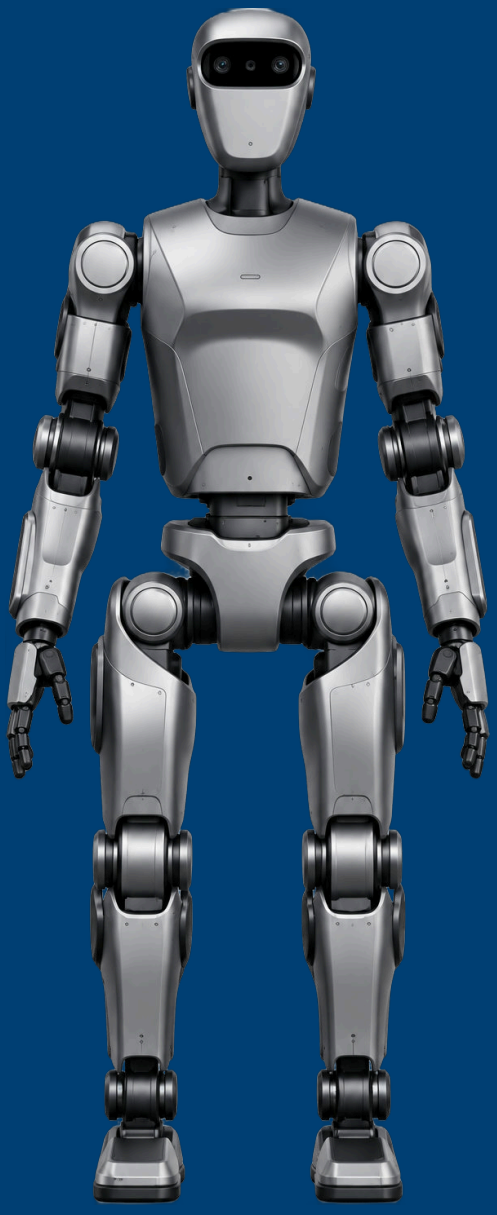
GENERAL CATALOGUE

HUMANOID ROBOT RANGE

Axon

The robot that works with you

We develop and integrate humanoid robotics in Spain and Latin America.



Humanoid robots by Rivas Robotics

2026

The Axon range

More than a robot. A new partner for industry.

Axon is the humanoid robotics brand of Rivas Robotics: we develop, integrate and rent humanoid robots in Spain and Latin America. A range that spans from research to live entertainment, backed by 58 years of industrial experience. Each model answers a different purpose.

MODEL	IN ONE LINE	FOR WHOM
Axon One	The complete, versatile humanoid	Research · general use · brand presence
Axon Pro	The modular one that adapts to any mission	Industry · logistics · R&D · bespoke
Axon Go	The field inspection specialist	Industrial inspection · logistics · development
Axon Nova	The showpiece, built to captivate an audience	Events · trade fairs · receptions · museums
Axon Max	The heavy-duty industrial one, built to order	Heavy industry · special projects

HOW WE WORK

Before proposing a robot we study the project: what task it has to do, in what environment, with what safety measures and alongside what other equipment. The proposal comes out of that study, not the other way round.

We are equally clear about what a humanoid already solves today and what still needs studying first. It is the only way for the project to go well and for the investment to make sense.

PURCHASE

Spain and Latin America

RENTAL

Spain. Latin America, on request



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



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**

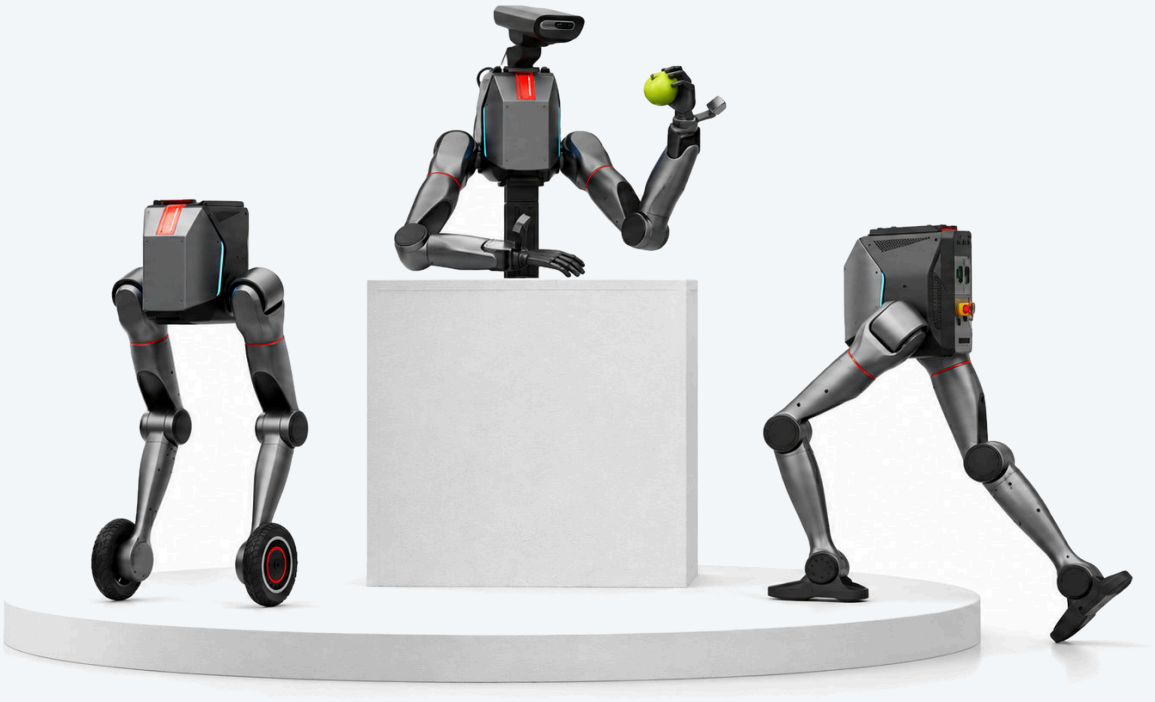
CONTROL, SAFETY AND SERVICE

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

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MODULAR PLATFORM

Axon Pro

The modular one that transforms

7 + 7 DoF IN THE ARMS	**73 cm** ARM REACH
10 kg DUAL-ARM PAYLOAD	**30 kg** PLATFORM PAYLOAD

The most flexible model in the range. It is configured for the mission: wheels or bipedal legs at the base; above, the full humanoid body with arms, or just the tooling the job needs. It is not a closed robot but a platform on which to build your own solution.

WHAT IT IS BUILT FOR

Industrial automation and logistics

Bespoke solutions on a shared base: you choose the lower body and the equipment to suit the task, without rebuilding the whole platform for every project.

Mobile manipulation

Two arms with 7 degrees of freedom and 73 cm of reach, carrying 10 kg combined, on a base that transports up to 30 kg.

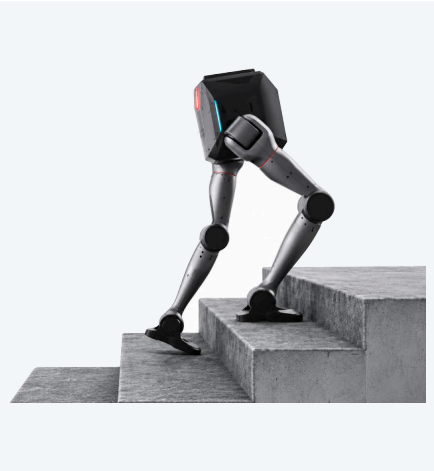
Advanced R&D

Open SDK, development in Python, C++ and ROS 2, and Sim2Real deployment on NVIDIA Isaac Sim, MuJoCo and Gazebo.

Industry · Logistics · Mobile manipulation · R&D · Bespoke projects



Humanoid body with arms



Bipedal legs climbing steps



The platform's three configurations

ALREADY VIABLE

- Mobile manipulation in a controlled environment: moving and handling within the same cycle.
- Building a bespoke configuration on a shared base, without rebuilding the platform for each project.
- Tasks that demand precision: ±0.5 mm repeatability at the arm tip.
- Developing your own applications in Python, C++ and ROS 2 on an open platform.

WHAT WE STUDY FIRST

These figures are for the complete assembly. The configuration you build — lower body, torso and kits — changes the real payload, reach and battery life, and we settle it with you in the feasibility study.

Integrating it into a real automation setup means reviewing layout, safety and interaction with other equipment. We analyse it as a whole, not as an isolated machine.

SPECIFICATIONS

ARMS AND HANDLING

Degrees of freedom	**7 per arm**
Arm reach	**73 cm**
Payload per arm	**5 kg · 3 kg extended**
Dual-arm payload	**10 kg**
End-effector speed	**5 m/s**
Repeatability	**± 0.5 mm**
Gripper	**20 N · 85 mm**
Working height	**Up to 1.5 m**
Material	**Aluminium alloy**

MOBILITY, CONTROL AND SERVICE

Lower body	**Flat feet or wheels**
Speed	**2–3 m/s · 3–5 m/s**
Max. gradient	**15° · 30°**
Platform payload	**30 kg · 20 kg on stairs**
Battery	**46.8 V · 9 Ah · 2,800 W**
Charging time	**30 min to 80 %**
Computing	**Intel Core Ultra · 2 TB**
Programming	**Python · C++ · ROS 2**
Warranty · availability	**12 months · purchase**

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MODULAR BIPEDAL PLATFORM

Axon Go

The field inspection specialist

An agile bipedal platform, built to move through complex environments and reach where other robots cannot. It walks plants and difficult spaces collecting data and checking the condition of equipment and infrastructure. It adapts with interchangeable feet and extends with arm, voice and sensor kits.

3 in 1
CONFIGURATIONS

10 kg
PAYLOAD

3 m/s
MAX. SPEED

2 h
BATTERY LIFE

WHAT IT IS BUILT FOR

Industrial inspection

It walks the plant collecting data and checking the condition of equipment. It reaches areas a conventional wheeled robot cannot.

Logistics and handling

With the arm kit: 6 degrees of freedom, 647 mm of reach and up to 3.5 kg at the tip for bounded pick-and-place tasks.

Development and research

Open SDK, development in Python and one-click Sim2Real deployment. Three lower-body modes on the same body.

Industrial inspection · Logistics · Development · Research · Complex environments



Configuration with manipulator arm



The three lower-body options



Configuration with flat feet

ALREADY VIABLE

- Inspection rounds with data logging in an industrial environment.
- Bounded handling tasks with the arm kit.
- Navigation and obstacle avoidance with the LiDAR and camera kit.
- Developing and validating your own algorithms on an open platform.

WHAT WE STUDY FIRST

Payload is limited: 1.5 kg rated and 3.5 kg maximum at the arm tip. It does not replace an industrial manipulator or a forklift.

The perception and voice kits are not compatible with every lower body. We settle the combination in the feasibility study, based on the real working environment.

SPECIFICATIONS

PLATFORM AND MOVEMENT

Dimensions	**392 × 420 × 845 mm**
Weight	**20 kg**
Payload	**Up to 10 kg**
Speed · wheels	**Up to 3 m/s**
Speed · feet	**Up to 1 m/s**
Max. gradient	**30°**
Obstacle height	**20 cm**
Battery life	**Up to 2 h**

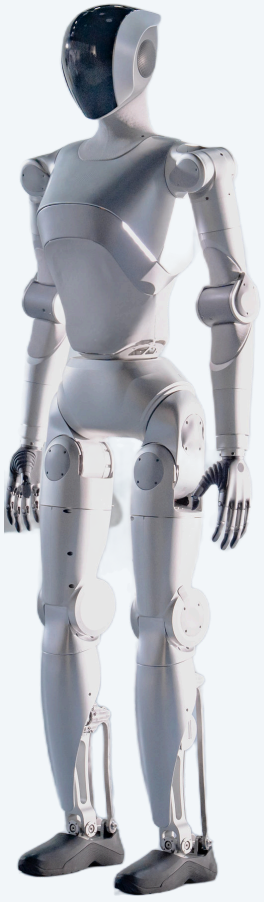
CONTROL, KITS AND SERVICE

Lower body	**Point foot · flat foot · wheels**
Rated · peak torque	**30 · 60 N·m**
Computing	**Intel i3 12th gen · 16/512 GB**
Connectivity	**USB 3.0 · Ethernet**
Charging time	**1.5 h to 100 %**
Arm kit	**6 DoF · 647 mm · 3.5 kg**
Available kits	**Arm · voice · sensors**
Available as	**Purchase**

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INTERACTIVE HUMANOID

Axon Nova

The showpiece, built to captivate an audience

The humanoid designed to captivate. Fluid movement, natural interaction with the public through voice and gesture, and premium finishes that convey quality. It turns a space into an experience people remember and share.

1.60 m HEIGHT	**27** DEGREES OF FREEDOM
4 h BATTERY LIFE	**5 km/h** SPEED

WHAT IT IS BUILT FOR

Trade fairs and events

A presence that stops visitors at a stand. Voice, vision and gesture interaction, and up to 4 hours of battery life per charge for a full day at a fair.

Receptions and museums

Greeting and guiding the public at a reception, lobby or hall. Premium finishes designed to be seen up close.

Shopping centres and stages

Synchronised choreography across several units, with swarm control and millisecond precision. Available for purchase and for rental.

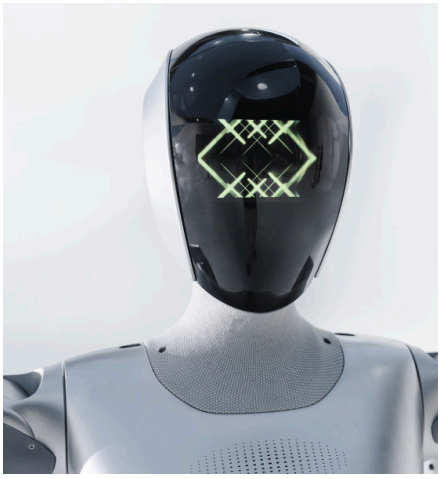
Events · Trade fairs · Receptions · Museums · Shopping centres



Torso and shoulder joint



Finish detail



Facial display and interaction

ALREADY VIABLE

- Greeting, guiding and interacting with the public through voice and gesture.
- Choreography and shows with several synchronised units.
- Brand presence at a fair, stand, lobby or shop window.
- Creating movement from video, with no programming.

WHAT WE STUDY FIRST

It is built for interaction and presence, not for productive work: payload is 3 kg per arm and it does not perform industrial tasks.

The venue shapes the result. We review flooring, lighting, ambient noise and distance to the audience before committing to the setup.

SPECIFICATIONS

DIMENSIONS AND PERFORMANCE

Height	**1.60 m**
Weight	**56 kg**
Shoulder width	**47 cm**
Arm length	**69 cm**
Active degrees of freedom	**27**
Max. payload per arm	**3 kg**
Walking speed	**5 km/h**
Battery life	**4 h**

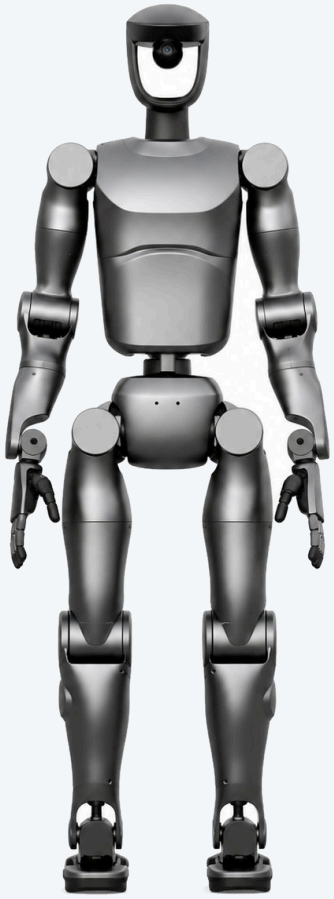
INTERACTION, CONTROL AND SERVICE

Max. motor torque	**200 N·m**
Battery	**10.000 mAh**
Charging time	**1 h**
Motion computing	**RK3588 · 16/256 GB**
Perception	**6-axis IMU · RGB camera**
Interaction	**Voice · vision · gesture**
Connectivity	**WiFi 6 · Bluetooth**
Warranty · availability	**12 months · purchase and rental**

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BESPOKE INDUSTRIAL HUMANOID

Axon Max

The heavy-duty industrial one, built to order

The answer when the project demands more than a standard model can give. Humanoids are developed and sized for each specific application. Here you do not start from a catalogue, you start from your need, with all of Rivas Robotics' engineering and industrial integration behind it.

+25 kg
PAYLOAD CAPACITY

up to 2 m
HEIGHT

Bipedal or AMR
BASE

58 years
RIVAS EXPERIENCE

WHAT IT IS BUILT FOR

Heavy industry

When payload, reach or environment exceed what a catalogue humanoid offers. The robot is sized for the task, not the other way round.

Special projects

Applications with no standard solution on the market: custom geometries, specific tooling or demanding working conditions.

Full integration

We do not just deliver a machine. Feasibility study, integration into your line, commissioning, training and technical service in Spain and Latin America.

Heavy industry · Special projects · Load handling · Bespoke integration

Shall we talk about your project?

Free advice, with an answer within 24 working hours.

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Bipedal configuration



Compact mobile base



Humanoid on an AMR platform

ALREADY VIABLE

- Sizing a humanoid for a specific task instead of adapting the task to the robot.
- Payload above 25 kg and heights of up to 2 m.
- Bipedal base or AMR-type mobile platform, depending on how it has to move.
- Full integration into the line, with Rivas Robotics' engineering behind it.

WHAT WE STUDY FIRST

An Axon Max is not ordered from a catalogue: it starts with a feasibility study in which we define payload, reach, environment, safety and timescales. The proposal comes out of that.

Timescales and cost depend on the real scope of the development. We do not give a figure before understanding the application, because it would be a made-up number.

HOW AN AXON MAX IS DEFINED

PROJECT PARAMETERS

Payload capacity	**Over 25 kg**
Height	**Up to 2 m**
Base	**Bipedal or AMR**
End effector	**To suit the application**
Reach	**Defined in the study**
Battery life	**Defined in the study**
Working environment	**Defined in the study**
Lead time	**To suit the scope**

WHAT THE PROJECT INCLUDES

Feasibility study	**Before committing to anything**
Engineering	**Rivas Robotics**
Integration into the line	**Included**
Commissioning	**Included**
Team training	**Included**
Technical service	**Spain and Latin America**
Spare parts	**Spain and Latin America**
Available as	**Purchase**

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Axon

The robot that works with you

More than a robot.
A new partner for industry.

FEASIBILITY STUDY

We analyse the task, the environment and the safety measures before committing to results.

INTEGRATION

Commissioning and integration into your line, backed by industrial expertise.

TRAINING

We support your team throughout the project, not just at handover.

TECHNICAL SERVICE

Support and spare parts in Spain and Latin America.

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