

ROBOTIX MARKET

SERIES BROCHURE
2026 edition

UNITREE · HUMANOID ROBOTS ·
ROBOTIX MARKET

Unitree

H2-D

Unitree's wheeled dual-arm humanoid: H2-D Standard on a fixed base, H2-D Flagship on a mobile base

Two 7-DoF arms on a 0.5 m lift column, a workspace from the floor to 2 m, and a base that stays put or drives at 1.5 m/s.



Available worldwide from Robotix Market
robotixmarket.com

OVERVIEW

Industrial mobile manipulation, redefined

The Unitree H2-D puts the upper body of the H2 humanoid — head, 2-DoF waist and two 7-DoF arms — on a lift column, for manipulation from floor level to 2 m. Unitree builds it in two versions: the Standard on a fixed base as a precision workstation, and the Flagship on a mobile base as a mobile manipulation platform. Both are designed for industrial manipulation, commercial services, robotics research and embodied-AI training.

Fixed or mobile

Standard: a precision workstation on a fixed base that turns $\pm 90^\circ$ in place and runs around the clock on direct power. Flagship: a mobile manipulation platform on a differential-drive base at up to 1.5 m/s.

From the floor to 2 m

A lift column with 0.5 m of travel at up to 200 mm/s and a 2-DoF waist with 0–115° pitch extend the workspace from floor level to 2 m; robot height 1.2–1.7 m.

Built for development

An Intel Core i5 platform computer plus an Intel Core i7 for custom development, an optional high-performance module such as NVIDIA Jetson Thor, SDKs, APIs and a navigation software stack.

Two 7-DoF arms

About 7 kg rated and 15 kg peak payload per arm and about 0.62 m single-arm reach with a 2-finger gripper, with a choice of 2-finger gripper, 3-finger or 5-finger dexterous hands.

Multimodal perception

The H2's humanoid binocular camera, two HD wrist cameras and voice interaction on both versions; the Flagship adds a chassis LiDAR, a depth camera and collision and ultrasonic sensors.

Unitree's own stack

Self-developed actuators, force-controlled joints and motion-control algorithms, tightly integrated and updated over the air; 12-month manufacturer warranty on both versions.



1.2–1.7 m

ROBOT HEIGHT

7 + 7

ARM DEGREES OF
FREEDOM

~7 kg

RATED PAYLOAD
PER ARM

0–2 m

WORKING HEIGHT

1.5 m/s

FLAGSHIP TOP
SPEED

Which H2-D?

ONE UPPER BODY, TWO BASES

H2-D Standard

Fixed base · 19 DoF

A precision workstation: the lift column on a fixed base with $\pm 90^\circ$ in-place rotation, a 48 V, 18 Ah base battery and 24/7 operation on direct power.

H2-D Flagship

Mobile base · 20 DoF

A mobile manipulation platform: differential-drive base at up to 1.5 m/s, about 0.75 m turning diameter, chassis LiDAR and depth camera, a 48 V, 30 Ah battery for about 5 h.

The H2 line

THE SAME PLATFORM IN FIVE FORMS — EACH WITH ITS OWN BROCHURE

H2

The full biped: 182 cm, 31 DoF, Intel Core i5 motion computer; no hands, 8-month warranty. Also as H2 Basic.

H2 EDU

The biped opened for research: Intel Core i7 development computer, SDK, hand packages, optional Jetson Thor; 12-month warranty.

H2-A

The H2 upper body on a fixed mounting plate at bench height, with a pair of hands; seven hand packages.

H2 Plus

The biped with NVIDIA Jetson Thor onboard, a 5 MP stereo camera, optional wrist cameras and Sharp Wave tactile hands.

H2-D Standard and Flagship compared

H2-D Standard

Fixed base · 19 DoF

H2-D Flagship

Mobile base · 20 DoF

BODY AND WORKSPACE		
Overall dimensions, column lowered		1200 × 576 × 620 mm
Overall dimensions, column raised		1700 × 576 × 620 mm
Weight, with battery		135 kg
Degrees of freedom, excl. end effectors	19	20
Arms · waist · head · base	7 + 7 · 2 · 2 · 1	7 + 7 · 2 · 2 · 2
Lift travel · lift speed		0.5 m · up to 200 mm/s
Waist pitch		0–115°
Working height		From floor level to 2 m
ARMS AND END EFFECTORS		
Arm payload*		Peak about 15 kg; rated about 7 kg
Single-arm reach, 2-finger gripper		About 0.62 m
End effectors**		2-finger gripper, 3-finger or 5-finger dexterous hand
BASE AND MOBILITY		
Base	Fixed base	Servo-driven dual-wheel differential drive
Rotation · turning	±90° in place	360° in place; turning diameter about 0.75 m
Maximum speed	—	Up to 1.5 m/s
Chassis sensors	—	LiDAR ×1, depth camera ×1, collision sensors ×2, ultrasonic sensors ×2
PERCEPTION AND COMPUTING		
Cameras		Humanoid binocular camera, wide field of view ×1; wrist HD cameras ×2
Computing		PC1 Intel Core i5 (platform) + PC2 Intel Core i7 (custom development)
High-performance computing module		Optional, e.g. NVIDIA Jetson Thor
Wi-Fi 6 · Bluetooth 5.2		Yes
POWER		
Battery	Quick-release base battery, 48 V, 18 Ah (864 Wh)	Quick-release base battery, 48 V, 30 Ah (1.44 kWh)
Operating time	24/7 on direct power supply	About 5 h; replaceable battery or automatic charging
ACCESSORIES AND SOFTWARE		
Handheld controller · visualization PC		Yes · Yes
Intelligent OTA · secondary development		Yes · Yes
Warranty		12 months

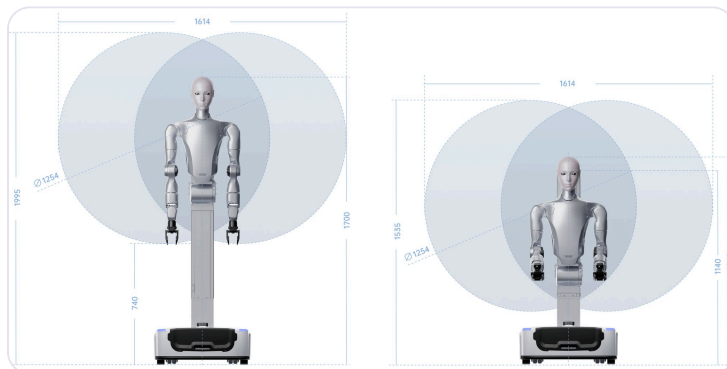
Unitree's published parameter table. A value shown once applies to both. — means the item is not part of that version. * The maximum arm load varies with the arm's extension posture. ** End effectors are selected with your quotation. Unitree notes that parameters may vary with scenario and configuration, and that some features are released gradually.

Sources: unitree.com/H2-D (product page and H2-D Standard / H2-D Flagship parameter table) and Unitree's H2 developer documentation, read September 2026. Figures are the manufacturer's; where a value is not published it is marked rather than estimated.

What is where on the H2-D



Unitree's H2-D callout graphic: the Standard on its fixed base (left) and the Flagship on its mobile base (right).



Workspace

Reach envelopes at the column's highest and lowest positions, per Unitree's drawing: robot height 1700 or 1200 mm, a single-arm reach sphere of Ø 1254 mm and a two-arm envelope 1614 mm wide, from 740 mm to 1995 mm above the floor with the column raised. Waist pitch and whole-body coordination take the hands down to floor level.

Shared by both versions

THE SAME UPPER BODY ON EVERY H2-D

Arms

7 DoF each; about 7 kg rated, 15 kg peak

Reach

About 0.62 m per arm with a 2-finger gripper

Lift column

0.5 m travel, up to 200 mm/s

Waist

2 DoF, 0–115° pitch

Head

The H2's bionic head, 2 DoF

Cameras

Binocular head camera, two HD wrist cameras

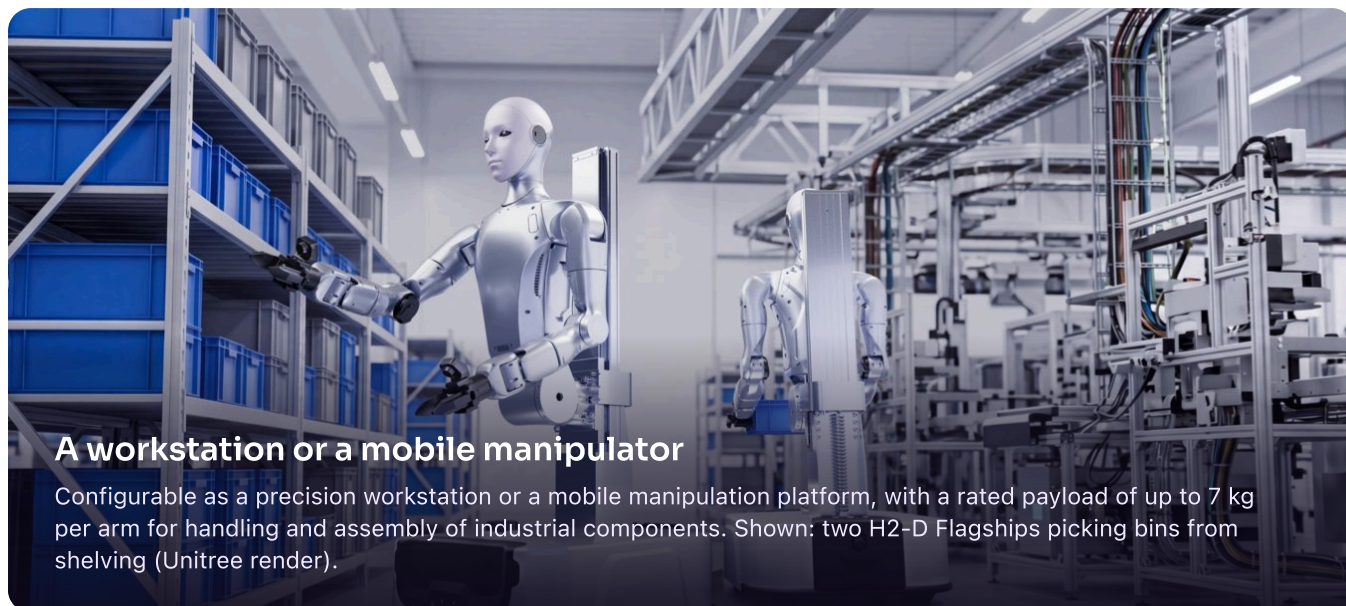
Computing

Intel Core i5 + Core i7; optional Jetson Thor

Software

SDKs, APIs, navigation stack, OTA

From research labs to production lines



A workstation or a mobile manipulator

Configurable as a precision workstation or a mobile manipulation platform, with a rated payload of up to 7 kg per arm for handling and assembly of industrial components. Shown: two H2-D Flagships picking bins from shelving (Unitree render).



Dynamic motion

High-torque joints and advanced motion control deliver precise manipulation during high-speed operation and force-sensitive assembly, on a stable platform.



Mobile manipulation (Flagship)

A navigation software stack moves the Flagship between stations with LiDAR, depth-camera, ultrasonic and collision sensing; 360° in-place rotation, about 0.75 m turning diameter.



Natural interaction

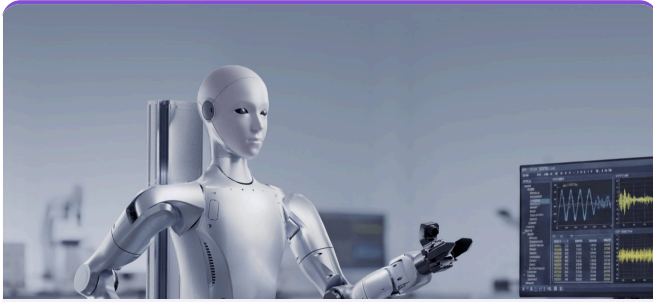
Binocular vision behind the H2's bionic face, with natural-language interaction for intuitive human-robot collaboration.



Open development

Comprehensive SDKs and APIs and the torso's interface panel let developers focus on the application; Unitree cites development cycles cut from months to weeks.

Four fields Unitree builds it for



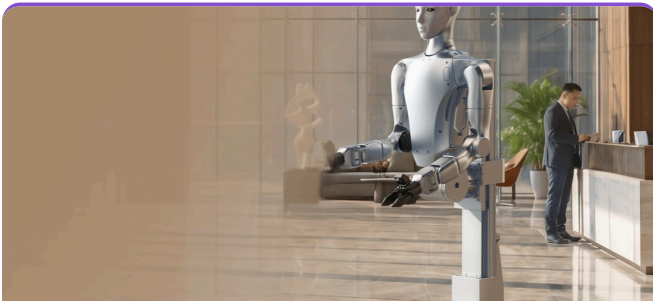
Industrial automation

Industrial automation, high-speed sorting and autonomous warehousing: the Flagship moves between stations, the Standard works one.



Research and education

Embodied-AI research and validation, robotics education and demonstrations on a dual-arm platform with open interfaces.



Commercial services

Reception, guided tours and retail operations, with the H2's bionic face, binocular vision and voice interaction.



Embodied-AI training

Large-scale real-world data collection, model fine-tuning and sim-to-real transfer.

End effectors

UNITREE'S OPTIONS FOR THE H2-D — SELECTED WITH YOUR QUOTATION



2-finger gripper



3-finger dexterous hand



5-finger dexterous hand

Quick-change end effectors adapt the H2-D to industrial, commercial and research work. Shown: Unitree Dex1-1, Dex3-1 and Dex5-1; the hand model and edition are confirmed with your quotation.

Accessories

UNITREE'S H2-D ACCESSORY LIST

From Unitree's H2-D parameter table. We confirm the full packing list, the end effectors and the computing module with your quotation.

- Quick-release base battery: 48 V, 18 Ah on the Standard, 48 V, 30 Ah on the Flagship
- Handheld controller
- Visualization PC
- Optional high-performance computing module, e.g. NVIDIA Jetson Thor
- End effectors of your choice: 2-finger gripper, 3-finger or 5-finger dexterous hand

NEXT STEP

Choose your H2-D

Tell us whether the robot should work at one station or move between them, what it handles and at which heights, and which end effectors you need. We will recommend the version and come back with a configuration, a delivery estimate to your address and a formal quotation.

Request a quotation

Web

robotixmarket.com/products/unitree-h2-d-flagship-mobile-base-wheeled-dual-arm-humanoid-robot

H2-D Standard: scan its code for the page.

Email · info@robotixmarket.com

Both versions are quoted per configuration; the end effectors, computing module and delivery are confirmed with your quotation. Robotix Market ships worldwide.



H2-D Standard



H2-D Flagship

Sourced new

Supplied through established distribution channels.

Manufacturer warranty

Every robot ships with Unitree's manufacturer warranty — 12 months on both H2-D versions, per Unitree's published terms — and official documentation.

Support

Technical support is coordinated with the manufacturer's service network.

Unitree's own advice: the H2-D has a complex structure and powerful joints; keep a sufficient safety distance between people and the robot and use it with care, as the civilian robot it is, without modifications or hazardous use.