

Collaborative palletizing workstation



灵活高效
Flexible and efficient



应用广泛
Wide applications



经济实用
Economic and practical

Idea Automation Co.,Ltd

CONTACT US

Idea Automation Co.,Ltd.

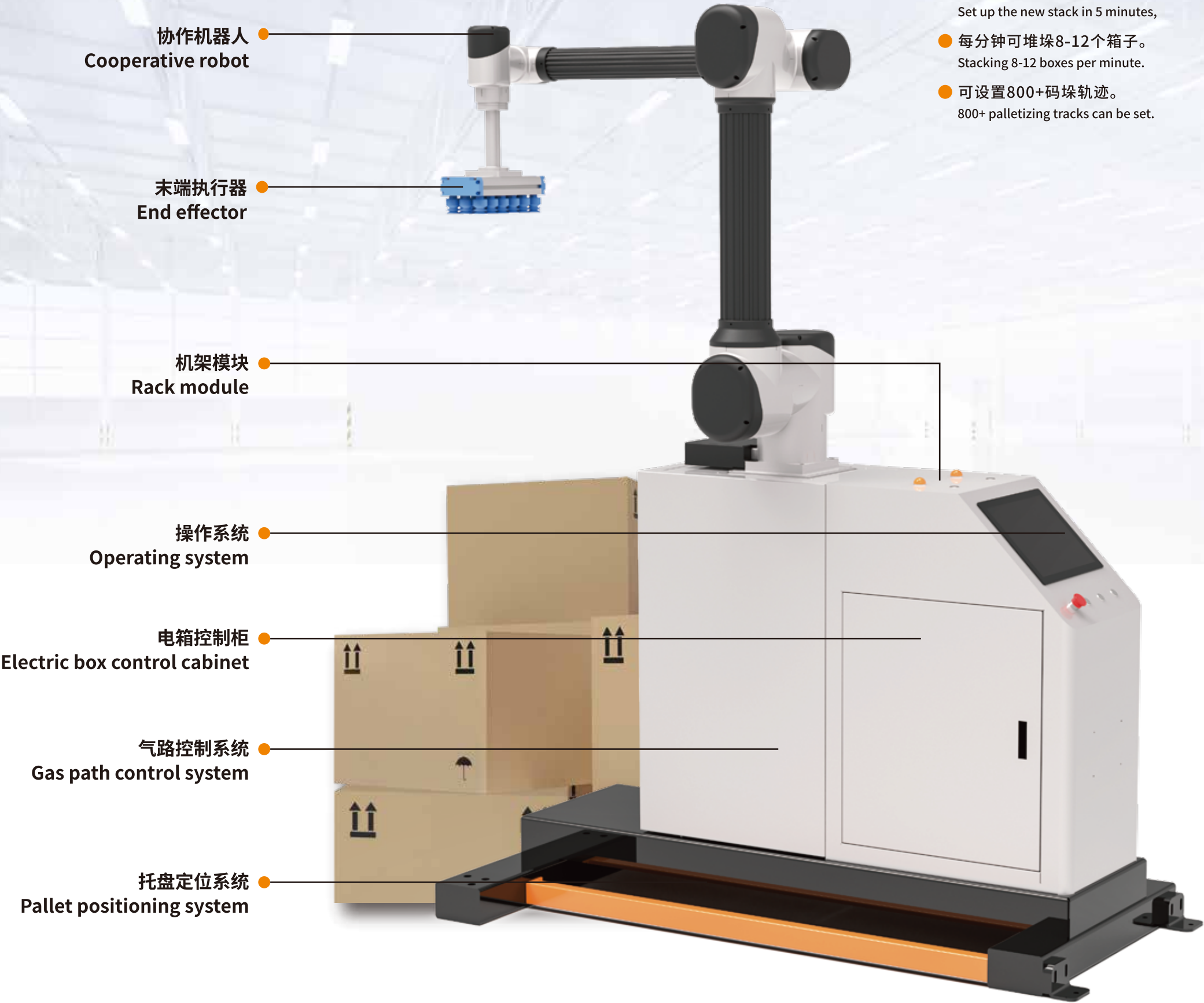
บริษัท ไอเดีย ออโตเมชัน จำกัด (สำนักงานใหญ่)

122/25 ม.6 ต.พื้งท้ายนรสิงห์ อ.เมืองสมุทรสาคร จ.สมุทรสาคร 74000

☎ 034-130-386 ☎ 083-2841047 ☎ 061-3857819 ✉ Ideaauto1@gmail.com



结构总览 Structure overview



- 1小时可完成安装调试。
1 hour to complete the installation and commissioning.
- 5分钟内设置新垛型，
Set up the new stack in 5 minutes,
- 每分钟可堆垛8-12个箱子。
Stacking 8-12 boxes per minute.
- 可设置800+码垛轨迹。
800+ palletizing tracks can be set.
- 机器人最大负载50KG
The maximum load of the robot is 50 kg
- 可同时堆垛两种产品。
Can stack two kinds of products at the same time.
- 具备识别标签方向功能。
It has the function of identifying label direction.
- 可实现单双抓自由切换功能。
Can achieve single and double grasp free switching function.

主要元器件配置清单

Configuration list of major components		
名称 name	规格 specification	备注 Reserve note
机器人控制器 Robot controller	奥地利 KEBA KEBA Austria	
伺服电机 Servo motor	中国 汇川 Huichuan, China	
光电检测开关 Photoelectric detection switch	德国 西克 Germany Thicke	
转换开关 Transfer switch	中国 长信 Changxin of China	
断路器 Circuit breaker	中国 正泰 Chint	
固态继电器 Solid-state relay	中国 魏德 China Weide	
真空吸盘 Vacuum sucker	中国 松川 Matsukawa	
触摸屏 Touch screen	研盟 Yan Meng	15寸 Fifteen inches
开关电源 Switching power supply	台湾 明纬 Taiwan Mingwei	
导轨 rail	人本 Ren ben	
电磁阀 Solenoid valve	台湾 亚德客 Artak Taiwan	
升降电缸 Elevating cylinder	中国 松川 Matsukawa	600mm行程 600mm stroke

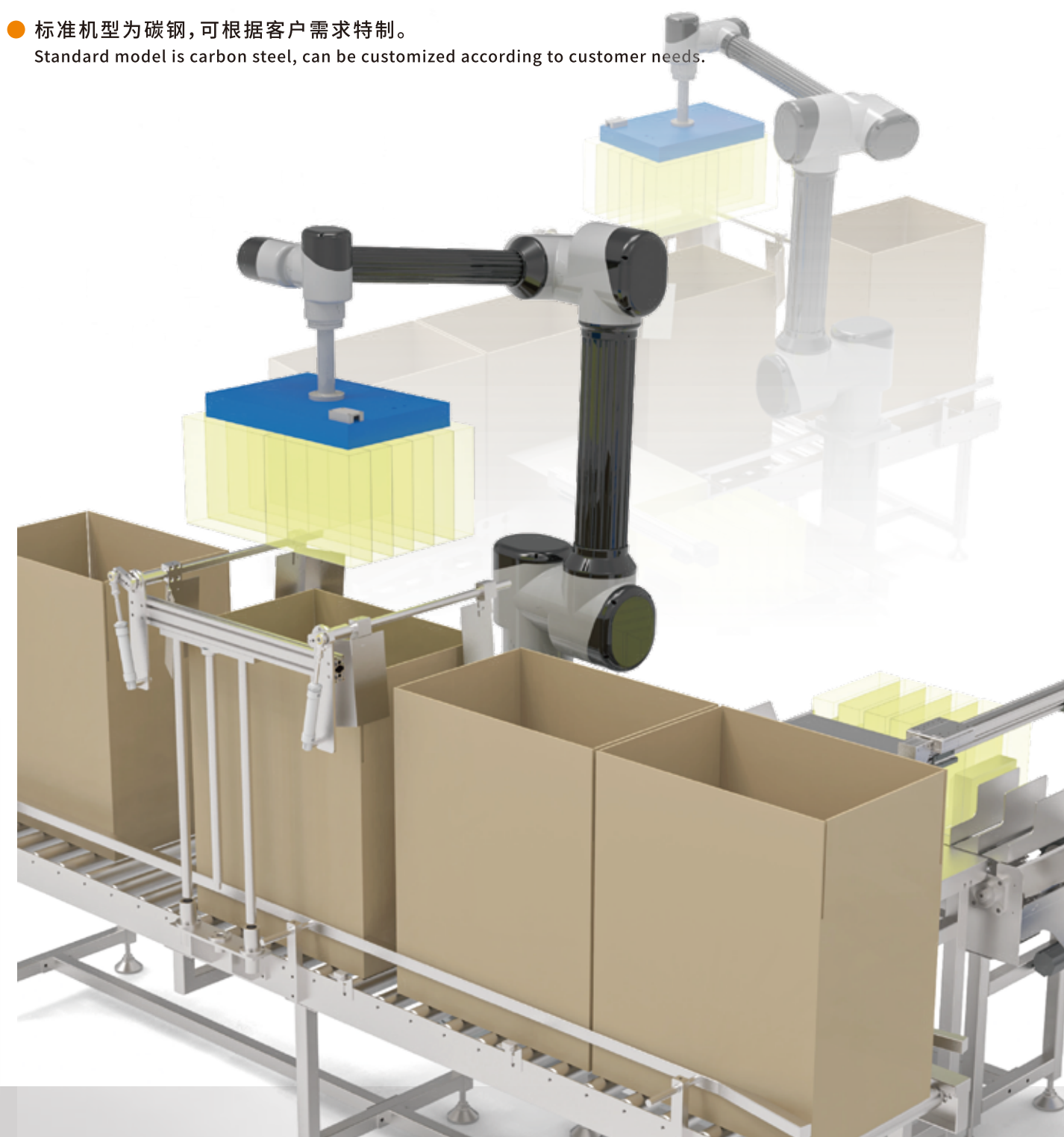
性能优点 Performance advantage

- 0基础易操作, 开机即用, 调试便捷;
0 The foundation is easy to operate, start and use, convenient debugging;
- 占地小, 灵活机动, 随意拖拽;
Small footprint, flexible, drag at will;
- 满足各类箱子及垛型;
Meet all kinds of boxes and stacks;
- 多种配方储存, 随意调用, 无需重复设置;
A variety of formula storage, call at will, no need to repeat Settings;
- 行业应用广泛, 如食品、生活用纸、酒水、医药、日化、电器电子等行业。
The industry is widely used, such as food, household paper, alcohol, medicine, daily chemical, electrical and electronic industries.
- 输入基础参数, 垛型随意选择, 可自动对齐, 无需人工过多设置;
Input basic parameters, the pile type can be selected at will, and can be automatically aligned without too much manual setting;
- 具备力学防碰撞, 安全性更高, 也可搭载护栏或光栅;
With mechanical collision prevention, higher safety, can also be equipped with guardrail or grating;
- 根据码垛高度自动升降, 最高可到2.5米;
Automatic lifting according to the height of the palletizing, up to 2.5 meters;
- 全天化作业, 省时省人省力;
All-day operation, save time, save people and labor;



性能优点 Performance advantage

- 结构精简, 维护便捷, 操作方便, 易维护, 适用于各种产品装箱;
Simple structure, convenient maintenance, easy operation, easy maintenance, suitable for all kinds of products packing;
- 协作机器人, 稳定高效、安全可靠、一键启动;
Cooperative robot, stable and efficient, safe and reliable, one-click start;
- 整机配合机械手自动化程度高, 减少人工;
The machine has a high degree of automation with the robot, reducing labor;
- 高端配置、亲民价格、一年回本、省心省力;
High-end configuration, friendly price, one year return, save worry and effort;
- 标准机型为碳钢, 可根据客户需求特制。
Standard model is carbon steel, can be customized according to customer needs.



WP-30S协作码垛机器人

WP-30S COLLABORATIVE PALLETIZING ROBOT

- 

灵活高效
Flexible and efficient
- 

应用广泛
Wide applications
- 

经济实用
Economic and practical



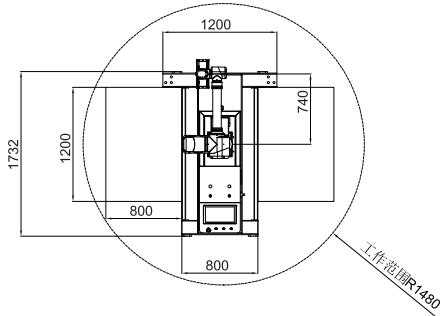
WP-30S协作码垛机器人

WP-30S COLLABORATIVE PALLETIZING ROBOT

技术参数 TECHNICAL PARAMETERS

型号	Model number	WP-30S
最大负载 (KG)	Maximum load (KG)	30KG
工作半径 (mm)	Working radius (mm)	1480mm
最大码垛节拍 (pcs)	Maximum palletizing time (pcs)	≤8PCS/min
最大码垛高度 (mm)	Maximum stacking height (mm)	≤2150mm

水平距离(卡板规格)
Horizontal distance
(Specification of cardboard)



重复定位精度 (mm)	Repeated positioning accuracy (mm)	±0.04mm
托盘放置形式	Pallet arrangement	手动, 一左一右
最大适配托盘 (mm)	Maximum fitting tray (mm)	1000mm*800mm
设备外观尺寸 (mm)	Equipment appearance size (mm)	L1732mm*W1200mm*H2390mm
物流木箱尺寸 (mm)	Size of wooden box (mm)	L2200mm*W1450mm*H1900mm
最大功率 (KW)	Maximum power (KW)	3.5KW
参考耗气量	Reference air consumption	240-460L/min
供电要求	Power supply requirement	220V±10%, 50Hz±5%,
供气要求	Gas supply requirement	0.5~0.7Mpa
通讯方式	Communication mode	EtherCAT接口、扩展IO
IP等级	IP level	IP54
温度范围	Temperature range	0-50°C
整机重量 (KG)	Machine weight (KG)	约600kg

WP-30协作码垛机器人

WP-30 COLLABORATIVE PALLETIZING ROBOT



灵活高效
Flexible and efficient



应用广泛
Wide applications



经济实用
Economic and practical



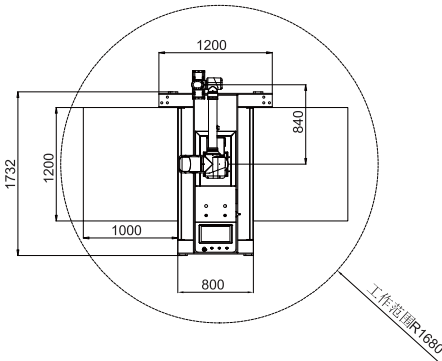
WP-30协作码垛机器人

WP-30 COLLABORATIVE PALLETIZING ROBOT

技术参数 TECHNICAL PARAMETERS

型号	Model number	WP-30
最大负载 (KG)	Maximum load (KG)	25KG
工作半径 (mm)	Working radius (mm)	1680mm
最大码垛节拍 (pcs)	Maximum palletizing time (pcs)	≤10PCS/min
最大码垛高度 (mm)	Maximum stacking height (mm)	≤2350mm

水平距离(卡板规格)
Horizontal distance
(Specification of cardboard)



重复定位精度 (mm)	Repeated positioning accuracy (mm)	±0.04mm
托盘放置形式	Pallet arrangement	手动, 一左一右
最大适配托盘 (mm)	Maximum fitting tray (mm)	1200mm*1000mm
设备外观尺寸 (mm)	Equipment appearance size (mm)	L1732mm*W1200mm*H2490mm
物流木箱尺寸 (mm)	Size of wooden box (mm)	L2200mm*W1450mm*H1900mm
最大功率 (KW)	Maximum power (KW)	3.5KW
参考耗气量	Reference air consumption	240-460L/min
供电要求	Power supply requirement	220V±10%, 50Hz±5%
供气要求	Gas supply requirement	0.5~0.7Mpa
通讯方式	Communication mode	EtherCAT接口、扩展IO
IP等级	IP level	IP54
温度范围	Temperature range	0-50°C
整机重量 (KG)	Machine weight (KG)	约600kg

WP-30L协作码垛机器人

WP-30L COLLABORATIVE PALLETIZING ROBOT

-  **灵活高效**
Flexible and efficient
-  **应用广泛**
Wide applications
-  **经济实用**
Economic and practical



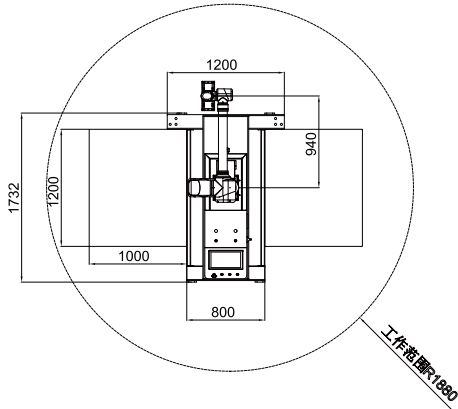
WP-30L协作码垛机器人

WP-30L COLLABORATIVE PALLETIZING ROBOT

技术参数 TECHNICAL PARAMETERS

型号	Model number	WP-30L
最大负载 (KG)	Maximum load (KG)	20KG
工作半径 (mm)	Working radius (mm)	1880mm
最大码垛节拍 (pcs)	Maximum palletizing time (pcs)	≤12PCS/min
最大码垛高度 (mm)	Maximum stacking height (mm)	≤2550mm

水平距离(卡板规格)
Horizontal distance
(Specification of cardboard)



重复定位精度 (mm)	Repeated positioning accuracy (mm)	±0.04 mm
托盘放置形式	Pallet arrangement	手动, 一左一右
最大适配托盘 (mm)	Maximum fitting tray (mm)	1300mm*1200mm
设备外观尺寸 (mm)	Equipment appearance size (mm)	L1732mm*W1200mm*H2590mm
物流木箱尺寸 (mm)	Size of wooden box (mm)	L2200mm*W1450mm*H2000mm
最大功率 (KW)	Maximum power (KW)	3.5KW
参考耗气量	Reference air consumption	240-460L/min
供电要求	Power supply requirement	220V±10%, 50Hz±5%,
供气要求	Gas supply requirement	0.5~0.7Mpa
通讯方式	Communication mode	EtherCAT接口、扩展IO
IP等级	IP level	IP54
温度范围	Temperature range	0-50°C
整机重量 (KG)	Machine weight (KG)	约600kg

WP-30XL协作码垛机器人

WP-30XL COLLABORATIVE PALLETIZING ROBOT

- 

灵活高效
Flexible and efficient
- 

应用广泛
Wide applications
- 

经济实用
Economic and practical



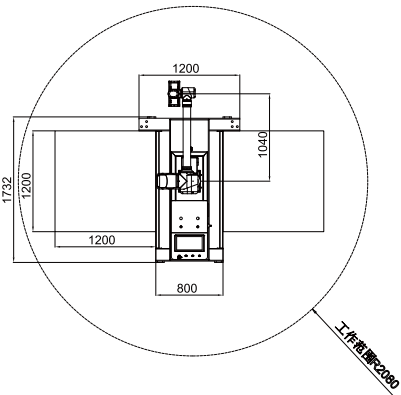
WP-30XL协作码垛机器人

WP-30XL COLLABORATIVE PALLETIZING ROBOT

技术参数 TECHNICAL PARAMETERS

型号	Model number	WP-30XL
最大负载 (KG)	Maximum load (KG)	15KG
工作半径 (mm)	Working radius (mm)	2080mm
最大码垛节拍 (pcs)	Maximum palletizing time (pcs)	≤12PCS/min
最大码垛高度 (mm)	Maximum stacking height (mm)	≤2750mm

水平距离(卡板规格)
Horizontal distance
(Specification of cardboard)



重复定位精度 (mm)	Repeated positioning accuracy (mm)	±0.04 mm
托盘放置形式	Pallet arrangement	手动, 一左一右
最大适配托盘 (mm)	Maximum fitting tray (mm)	1400mm*1200mm
设备外观尺寸 (mm)	Equipment appearance size (mm)	L1732mm*W1200mm*H2690mm
物流木箱尺寸 (mm)	Size of wooden box (mm)	L2200mm*W1450mm*H2000mm
最大功率 (KW)	Maximum power (KW)	3.5KW
参考耗气量	Reference air consumption	240-460L/min
供电要求	Power supply requirement	220V±10%, 50Hz±5%,
供气要求	Gas supply requirement	0.5~0.7Mpa
通讯方式	Communication mode	EtherCAT接口、扩展IO
IP等级	IP level	IP54
温度范围	Temperature range	0-50°C
整机重量 (KG)	Machine weight (KG)	约600kg

WP-50S协作码垛机器人

WP-50S COLLABORATIVE PALLETIZING ROBOT

- 

灵活高效
Flexible and efficient
- 

应用广泛
Wide applications
- 

经济实用
Economic and practical



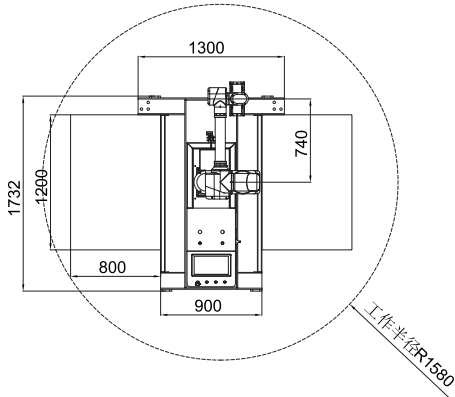
WP-50S协作码垛机器人

WP-50S COLLABORATIVE PALLETIZING ROBOT

技术参数 TECHNICAL PARAMETERS

型号	Model number	WP-50S
最大负载 (KG)	Maximum load (KG)	50KG
工作半径 (mm)	Working radius (mm)	1580mm
最大码垛节拍 (pcs)	Maximum palletizing time (pcs)	≤6PCS/min
最大码垛高度 (mm)	Maximum stacking height (mm)	≤2250mm

水平距离(卡板规格)
Horizontal distance
(Specification of cardboard)



重复定位精度 (mm)	Repeated positioning accuracy (mm)	±0.04mm
托盘放置形式	Pallet arrangement	手动, 一左一右
最大适配托盘 (mm)	Maximum fitting tray (mm)	1200mm*900mm
设备外观尺寸 (mm)	Equipment appearance size (mm)	L1732mm*W1300mm*H2525mm
物流木箱尺寸 (mm)	Size of wooden box (mm)	L2250mm*W1450mm*H1900mm
最大功率 (KW)	Maximum power (KW)	3.5KW
参考耗气量	Reference air consumption	240-460L/min
供电要求	Power supply requirement	220V±10%, 50Hz±5%,
供气要求	Gas supply requirement	0.5~0.7Mpa
通讯方式	Communication mode	EtherCAT接口、扩展IO
IP等级	IP level	IP54
温度范围	Temperature range	0-50°C
整机重量 (KG)	Machine weight (KG)	约650kg

WP-50协作码垛机器人

WP-50 COLLABORATIVE PALLETIZING ROBOT

- 

灵活高效
Flexible and efficient
- 

应用广泛
Wide applications
- 

经济实用
Economic and practical



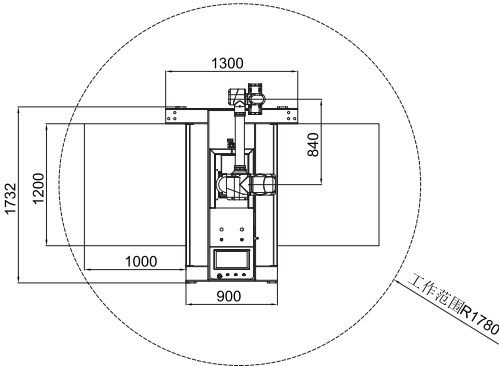
WP-50协作码垛机器人

WP-50 COLLABORATIVE PALLETIZING ROBOT

技术参数 TECHNICAL PARAMETERS

型号	Model number	WP-50
最大负载 (KG)	Maximum load (KG)	45KG
工作半径 (mm)	Working radius (mm)	1780mm
最大码垛节拍 (pcs)	Maximum palletizing time (pcs)	≤6PCS/min
最大码垛高度 (mm)	Maximum stacking height (mm)	≤2450mm

水平距离(卡板规格)
Horizontal distance
(Specification of cardboard)



重复定位精度 (mm)	Repeated positioning accuracy (mm)	±0.04mm
托盘放置形式	Pallet arrangement	手动, 一左一右
最大适配托盘 (mm)	Maximum fitting tray (mm)	1200mm*1100mm
设备外观尺寸 (mm)	Equipment appearance size (mm)	L1732mm*W1300mm*H2615mm
物流木箱尺寸 (mm)	Size of wooden box (mm)	L2250mm*W1450mm*H1900mm
最大功率 (KW)	Maximum power (KW)	3.5KW
参考耗气量	Reference air consumption	240-460L/min
供电要求	Power supply requirement	220V±10%, 50Hz±5%,
供气要求	Gas supply requirement	0.5~0.7Mpa
通讯方式	Communication mode	EtherCAT接口、扩展IO
IP等级	IP level	IP54
温度范围	Temperature range	0-50℃
整机重量 (KG)	Machine weight (KG)	约650kg

WP-50L协作码垛机器人

WP-50L COLLABORATIVE PALLETIZING ROBOT

- 

灵活高效
Flexible and efficient
- 

应用广泛
Wide applications
- 

经济实用
Economic and practical



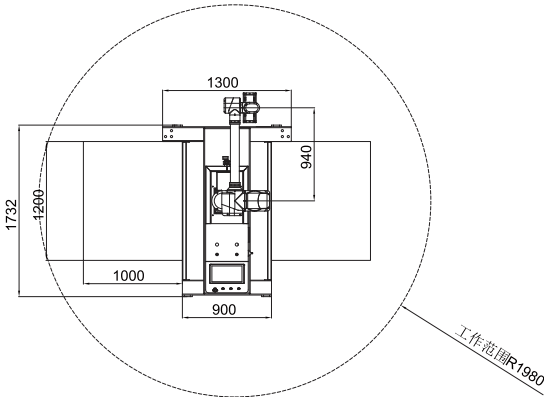
WP-50L协作码垛机器人

WP-50L COLLABORATIVE PALLETIZING ROBOT

技术参数 TECHNICAL PARAMETERS

型号	Model number	WP50L
最大负载 (KG)	Maximum load (KG)	40KG
工作半径 (mm)	Working radius (mm)	1980mm
最大码垛节拍 (pcs)	Maximum palletizing time (pcs)	≤6PCS/min
最大码垛高度 (mm)	Maximum stacking height (mm)	≤2650mm

水平距离(卡板规格)
Horizontal distance
(Specification of cardboard)



重复定位精度 (mm)	Repeated positioning accuracy (mm)	±0.04mm
托盘放置形式	Pallet arrangement	手动, 一左一右
最大适配托盘 (mm)	Maximum fitting tray (mm)	1300mm*1200mm
设备外观尺寸 (mm)	Equipment appearance size (mm)	L1732mm*W1300mm*H2715mm
物流木箱尺寸 (mm)	Size of wooden box (mm)	L2250mm*W1450mm*H2000mm
最大功率 (KW)	Maximum power (KW)	3.5KW
参考耗气量	Reference air consumption	240-460L/min
供电要求	Power supply requirement	220V±10%, 50Hz±5%,
供气要求	Gas supply requirement	0.5~0.7Mpa
通讯方式	Communication mode	EtherCAT接口、扩展IO
IP等级	IP level	IP54
温度范围	Temperature range	0-50°C
整机重量 (KG)	Machine weight (KG)	约650kg

WP-50XL协作码垛机器人

WP-50XL COLLABORATIVE PALLETIZING ROBOT

- 

灵活高效

Flexible and efficient
- 

应用广泛

Wide applications
- 

经济实用

Economic and practical



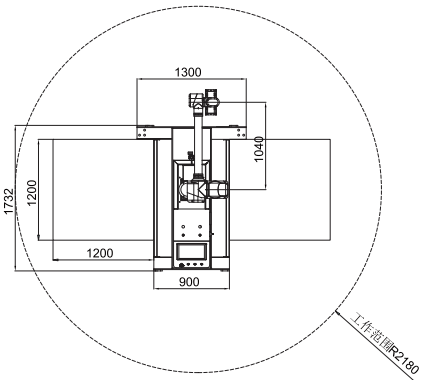
WP-50XL协作码垛机器人

WP-50XL COLLABORATIVE PALLETIZING ROBOT

技术参数 TECHNICAL PARAMETERS

型号	Model number	WP50XL
最大负载 (KG)	Maximum load (KG)	35KG
工作半径 (mm)	Working radius (mm)	2180mm
最大码垛节拍 (pcs)	Maximum palletizing time (pcs)	≤6PCS/min
最大码垛高度 (mm)	Maximum stacking height (mm)	≤2850mm

水平距离(卡板规格)
Horizontal distance
(Specification of cardboard)



重复定位精度 (mm)	Repeated positioning accuracy (mm)	±0.04mm
托盘放置形式	Pallet arrangement	手动, 一左一右
最大适配托盘 (mm)	Maximum fitting tray (mm)	1400mm*1200mm
设备外观尺寸 (mm)	Equipment appearance size (mm)	L1732mm*W1300mm*H2815mm
物流木箱尺寸 (mm)	Size of wooden box (mm)	L2250mm*W1450mm*H2000mm
最大功率 (KW)	Maximum power (KW)	3.5KW
参考耗气量	Reference air consumption	240-460L/min
供电要求	Power supply requirement	220V±10%, 50Hz±5%,
供气要求	Gas supply requirement	0.5~0.7Mpa
通讯方式	Communication mode	EtherCAT接口、扩展IO
IP等级	IP level	IP54
温度范围	Temperature range	0-50℃
整机重量 (KG)	Machine weight (KG)	约650kg

WP20E协作码垛机器人

WP-20E COLLABORATIVE PALLETIZING ROBOT

- 

灵活高效
Flexible and efficient
- 

应用广泛
Wide applications
- 

经济实用
Economic and practical



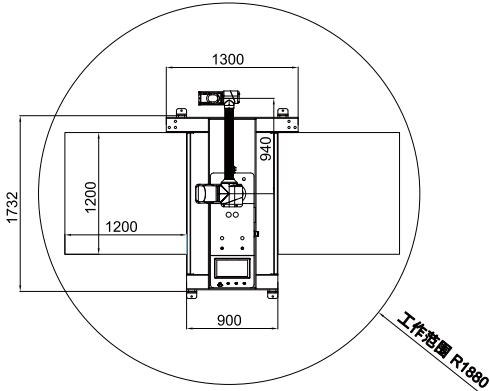
WP20E协作码垛机器人

WP-20E COLLABORATIVE PALLETIZING ROBOT

技术参数 TECHNICAL PARAMETERS

型号	Model number	WP20E
最大负载 (KG)	Maximum load (KG)	20KG
工作半径 (mm)	Working radius (mm)	1880mm
最大码垛节拍 (pcs)	Maximum palletizing time (pcs)	≤12PCS/min
最大码垛高度 (mm)	Maximum stacking height (mm)	≤2000mm

水平距离(卡板规格)
Horizontal distance
(Specification of cardboard)



重复定位精度 (mm)	Repeated positioning accuracy (mm)	±0.04mm
托盘放置形式	Pallet arrangement	手动, 一左一右
最大适配托盘 (mm)	Maximum fitting tray (mm)	1300mm*1200mm
设备外观尺寸 (mm)	Equipment appearance size (mm)	L1732mm*W1300mm*H2644mm
物流木箱尺寸 (mm)	Size of wooden box (mm)	L2200mm*W1450mm*H2000mm
最大功率 (KW)	Maximum power (KW)	3.0KW
参考耗气量	Reference air consumption	240-460L/min
供电要求	Power supply requirement	220V±10%, 50Hz±5%,
供气要求	Gas supply requirement	0.5~0.7Mpa
通讯方式	Communication mode	EtherCAT接口、扩展IO
IP等级	IP level	IP54
温度范围	Temperature range	0-50℃
整机重量 (KG)	Machine weight (KG)	约400kg

WB-20协作装箱机器人工作站

WB-20 COLLABORATIVE PACKING ROBOT WORKSTATION

- 灵活高效
Flexible and efficient
- 应用广泛
Wide applications
- 经济实用
Economic and practical



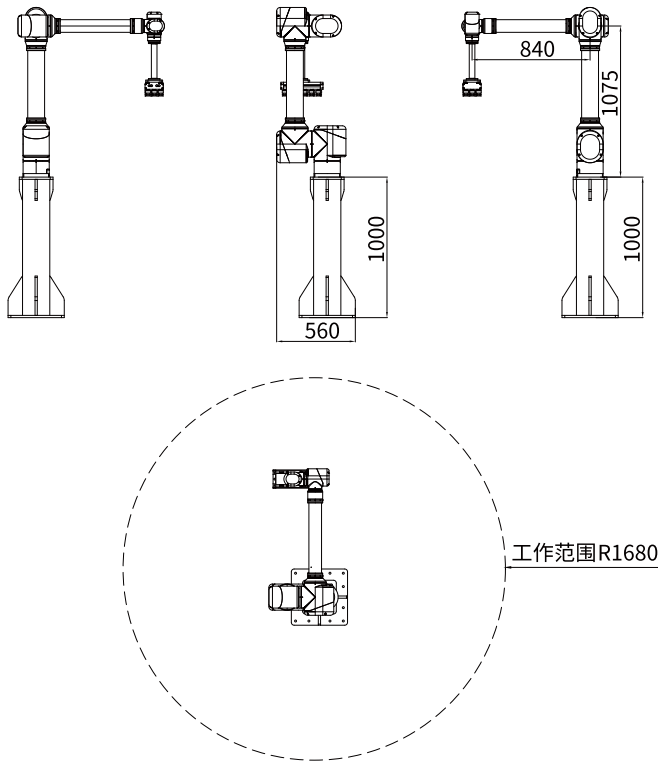
WB-20协作装箱机器人工作站

WB-20 COLLABORATIVE PACKING ROBOT WORKSTATION

技术参数 TECHNICAL PARAMETERS

机型	Machine type	WB-20
负载	load	25Kg
机器人最大行程	Robot maximum travel	1680mm
装箱节拍 (Pcs/min)	Packing time (Pcs/min)	10 PCS
纸箱尺寸长 (mm)	Carton size length (mm)	450
纸箱尺寸宽 (mm)	Carton width (mm)	300
纸箱尺寸高 (mm)	Carton size height (mm)	300

设备尺寸&工作范围
Quipment size
Operating range



总功率 (千瓦)	Total power (kW)	3Kw
气压源供应 (kgf/cm ²)	Air pressure supply (kgf/cm ²)	5kgf/cm ² ,0.6 Mpa
机器净重 (千克)	Net weight of machine (kg)	150Kg
机器外形尺寸 (mm) (长×宽×高)	Machine dimensions (mm) (L × W × H)	主机/Host machine:2000*1250*1300 电箱/Electric box:700*450*1400
电源类型	Power supply type	AC 220V 50Hz