PRODUCT BROCHURE
2026 edition

UBTECH · INDUSTRIAL HUMANOID ROBOT · ROBOTS AFRICA

UBTECH Walker S2 Industrial Humanoid Robot

A full-size humanoid that swaps its own battery, built for round-the-clock manufacturing and material-handling work.

Walker S2 is a new-generation industrial humanoid robot. It goes to a battery swap station on its own, so work can carry on day and night.

THE ROBOT

A humanoid made to keep working

Walker S2 is UBTECH's latest generation of industrial humanoid robots. It is built for manufacturing and material-handling workflows. Autonomous battery swapping supports 24/7 operation. Its human-scale body fits workplaces made for people.

Swaps its own battery

The robot handles battery swapping autonomously, in 3 min. That keeps it ready for 24/7 operation in manufacturing and material-handling work.

Full-body movement

52 degrees of freedom are spread over the arms, hands, legs, waist and neck. Each arm has 7, each hand 11 and each leg 6, with 2 at the waist and 2 at the neck.

A firm grip

A single hand grasps 7.5 kg. Each hand has 11 degrees of freedom for handling parts.

Human-scale body

It stands 1.76 m tall and weighs 70 kg. Its proportions suit spaces and workstations designed for people.

A flexible waist

The waist rotates ±162°. It also pitches from +90 to -35 deg, so the robot can turn and bend toward its work.

52	1.76 m	70 kg	7.5 kg	3 min
DEGREES OF FREEDOM	HEIGHT	WEIGHT	SINGLE HAND GRASP	BATTERY SWAP

INSIDE THE BUILD

Where the movement and sensing come from

Arms
Each arm has 7 degrees of freedom for reaching and positioning.

Hands
Each hand has 11 degrees of freedom, and a single hand grasps 7.5 kg.

Legs
Each leg has 6 degrees of freedom to carry the robot on its feet.

Waist
Two degrees of freedom let the torso rotate ±162° and pitch from +90 to -35 deg.

Neck
Two degrees of freedom let the head turn toward the task.

Six-axis force sensors
Two six-axis force sensors measure the forces acting on the robot.

Battery
The robot swaps its battery on its own in 3 min.

03

What sets this humanoid apart

52 DoF

Dexterous hands

Each hand has 11 degrees of freedom. A single hand grasps 7.5 kg.

162°

Wide waist range

The waist rotates ±162°. Its pitch runs from +90 to -35 deg.

BUILT IN

Force sensing

Two six-axis force sensors report the forces the robot meets as it works.

BUILT IN

Ready for simulation

A URDF and STL model, packaged for ROS and ROS 2, is published for the Walker S2 EDU.

Autonomous battery swapping takes 3 min. The robot keeps working through manufacturing and material-handling shifts.

WHERE IT FITS

Work it is made for

Manufacturing work

Suited to manufacturing workflows, where a human-scale robot can work at stations built for people.

Material handling

Handles parts and loads in material-handling workflows. A single hand grasps 7.5 kg.

Round-the-clock shifts

Swaps its own battery in 3 min, so it can support 24/7 operation.

Research and simulation

A URDF and STL model for ROS and ROS 2 is published for the Walker S2 EDU, so teams can plan and test in simulation.

> The published simulation model is stated to apply to the Walker S2 EDU. Check which version your configuration matches.

Autonomous battery swapping

The robot swaps its battery by itself in 3 min. This supports 24/7 operation.

TECHNICAL SPECIFICATIONS

Walker S2 specifications

DIMENSIONS & WEIGHT

Height	**1.76 m** *
Weight	**70 kg** *

PAYLOAD & PERFORMANCE

Degrees of freedom	**52 (7 per arm, 11 per hand, 6 per leg, 2 waist, 2 neck)** *
Single hand grasp	**7.5 kg** *
Waist rotation	**±162°** *
Waist pitch range	**+90 to -35 deg** *

BATTERY & CHARGING

Battery swap time	**3 min** *

NAVIGATION & SENSORS

Force/torque sensors	**Six-axis force sensor x2** *

COMPATIBILITY

Simulation model (Walker S2 EDU)	**URDF + STL (ROS/ROS 2 package) published in UBTECH-Robot/WalkerS2-Model** — Stated to apply to Walker S2 EDU *

OTHER

Positioning	**New-generation industrial humanoid robot with autonomous battery swapping for 24/7 operation in manufacturing and material-handling workflows** *

Sources: Figures from the manufacturer's published documentation, as verified in the specification table, revision 2.

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Ask for a quotation

Tell us which configuration you need and any options you want. Add the quantity and describe the work the robot will do, such as production line, warehouse or research.

ASSURED

01

Sourced new

Supplied through established distribution channels.

02

Manufacturer warranty

Every unit ships with the full UBTECH manufacturer warranty and official documentation.

03

Support

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

GOOD TO KNOW

The simulation model is a ROS and ROS 2 package of URDF and STL files, published in UBTECH-Robot/WalkerS2-Model.

REQUEST A QUOTATION

Prices and configuration on request.

WEB · robotsafrica.com/UBTECH-Walker-S2.htm

SEE IT IN ACTION · youtube.com/watch?v=TNryO2uasws

SEE IT IN ACTION · youtube.com/watch?v=nzflxCHT4vw

Robots Africa ships worldwide.

SCAN FOR THE PRODUCT PAGE

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