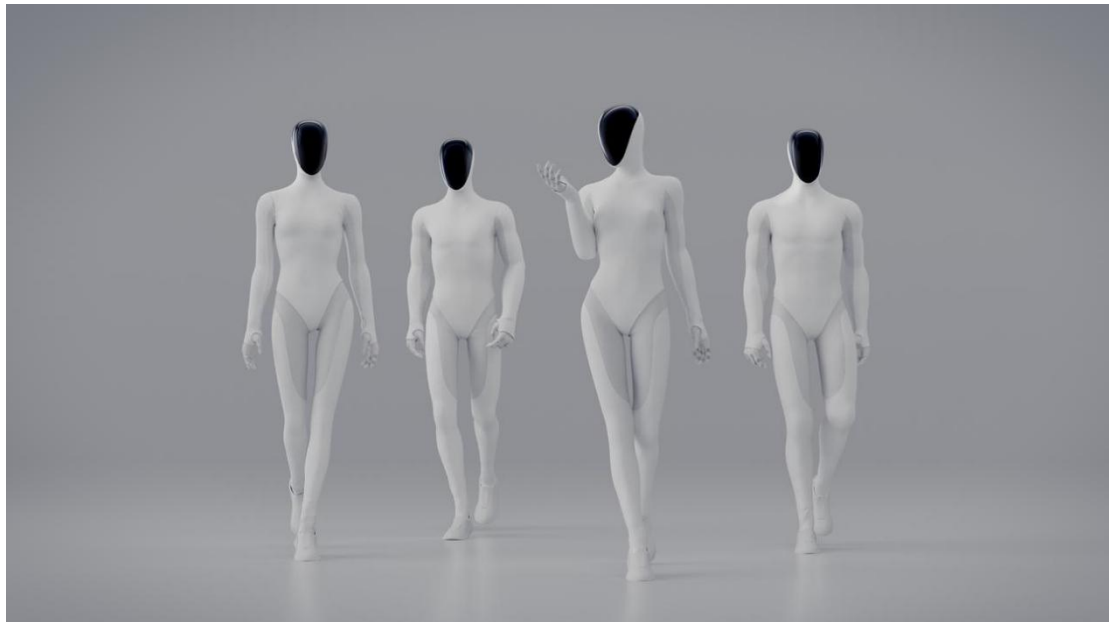


IRON Media Kit

1. IRON Introduction

Distinct from the standard XPENG corporate profile, this document highlights IRON as the core focus while leveraging the company's background. It is intended for use in product introductions and for seeking external robotics partnerships.

2. IRON Information



Next-generation IRON

XPENG's next-generation humanoid robot was officially unveiled at the XPENG AI Day on November 5, 2025. Standing at 173 cm tall and weighing 65 kg, the robot features 82 ultra-high degrees of freedom (DOF) across its entire body, while also featuring new ground-breaking 22-DOF biomimetic dexterous hands.

The design incorporates a high-DOF actuation system combined with a bio-inspired spinal structure in the waist, significantly enhancing overall motion flexibility and posture range. Structurally, it emphasizes highly anthropomorphic configuration and system integration, complemented by features like scapular and forefoot design, enabling human-like gait and posture, such as elegant, stable "model walk" and diverse anthropomorphic movements.

Through lattice-structured coverage, the XPENG's next-generation humanoid robot

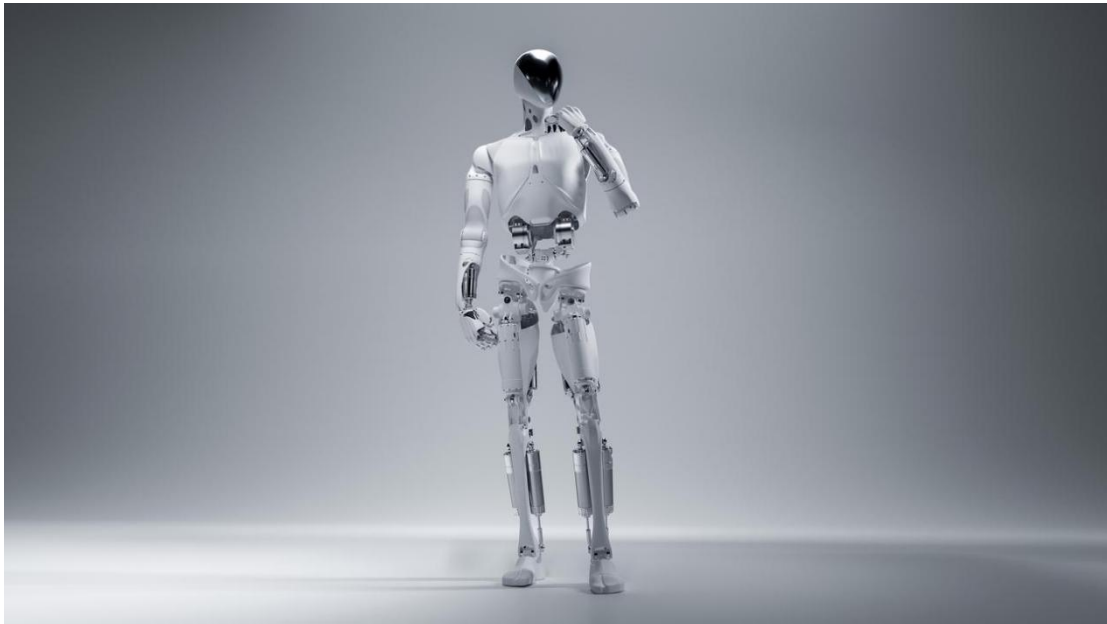
achieves high-precision body adaptation, allowing a single adaptive framework to seamlessly switch between different body types (e.g., athletic/slim) and genders (male/female), offering greater aesthetic versatility. This framework supports rapid customization of role-specific appearances through its "single skeleton, multi-form" architecture, allowing seamless adaptation across diverse operational scenarios.

Also, XPENG's next-generation humanoid robotic head integrates a 3D curved display module for dynamic expression of emotions, enhancing non-verbal communication affinity with humans.

Collectively, XPENG's next-generation humanoid robot integrates these innovations to deliver synergistic advancements in motion performance, body adaptability, and human-robot interaction—enhancing its overall capability as a seamless mobility solution.

	Size	
	Female	Male
Height (cm)	173	173
Shoulder Width (cm)	47	47
Chest Circumference (cm)	91	92
Waist Circumference (cm)	63	72.5
Sole Length (mm)	268	
Leg Length (Crotch to Sole)	88	
Waist to Sole Length (cm)	112	
Waist to Ankle Length (cm)	103	

First-generation IRON



XPENG Humanoid Robot IRON was officially introduced at XPENG AI Day on November 6, 2024. Standing at 178 cm tall and weighing 70 kg, IRON features a human-like structure design with 62 active degrees of freedom (DOF) across its body and 22-DOF biomimetic dexterous hands, capable of high-precision manipulation powered by an integrated tactile feedback system.

As a full-scale humanoid robot powered by XPENG's autonomous driving foundation model, IRON fuses the company's core AI infrastructure with its intelligent EV technologies—Battery, Motor, and Electronic Control System—delivering highly anthropomorphic motion capabilities. With a cloud-based world model, IRON adapts autonomously to complex environments, enabling context-aware, fluid interaction in dynamic and varied scenarios.

At system level, IRON is equipped with XPENG's self-developed Turing AI processor and runs on the Tianji AIOS. It leverages end-to-end large-scale AI models, reinforcement learning, and voice interaction technology shared with XPENG's intelligent cockpit, enabling advanced perception, natural gait, autonomous navigation, logical inference, and seamless natural conversation.

IRON is currently undergoing pilot deployment in real-world applications across XPENG's production lines, corporate reception areas, and retail environments. Backed by XPENG's robust in-house R&D expertise, IRON represents a major step towards more pervasive real-world application of humanoid robotics and the vision of human-AI symbiosis.

3. TOP3 Q&A

Q1: When will the robot be available for purchase?

A1: According to current plans, we aim to mass-produce advanced humanoid robots by the

end of 2026. However, the specific launch time may be adjusted based on the actual R&D and production progress, and we recommend that you monitor developments via our latest official announcements.

Q2: What is the expected selling price of the robot?

A2: A final price has not been set yet, as it will be influenced by various production and market factors. Delivering advanced technology at a competitive cost is a key priority for us, and we will announce the price ahead of the market release.

Q3: In which specific scenarios can robots be applied?

A3: Our primary focus will be on the commercial service sector. As announced at the product launch, our initial efforts will be centered around specific business functions such as guided tours, shopping assistance, and patrol guidance, allowing our robots to provide tangible, impactful services and create value for both businesses and their customers.

4. Introduction to XPENG Robotics Center

Established in 2020, the XPENG Robotics Center is rooted in China with a global outlook. With R&D hubs established in Shenzhen, Guangzhou, Beijing, Shanghai, and Silicon Valley, the Center is dedicated to constructing a long-term, systematic technical framework centered on Artificial General Intelligence (AGI).

The team brings together top-tier research talent from prestigious universities worldwide with diverse technical backgrounds, with over 60% holding a Masters or PhD degree. Our research spans robotics, artificial intelligence, large models, intelligent manufacturing, and systems engineering, continuously driving frontier exploration in embodied intelligence, general cognition, and autonomous decision-making systems.

Focusing on the ability of intelligent agents to understand, learn, and act in the real world, we are committed to bridging the critical path from core algorithms and system architecture to engineering verification. Our mission is to propel general intelligence from theoretical research toward verifiable, safe, scalable, real-world applications.