

LET'S

TITA



- Extremely stable
- Autonomous system
- High endurance



8-Degrees of freedom

Wheeling and Stepping

The Tita robot is a wheeled bipedal robot with perception, cognition and decision-making capabilities. Tita improves upon Direct Drive's previous robots; increasing its degrees of freedom from 6 to 8, this means that Tita can both wheel around or walk. The smooth all-in-one shape and strong customisation makes Tita highly adaptable.



The top is loaded with a universal rail called a 'Tita Bridge'. The rail allows for the easy installation of modules to suit any task, be it a camera mount for filming, a robotic arm for remote work, or simply a table for carrying objects. Direct Drive Tech can provide any number of attachments to suit your needs.



Tita perfectly combines the high speed and agility of a wheeled robot and the high adaptability and manoeuvrability of a bipedal walking robot. And the hot-swappable battery design allows users to power the robot without interruption.

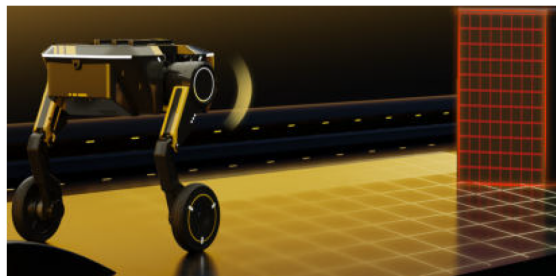


Tita is named after our company cat, and like its namesake it possesses a feline agility. Tita can adapt to complex terrains, effortlessly moving around objects and obstacles. With its advanced self-balancing technology it takes a substantial outside force to knock Tita over, and with its self-recovery capability it's on its feet again in seconds.



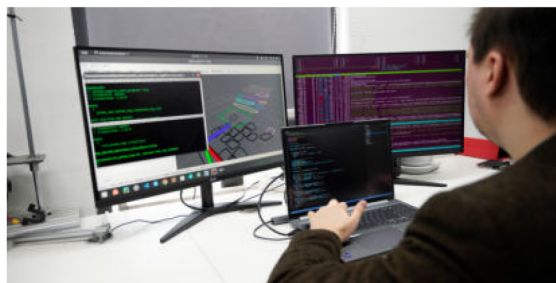
All-In-One Design

Adopting top industrial design, Tita looks sleek and futuristic and is equipped with light strips around its whole body. Its cute face, neat shape and wheel shoes look allows Tita to stand out in crowds.



Intelligent Decision-Making System

Tita's Highly-integrated perception and autonomy system allows Tita to recognize and deal with obstacles. Tita will automatically recognize and adopt the best path in complex surroundings.



Open Platform

Tita has an open API, which allows users to control the robot on board and via network. Some versions support motor level controlling and kernel level developing too.



Tita Bridge

Tita's unique accessory rail unleashes your creativity, allowing you to attach your own accessory and equipment depending on your needs.



| Specs/Model | Tita | Diablo |
|--------------------------|-----------------------------|--|
| Weight (kg) | 25kg | 22.9kg |
| Speed (km/h) | 6km/h | 7km/h |
| Payload | Standing 5kg—20kg | Standing=4kg / Creeping=80kg |
| Running Time | 2h~Infinity | 20min~4h |
| DoF | 8 | 6 |
| Built-in Camera | 2 | 0 |
| Built-in Speaker | 2 | 0 |
| Stepping | Yes | No |
| Automatic Safe stop | Yes | No |
| Inertial Sensor | 2 | 1 |
| SPAD Sensor | 1 | No |
| Ultrasonic Sensor | 1 | No |
| Processor | Jetson Orin + ARM Cortex M7 | ARM Cortex M4 + Horizon Sunrise X3 / Raspberry Pi 4G |
| Power Adapter | 50.4V 3A | 32V 3A |
| OTA Update | Yes | No |
| Research Programming API | ROS 2 / Zenoh | ROS 2 |



In 2020, Direct Drive Tech was founded in Songshan Lake, Dongguan. Our mission is to eliminate mechanical transmission components by using the direct-drive motor system.

We have a wide set of technologies, including robot joints, sensors, drivers and motor bodies, all of which increase positioning accuracy and improve system efficiency. Our direct-drive solutions make robots quieter, more space efficient and easier to maintain. Our robots suit various and diverse applications such as homecare, AGV/AMR, Gym facilities industry, etc.

We are a group pursuing our passions and creativity – driven by the vision of direct-driving the world with robots.

Authorized Distributor:



Tel : +852 37278000
 Website : www.OTG.com.hk
 OTG Store : Store.OTG.com.hk
 E-mail : Solutions@OTG.com.hk

Facebook:



Instagram:



YouTube:

