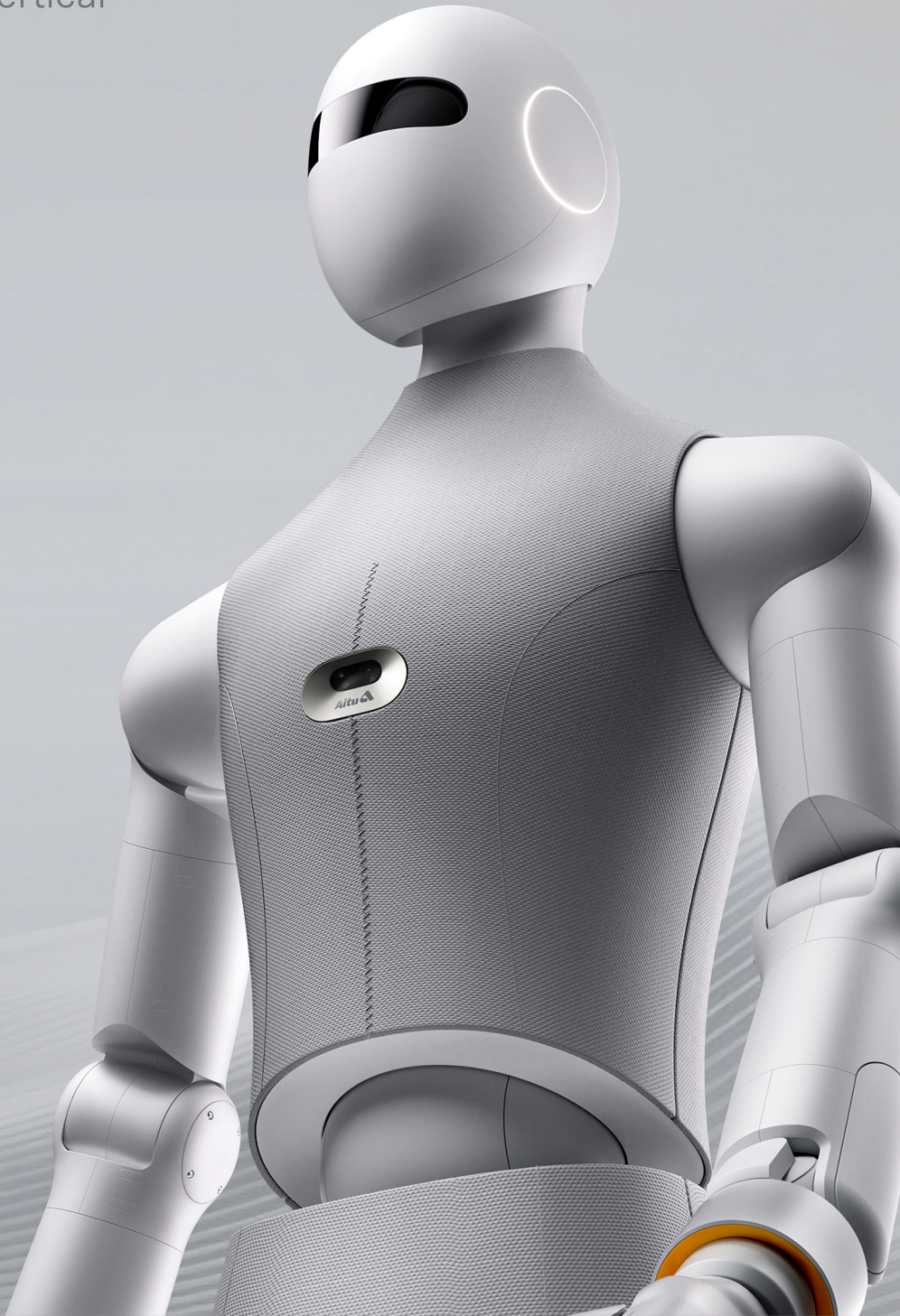


|                                |                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------|
| 身高<br>Height                   | 1720mm                                                                                    |
| 底盘尺寸<br>Base dimensions        | 530mm × 580mm ( 固定式/fixed )                                                               |
| 体重<br>Weight                   | 80kg                                                                                      |
| 手臂<br>Arm                      | 7自由度，重复定位精度 ± 0.05mm<br>7 degrees of freedom, repeat positioning accuracy ±0.05 mm        |
| 灵巧末端<br>Dexterous end effector | 标配2指，可选配3指（12自由度）<br>Standard 2-finger gripper, optional 3-finger (12 degrees of freedom) |
| 智能系统<br>Intelligent system     | 缝纫垂直领域大模型 + AI视觉感知<br>Large-scale AI model for the sewing vertical + AI visual perception |
| 感知能力<br>Perception capability  | 实时感知面料状态与环境<br>Real-time sensing of fabric state and environment conditions               |

# AI 缝纫机器人

## AI-Powered Sewing Robot

专为服装行业缝纫垂直领域研发的人形机器人  
A humanoid robot specifically developed for the garment sewing vertical



我们不止提供设备，更提供持续进化的生产力

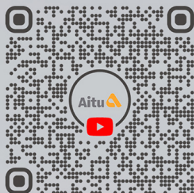
We not only provide equipment, but also deliver continuously evolving productivity



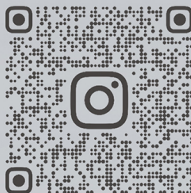
艾图官方微信  
Aitu Wechat



Facebook



Youtube



Instagram



# AI 缝纫机器人

## AI-Powered Sewing Robot

### 越用越聪明的“缝制大脑”

A “sewing brain” that gets smarter the more it is used

艾图机器人是专为服装工厂打造的人形机器人，旨在解决“招工难、培训难、人力成本高”等问题，最终实现“无人缝纫”的目标。它从关键工序（如上料、贴袋）入手，适用于衬衫、羽绒服等多种服装生产场景。

该机器人搭载了自研缝纫VLA垂域大模型，结合AI感知视觉、拟人柔性触觉技术，具备面料自适应、秒级换款、稳定可靠等优势，实现裁片分离、抓取、摆放、对齐的全流程自动化。助力工厂完成 AI 无人化智造升级。

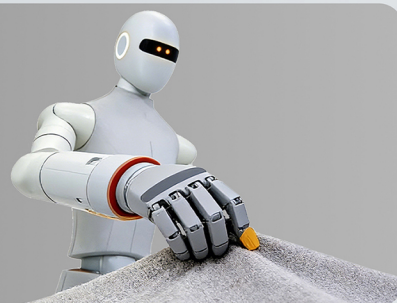
AI Jenny is a humanoid robot specifically designed for garment factories, aiming to solve challenges such as recruitment difficulties, training bottlenecks and high labor costs—ultimately enabling the goal of “unmanned sewing.” It starts with key processes (such as material feeding and pocket attaching) and is suitable for various apparel production scenarios, including shirts and down jackets.

The robot is equipped with a self-developed VLA (Vision-Language-Action) large model for the sewing domain, integrating AI visual perception and human-like flexible tactile technology. It offers advantages such as fabric adaptability, rapid style switching within seconds, and stable, reliable performance. It enables full-process automation including piece separation, picking, placement, and alignment—helping factories achieve AI-driven unmanned intelligent manufacturing upgrades.

### 柔性抓取（拟人级柔触技术） Flexible Gripping (Human-like Soft Tactile Technology)

独创自适应灵巧末端，融合VLA纺织大模型，实现毫米级精准抓取。再软再滑的布料，也能零破损、高精度摆放

It features a proprietary adaptive dexterous end effector integrated with the sewing-domain VLA large model, enabling millimeter-level precision gripping. Even soft and slippery fabrics can be handled with zero damage and high-precision placement.



### 万能适配（面料泛化） Fabric Generalization(Universal Adaptation)

基于纺织垂直大模型，具备强大的泛化学习能力，打破“一种面料一套程序”的局限。换面料不用换程序，拿来即用

Powered by a textile-specific large model with strong generalization capabilities, it breaks the limitation of “one fabric, one program.” No need to change programs when switching fabrics—ready to use instantly.



### 秒级换款，敏捷高效 Second-Level Style Switching Agile and Efficient

专为“小批量、多品种”打造。无需重新编程，秒级换款+全自动上下料，单/双层布料精准分离对齐，小单也能接出大利润

Designed for “small batch, multi-variety” production. No reprogramming required—achieve second-level style switching plus fully automated loading and unloading. Precisely separates and aligns single- or double-layer fabrics, making even small orders highly profitable.

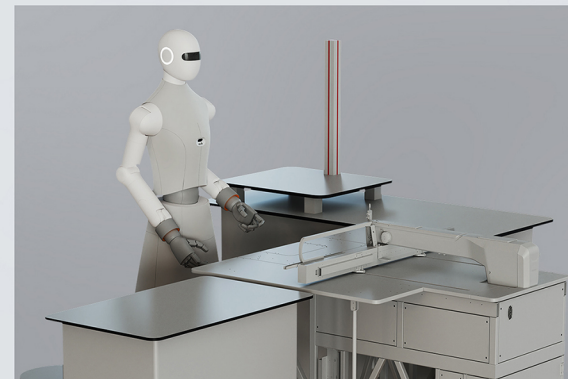


# 机器人运用场景

## Robot Application Scenarios

### 01 裁片分离 Piece Separation

自动识别并分离多层面料  
提升备料效率  
Automatically identifies and separates multiple fabric layers, improving material preparation efficiency



### 02 布料抓取 Fabric Gripping

适配多种面料材质与尺寸  
抓取稳定无损伤  
Adapts to various fabric types and sizes, ensuring stable and damage-free handling



### 03 布料摆放 Fabric Placement

视觉引导定位  
实现 ± 0.5mm级摆放精度  
AI vision-guided positioning achieves placement accuracy of ±0.5 mm

### 模板机上下料 Auto-Loading Template Machine

精准抓取摆放袖克夫、领子、口袋等部件，媲美熟练工匠  
Expertly grips and aligns cuffs, collars, and pockets with artisan-level precision.



### 贴袋机自动摆料 Auto-Feeding Pocket Attacher

精准高效完成牛仔、衬衫等纯色面料的摆料  
Efficiently positions solid-color denim and shirt fabrics with pinpoint accuracy.



### 粘衬机自动收料 Auto-Unloading Fusing Press

单/双臂作业，处理小尺寸布料并实现平整码垛  
Supports flexible single or dual-arm to handle small fabric cuts and achieve neat, flat stacking.

### 自主缝纫单元 Autonomous Sewing Cell

机器人与缝纫机深度协同，自主驱动指定工序的缝制作业  
Collaboration with sewing machine, autonomously executes design-nated sewing tasks.