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WIT SKILL

协作码垛工作站

Collaborative Palletizing Workstation

广州维希尔智能技术有限公司

Guangzhou WIT-SKILL Intelligent Technology Co., LTD

协作码垛工作站
Collaborative palletizing workstation

全球已进入工业4.0智能工厂时代，我国作为全球最大的工业机器人应用市场，其中码垛机器人产业高速发展。机器人、人、作业环境三者之间的有效结合与互动已经是未来趋势，将成为推动我国制造业发展的一大助力。

The world has entered the era of industrial 4.0 intelligent factory. As the largest industrial robot application market in the world, the palletizing robot industry develops rapidly. Effective combination and interaction among robots, human beings and working environment has become a trend in the future, and will be a great boost to the development of manufacturing industry in China.

协作码垛重新定义了易用性:
Collaborative palletization redefines the concept of "ease of use":

- 2小时可完成安装调试。
  Installation and re-adjustment can be completed within 2 hours.
- 5分钟内可设置新的路径。
  New path set-up within 5 minutes.
- 每分钟可堆垛8-12个箱子。
  8-12 boxes can be stacked per minute.
- 最多可设置800个码垛路径。
  Up to 800 stacking paths can be set.
- 托盘尺寸最大能支持1500mmx1500mm。
  Maximum tray size 1500mm x 1500mm
- 可同时堆垛2种产品。
  Two products can be stacked simultaneously.
- 带有标签方向功能。
  With label orientation function.

Collaborative Robot
协作机器人
国际一流的大负载协作机器人，安全、高效、高性价比。
International first-class heavy-load cooperative robot, safe, efficient and cost-effective.

Frame Assembly
机架组件
便携移动式底座，应用更方便;
第七轴升降柱。
Portable mobile base for more convenient application;
7th axle lifting column.

End effector
末端执行器
轻便简约型设计，
大吸力防掉落，专利产品。
Lightweight and simple design,
large suction and anti-dropping, patented products.

Card Positioning System
卡板定位系统
机械式卡板定位系统，简便实用。
Mechanical card positioning system is simple and practical.

Operating system
操作系统
15寸高灵敏电容式触摸屏
协作码垛机器人系统V1.0
15 inch high sensitive capacitive touch screen
OK collaborative palletizing robot system V1.0

Electric box control cabinet
电箱控制柜
自主研发，低能耗、高配置,集成电控柜。
Independent research and development in the company, low energy consumption, high configuration, integrated electric control cabinet.

协作码垛优势分析

Advantages of Collaborative Palletizer

简易编程
Simple programming

图形化编程、简单高效，无需精通编程语言即可轻松使用机器人。

半小时可掌握编程方式，1小时可完成简易编程。

Visual programming is simple and efficient, and ordinary employees can easily manipulate robots without having to master the programming language.
The programming mode can be learned in half an hour and simple programming can be completed in 1 hour.

安全稳定
Safety and stability

工业级力控传感器，具有高度的可靠性和安全性；

支持10级碰撞检测和传感器安全检测；

发生单一故障时不会丧失安全功能；

Industrial grade force-sensor with high reliability and safety;
Support 10-level collision detection and sensor safety detection;
without loss of safety function in case of single fault;

部署灵活
Flexible deployment

集成设计，轻便灵活，占地面积小；

工作站部署新任务设置简单快捷，效率高；

Integrated design, light and flexible, small footprint area;
Workstation deployment of new task setting is simple, quick and efficient;

应用广泛
Wide applications

广泛应用于食品、医药、3C、日化、印刷等行业领域；

Widely used in food, pharmaceutics, 3C, daily chemistry, e-commerce and other industries;

柔性生产
Flexible Production

多种功能场景快速切换，可以采用人机协作，双机协作、多机协作等实现柔性化生产。

With fast switching of various functional scenarios, flexible production can be realized by human-machine cooperation, dual-computer cooperation and multi-computer cooperation.

经济实用
Economic and practical

平均6-12个月收回投资成本。

Average recovery of investment within 6-12 months;

Max 系列

操作简单 Easy to operate

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灵活部署 Flexible deployment

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应用广泛 Wide Applications

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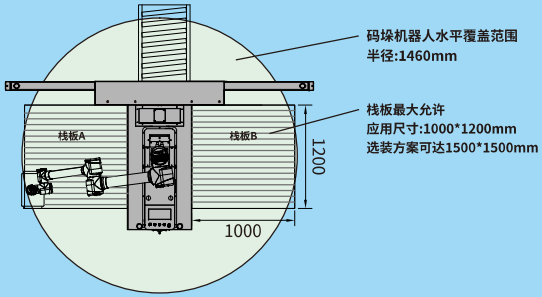
Widely used in food, pharmaceutics, 3C, daily chemistry, e-commerce and other industries;

产品参数 Product Parameters

型号 Model	OK-GD30 Max
机器人负载 Robot load	30kg
工作半径 Working radius	1460mm
水平距离（卡板规格） Horizontal distance (Specification of cardboard)	
垂直距离 Vertical distance	升降式H2=2100mm
码垛速度 Stacking speed	＜9pcs/min
重复定位精度 Repeated positioning accuracy	±0.04mm
通讯方式 Communication mode	TCP/IP
IP等级 Level ip	Ip54
温度范围 Temperature Range	0-55°C
最大功耗 Maximum Power Dissipation	3.6kw
电箱供电 Power supply from electric box	单相220v / 50HZ
整机重量 Whole machine weight	=350kg
占地面积 Floor area	1505*1716mm
设备高度 Equipment height	3.2m

码垛工作站拓展配置方案

进一步保障码垛工作站的安全性。

Palletizing Workstation Expansion and Supporting Solutions
Further ensure the safety of the workstation.

激光雷达传感器 Lidar sensor

· 无接触、灵活设置检测距离
· 靠近黄色区域报警减速
· 进入红色区域立即停机

Non-contact, flexible setting of detection distance. Alarm and decelerate when approaching the yellow area. Immediately stop when entering the red area.

光栅传感器

· 性能稳定，抗干扰能力强
· 感应灵敏度高，快速反应
· 使用寿命长

Stable performance and strong anti-interference ability. High induction sensitivity and fast response. Long service life.

安全围栏

· 物理防护，安全可靠

Physical protection, safe and reliable.