

The world's most powerful multi-purpose humanoid robot, 'won't fall even if you step on it'

The H1 humanoid robot from Unitree (Unitree Robotics), a Chinese robot systems company, is considered the world's most powerful multi-purpose humanoid robot with the highest speed, strength, maneuverability and flexibility.

The H1 humanoid robot from Unitree (Unitree Robotics), a Chinese robot systems company, is considered "the world's most powerful multi-purpose humanoid robot" with high speed, strength, maneuverability and flexibility best.



The H1 is approximately 71 inches (1800mm) tall and weighs approximately 100 lbs (47kg). Unitree has equipped this robot with a high-torque joint motor and gear drive developed in-house by the company. The robot is equipped with a 15-ah battery with a capacity of 0.863kWh.

Unitree also equips this humanoid robot with a 3D LiDAR sensor and a depth camera. The H1's leg joints have 5 degrees of freedom (DOF), while the arm joints have 4 DOF. Because the H1 is still in development, it lacks a hand, instead having a padded knob at the end of its arm.

H1 has a walking speed of 3.4 mph (5.6 km/h), comparable to a human. Robot H1 has the ability to regain balance after each strong impact. In the video, a Unitree engineer kicked the robot while it was walking but was unable to make it fall.

The Unitree H1 robot is also capable of walking and running automatically on uneven terrain and complex environments thanks to being equipped with a maximum torque of 360 Nm at the knees.

The versatility of this humanoid robot expands its applicability to diverse industries, services and applications, Unitree said.

Currently, the company has not revealed the official release date of the H1 but orders for the H1 are now open and plans are to begin shipping in the first quarter of 2024. The H1 is expected to cost around \$150,000.

You finished reading the article "**The world's most powerful multi-purpose humanoid robot, 'won't fall even if you step on it'**" edited by the [TipsMake](#) team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.