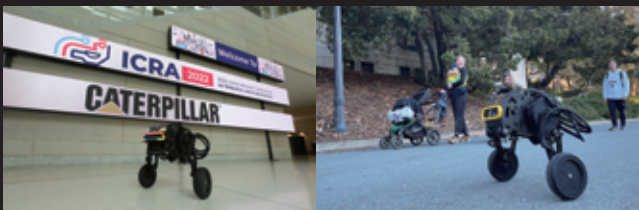


## SCENARIOS



Diablo Robotics is capable of operating in various scenarios such as delivering parcels and meals. After secondary development, it can be adapted for applications like VR usage, gas detection and security patrolling.



Diablo Robotics is also a standout presence at international conferences such as the International Conference on Robotics and Automation (ICRA), the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), GITEK, and more.

## PARAMETERS

Net weight	22.9KG	Battery life in standing mode	≈ 3 hours in 25°C
Dimensions (Standing)	540×371×491mm	Battery life in squatting mode	≈ 15min in 25°C
Dimensions (Creeping)	540×371×270mm	Creeping mode Maximum continuous travel	≈ 3 hours in 34°C
Maximum load in standing	4kg	Squatting mode Maximum continuous travel	≈ 3 hours in 34°C
Maximum load in creeping	80kg	Standing mode jumping height	≈ 8 cm (Without loading)
Noise during operating	<49dB	Maximum travel speed	2m/s

## DIRECT DRIVE TECHNOLOGY

Official website : [shop.directdrive.com](http://shop.directdrive.com)

Email : [hello@directdrivetech.com](mailto:hello@directdrivetech.com)

Tel : +86 18027032561

Mainland add: 9th Floor, Building 1, No. 11, Daxue Road, Songshan Lake,  
Dongguan City, Guangdong Province, CHINA



Shopify



Youtube

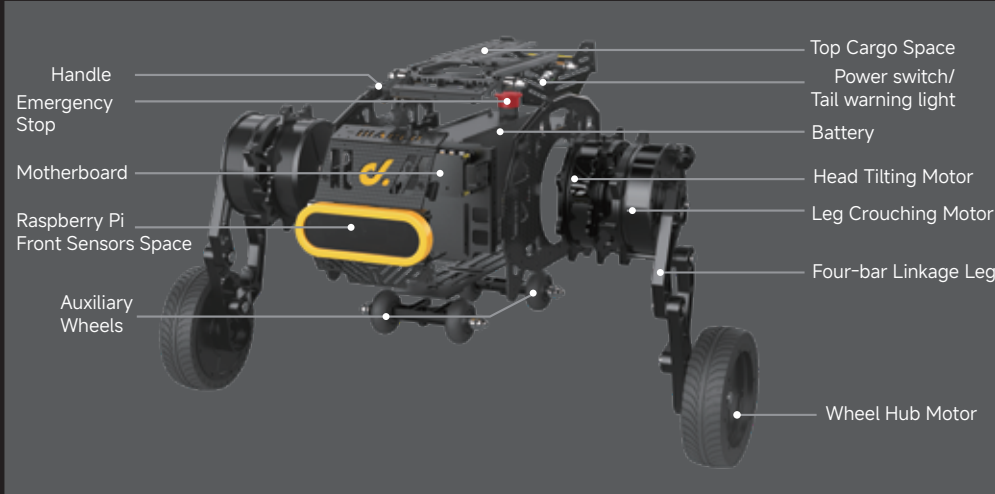
# DIABLO

World's First Direct-Drive Self-Balancing  
Wheeled-Leg Robot



## PRODUCT INTRODUCTION

Diablo Robotics is a direct-drive agile bipedal robot — a balancing mobile platform equipped with powered wheels on its feet. It features 6 degrees of freedom (DoF), enabled by six M1502D direct-drive joint motors, allowing movement in six directions. Diablo perfectly combines the speed advantages of wheeled AGVs with the mobility and obstacle-crossing capabilities of legged robots, enabling efficient and flexible movement across various terrains. It can quietly accompany you like a reliable companion.



## PERFORMANCE

### ⊗ Aerial Descent

Automatically balances itself upon landing.

### ⊗ The Head of Diablo Remains Stable and Balanced

Maintaining its flat across various terrains.

### ⊗ Obstacle-Climbing Height

8cm.

### ⊗ Ability to maintain balance stably

When the Diablo is running, even if its feet are standing on different terrains, it can keep the body moving stably through it.

### ⊗ Standing&Creeping Models

The head height can be adjusted by 10 cm to assist in crossing obstacles.



## FEATURES

### Diablo provides an open SDK

Diablo can also be installed with other hardware modules by users, including installing Lidar, Anti-collision module, GPS, etc.

### Long lasting battery life

3 hours high-speed running in creeping mode.  
3 hours low-speed running in standing mode.

### 6 DOF

Self-balance absorption and excellent terrain adaptability.

### Nearly Silent

<49db operation noise.

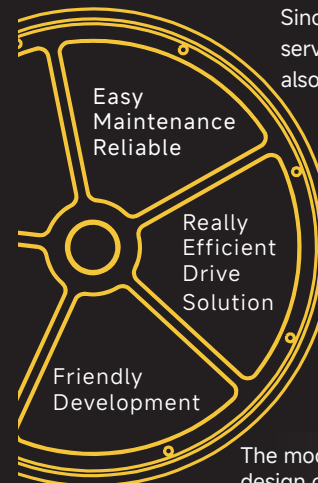


### Two operating modes for loading

Creeping mode: 80kg.  
Standing mode: 4kg.

### Remain stable when crossing obstacles

Featuring surging power and smooth motions.



Since there is no loss in the gear box, the direct drive solution has a longer service life and the system is more stable. The flange connection design also makes the maintenance and repair of the equipment simple and easy.

Since there is no friction in the transmission mechanism, the direct has a higher energy utilization efficiency and can provide a 30% increase battery life. Equipment can spend more time working and less time returning to recharge, greatly increasing.

The modular design makes product solution design more efficient, shortening the design cycle of the wheeled robot chassis by at least 20%, making it easier to develop, install and debug.