

ROBOTO Origin
介绍手册

ROBOTO Origin
Introduction Brochure

ROBO PARTY | 上海萝博派对科技有限公司
Open Source, Open Future.

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上海萝博派对科技有限公司

Open Source, Open Future.

ROBOTO Origin
Introduction Brochure

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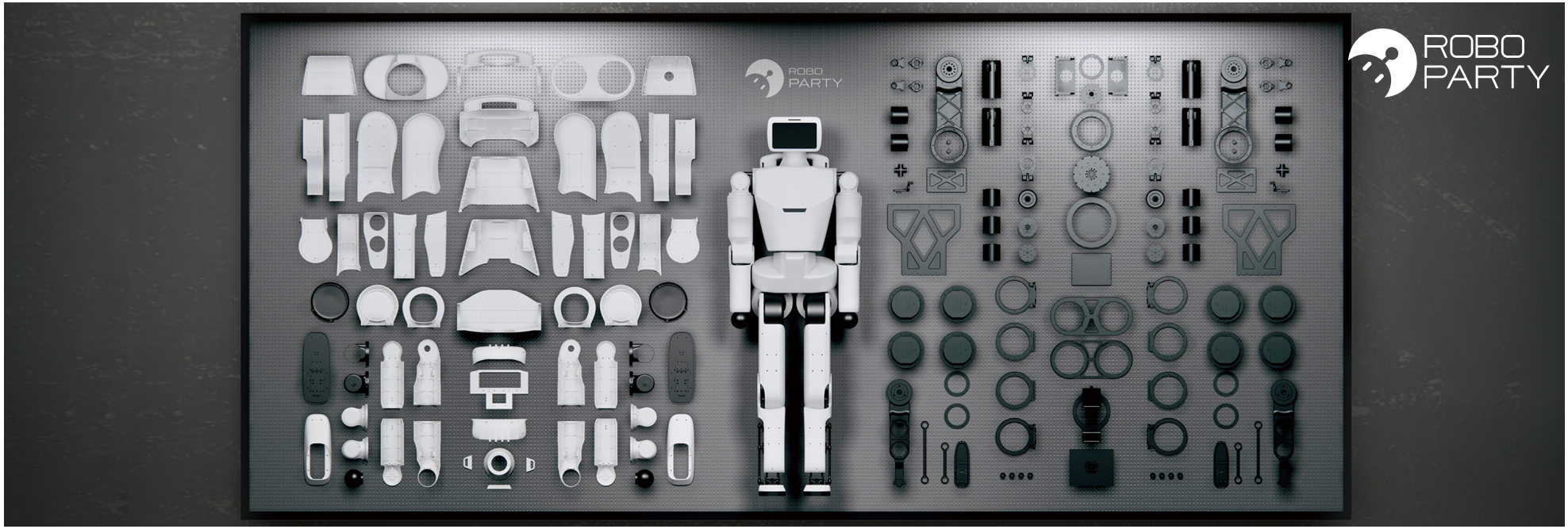
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01 关于我们
About Us

上海萝博派对科技有限公司(Shanghai RoboParty Technology Co., Ltd），一家专注于人形机器人的前沿科技公司，由 00 后工程师创立。以“低成本、高性能、开源共享”为核心理念，专注于全开源双足人形机器人的自主研发与生态平台构建，致力于搭建集全栈开源、生态友好的机器人开发平台，推动技术普惠与产业协同创新。

Shanghai RoboParty Technology Co., Ltd. is a cutting-edge technology company specializing in humanoid robotics. Founded by post-2000s engineers, the company is driven by innovation and a forward-looking vision.Guided by the core principles of “low cost, high performance, and open-source collaboration,” RoboParty focuses on the independent development of fully open-source bipedal humanoid robots and the construction of an integrated ecosystem platform. The company is committed to building a full-stack, open-source, and developer-friendly robotics platform, promoting inclusive access to advanced technology and fostering collaborative innovation across the industry.

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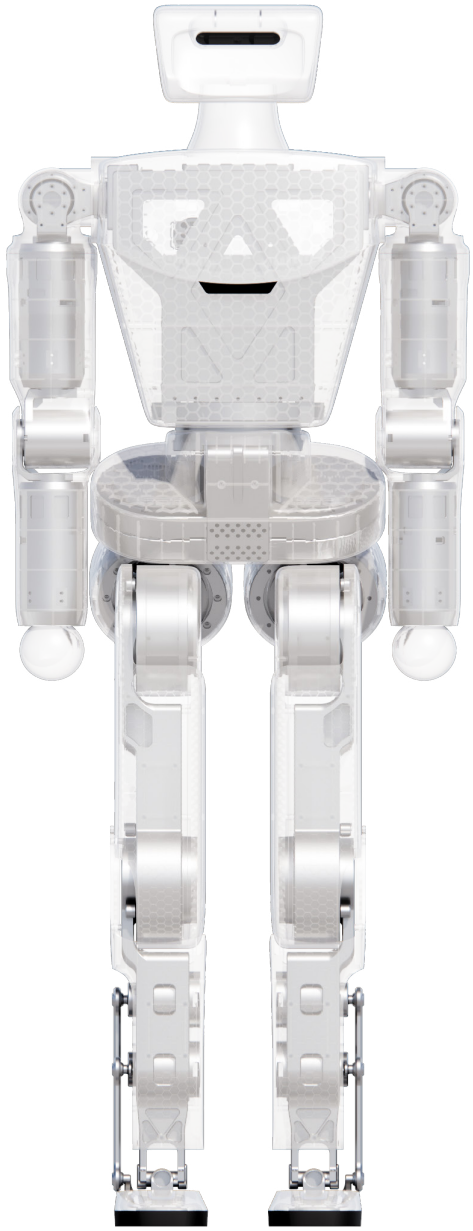
打造具身智能底座与业务布局

Build the Embodied Intelligence Infrastructure and business ecosystem

面对行业闭源壁垒高、规范缺失、标准不一的三大痛点，打造全栈开源的具身智能底座，将开发路径标准化、工具化、公开化，赋能行业创新。通过将开源生态、行业应用与 JDM 服务三者协同，共同构建一个开放、协同、共赢的机器人新生态。

In response to three major industry challenges—high barriers created by closed-source systems, lack of standardized specifications, and inconsistent standards—we are developing a full-stack, open-source embodied intelligence infrastructure foundation. By standardizing, modularizing, and openly sharing development pathways and toolchains, we aim to empower industry-wide innovation.

Through the coordinated integration of the open-source ecosystem, industry applications, and JDM (Joint Design Manufacturing) services, we are working together to establish an open, collaborative, and mutually beneficial new robotics ecosystem.



资本助力，加速启航

Capital Sets Sail for Success

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2025.11

千万美元种子轮 **Seed Round**

投资方：经纬创投、小米战投、银河通用、光源资本

Investors: Matrix Partners, Xiaomi Strategic Investment, Galbot and Lighthouse Capital.

2025.12

种子 + 轮 **Seed+ Round**

投资方：商汤国香、百度风投、华映资本、银河通用及老股东持续追加投资

Investor:Sense Capital, Baidu Ventures, Meridian Capital, Galbot with follow-on investments from existing shareholders.

2026.3

天使轮 **Angel Round**

投资方：商汤国香、经纬创投、赛纳资本、浦东创投、上海未来产业基金、安创资本、百川资本及老股东持续追加投资

Investor:Sense Capital, Matrix Partners, Seine Ventures, Pudong Innovation Investment, Shanghai Engine Fund, Arm China, Baichuan Capital with follow-on investments from existing shareholders.

MPCi 经纬创投

MERIDIAN CAPITAL 华映资本

GALBOT

商汤 sensetime

LIGHTHOUSE 光源资本

赛纳资本 SEINE VENTURES

中晟国际

Baidu.ventures 百度风投

安谋科技 arm CHINA

SHANGHAI ENGINE FUND

浦东创投 PDVC.COM

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01 以用户体验为核心的开源体系

我们坚持全栈开源，彻底白盒；坚持“软硬一体”全链路开放，从图纸到代码毫无保留。消除技术黑盒，让每一位用户都能真正看懂、掌控产品的核心。

我们坚持社区共创，技术共享，全力打造开源二创社区，连接每一位创造者。鼓励用户进行深度二次开发与技术分享，让创意与经验在社区中自由流动，共同推动技术进步。

User Experience-Centered Open-Source System

We uphold a fully open-source and completely transparent approach, embracing end-to-end openness under the principle of integrated hardware and software. From design blueprints to source code, nothing is withheld. By eliminating technological “black boxes,” we ensure that every user can truly understand and take control of the product’s core technologies.

We advocate community co-creation and technology sharing, striving to build an open-source innovation community that connects every creator. We encourage users to engage in in-depth secondary development and technical exchange, enabling ideas and expertise to flow freely within the community and jointly drive technological advancement.

02 科研教育应用

ROBOTO 平台面向高校 / 科研机构与教育体系，提供可复现、可二次开发、可验证的具身智能与机器人实验底座，帮助用户以更低成本完成从算法到系统的闭环验证，涵盖科研方向（具身智能、运动控制、感知与多模态、评测基准）与教学方向（机器人课程实验、创新实践与竞赛、工程训练）。

Scientific Research and Educational Applications

The ROBOTO platform serves universities, research institutions, and educational systems by providing a reproducible, customizable, and verifiable embodied intelligence and robotics experimental platform. It helps users achieve closed-loop validation from algorithms to complete systems at lower cost.

The platform supports research areas including embodied intelligence, motion control, perception and multimodal systems, and benchmarking standards, as well as educational applications such as robotics course laboratories, innovation projects and competitions, and engineering training programs.

03

全栈垂直整合与敏捷研产闭环

我们选择软硬同频、敏捷迭代的方式，打破传统串行开发模式，实现 ROBOTO Origin 结构进化与 RL 算法对齐的并行推进。极大压缩研发周期，确保硬件定型即具备顶尖运控能力。

我们采用社区共建、数据飞轮的方式，依托开源生态构建独特的数据反馈闭环。将社区的海量应用数据转化为研发燃料，驱动产品技术以“周”为单位极速进化。

Full-Stack Vertical Integration and Agile R&D Closed Loop

We adopt a tightly integrated hardware-software approach and an agile iteration model, breaking away from traditional sequential development processes. This enables the parallel advancement of ROBOTO Origin structural evolution and RL (Reinforcement Learning) algorithm alignment. By significantly shortening the R&D cycle, we ensure that hardware delivers top-tier motion control capabilities upon finalization.

Through community co-creation and a data flywheel model, we leverage the open-source ecosystem to build a unique data-driven feedback loop. Massive real-world application data from the community is transformed into R&D fuel, driving rapid product evolution on a weekly basis.

04

JDM 联合开发与工程化交付

我们提供从需求定义、系统架构、结构 / 电气 / 控制集成到 BOM 与供应链落地、试产与测试矩阵的端到端工程化服务，帮助客户把概念快速推进到稳定交付。

JDM Joint Development and Engineering Deliverys

We provide end-to-end engineering services covering requirement definition, system architecture design, structural/electrical/control integration, BOM and supply chain implementation, as well as pilot production and testing validation. Our services enable customers to efficiently transition from concept to stable, scalable delivery.

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02 产品介绍
Product Introduction



ROBOTO Origin

ROBOTO Origin 是面向创客、科研与教育领域的开源人形机器人平台，具备高扩展性与易开发特性，适用于教学实验、算法验证及具身智能研究，是希望从零了解具身机器人用户的理想入门产品。

The ROBOTO Origin is an open-source humanoid robotics platform designed for makers, research, and education sectors. Featuring high extensibility and developer-friendly design, it is well-suited for teaching experiments, algorithm validation, and embodied AI research.It is an ideal entry-level product for users who want to understand embodied robots from scratch.

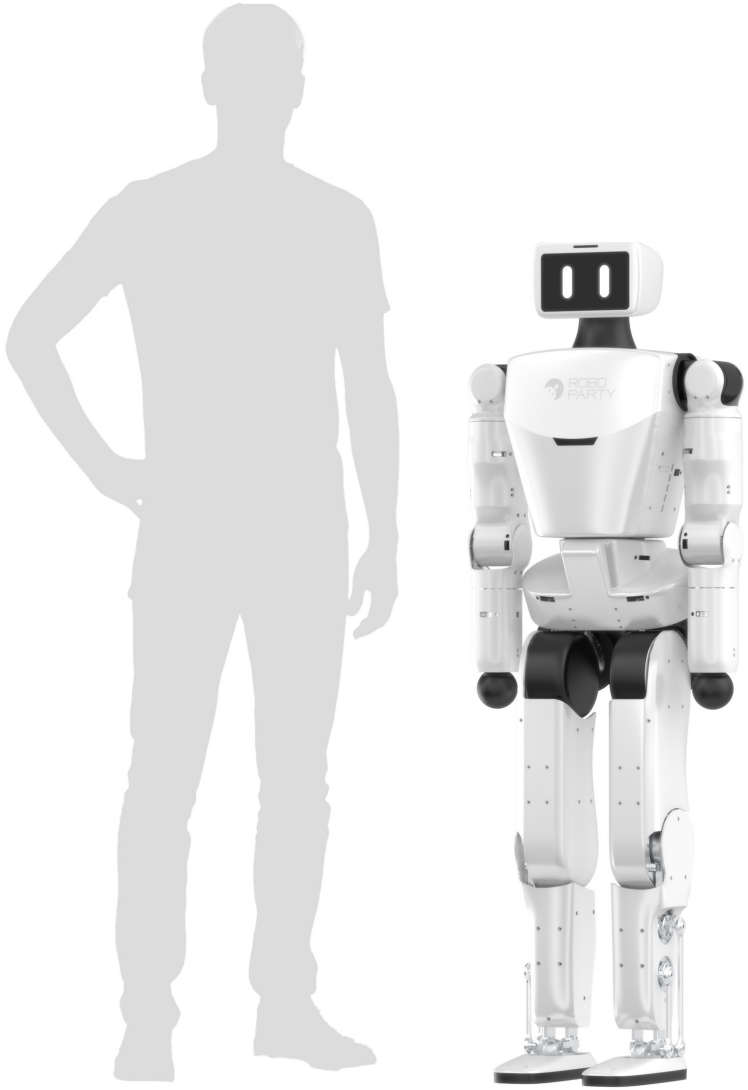
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01

产品参数

Product Specifications



结构参数

Structural Parameters

身高 Height	1.25m
自由度 DOF	23
体重 Weight	34Kg
大腿长度 Thigh Length	250mm
小腿长度 Shank Length	300mm
单臂总长度 Single-Arm Total Length	440mm

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能源动力
Power System

运动性能 Locomotion Performance	3m/s
关节峰值扭矩 Peak Torque per Joint	120N·M
电池容量 Battery Capacity	48V, 15AH
续航时间 Operating Time	2 小时以上（>2 hours）

感知系统
Perception System

Intel D435i 深度相机（可选配）
Intel D435i Depth Camera (Optional)

3D 激光雷达（可选配）
3D LiDAR (Optional)



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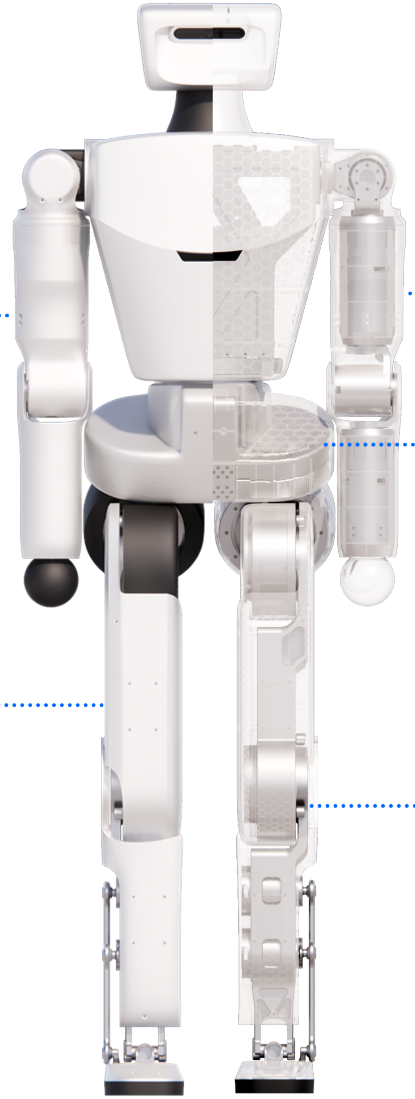
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单手臂自由度
Single Arm Degrees of Freedom
5

肩关节Shoulder Joints	3
肘关节Elbow Joints	1
腕关节Wrist Joints	1

单腿自由度
Single Leg Degrees of Freedom
6

髋关节Hip Joints	3
膝关节Knee Joints	1
踝关节Ankle Joints	2



手臂关节峰值扭矩
Arm Joint Peak Torque
27N·m

腰部自由度
Waist Degrees of Freedom
1

腿关节峰值扭矩
Leg JointPeak Torque
120N·m

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全栈开源体系
Full-Stack Open-Source Ecosystem

打破技术黑盒，提供从机械结构、电路设计到控制算法与仿真的全链路开源体系。
Demystifying technology by offering a comprehensive, open-source suite covering mechanical design, circuit schematics, control algorithms, and simulation tools.

极致仿生结构
Bio-Inspired Structural Excellence

工业级 CNC 精工制造，融合创新型并联脚踝与类人偏置关节设计。
Industrial-Grade CNC Precision Engineering – integrates an innovative parallel ankle mechanism and human-like offset joint design.

架构自由拓展
Architecture with Full Scalability

ROS 2 内核，骨肉分离设计，大幅降低维护成本，支持深度二次开发。
ROS 2 Core with Modular Skeleton-Shell Design – drastically reduces maintenance costs and supports in-depth secondary development.

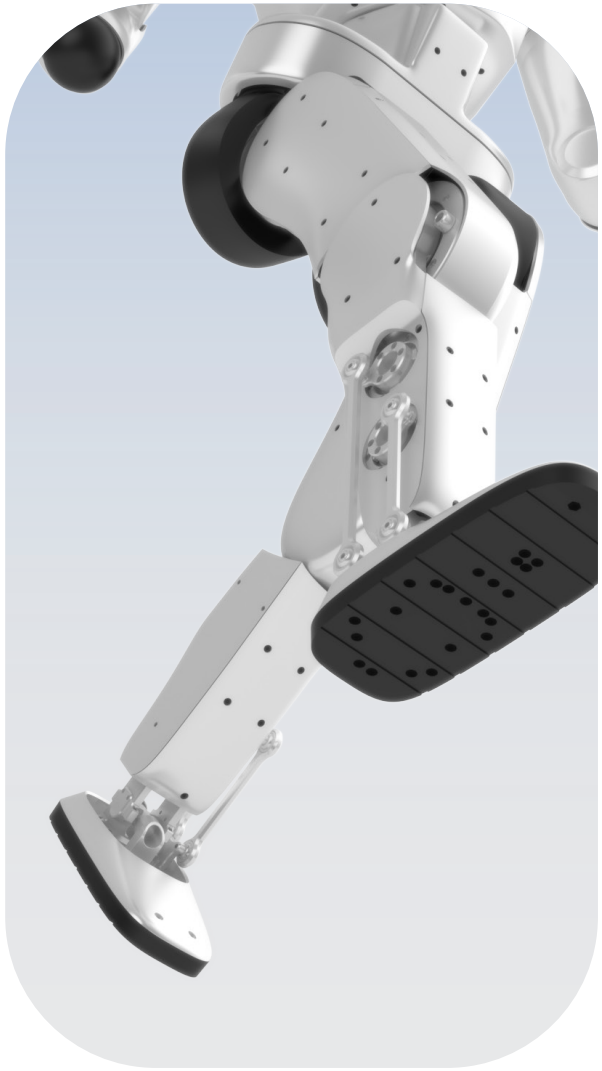
02
产品特点
Product Advantages

03 产品展示
Product Display

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