation under heavy loads and 12 hours under light loads, providing robust energy support for 24/7 unmanned operations in extreme high-risk scenarios.

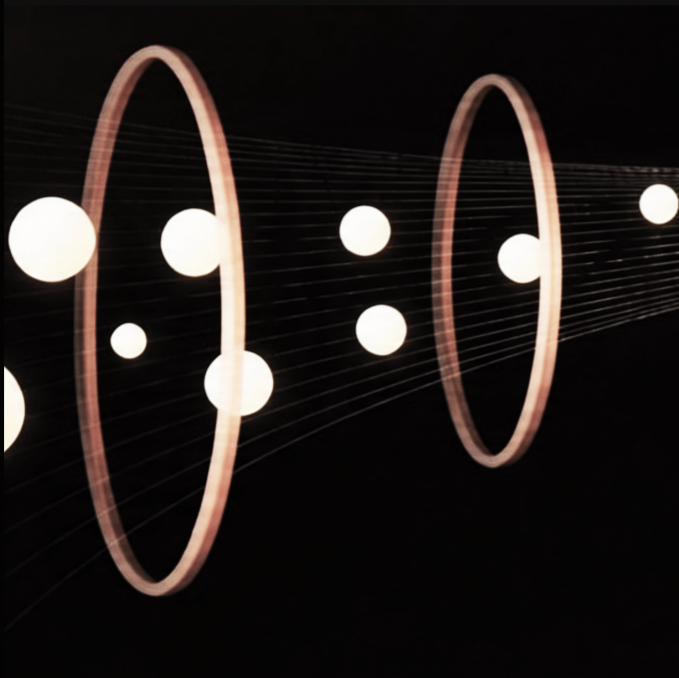
TRIPLE ADVANCEMENT TO PERFORMANCE PINNACLE

Building the performance ceiling for industrial embodied robots with enhanced payload, extended battery life, and smarter computing power, our full-stack self-developed hardware and algorithms work in deep synergy to deliver a disruptive lead over the industry average in core metrics. This provides more reliable, longer-lasting, and more intelligent full-domain operation solutions for extreme high-risk scenarios.

Ultimate Payload

Industry-Leading Load Capacity

Built as the industry's highest-payload embodied robot platform, it adopts an innovative wide-body short-legged wheeled-quadruped configuration paired with DynaForce high-performance joint modules. It delivers industry-leading performance with a static payload of 400kg and a dynamic payload of 200kg. Boasting ultra-high carrying capacity and stable locomotion, it easily meets heavy-load operational demands in specialized scenarios, redefining the payload standard for special industrial embodied robots.



Ultimate Computing Power

The Industry's First Embodied Robot Integrated with NVIDIA Thor Platform

As the industry's first quadruped robot powered by the NVIDIA Thor platform, it achieves millisecond-level response through fully integrated Sensing-Planning-Control-Drive capabilities. With features including 3-second fast following, autonomous path planning, and obstacle avoidance, it delivers industry-leading intelligent operation efficiency.

FOUR-FORGE SHIELD, SAFE IN EXTREME SCENARIOS

As the industry's first embodied robot with four-way protection, it features a full-coverage defense system including explosion-proof, anti-magnetic, waterproof, and extreme temperature-resistant capabilities. This robust design conquers the challenges of flammable/explosive environments, strong magnetic interference, humid/watery conditions, and extreme cold/heat. Delivering industrial-grade rugged protection, it provides all-scenario safety assurance for unmanned operations in high-risk settings.

Explosion-Proof Compliance

Industry-Leading Load Capacity

Equipped with the industry's first Ex db eb IIB T4 Gb explosion-proof certification in the wheeled-legged robot category, it features a custom explosion-proof enclosure and safety protection design. It reliably adapts to flammable and explosive environments such as oil and chemical facilities, eliminating operational safety hazards at the source.



NO.1



High Magnetic Interference Resistance

The First Embodied Robot With Strong Magnetic Immunity

Featuring a self-developed full-link anti-interference system and EMC design, it withstands strong magnetic interference of 600-1000Gs, maintaining zero-degradation perception and control performance in high-magnetic environments such as aluminum electrolysis facilities.

Waterproof Construction

High-Protection Embodied Robot Platform

Featuring industrial-grade IP67 (IP68 for wheel assemblies) high-level waterproof sealing, it is fully encapsulated to withstand humid, splashing, and shallow-water environments, ensuring long-term stable operation of core components.



Ultra-Wide Temperature Range

The Industry's First Embodied Robot for Extreme Environments

It delivers stable operation across an ultra-wide temperature range from -40°C to 85°C , breaking through the limitations of extreme cold and high-temperature conditions. This enables it to adapt to various extreme temperature operation scenarios worldwide.



PRODUCT SPECIFICATIONS



Standing State Renderings



Low-Crouching State Renderings

Robot Parameters	Standing Dimensions	1100×700×650 mm
	Folded Dimensions	1200×700×350 mm
	Total Weight	77 kg (including battery)
	Wheel Diameter	210 mm
Electrical Parameters	Battery Type	Ternary / Lithium-Ion / LFP
	Charging Time	1.5 h
	Battery Life	≤ 12h (no load); ≤ 8h (full load)
Performance Parameters	Platform Moving Speed	3 m/s
	Max Static Payload	≥ 400 kg
	Max Dynamic Payload	≥ 200 kg
	Stair Climbing Capability	Max step height: 25 cm
	Max Climbing Ability	800 nm
	Slope Walking Capability	45°
	Operating Temperature	-40°C ~ 85°C
	Base Computing Power	2000 TOPS
Joint Parameters	High-Performance Motors	16 units
	Max Module Torque	450 N·m
Protection Ratings	Main Body Rating	IP67
	Wheel Rating	IP68
Sensor Configuration	LiDAR	1× Hybrid Solid-State LiDAR
	High-Precision Depth Camera	•
	IMU	•
Functional Configuration	Basic Locomotion	•
	OTA Update	•
	APP Support	•
	Bluetooth 5.4	•
	Wi-Fi	•
	Expansion Rails	•
	Secondary Development	•
	Handheld Remote Controller	•
Other Configuration	Charger	1× Fast Charger
	Warranty Period	1 year
	Radar Interfaces	RS4851, USB3
	Camera Interfaces	HDMI×1
	Audio/Video Interfaces	HDMI11, USB1

[1] The standard edition comes with a basic sensor configuration; please contact our hotline or local sales representative for details. The sensor configuration, performance, and functions of custom editions can be adjusted as required.

[2] This product is high-precision intelligent equipment. Unauthorized modification, disassembly, or alteration is strictly prohibited. Please refer to the full terms and conditions for maintenance, servicing, and warranty details.

[3] Product parameters are based on test results obtained under standard laboratory conditions. Actual performance may vary slightly due to environmental factors. Users must strictly comply with applicable safety regulations and local laws during operation.

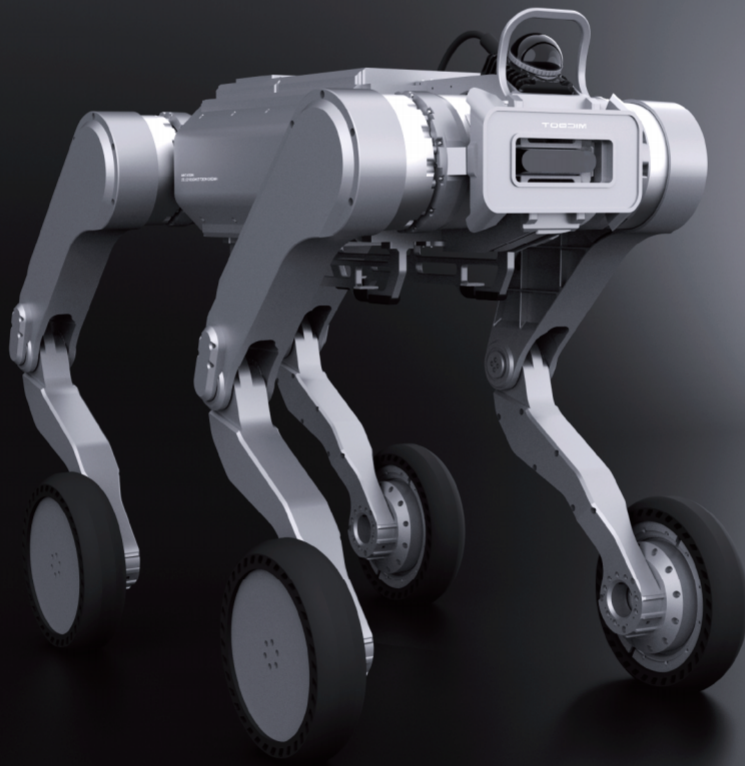
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HOCHEE S01

General Industrial High-Speed
Wheeled Quadruped Robot



Industry-first high-speed
wheel-legged platform



Industry-first full-protection
universal body



Industry-first dual heterogeneous
computing mobile platform



Industry-first modular multi-scene
inspection platform

Machine Parameters	Standing Dimensions	850×570×700 mm
	Low-profile Passage Dimensions	850×570×250 mm
	Total Weight	55 kg (total weight including battery)
	Rated Load Weight	≤ 50kg
	Wheel Diameter	150mm (reference)
Electrical Parameters	Battery Type	Ternary / Solid-state Lithium Battery / Lithium Iron Phosphate
	Battery Configuration	48V DC / 22Ah *2
	Charging Time	≤ 2 h
	Continuous Working Time	5 - 8 h
Performance Parameters	Platform Moving Speed	Up to 8 m/s
	Maximum Step Climbing Ability	≤ 75 mm
	Slope Walking Ability	≤ 45°
	Working Temperature	-40°C ~ +85°C
	Basic Computing Power Platform	181TOPS
Protection Grade	Body Protection Grade	IP67
	Wheel Protection Grade	IP68
	Working Humidity	0-95% RH (non-condensing)
Sensor Configuration	Basic LiDAR	•
	High-precision Depth Camera	•
	Ultrasonic Radar	•
	IMU Inertial Measurement Unit	•
Function Configuration	Basic Motion Mode	•
	OTA Upgrade	•
	APP / Host Computer Support	•
	Communication Module	Bluetooth 5.4 / WiFi
	Expansion Interface	•
	Secondary Development Support	•
	Remote Control	•
Other Configuration	Charger	•
	Warranty Period	1 Year
	LiDAR Interface	RS485I, USB3
	Camera Interface	HDMI*1
	Audio and Video Interface	HDMII, USB1

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MOVENEW P1 ExR

Increased-Safety Flameproof Wheeled Quadruped Robot



The Industry's First Composite
Explosion-Proof
Wheeled-Legged Robot Body



The Industry's First Wheel-Leg
Integrated Explosion-Proof
Mobility Platform



The Industry's First Enclosed
Intrinsically Safe Design



The Industry's First Customizable
Explosion-Proof
Intelligent Perception Platform

Basic Robot Parameters	Standing Dimensions	900 × 600 × 650 mm
	Folded Dimensions	1150 × 800 × 200 mm
	Total Weight	Approx. 105 kg
	Wheel Diameter	210 mm
	Body Material	High-strength aluminum alloy + flame-retardant engineering plastic
Electrical & Explosion-Proof Core Parameters	Battery Type	LiFePO4 (LFP)
	Battery Capacity	48V / 40Ah
	Charging Time	Approx. 1.5h
	Battery Life	≤ 12h (no load); ≤ 8h (full load)
	Operating Voltage	DC48V
	Rated Power	≤ 120W
	Explosion-Proof Marking	Ex db IIB T4 Gb / Ex tb IIIC T135°C Db
	Protection Rating	Main Body: IP67, Wheels: IP68
Performance Parameters	Platform Moving Speed	0-3 m/s
	Max Static Payload	≥ 400 kg
	Max Dynamic Payload	≥ 200 kg
	Stair Climbing Capability	Max step height: 25 cm
	Max Climbing Ability	800 mm
	Slope Walking Capability	45°
	Positioning Accuracy	± 1-3 cm
Joint & Power Parameters	High-Performance Motors	16 explosion-proof servo motors
	Module Max Torque	450 N·m
	Motor Explosion-Proof Rating	Ex eb mb IIC T5 Gb / Ex tb IIIC T130°C Db
	Response Frequency	≥ 1 kHz
Environmental Adaptability Parameters	Operating Temperature	-40°C ~ +85°C
	Operating Humidity	5% ~ 95% RH (non-condensing)
	Protection Rating	Main Body: IP67, Wheels: IP68
	Shock Resistance	15g (11ms)
	Vibration Resistance	5-200Hz, 10g
Function & Interface Parameters	Core Functions	•
	Control Method	•
	Communication Methods	4G/5G/WiFi/Bluetooth, dual-mode communication
	Video Acquisition	•
	Sensor Configuration	•
	IO Interface	•
	Expansion Capability	•
Certification & Compliance Parameters	Explosion-Proof Certification	Certified by the National Quality Inspection and Testing Center for Explosion-Proof Electrical Products, full unit certified to Ex db eb mb IIB T4 Gb
	Applicable Standards	GB/T 3836.1-2021 (Explosive atmospheres - Part 1: General requirements for equipment)
		GB/T 3836.2-2021 (Part 2: Equipment protected by flameproof enclosure "d")
		GB/T 3836.3-2021 (Part 3: Equipment protected by increased safety "e")
		GB/T 3836.9-2021 (Part 9: Equipment protected by encapsulation "m")

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MOVENEW T1

General-Purpose
Industrial Wheeled Quadruped Robot



CogniDecide

Intelligent Decision Engine



NeuroFuse

Multi-Modal Perception System

DynaCore

Full-Body Motion Control System

DynaForce

High-Performance Joint Modules

Mechanical Parameters	Standing Dimensions	800mm × 600mm × 540mm
	Folded Dimensions	1025mm × 750mm × 150mm
	Total Battery Weight	40–50 kg
Electrical Parameters	Battery Capacity	3.5/4.5 kWh, Operating Voltage 72V
	Platform Max Moving Speed	18 km/h
	Max Battery Life	≤ 12h
Performance Parameters	Max Static Payload	100 kg
	Continuous Walking Payload	50 kg
	Stair Walking Capability	Max Step Height: 25 cm
	Climbing Capability	Up/Down 40 cm Steps Forward
	Operating Temperature	-40°C ~ 55°C
	Slope Walking Capability	≤ 45°
	Base Computing Power	181 TOPS
Joint Parameters	High-Performance Motors	16 units
	Wheel Diameter	180 mm
	Wheel Max Torque	380 N·m
	Wheel Max Speed	131 rad/s
Protection Parameters	Protection Rating	IP68
Sensor Configuration	High-Resolution Depth Camera	•
	Onboard LiDAR	•
	360° Panoramic Vision	•
	Ultrasonic Radar	•
Lighting Configuration	Front Digital Matrix LED Headlights	•
	Rear Digital Matrix LED Headlights	•
	Rear LED Indicator Light	•
Functional Items	Basic Upgrade	•
	OTA Update	•
	Mobile APP Support	•
	Handheld Remote Controller	•
	Bluetooth 5.4	•
	Bluetooth Expansion	•
	Undercarriage Expansion	•
	Secondary Development	•
	Expansion Module	•
Other Items	Core Module	Jetson Orin NX Super + RK3588
	Battery Type	Ternary / Lithium-Ion / LFP
	Charger	Fast Charger
	Warranty Period	1 Year

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Scan for product details

