# MOVENEW P1

INDUSTRIAL SPECIAL-PURPOSE WHEELED QUADRUPED ROBOT



HANGZHOU JUWEI TECHNOLOGY CO., LTD.

# MICRO ROBOTECH
# SPECIAL-PURPOSE WHEELED QUADRUPED ROBOTS FOR INDUSTRY

MOVENEW P1 IS OUR NEXT-GEN INTELLIGENT MOBILE PLATFORM, BUILT FOR THE TOUGHEST SPECIAL OPERATIONS. IT COMBINES WHEELED EFFICIENCY FOR PATROLS WITH QUADRUPED AGILITY TO CONQUER OBSTACLES. DESIGNED TO REPLACE HUMANS IN HIGH-RISK ENVIRONMENTS, IT DELIVERS PERSISTENT, STABLE, HIGH-LOAD PERFORMANCE—REDEFINING WHAT INDUSTRIAL ROBOTS CAN DO.



## BODY & SKELETON

WITH A BODY SIZE OF 900×600×650MM AND A 77KG ALUMINUM ALLOY SKELETON, IT IS PRECISELY ADAPTED TO CONFINED SPACES SUCH AS EQUIPMENT GAPS, NARROW TUNNELS, AND BUILDING CORRIDORS.



## INTEGRATED SENSING & CONTROL

EQUIPPED WITH A MULTI-SENSOR FUSION PERCEPTION SYSTEM AND A HIGH-COMPUTING POWER PLATFORM, IT FORMS A 360° OMNIDIRECTIONAL ENVIRONMENTAL AWARENESS NETWORK, FULLY COVERING FUNCTIONAL MODULES SUCH AS ENVIRONMENTAL PERCEPTION, MISSION PLANNING, AND KNOWLEDGE REASONING.



## SUPER HEAVY PAYLOAD

ONE ROBOT REPLACES MULTIPLE UNITS. BACKED BY ITS ROBUST STRUCTURE AND POWERFUL DRIVE SYSTEM, IT ACHIEVES AN EXCEPTIONAL 400KG STATIC PAYLOAD AND A 200KG DYNAMIC PAYLOAD.




## ULTRA-LONG ENDURANCE

POWERED BY AN EFFICIENT ENERGY MANAGEMENT SYSTEM AND LOW-POWER CORE COMPONENTS, IT CAN OPERATE CONTINUOUSLY FOR 8–12 HOURS ON A SINGLE CHARGE.



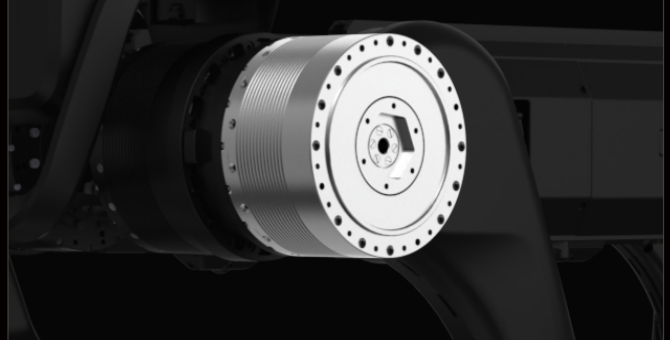

## ALL-TERRAIN ADAPTABILITY

FROM THE FRIGID COLD OF -40°C TO THE SCORCHING HEAT OF 85°C, FROM RUGGED OFF-ROAD SURFACES TO STEEP SLOPES OF UP TO 45°, IT BOASTS EXCEPTIONAL ENVIRONMENTAL ADAPTABILITY AND A HIGH LEVEL OF PROTECTION.



## FULL-STACK IN-HOUSE DEVELOPED MOTOR MODULE

THE DYNAFORCE JOINT MODULE INTEGRATES A TWO-STAGE PLANETARY REDUCER AND A SEGMENTED STATOR MOTOR, COMBINED WITH HIGH-PRECISION SPACE VECTOR CONTROL ALGORITHMS, DELIVERING EXCEPTIONAL POWER OUTPUT PERFORMANCE.



# P1 TECHNICAL SPECIFICATIONS

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| Robot Parameters | Standing Dimensions | 900*600*650 mm |
| | Folded Dimensions | 1150*800*200 mm |
| | Payload Dimensions | 595*419*129 mm |
| | Overall Weight | 77 kg (including battery) |
| | Wheel Diameter | 210 mm |
| Electrical Parameters | Battery | Hot-swappable 3.2 kWh ternary lithium battery (72 V) |
| | Charging Time | 1.5 h |
| | Endurance Time | ≤ 12 h (no load); ≤ 8 h (full load) |
| Performance Parameters | Platform Max. Speed | 3 m/s |
| | Max. Static Payload | > 400 kg |
| | Max. Dynamic Payload | > 200 kg |
| | Stair Climbing Ability | Max. step height: 25 cm |
| | Max. Crawling Height | 800 mm |
| | Slope Climbing Ability | 45° |
| | Operating Temperature | -40℃ to 85℃ |
| | Base Computing Power | 2000 TOPS |
| Joint Parameters | High-Performance Motors | 16 |
| | Max. Module Torque | 450 N·m |
| Protection Parameters | Main Body Protection Rating | IP67 |
| | Wheel Protection Rating | IP68 |
| | Vehicle-grade LiDAR | 96-line LiDAR*1 (supports up to 3 additional units, left/right) |
| Sensor Configuration | High-Precision Depth Camera | Optional add-on |
| | Ultrasonic Radar | Optional add-on |
| | IMU | • |
| Function Configuration | Basic Motion | • |
| | OTA Upgrade | • |
| | APP Support | • |
| | Bluetooth 5.4 | • |
| | WiFi | • |
| | Expansion Rails | • |
| | Secondary Development | • |
| | Handheld Controller | • |
| Other Configuration | Charger | Fast charging*1 |
| | Warranty Period | 1 year |
| | Radar Interface | RS4851, USB3 |
| | Camera Interface | HDMI*1 |
| | Audio/Video Interface | HDMI1, USB1 |

NOTES & DISCLAIMERS

[1] FOR INSTRUCTIONS ON USING THE FUNCTION EXPANSION INTERFACES, PLEASE REFER TO THE EXPANSION MANUAL. FOR DETAILED WARRANTY TERMS, PLEASE REFER TO THE PRODUCT WARRANTY MANUAL.

[2] THIS PRODUCT IS CLASSIFIED AS CIVILIAN INTELLIGENT EQUIPMENT. IT IS STRICTLY PROHIBITED TO USE IT FOR DANGEROUS MODIFICATIONS, ILLEGAL SCENARIOS, OR OPERATIONS BEYOND ITS INTENDED SCOPE OF APPLICATION. DURING USE, YOU MUST STRICTLY COMPLY WITH NATIONAL AND LOCAL LAWS, REGULATIONS, AND SAFE OPERATION SPECIFICATIONS.

[3] THE ABOVE PARAMETERS ARE LABORATORY TEST DATA. ACTUAL PERFORMANCE MAY VARY DUE TO FACTORS SUCH AS OPERATING ENVIRONMENT AND OPERATION METHODS, AND SHALL BE SUBJECT TO THE ACTUAL USE EFFECT.

[4] PRODUCT PARAMETERS AND FUNCTIONS MAY BE ADJUSTED WITH TECHNOLOGICAL ITERATIONS AND SHALL BE SUBJECT TO THE ACTUAL DELIVERED VERSION. PLEASE CONFIRM DETAILED SPECIFICATIONS WITH HANGZHOU JUWEI TECHNOLOGY CO., LTD. BEFORE PURCHASE.

Hangzhou Juwei Technology Co., Ltd. is a high-tech enterprise dedicated to the research, development and application of wheeled quadruped robots. The company is committed to building full-domain mobile intelligent agents capable of all-terrain autonomous operation. The core members of its R&D team are from prestigious universities at home and abroad, including Stanford University, Zhejiang University and Zhejiang Sci-Tech University. By deeply integrating cutting-edge technologies such as artificial intelligence and robot control, the company continuously promotes the introduction of innovative concepts and high-end talents.

The company has built an independent technology platform centered on integrated sensing and control, integrating core functions including autonomous navigation, multimodal perception and cooperative control. This empowers the robots with exceptional motion and operational capabilities, forming a product matrix covering industrial security, emergency rescue, special operations and other fields. Through a modular architecture, the products can be quickly adapted to the intelligent operation needs of various industries, establishing an integrated industrial-level application ecosystem covering perception, decision-making and execution.

The company maintains close cooperation with top domestic and international research institutions, achieving continuous breakthroughs in key technologies such as environmental perception and motion control. The founding team boasts profound experience in technical R&D, market development and commercial operation, and is always committed to promoting the large-scale application of high-performance robot technologies in real-world scenarios.

**Hangzhou Juwei Technology Co., Ltd.**
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