MICBOT

WHEELED-LEGGED ROBOTS

HANGZHOU MICBOT TECHNOLOGY CO., LTD.
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MICBOT

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ABOUT MICBOT

HANGZHOU MICBOT TECHNOLOGY CO., LTD.

Hangzhou Micbot Technology Co., Ltd. is a high-tech company specializing in the R&D and application of wheeled quadruped robots. We develop all-terrain mobile intelligent platforms for autonomous operations.
Our core team includes alumni from Stanford University, Zhejiang University, The Hong Kong Polytechnic University, Beijing Institute of Technology, Zhejiang Sci-Tech University and other leading institutions, forming a collaborative industry-academia innovation ecosystem.
With full-stack in-house R&D, MICBOT has built an integrated sensing, planning, control and drive platform covering motion-control algorithms, high-performance joint modules and multimodal perception. Innovative chassis designs deliver coordinated mobility across demanding scenarios.
A standardized open modular architecture enables rapid adaptation to industrial O&M, infrastructure inspection, public safety and emergency response. Regional subsidiaries support nationwide deployment and localized service.
The founding team combines expertise in technology, market development and commercialization, continuously advancing product iteration and large-scale deployment of high-performance embodied robots.

www.micbotics.cn

MOVENEW P2

Industrial Special-Purpose
Wheeled Quadruped

NEXT-GEN

Industry-First
Four-Proof Platform

Integrated Sensing, Planning,
Control & Drive

Embodied Energy-
Recovery System

Full-Stack In-House
Bionic Architecture

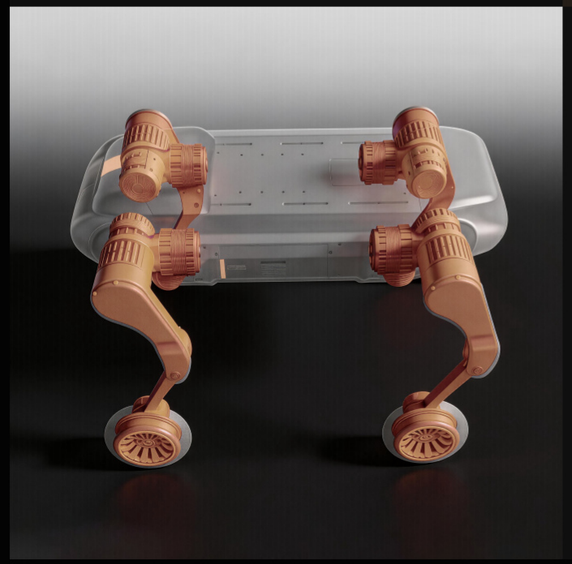
BUILT FOR EXTREME ENVIRONMENTS

Purpose-built for extreme, high-risk operations, MICBOT's next-generation industrial wheeled-legged platform combines Ex db eb IIB T4 Gb explosion protection with anti-magnetic, waterproof and cold-resistant design. It delivers full-domain mobility for petrochemical plants, mines, aluminum facilities and other hazardous environments - keeping people out of harm's way.

INTEGRATED SENSING, PLANNING, CONTROL & DRIVE

Embodied Intelligence Platform

An industry-first integrated platform combining multimodal perception, intelligent decision-making and whole-body dynamic balance. It closes the loop across sensing, planning, control and drive for millisecond-level response, rapid task entry and stable operation in extreme environments.



ENERGY RECOVERY

Innovative Embodied Robotics System

The industry's first embodied-robot energy-recovery system combines intelligent power management with high-energy-density semi-solid-state batteries, enabling 8 hours under full load and 12 hours under light load for round-the-clock unmanned operations.

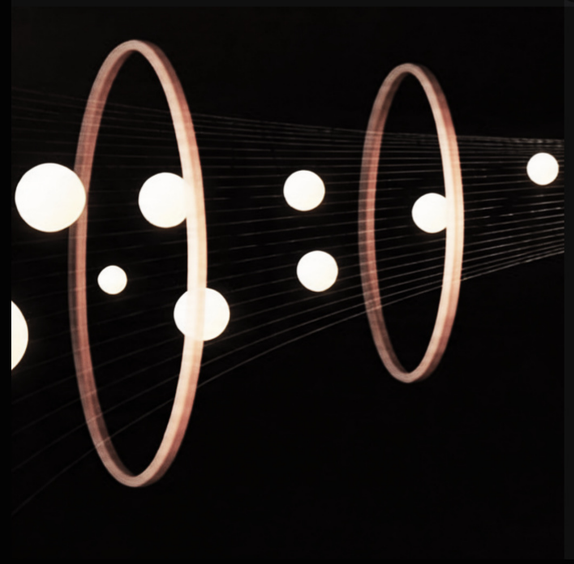
THREE LEAPS. PEAK PERFORMANCE.

Higher payload, longer endurance and greater intelligence set a new performance ceiling for industrial embodied robots.
Full-stack hardware-software co-design delivers decisive gains in core metrics, providing a more reliable, durable and intelligent solution for extreme, high-risk operations.

ULTIMATE PAYLOAD

Industry-Leading Payload Capacity

A wide-body, short-leg architecture and high-performance joint modules deliver a 400 kg static payload and 200 kg walking payload. Exceptional stability under heavy loads redefines the payload benchmark for special-purpose industrial wheeled quadrupeds.



EXTREME COMPUTE

Industry's First Thor-Powered Embodied Platform

The industry's first quadruped powered by NVIDIA Thor. Integrated sensing, planning and control enable millisecond response, rapid autonomous task entry, path planning and obstacle avoidance - setting a new standard for intelligent operations.

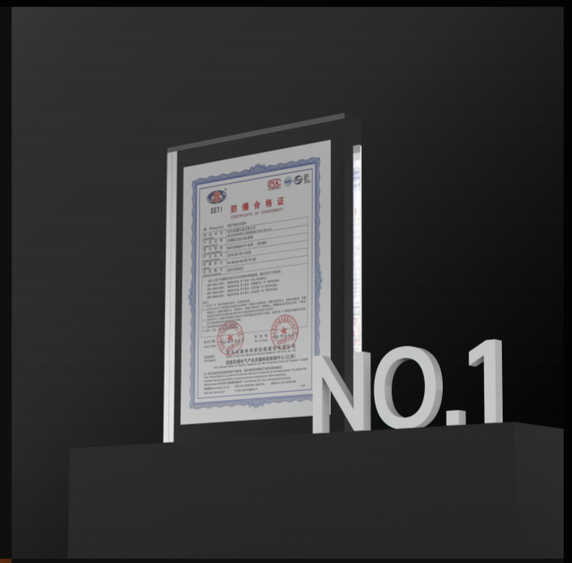
FOUR-PROOF ARMOR. READY FOR EXTREMES.

The industry's first four-proof embodied platform combines explosion protection, anti-magnetic shielding, waterproofing and wide-temperature operation. Industrial-grade hard protection addresses flammable, magnetic, wet and extreme-temperature environments, enabling safe unmanned operations in high-risk scenarios.

EXPLOSION-PROOF

First Increased-Safety Explosion-Proof Wheeled-Legged Robot

The first Ex db eb IIB T4 Gb certified wheeled-legged embodied robot. A customized explosion-proof enclosure and safety architecture support stable operation in petrochemical and other flammable or explosive environments, eliminating risk at the source.



ANTI-MAGNETIC

Industry's First High-Magnetic-Field Embodied Platform

Full-chain anti-interference design and EMC compatibility withstand 600-1000 Gs magnetic fields, maintaining zero-decay sensing and control in electrolysis and other intense magnetic environments.

WATERPROOF DESIGN

Industrial-Grade Protected Platform

Industrial-grade IP67 body protection and IP68 wheel protection use high-integrity sealing to withstand humidity, spray and wading, keeping critical components stable over long service periods.

ULTRA-WIDE TEMPERATURE RANGE

Built for Extreme Operating Conditions

Stable operation from -40°C to 85°C breaks through severe cold and high-temperature limits, supporting demanding applications across global climate zones.

PRODUCT SPECIFICATIONS

Standing Configuration

Crouched Configuration

Mechanical Parameters	Standing Dimensions	1100 × 700 × 650 mm
	Folded Dimensions	1200 × 700 × 350 mm
	Total Weight	77 kg (battery included)
	Wheel Diameter	210 mm
Electrical Parameters	Battery	NMC / solid-state lithium / LFP
	Charging Time	1.5 h
	Endurance	No-load ≤ 12 h; full-load ≤ 8 h
Performance Parameters	Platform Speed	3 m/s
	Max Standing Payload	≥ 400 kg
	Max Walking Payload	≥ 200 kg
	Stair Capability	Max step height 25 cm
	Max Climbing Height	800 mm
	Slope Capability	45°
	Operating Temperature	-40°C to 85°C
	Compute Platform	Supports 2000 TOPS
Joint Parameters	High-Performance Motors	16
	Max Module Torque	450 N·m
Protection Parameters	Body Protection	IP67
	Wheel Protection	IP68
Sensor Configuration	LiDAR	Hybrid solid-state LiDAR × 1
	HD Depth Camera	•
	IMU	•
Functions	Basic Motion	•
	OTA Update	•
	App Support	•
	Bluetooth 5.4	•
	Wi-Fi	•
	Expansion Rail	•
	Secondary Development	•
	Handheld Remote Control	•
Other Configuration	Charger	Fast charger × 1
	Warranty	1 year
	Radar Port	RS485 × 1, USB × 3
	Camera Port	HDMI × 1
	Audio/Radar/Vision Port	HDMI × 1, USB × 1

[1] Items marked with a dot use the standard sensor configuration. Contact the hotline or local sales representative for details; sensor configuration, performance and functions can be customized.

[2] This is a high-precision intelligent device. Unauthorized modification, disassembly or alteration is prohibited. See the maintenance, service and warranty terms for details.

[3] Specifications are measured under standard laboratory conditions. Actual performance may vary with environmental factors. Follow all safety requirements and local regulations during use.

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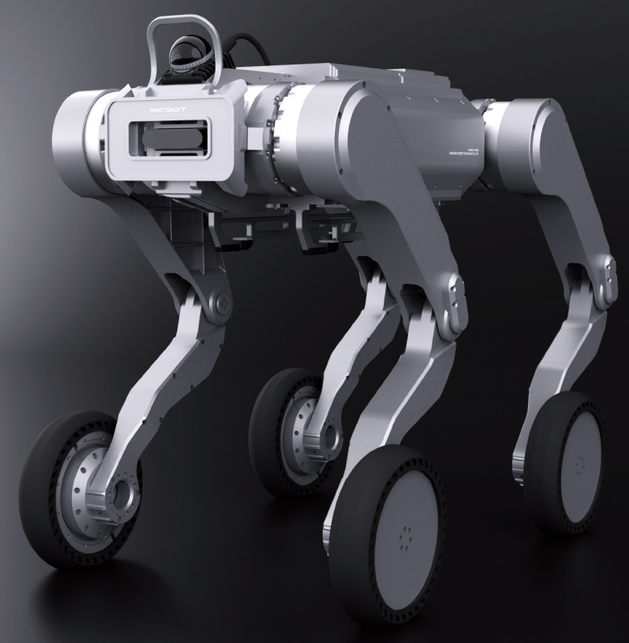
EXPLORER S01

General-Purpose High-Speed
Industrial Wheeled Quadruped



Industry-First High-Speed
Wheeled Work Platform

Full-Domain Protection
General-Purpose Platform

Dual-Planetary-Frame Drive
Intelligent Decision Platform

Modular, Multi-Scenario
General-Purpose Platform

Mechanical Parameters	Standing Dimensions	850 × 570 × 700 mm
	Low-Profile Dimensions	850 × 570 × 250 mm
	Total Weight	55 kg (battery included)
	Rated Payload	≤ 50 kg
	Wheel Diameter	150 mm (reference)
Electrical Parameters	Battery Type	NMC / solid-state lithium / LFP
	Battery Configuration	48 V DC / 22 Ah × 2
	Charging Time	≤ 2 h
	Operating Time	5-8 h
Performance Parameters	Platform Speed	Up to 8 m/s
	Max Step Height	≤ 75 mm
	Slope Capability	≤ 45°
	Operating Temperature	-40°C to 85°C
	Compute Platform	181 TOPS
Protection	Body Protection	IP67
	Wheel Protection	IP68
	Operating Humidity	0-95% RH, non-condensing
Sensor Configuration	Standard LiDAR	●
	HD Depth Camera	●
	Ultrasonic Radar	●
	IMU	●
Functions	Basic Motion Modes	●
	OTA Update	●
	App / Host Support	●
	Communications	Bluetooth 5.4 / Wi-Fi
	Expansion Ports	●
	Secondary Development	●
	Remote Control	●
Other Configuration	Charger	●
	Warranty	1 year
	Radar Port	RS485 × 1, USB × 3
	Camera Port	HDMI × 1
	Audio/Video Port	HDMI × 1, USB × 1

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MOVENEW P1 ExR

Increased-Safety Explosion-Proof
Wheeled Quadruped

Composite Explosion-Proof
Wheeled-Legged Platform

Wheeled-Legged Fusion
Explosion-Proof Platform

Fully Sealed
Intrinsic-Safety Design

Customized Explosion-Proof
Intelligent Sensing Platform

Basic Mechanical 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 + flame-retardant engineering plastic
Electrical & Explosion-Proof Parameters	Battery Type	Lithium iron phosphate
	Battery Capacity	48 V / 40 Ah
	Charging Time	Approx. 1.5 h
	Endurance	No-load ≤ 12 h; full-load ≤ 8 h
	Operating Voltage	DC 48 V
	Rated Power	≤ 120 W
	Explosion-Proof Marking	Ex db IIB T4 Gb / Ex tb IIIC T135°C Db
	Protection Rating	Body IP67; wheels IP68
Performance Parameters	Platform Speed	0-3 m/s
	Max Standing Payload	≥ 400 kg
	Max Walking Payload	≥ 200 kg
	Stair Capability	Max step height 25 cm
	Max Climbing Height	800 mm
	Slope Capability	45°
	Positioning Accuracy	± 1-3 cm
Joint & Power Parameters	High-Performance Motors	16 increased-safety servo motors
	Max Module 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 Parameters	Operating Temperature	-40°C to 85°C
	Operating Humidity	5-95% RH, non-condensing
	Protection Rating	Body IP67; wheels IP68
	Shock Resistance	15 g (11 ms)
	Vibration Resistance	5-200 Hz, 10 g
Functions & Interfaces	Core Functions	•
	Control Method	•
	Communications	4G / 5G / Wi-Fi / Bluetooth dual-mode
	Video Capture	•
	Sensor Configuration	•
	I/O Interfaces	•
	Expansion Capability	•
Certification & Compliance	Explosion-Proof Certification	National Explosion-Proof Electrical Product Quality Inspection Center; complete-unit Ex db eb mb IIB T4 Gb certification
	Applicable Standards	GB/T 3836.1-2021; GB/T 3836.2-2021
	Applicable Standards	
	Applicable Standards	GB/T 3836.3-2021; GB/T 3836.9-2021

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MOVENEW T1

General-Purpose Industrial
Wheeled Quadruped

CogniDecide
AI Decision Engine

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NeuroFuse
Multimodal Perception

DynaCore
Whole-Body Motion System

DynaForce
High-Performance Joint Module

Mechanical Parameters	Standing Dimensions	800 × 600 × 540 mm
	Folded Dimensions	1025 × 750 × 150 mm
	Total Battery Weight	40-50 kg
Electrical Parameters	Battery Capacity	3.5/4.5 kWh; supply voltage 72 V
Performance Parameters	Max Platform Speed	18 km/h
	Max Endurance	≤ 12 h
	Max Standing Payload	100 kg
	Continuous Walking Payload	50 kg
	Stair Capability	Max step height 25 cm
	Step Negotiation	40 cm steps, forward ascent/descent
	Operating Temperature	-40°C to 55°C
	Slope Capability	≤ 45°
	Compute Platform	181 TOPS
Joint Parameters	High-Performance Motors	16
	Wheel Diameter	180 mm
	Max Hub Torque	380 N·m
	Max Hub Speed	131 rad/s
Protection	Protection Rating	IP68
Sensor Configuration	HD Depth Camera	•
	Onboard LiDAR	•
	360° Panoramic Imaging	•
	Ultrasonic Radar	•
Lighting	Front Digital Matrix LED	•
	Rear Digital Matrix LED	•
	Rear LED Indicator	•
Functions	Basic Upgrade	•
	OTA Update	•
	Mobile App Support	•
	Handheld Remote Control	•
	Bluetooth 5.4	•
	Bluetooth Expansion	•
	Bottom Expansion	•
	Secondary Development	•
	Expansion Modules	•
Other Items	Core Modules	Jetson Orin NX Super + RK3588
	Battery	NMC / solid-state lithium / LFP
	Charging Station	Fast charge
	Warranty	1 year

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MOVENEW P1

Industrial Special-Purpose
Wheeled Quadruped

Industry-First
Four-Proof Platform

Wheeled-Legged Mobility
Across All Terrain

Intelligent Autonomy
Unmanned Operations

Extended Endurance
Round-the-Clock Duty

Mechanical Parameters	Standing Dimensions	900 × 600 × 650 mm
	Folded Dimensions	1150 × 800 × 200 mm
	Load Area	595 × 419 × 129 mm
	Total Weight	77 kg (battery included)
	Wheel Diameter	210 mm
Electrical Parameters	Battery	NMC / solid-state lithium / LFP
	Charging Time	1.5 h
	Endurance	No-load ≤ 12 h; full-load ≤ 8 h
Performance Parameters	Platform Speed	3 m/s
	Max Standing Payload	≥ 400 kg
	Max Walking Payload	≥ 200 kg
	Stair Capability	Max step height 25 cm
	Max Climbing Height	800 mm
	Slope Capability	45°
	Operating Temperature	-40°C to 85°C
	Compute Platform	Supports 2000 TOPS
Joint Parameters	High-Performance Motors	16
	Max Module Torque	450 N·m
Protection Parameters	Body Protection	IP67
	Wheel Protection	IP68
Sensor Configuration	LiDAR	96-line LiDAR × 1 (supports up to 3)
	HD Depth Camera	Optional
	Ultrasonic Radar	Optional
	IMU	•
Functions	Basic Motion	•
	OTA Update	•
	App Support	•
	Bluetooth 5.4	•
	Wi-Fi	•
	Expansion Rail	•
	Secondary Development	•
	Handheld Remote Control	•
Other Configuration	Charger	Fast charger × 1
	Warranty	1 year
	Radar Port	RS485 × 1, USB × 3
	Camera Port	HDMI × 1
	Audio/Radar/Vision Port	HDMI × 1, USB × 1

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