

FULL-SIZE HUMANOID

Axon One

The benchmark bipedal humanoid

Strong vision and a highly articulated body. An open platform on which your team programs, simulates and develops its own applications, supported by an industrial integrator with 58 years of experience.

1.65 m HEIGHT	**31** DEGREES OF FREEDOM
3 kg PAYLOAD PER ARM	**2 h** BATTERY LIFE

WHAT IT IS BUILT FOR

Industry and logistics

Bounded tasks that are already viable today and deliver real value. We study the automation as a whole with you — layout, safety, interaction — before committing to results.

Research and universities

An open platform, not a closed demo: full programming, environment simulation, peripheral connection and a test bench for future integrations.

Brand image and events

A premium presence at reception, on a stand or at a trade fair. It creates an experience people remember and share. Available for purchase and for rental, with an Axon technician.

Industry · Logistics · Inspection · Research and universities · Brand presence

Shall we talk about your project?

Free advice, with an answer within 24 working hours.

Humanoid robots by Rivas Robotics

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Torso, head and vision system



Emergency stop and indicators



Bipedal locomotion and dynamic balance

ALREADY VIABLE

- Bounded handling and inspection tasks in a controlled environment.
- Developing and testing your own applications with an open SDK.
- Teaching and training in humanoid robotics and programming.
- Brand presence at a reception, stand, trade fair or event.

WHAT WE STUDY FIRST

Reach and payload are limited: it does not replace heavy machinery or a dedicated high-payload industrial robot. For tasks demanding the highest repeatability and precision, it does not yet match a purpose-built industrial robot.

Integrating it into a real automation setup means reviewing layout, safety and interaction with other equipment. We analyse the whole picture with you.

SPECIFICATIONS

DIMENSIONS AND PERFORMANCE

Height	**1.65 m**
Weight	**55 kg**
Shoulder width	**55 cm**
Arm length	**70 cm**
Degrees of freedom	**31**
Max. payload per arm	**3 kg**
Walking speed	**5 km/h**
Battery life	**2 h**

CONTROL, SAFETY AND SERVICE

Max. motor torque	**150 N·m**
Perception	**IMU and depth cameras**
Motion computing	**RK3588**
Perception computing	**Orin NX · 100 TOPS**
Programming	**Open SDK · Python · ROS 2**
Simulation	**Isaac Sim · MuJoCo · Gazebo**
Warranty	**12 months**
Available as	**Purchase and rental**

Request your proposal

Tell us what you need and we will prepare it for your case.

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