



智能焊接解决方案  
INTELLIGENT WELDING SOLUTION

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科耐特机器人  
CONNECT ROBOTICS

# 科耐特智能机器人 CONNECT ROBOTICE

INTELLIGENT WELDING SOLUTION



江苏科耐特智能机器人有限公司  
JIANGSU CONNECT INTELLIGENT ROBOTICS CO., LTD.

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Innovation, Future, Intelligence, Exploration, and Development

CATALOGUE

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# COMPANY INTRODUCTION

## 公司介绍

江苏科耐特智能焊接机器人有限公司是全球最早从事免编程免示教焊接机器人的先驱者。2020年开发钢结构行业免示教免编程的焊接机器人整体解决方案,科耐特2021年开发并推出第一代免示教免编程的软件,并在2021年设计出第一代免示教免编程的成套设备,同一时期在宏宇重工(年生产能力达15万吨)生产基地投入使用,进行长时间大量验证。(我们的生产基地是柏楚新软件版本及工艺重要的验证基地)

Jiangsu Connect Intelligent Welding Robot Co., Ltd. is a pioneer in the world's first non programming and non teaching welding robots. In 2020, we developed a comprehensive solution for welding robots in the steel structure industry that does not require teaching or programming. In 2021, we developed and launched the first generation of software that does not require teaching or programming, and designed the first generation of complete equipment that does not require teaching or programming. During the same period, it was put into use at the production base of Hongyu Heavy Industry (with an annual production capacity of 150000 tons) for long-term large-scale verification. Our production base is an important validation base for the software version and process of Baichuxin





# COMPANY HISTORY

## 公司历程



# APPLICATION AREA

## 应用领域

**1 钢结构 Construction**

钢结构制造中起到了关键的作用。在传统的钢结构制造中,焊接是一个重要的工艺环节。焊接机器人起到缩短工期和降低成本。

**2 电力铁塔 Power tower**

助力电力铁塔等电力设备制造业可明显提高制造效率,降低生产成本。

**3 船舶海工 Construction**

焊接机器人是解决船舶制造最重要的环节,人工焊接质量不稳定、效率低,使用机器人可提升30%效率,降低20%成本,且确保焊接质量。

**4 轨道交通 Rail transit**

轨道交通智能焊接装备,实现高强精准焊接,质量稳定高效,降本增效,满足高铁地铁严苛需求,推动产业升级。

**5 特种车辆 Special vehicles**

焊接机器人在特种车辆行业中,为了更好的保障高强结构精准焊接,提升特种车辆安全耐久性与自动化生产水平。

**6 工程机械 Construction Machinery**

保障高载荷结构焊接质量,适应恶劣工况,提升制造效率与产品可靠性。

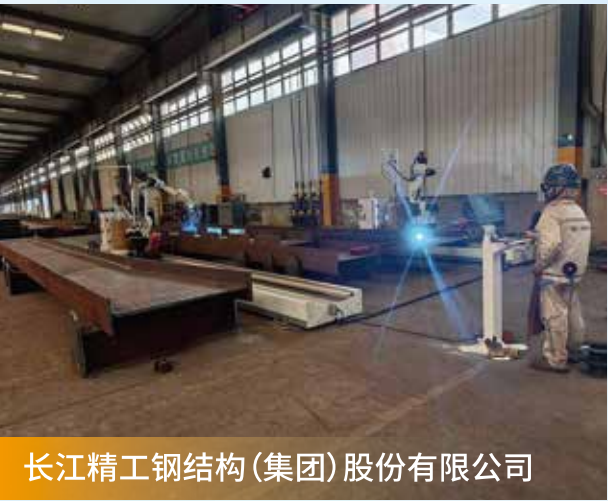
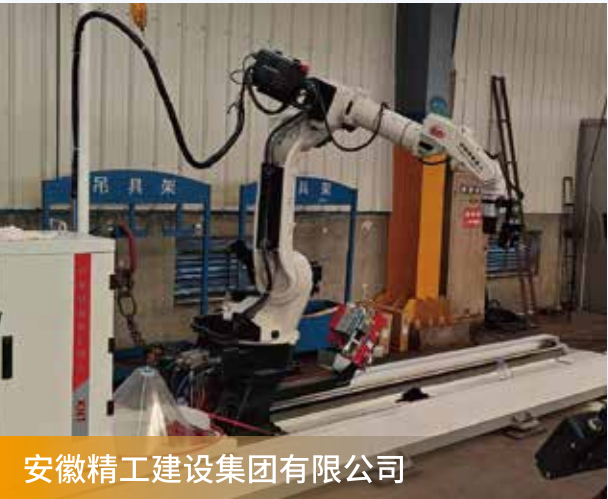




**OVER A HUNDRED SETS OF LARGE ORDERS**  
**超百台套大额订单**

我们坚持合作共赢，与**精工钢构、宏宇重工**等企业建立深厚合作关系，经过自身努力和参与联合研发适合客户的焊接工艺，2024年我们中标全国唯一两家**100台套超大订单**。最新的大线扫也受到多家客户的一致好评反馈，并且第一时间下达订单。

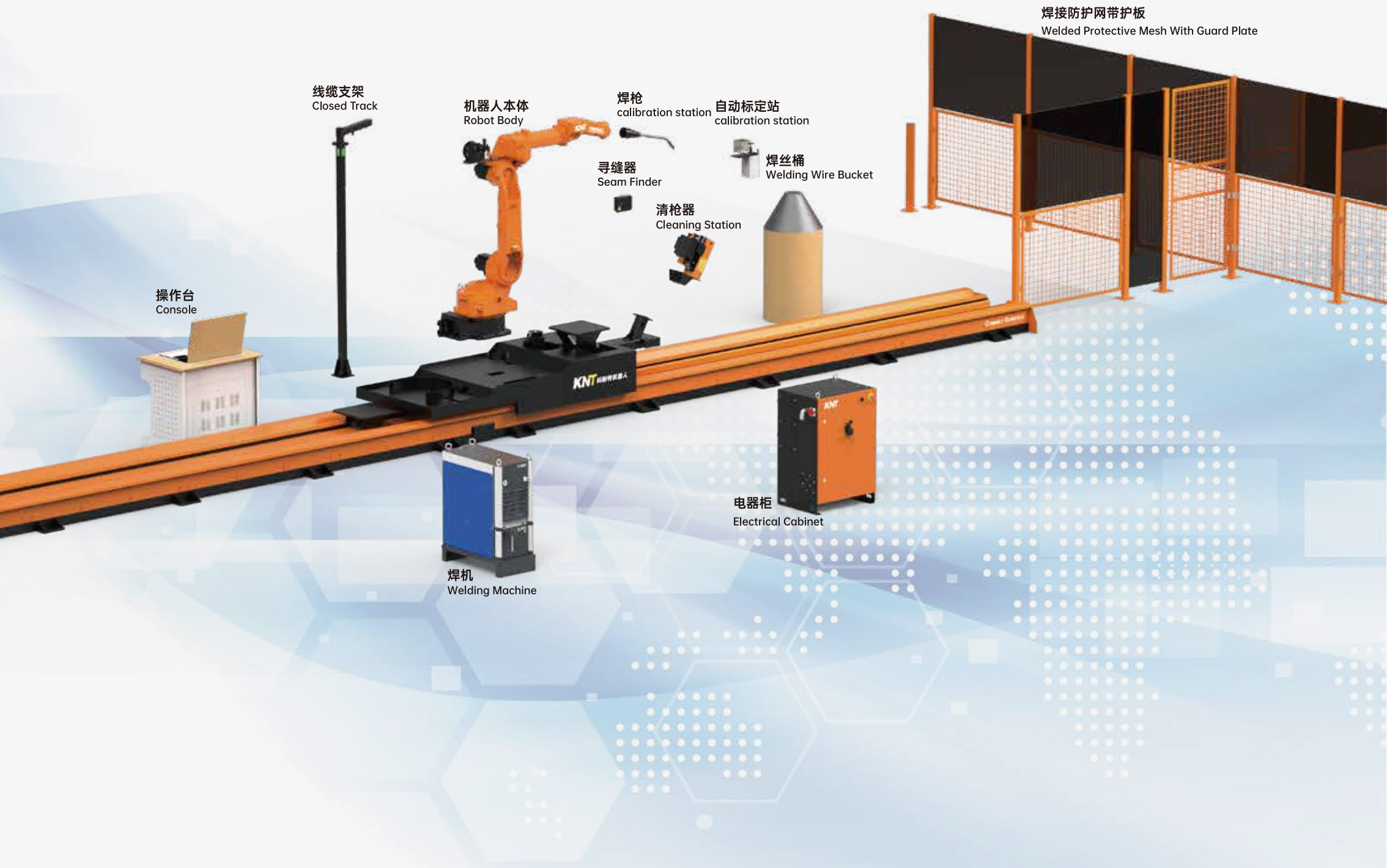
We adhere to win-win cooperation, and establish deep cooperative relations with Jingong Steel Structure, Pavester, And other enterprises. Through our own efforts and participation in the joint research and development of welding technology suitable for customers, in 2024, only us won the bid of two 100 sets in China. The latest camera vision scanning has also received a consistent and good feedback from many customers, and the first time to place orders.





# STANDARD WELDING WORKSTATION

## 标准焊接工作站配置



# WORKSTATION SELECTION PLAN

## 机器人品牌与焊接工作站选配方案

机器人本体					Robot body				
									
焊机					welding machine				
									
焊枪					welding torch				
									
清枪站					Cleaning Station				
									
操作系统					operating system				
2800		3800		3800E					
辅助&功能					Accessibility & Features				

变位机 positioner	可视化手持盒 Visual handheld box	自动标定站 Automatic calibration station
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# KSXB0013-01

## XB系列轨道式9轴悬臂焊接工作站 XB SERIES TRACK-TYPE 9-AXIS CANTILEVER WELDING WORKSTATION

### 产品优势

Product Advantages

九轴智能焊接机器人具有超大臂展,能够实现多自由精准控制实现平焊、立焊、多层多道等全位置焊接。  
轨道工作区域可选配焊接辅助设备,进行大型工件焊接,有效的提高工作效率。

The nine axis intelligent welding robot has a large arm span and can achieve precise control of multiple freedoms to achieve full position welding such as flat welding, vertical welding, multi-layer and multi pass welding.  
The track work area can be equipped with welding auxiliary equipment for welding large workpieces, effectively improving work efficiency. Welding and handling work can be carried out simultaneously, effectively improving work efficiency.

### 适用工件

Applicable Workpieces

该设备适用于水平板与竖直板拼接的工件,可提升H型钢、板单元、T型梁、U型肋、管形件及隔板等工件的加工效率。  
This equipment is suitable for workpieces that are spliced with horizontal and vertical plates, and can improve the processing efficiency of workpieces such as H-beams, plate units, T-beams, U-shaped ribs, tubular parts, and partitions.

### 机器人本体颜色定制

Customization of Robot Body Color



信号白  
RAL9003



交通红  
RAL3020



橙色  
RAL2009



锌黄色  
RAL1018



扫描观看展示效果





# KSXB0013-02

## XB系列轨道式8轴悬臂焊接工作站 XB SERIES TRACK-TYPE 8-AXIS CANTILEVER WELDING WORKSTATION

### 产品优势

Product Advantages

八轴智能焊接机器人具有大臂展,能够实现多轴自由精准控制实现平焊、立焊等全位置焊接  
可分段布置工作区域进行大型工件焊接

The eight axis all position intelligent welding robot has a large arm span and can achieve multi axis free and precise control to achieve all position welding such as flat welding and vertical welding  
Segmentable arrangement of work areas for welding large workpieces

### 适用工件

Applicable Workpieces

该设备适用于水平板与竖直板拼接的工件,可提升H型钢、板单元、T型台、U型肋等复杂工件的加工效率。

The equipment is suitable for workpieces with horizontal and vertical plate splicing, and can improve the processing efficiency of H-beams, plate units, T-beams, U-ribs, tubular components, and bulkheads.

### 机器人本体颜色定制

Customization of Robot Body Color



信号白  
RAL9003



交通红  
RAL3020



橙色  
RAL2009



锌黄色  
RAL1018





# KSXB0012-01

## XB系列轨道式7轴悬臂焊接工作站 XB SERIES TRACK-TYPE 7-AXIS CANTILEVER WELDING WORKSTATION

### 产品优势

Product Advantages

七轴悬臂智能焊接机器人与轨道随动控制,具有更大的工作区域  
可在轨道两侧设置工作区域,可分段布置工作区域进行小件焊接  
焊接和搬运工作可同时进行,有效的提高工作效率

Seven axis cantilever intelligent welding robot and track following control, with a larger working area  
Work areas can be set up on both sides of the track, and the work areas can be arranged in sections for small piece welding  
Welding and handling work can be carried out simultaneously, effectively improving work efficiency

### 适用工件

Applicable Workpieces

该设备适用于水平板与竖直板拼接的工件,可提升H型钢、板单元、T型梁、U型肋、管形件及隔板等工件的加工效率。  
The equipment is suitable for workpieces with horizontal and vertical plate splicing, and can improve the processing efficiency of H-beams, plate units, T-beams, U-ribs, tubular components, and bulkheads.

### 机器人本体颜色定制

Customization of Robot Body Color



信号白  
RAL9003



交通红  
RAL3020



橙色  
RAL2009



锌黄色  
RAL1018



扫描观看展示效果





# KSDG0012-01

## DG系列轨道式焊接工作站

DG SERIES RAIL TYPE WELDING WORKSTATION

### 产品优势

Product Advantages

轨道式焊接工作站增加工件长度, 机器人可于轨道进行联动, 焊接较长焊缝, 工作站实现左右两侧工位, 提升工作效率。

The track type welding workstation increases the length of the workpiece, and the robot can be linked to the track to weld longer welds. The workstation realizes left and right workstations to improve work efficiency.

### 适用工件

Applicable Workpieces

主要用于H型钢普通筋板、横竖筋板、柱底板、檩托板、牛腿等结构工件...

Mainly used for H-shaped steel ordinary reinforcement plates, horizontal and vertical reinforcement plates, column bottom plates, purlin support plates, cow legs and other structural workpieces ..

### 机器人本体颜色定制

Customization of Robot Body Color



信号白  
RAL9003



交通红  
RAL3020



橙色  
RAL2009



锌黄色  
RAL1018



扫描观看展示效果





# KDLM8020-01

## LM系列龙门焊接工作站

LM SERIES GANTRY WELDING WORKSTATION

### 产品优势

Product Advantages

工作区域广，能够焊接直焊、圆弧、曲线、平焊、立焊等，  
双机器人协同作业，8米的大跨距龙门式结构，更适用于钢构、桥梁、造船等行业。提升焊接效率，保证焊接  
Wide working area, capable of welding straight, circular, curved, flat, vertical, etc,  
Dual robot collaborative operation, 7-meter large-span gantry structure, more suitable for industries such as steel structure, bridges,  
shipbuilding, etc. Improve welding efficiency and ensure welding quality.

### 适用工件

Applicable Workpieces

该设备适用于水平板与竖直板拼接的工件，可提升H型钢、板单元、T型梁、U型肋、管形件及隔板等工件的加工效率。  
The equipment is suitable for workpieces with horizontal and vertical plate splicing, and can improve the processing efficiency of H-beams, plate units, T-beams, U-ribs, tubular  
components, and bulkheads.

### 机器人本体颜色定制

Customization of Robot Body Color



信号白  
RAL9003



交通红  
RAL3020



橙色  
RAL2009



锌黄色  
RAL1018





# KSBW0210-01

## BW系列机器人焊接工作站

THE BW SERIES ROBOTIC WELDING WORKSTATION

### 产品优势

Product Advantages

双工位布局, A、B工位可不间断焊接, 以旋转角度, 最大程度的提升焊接效率  
可根据工件类型和焊接需要订制工作台或单/双轴变位机, 满足各种焊接  
Dual station layout, A and B stations can perform uninterrupted welding, with rotation angles to maximize welding efficiency  
Customized workbenches or single/double axis positioners can be made according to the type of workpiece and welding requirements to meet various welding needs





### 适用工件

Applicable Workpieces

适用各种小型构件, 如牛腿, 檩托板等...  
Suitable for various small components such as cow legs, purlin pallets, etc..

### 机器人本体颜色定制

Customization of Robot Body Color

			
信号白 RAL9003	交通红 RAL3020	橙色 RAL2009	锌黄色 RAL1018





# KSBW0210-02

## BW系列L型变位机焊接工作站 BW SERIES L-SHAPE POSITIONER WELDING WORKSTATION

### 产品优势

Product Advantages

L型变位机焊接工作站的运动(翻转+回转)可以使工件上的焊缝调整到最理想的平焊位置。大大扩展了机器人的焊接可达范围,机器人无需频繁改变奇异姿态,就能以最佳角度接近焊缝。

The movement (flipping+rotating) of the L-shaped positioner welding workstation can adjust the weld seam on the workpiece to the most ideal flat welding position. Greatly expanding the welding reach of the robot, the robot can approach the weld seam at the optimal angle without frequently changing its singular posture.

### 适用工件

Applicable Workpieces

L型变位机非常适合焊接中等尺寸、具有多方向焊缝、需要批量生产的工件。

筋板、端盖、牛腿、管道法兰等

The L-shaped positioner is very suitable for welding medium-sized workpieces with multi-directional welds that require mass production.  
Reinforcing plates, end caps, cow legs, pipe flanges, etc

### 机器人本体颜色定制

Customization of Robot Body Color



信号白  
RAL9003



交通红  
RAL3020



橙色  
RAL2009



锌黄色  
RAL1018



扫描观看展示效果





# KSBW0210-03

## BW系列H型变位机焊接工作站 BW SERIES H-SHAPE POSITIONER WELDING WORKSTATION

### 产品优势

Product Advantages

专为塔脚设计研发的H型变位机焊接工作站。保证塔脚的每个角度的焊接。提高焊接效率和

A welding workstation designed and developed specifically for tower feet using H-type positioners. Ensure welding at every angle of the tower foot. Improve welding efficiency and welding quality.

### 适用工件

Applicable Workpieces

焊接电力铁塔塔脚工件

Welding power tower foot workpieces

### 机器人本体颜色定制

Customization of Robot Body Color



信号白  
RAL9003



交通红  
RAL3020



橙色  
RAL2009



锌黄色  
RAL1018



扫描观看展示效果





# KDBW0225

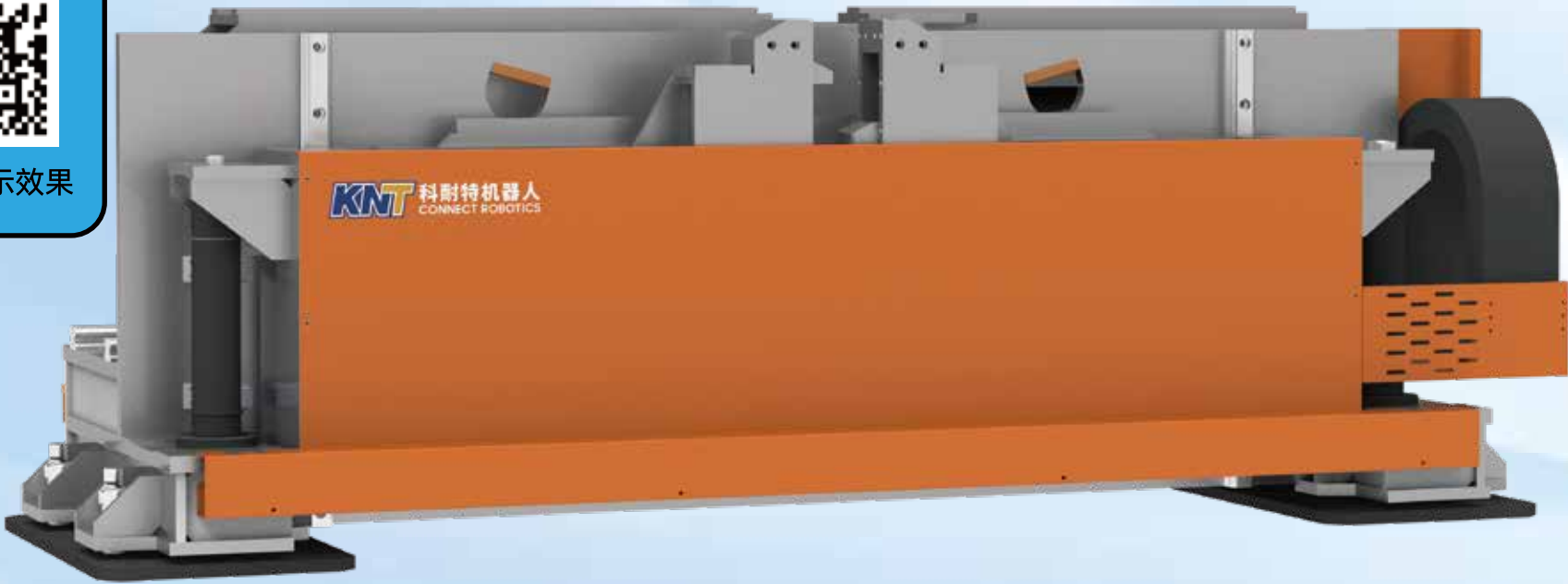
## 辅助设备-折臂翻转机 AUXILIARY EQUIPMENT - FOLDING ARM FLIPPING MACHINE

### ▶ 产品优势

折臂翻转机为定制款选配辅助设备,应用于钢构行业生产中,设备具有显著的优势,每次翻转90°可以连续翻转到指定表面,最大程度的提升焊接效率。  
The folding arm flipping machine is a customized optional auxiliary equipment used in the steel structure industry production. The equipment has significant advantages, and can continuously flip to the specified surface by 90 ° each time, maximizing welding efficiency.



扫描观看展示效果



### ▶ 适用工件

该设备适用箱型柱、H型钢、行车梁等工件。  
This equipment is suitable for workpieces such as box columns, H-beams, and crane beams.

# KSFZO101

## 辅助设备-焊烟除尘器 AUXILIARY EQUIPMENT - DUST-REMOVING EQUIPMENT

### ▶ 环境及优势

高真空除尘环保设备是一种高效除尘系统,适用于对清洁度要求高、粉尘浓度小或颗粒细小的工业环境。其核心是通过高真空抽吸力快速捕获粉尘,结合多级过滤(如HEPA、布袋、旋风分离等)确保排放达标。  
High vacuum dust removal and environmental protection equipment is an efficient dust removal system suitable for industrial environments with high cleanliness requirements, high dust concentration, or fine particles. Its core is to quickly capture dust through high vacuum suction, combined with multi-stage filtration (such as HEPA, bag, cyclone separation, etc.) to ensure emissions meet standards.

### ▶ 产品优势

高真空除尘环保设备,外观简约大方、安全、操作简单、静音,我们的除尘设备安装在焊接机器人滑台板,省去人工拖拽传统方式。  
High vacuum dust removal and environmental protection equipment, with a simple and elegant appearance, safety, and quietness. Our dust removal equipment is installed on the robot slide board, eliminating the traditional method of manual dragging.



一体式防撞除尘嘴



防尘效果95%



扫描观看展示效果



# KSFZO102

## 辅助设备-熔池监控 AUXILIARY EQUIPMENT - MOLTEN POOL MONITORING



### 产品介绍

本产品将视觉和熔池相机合二为一，将同时兼容两种相机的特点，既可以查看熔池状态，也可以进行焊缝跟踪，下面分为两个部分详细介绍本产品的两个功能特点。

This product combines visual and melt pool cameras into one, and is compatible with both cameras. It can not only view the status of the melt pool, but also track the weld seam. The following is a detailed introduction to the two functional features of this product in two parts.

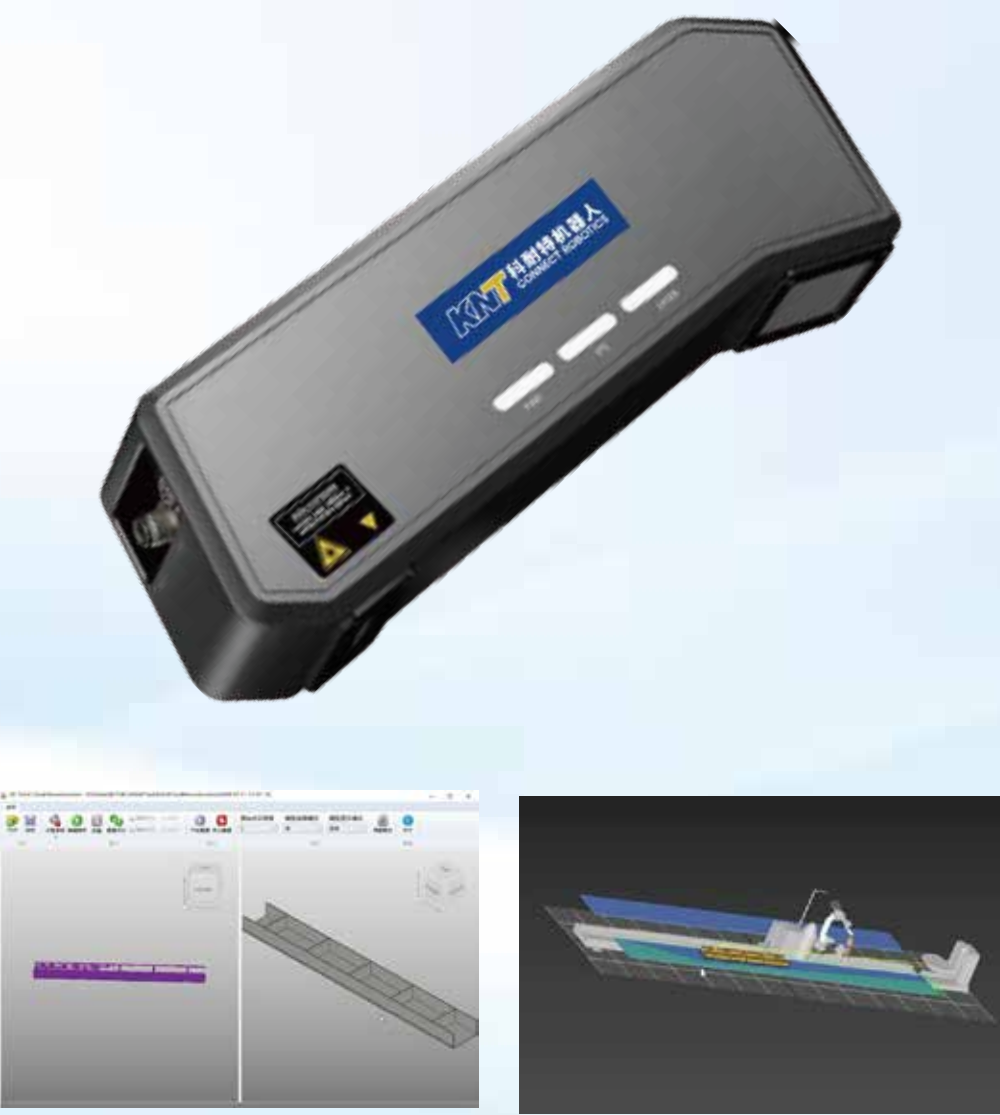
### 结构原理

视觉熔池检测相机由高分辨率传感器、高性能处理芯片、高清镜头、红外光源组成，是一款通过复杂的计算达到高动态工业视觉熔池传感器，可远程高清捕捉焊接过程，产品整体外壳采用铝合金加工而成，具有重量轻、散热快、坚固耐用、尺寸小等优点。

The visual melt pool detection camera consists of a high-resolution sensor, a high-performance processing chip, a high-definition lens, and an infrared light source. It is an industrial visual melt pool sensor that achieves high dynamic performance through complex calculations. It can remotely capture the welding process in high definition. The overall shell of the product is made of aluminum alloy, which has the advantages of light weight, fast heat dissipation, durability, and small size.

# KSFZ3800

## 辅助设备-大线扫 AUXILIARY EQUIPMENT - LARGE LINE SCANNING



### 产品介绍

线激光立体相机，是一款应用于焊接系统的大线扫相机，通过内置线激光扫描 进行初定位点云成像，得到焊接件的轮廓信息，以此指导后续的焊接操作。

High vacuum dust removal and environmental protection equipment, with a simple and elegant appearance, safety, and quietness. Our dust removal equipment is installed on the robot slide board, eliminating the traditional method of manual dragging.

### 产品优势


大线扫相机具有工件初定位和点云重建等功能，适用工件H型钢为主，测量精度±5mm

The line scanning camera has functions such as initial positioning of workpieces and point cloud reconstruction, and is mainly suitable for H-shaped steel workpieces with a measurement accuracy of ± 5mm.



# EXCLUSIVE SERVICE

专属服务




CUSTOMIZE

个性定制方案  
Customized Service



TECHNOLOGY

24小时技术支持  
Technical Support



WORKMANSHIP

匹配焊接工艺库  
Match welding process library



TRAINING

阶段式培训  
Stage based training

您身边的专属焊接顾问,提供个性定制方案。依托强大的专属焊接工艺库,为您精准推荐参数。  
享受 24小时技术支持即时响应,阶段式培训,助您与团队持续成长。



# AFTER-SALE SERVICE

售后服务



第一阶段(交付)  
Delivery of Phase 1 in 0 days



第二阶段  
Secondary training for 15 days



第三阶段  
Secondary training for 45 days



第四阶段  
Secondary training for 135 days

1 设备安装两天  
Equipment installation takes 2 days

2 电器安装三天  
Electrical installation takes 3 days

3 人员培训五天  
Personnel training for 5 days

安全保养操作规程  
Safety Maintenance Operating Procedures

设备操作与维护  
Equipment operation and maintenance

软件应用  
Software application

4 陪产五天  
Accompanying childbirth for 5 days

5 双方签收验收单  
Both parties sign and accept the acceptance form

6 创建售后微信群  
Create an after-sales WeChat group

1 解答前15天归纳的售后问题  
Answer the after-sales questions from the first 15 days

2 操作工操作软件的调研  
Research on Operators Operating Software

3 操作工焊接工艺的使用调研  
Research on the use of welding technology by operators

4 操作工设备使用熟练度调研  
Research on the Proficiency of Operators in Using Equipment

5 操作工设备保养维护调研  
Research on maintenance and upkeep of operator equipment

1 (重复第二次培训内容)  
(Repeat the content of the second training session)

1 (重复第三次培训内容)  
(Repeat the content of the third training session)





# 客户应用场景

CUSTOMER APPLICATION  
SCENARIOS



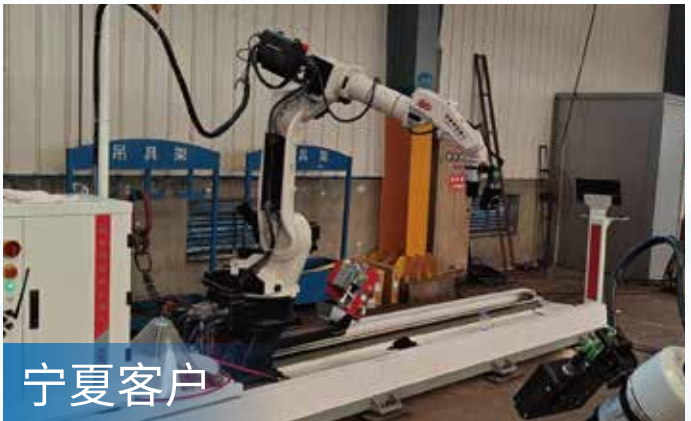
俄罗斯客户



浙江客户



江苏客户



宁夏客户



德国客户



马来西亚客户



韩国客户



江苏客户



福建客户



嘉兴客户



江苏客户



江苏客户



杭州客户





邯郸客户



杭州客户



山东客户



邯郸客户



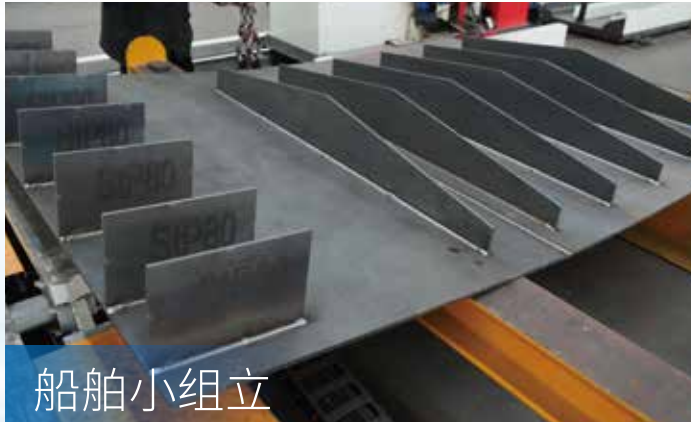
绍兴客户



云南客户



适用工件  
APPLICABLE WORKPIECES



船舶小组立



十字柱+牛腿



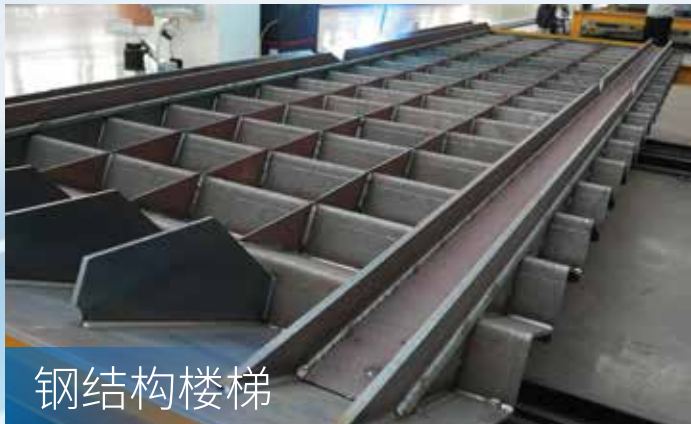
变径箱型柱



管道搭接十字梁



焊接工件



钢结构楼梯



十字柱



管道焊接



行车梁



管道搭接



箱型柱



COOPERATIVE PARTNER

合作伙伴





# COMPANY HONORS

## 公司荣誉



# 国际权威机构认证, 安全合规多重保障

Certified by international authoritative institutions, multiple guarantees of safety and compliance





# GLOBAL SERVICE NETWORK

## 全球服务网络



全球客户分布					
欧 洲	德国	英国	西班牙	加拿大	意大利
非 洲	摩洛哥	中非	赞比亚	马达加斯加	
北美洲	加拿大	美国	墨西哥	危地马拉	
南美洲	哥伦比亚	巴西	阿根廷		
大洋洲	澳大利亚				
亚 洲	土耳其	沙特	伊朗	印度	泰国
	印度尼西亚	日本	韩国	蒙古	俄罗斯
	哈萨克斯坦				
	新加坡				

# 30%+

全球科耐特焊接机器人市场占比  
Global market share of Konat welding robots



国内客户分布				
华东地区	上海	江苏	浙江	
	江西	山东	福建	安徽
华北地区	北京	天津	河北	山西
华南地区	广东	广西	海南	
华中地区	河南	湖南	湖北	
东北地区	吉林	辽宁	黑龙江	
西北地区	甘肃	陕西	宁夏	青海
西南地区	四川	重庆	云南	新疆