

上海乐白机器人有限公司

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LEBAI 乐白

· 为美好生活 助一臂之力 ·
GIVE A HELPING HAND TO A BETTER LIFE

企业宣传册

CORPORATE BROCHURE

乐白生态合作伙伴

LEBAI ECO-PARTNERSHIP



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科技改变世界 协作成就未来

Technology changes the world
Collaboration achieves the future



Company INTRODUCTION 企业简介

上海乐白机器人有限公司(以下简称乐白)成立于2017年,是创新的协作机器人产品及解决方案提供商,由一批深耕机器人、机器视觉、人工智能、互联网软件领域多年的专业人士发起和成立的科技型企业。

乐白致力于生活及服务领域的机器人及机器人附件的设计、研发、生产和销售。网络化、云端化的机器人软件平台面向商业应用、智能家庭生活等场景,提供基于软硬件一体化的服务解决方案,为用户创造更大价值。

Shanghai Lebai Robotics Co., Ltd. was established in 2017 and is an innovative provider of collaborative robot products and solutions. A technology-based enterprise initiated and established by a group of professionals who have been deeply involved in the fields of robotics, machine vision, and internet software for many years.

LEBAI is committed to the design, development, production, and sales of robots and robot accessories in the fields of life and services. The networked and cloud based robot software platform is designed for business applications, intelligent home life, and other scenarios. We provides service solutions based on the integration of software and hardware to create greater value for users.



• 上海乐白机器人有限公司
• SHANGHAI LEBAI ROBOTICS Co., Ltd.



• 办公室与研发中心
• Office and R&D Center

低噪音

Low Noise

运行噪音低于 48 分贝，适合安静环境应用。
Operating noise below 48 decibels,
suitable for quiet environment applications.

轻量化

Lightweight

轻质合金与复合材料机身减重 15%，
小尺寸机箱安装方便。

Lightweight alloy and composite materials reduce
body weight by 15%, and small-sized chassis is
easy to install.

抗菌卫生

Antibacterial Hygiene

使用抗菌涂料，抑制细菌，
适用于食品、医疗行业。

Use anti-bacterial coating to suppress
bacteria, and it is suitable for the food
and medical industries.

L Master

无示教器，界面友好，接口丰富，机制完善，
由 Rust 编写，扩展性和安全性高。

No teaching pendant, user-friendly interface,
rich interface, complete mechanism, written by
Rust with high scalability and security

个性交互

Personalized Interaction

提供灯光、语音、硬件按钮等
操作，实现多种人机交互方式。

Provide lighting, prompt sound, hardware
buttons, and other operations to achieve
various human-computer interaction methods.

乐白公司核心产品型号

Core product models of LEBAI Company

LM 3/LM 3-L1 六轴协作机器人

LM 3/LM 3-L1 Six-axis collaborative robot



L Master SERIES COLLABORATIVE ROBOT

L Master 系列协作机器人

乐白 L Master 是一款支持机器人物联网 (IoRT) 的轻量型六轴协作机器人, 具有良好的通用性和协作性, 可配合不同种类末端工具, 实现多种应用需求, 为企业节约人力成本, 提高生产效率, 在餐饮、科研、教育、医疗、智能设备等领域广泛应用。

LEBAI L Master is a lightweight six-axis collaborative robot that supports IoRT, which has good versatility and collaboration. It can be used with different types of end tools to meet various application needs, saving labor costs and improving production efficiency for enterprises. It has been widely applied in fields such as catering, light industry, scientific research, education, and medical treatment.

UNIVERSAL PARAMETER

通用参数

- 自由度: 6
Degree of Freedom: 6
- 环境湿度: 25~85% (无冷凝)
Environment Humidity: 25~85%
(No condensation)
- 防护等级: IP54
Protection Grade: IP54
- 安装方式: 正装、倒装、侧装
Installation Method: Forward, Side,
Ceiling Installation
- 关节速度: $\leq 180^\circ/s$
Joint Velocity: $\leq 180^\circ/s$
- 关节范围: 无限制*
Joint Range: no limit*
- 环境温度: 0~40°C
Environment Temperature: 0~40 °C
- 供电电源: 48V (DC)
Power Supply: 48V (DC)
- 底座直径: 14.3cm
Base Diameter: 14.3cm
- 末端 I/O: DI×2/DO×2
Terminal end I/O: DI×2/DO×2
- 通讯: CAN
Communication: CAN

*关节运动范围无限制需排除机器人自干涉且没有外部物品阻挡的情况, 自干涉情况因实际应用场景不同而有所差异。

*About the range of joint motion is no limit: it is necessary to exclude the situation of robot self interference and no external objects blocking it. The self interference situation may vary depending on the actual application scenario.



LM3

负载 Payload : 3kg

重量 Weight : 9.5kg

工作范围 Working Radius : 638mm

LM3-L1

负载 Payload : 1kg

重量 Weight : 10kg

工作范围 Working Radius : 833mm

LMG SERIES ELECTRIC JAW

LMG-90/40 电动夹爪

大行程力控电动夹爪，可抓取不同大小和形状的对象。搭载 2DI/2DO 接口，1 个 U-ART 传感器接口。可根据用户需求选配吸盘和光电传感器组件，检测物体，实现吸取、夹取复合功能。

Large travel force controlled electric gripper, capable of grasping objects of different sizes and shapes. Equipped with a 2DI/2DO interface and one U-ART sensor interface. According to user needs, suction cups and photoelectric sensor components can be selected to detect objects and achieve composite functions of suction and gripping.

LMG-90

建议负载 Recommended payload : 3kg

重量 Weight : 0.46 kg

行程 Travel distance : 0-90 mm

夹持力 Clamping Force : 10-35 N



LMG-40

建议负载 Recommended payload : 3kg

重量 Weight : 0.64 kg

行程 Travel distance : 20-60 mm

夹持力 Clamping Force : 12-50 N



ELECTRIC CONTROL BOX FOR COOPERATIVE ROBOT

协作机器人电控箱

与机器人配套的控制箱，包括网络通信模块、电源模块、机器人控制模块。
Electronic Control box matched with the robot, including network communication module, power module, and robot control module.



尺寸 Size : 270*250*130mm

重量 Weight : 3.8kg

供电电源 Power Supply : 100~240V(AC)/50~60Hz

线缆长度 Wire Length : 2m

* (24VC/10A) 特别指定 Specially designated

通讯 : 以太网 /RS485/232/TTL

防护等级 Protection Grade : IP 20

Communication : Ethernet/RS485/232/TTL

I/O : 4 DI / 4 DO / 2 AI / 2 AO

USB 接口 USB Interface : 2.0

OPEN SOURCE COMPOSITE ROBOT

开源复合机器人 S300

乐白与轮趣科技强强联合研发手、眼、脚等一体化的复合机器人。包含轮趣 SLAM 底盘、乐白机器人 LM3、深度相机；可实现 SLAM 导航定位自主移动，深度视觉抓取。

LEBAI and WHEEL TEC jointly developed a composite robot with integrated components such as hands, eyes, and feet. Including WHEEL TEC SLAM chassis, LEBAI robot LM3, and depth camera; Capable of achieving SLAM navigation, positioning, autonomous movement, and deep visual grasping.



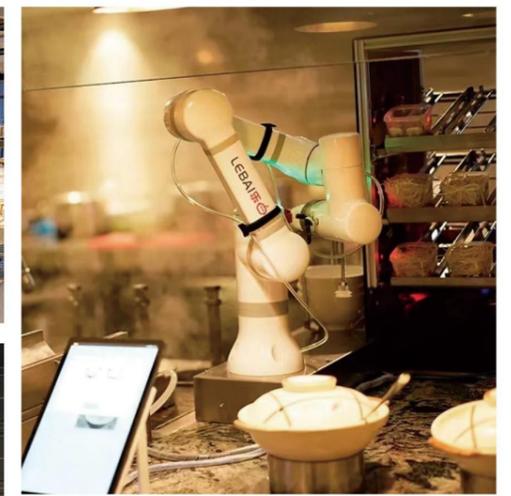
应用场景与解决方案 — 煮面机器人

Application scenarios and solutions — Noodle Cooking Robot



乐白智能煮面机器人由 LM3 机械臂、煮面专用定制夹爪、定制煮面炉汤炉、自动加汤出餐模块、供排水系统、面盒回收模块、出餐口等硬件模块组成。整个设备结构精致，布局合理，便于移动和部署；标准化操作使膳食品质更加稳定；后端管理系统可以同时处理多个订单，提高出餐效率；远程控制功能方便操作，降低维护成本；多孔煮锅可用于多种用途，可以同时烹饪各种食材，如面条、米粉、饺子、馄饨等。顾客也可根据自身需求，额外增加制面机、落杯器等个性化模块。

The Lebai Intelligent Noodle Cooking Robot consists of hardware modules such as LM3 robotic arm, customized noodle clamp, customized noodle cooking boiler, automatic soup adding and dining module, water supply and drainage system, noodle box recycling module, and dining outlet. The entire device has a delicate structure, reasonable layout, and is easy to move and deploy; Standardized operations make dietary quality more stable; The backend management system can process multiple orders simultaneously, improving meal efficiency; Remote control function facilitates operation and reduces maintenance costs; The porous boiling pot can be used for various purposes, and can cook various food materials at the same time, such as noodles, rice noodles, dumplings, wonton, etc. Customers can also add personalized modules such as dough making independently save labor set cooking time machines and cup placers according to their own needs.



多种款型 适用于多种不同场景

Multiple models suitable for various different scenarios



加装款： 在原有煮面炉上加装煮面机器人，该方案因地制宜， 无需水电改造。
Modified version: Install a noodle cooking robot on top of the original cooking boiler, which is tailored to local conditions and does not require water and electricity renovation.



标准成品款： 配套定制煮炉汤炉适用于新店或场地充足的餐饮场所。
Standard version: Comes with a customized noodle soup stove, suitable for new stores or scenes with sufficient space.



翻斗成品款： 在标准款的基础上使用翻斗式煮面炉， 效率更高。
Flip bucket noodle making model: On the basis of the standard model, use a flip bucket noodle boiler to improve efficiency.



半自动翻斗款： 通过人工辅助放碗的模式，人机协作效率进一步提高。
Semi automatic tipping bucket type: By manually assist with bowl placement and using human-machine collaboration mode, efficiency is further improved.

额外添加组件 可实现更多功能哦

Adding additional components can achieve more functions



制面机：
煮面机器人搭载制面机， 从面粉到一碗熟面条只需顾客一键点单， 轻松搞定。
Noodle maker :
The noodle cooking robot is equipped with a noodle making machine, allowing customers to easily order from flour to a bowl of cooked noodles with just one click.



落杯机构：
落杯机构搭载一次性餐盒，适用于外卖外带较多的餐饮门店，节省打包清理时间。
Cup dropping mechanism :
The cup dropping mechanism is equipped with a disposable food box, suitable for restaurants with a lot of takeout, saving packaging and cleaning time.



支付系统：
搭配原有的点单屏和系统，顾客从点单到支付自行完成，进一步节省人力成本。
Payment system :
Paired with the original ordering screen and system, customers can complete the process from ordering to payment on their own, further saving labor costs.

应用场景与解决方案 — 油炸机器人

Application scenarios and solutions — Frying Robot



乐白智能油炸机器人由 LM3 机械臂、油炸专用定制夹爪、控制台、电控箱、超声波油炸炉和其他可选部件组成。它可以支持按钮一键操作或语音控制，为各种食材设置不同的油炸时间和油炸动作。整个设备结构精致，布局合理，易于移动和部署；标准化操作使产品质量更加稳定，人性化互动快速缩短培训周期和成本。

The Lebai intelligent frying robot consists of an LM3 robotic arm, a customized frying gripper, a control console, an electric control box, an ultrasonic fryer, and other optional components. It can support one click button operation or voice control to set different frying times and actions for various ingredients. The entire device has a delicate structure, reasonable layout, and is easy to move and deploy; Standardized operations make product quality more stable, and user-friendly Independently Quality control set frying time interactions quickly shorten training cycles and costs.



应用场景与解决方案 — 咖啡机器人

Application scenarios and solutions — Coffee robot



乐白智能咖啡机器人由 LM3 机械臂、控制台、电控箱、咖啡机、制冰机、冰箱、拉花打印机（额外付费选配）、糖浆机、橱柜等部件组成。咖啡机器人可以完成一系列操作包含取杯、添加冰块、制作咖啡、压杯盖奉客等。乐白智能咖啡机器人可根据咖啡机的配置制作多种口味咖啡，冰咖热咖随心选配，为客户提供高品质的咖啡享受。通过智能解决方案，让客户能够轻松点餐并高效取餐。

The Lebai Intelligent Coffee Robot consists of LM3 robotic arm, control console, electric control box, coffee machine, ice maker, refrigerator, Latte Art printer (optional for additional payment), syrup machine, cabinet and other components. The coffee robot can perform a series of operations including picking up cups, adding ice, making coffee, pressing cup lids, and serving guests. Lebai Intelligent Coffee Robot can produce a variety of flavors of coffee according to the configuration of the coffee machine, with ice and hot coffee optional, providing customers with high-quality coffee enjoyment. Through intelligent solutions, customers can easily order and efficiently pick up meals.



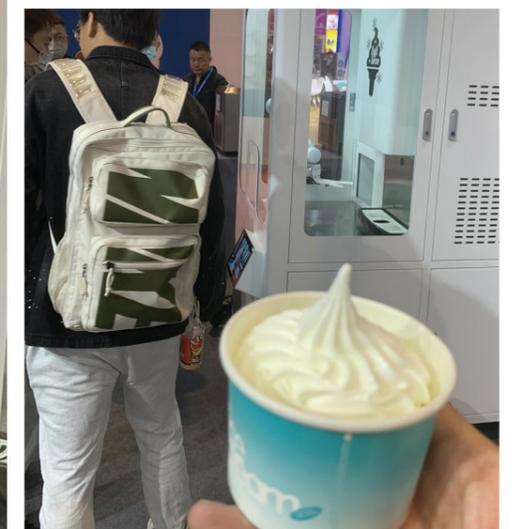
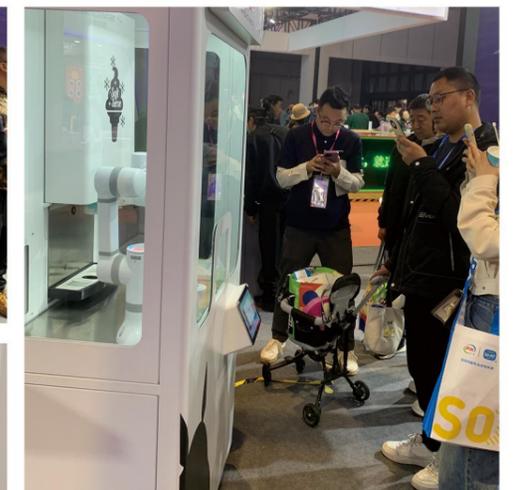
应用场景与解决方案 — 冰淇淋机器人

Application scenarios and solutions — Icecream robot



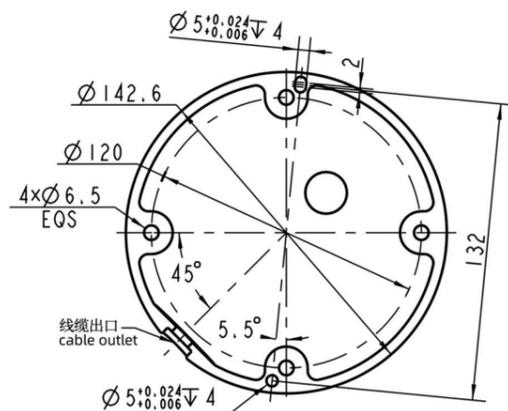
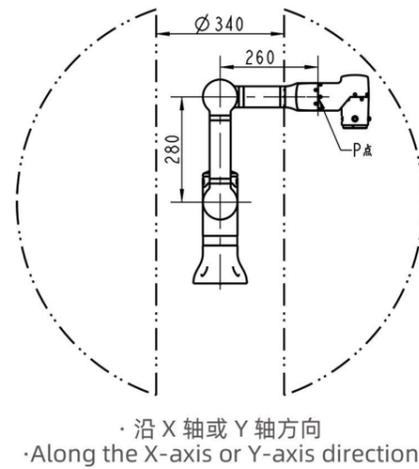
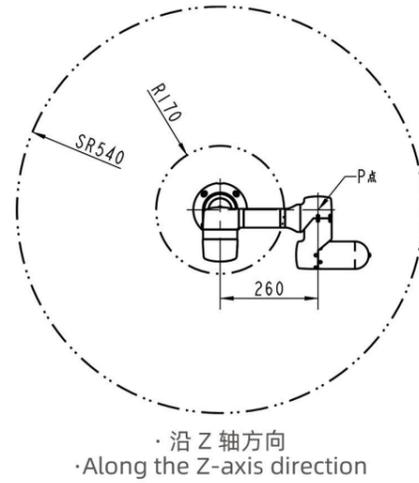
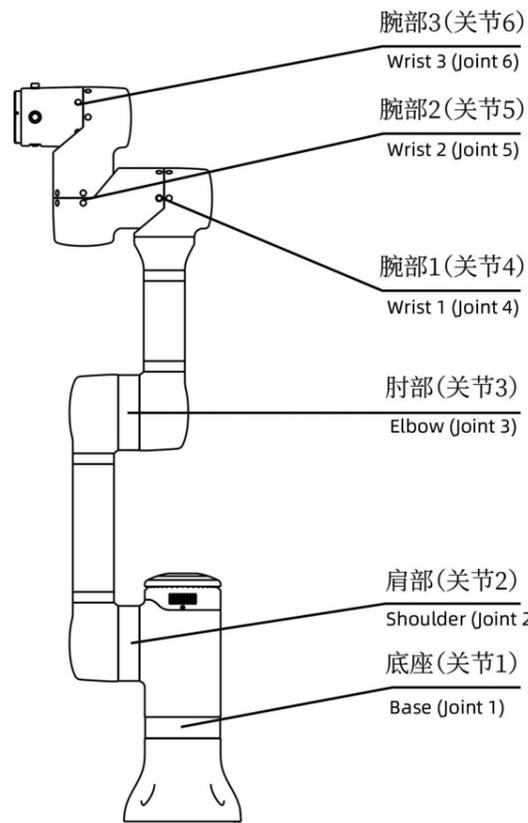
乐白智能冰淇淋机器人由 LM3 机械臂、冰淇淋机、杯筒等部件组成。LM3 机器人可以完成取杯筒、旋转制作冰淇淋、服务顾客等一系列动作。乐白智能冰淇淋机器人制作的冰淇淋造型优美、口感清新甜美。乐白智能冰淇淋机器人可以服务于商场、儿童乐园、社交餐饮、自助餐厅等智能零售场所，有吸睛引流、增强顾客体验感的作用。员工只需要按照系统提示补充食材，进行日常清洁和维护工作即可。

The Lebai intelligent ice cream robot consists of LM3 robotic arm, ice cream machine, cup barrel and other components. The LM3 robot can perform a series of actions such as cup picking, rotating to make ice cream, and serving customers. The ice cream made by Lebai Intelligent Ice Cream Robot has a beautiful shape and a fresh and sweet taste. Lebai intelligent ice cream robot can serve smart retail places such as shopping malls, children's parks, social catering, self-service restaurants, etc. It has the function of attracting attention and enhancing customer experience. Employees only need to follow the system prompts to replenish ingredients and carry out daily cleaning and maintenance work.

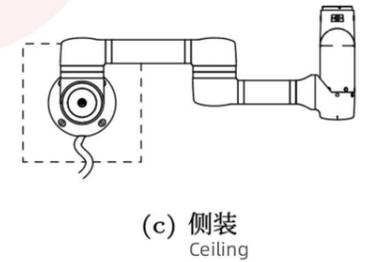
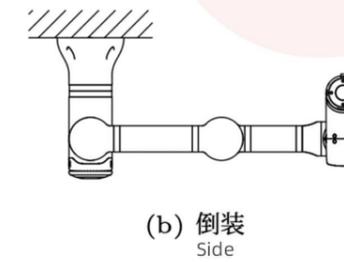
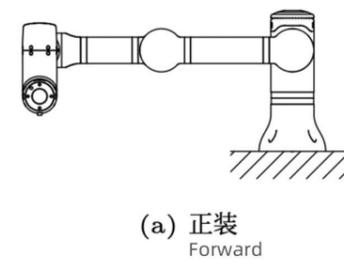
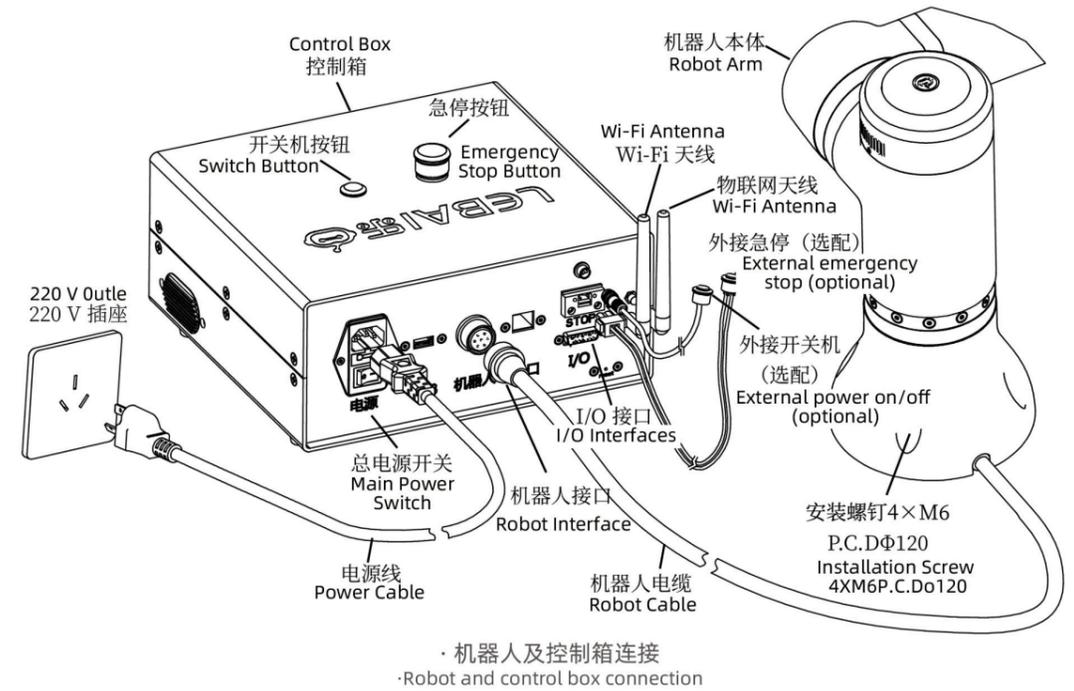


乐白协作机器人尺寸示意图

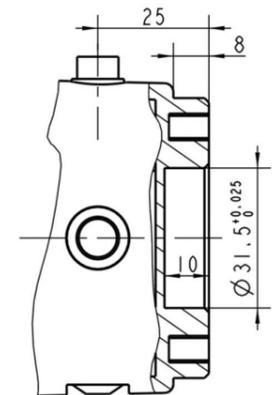
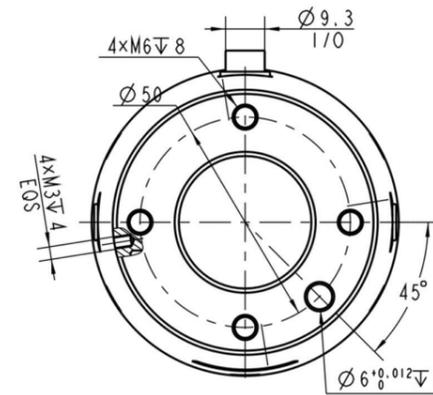
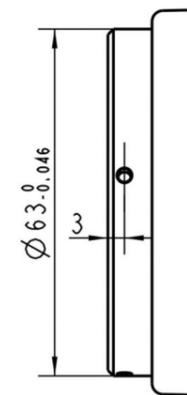
Dimensional diagram of LM3 collaborative robot



· 机器人底座视图
· View of robot base



· 机器人安装方式
· Installation Method



· 机器人末端法兰盘接口
· Robot end flange interface