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焊接自动化解决方案专家
Welding Automation



DGCHROBOT

朝洪机器人，让焊接更智能

Dedicated to building a high-quality brand
in the robotics industry



东莞朝洪机器人自动化有限公司

Dongguan Chaohong Robot Automation Co., Ltd

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如果时间可以焊接，我们渴望焊接永恒
If time can weld, we desire weld eternity



公司简介

Company Profile

东莞朝洪机器人自动化有限公司成立于2015年，位于东莞市常平镇西兴三街68号朝洪机器人，占地面积5000平方米。公司主营MIG焊接机器人，激光焊接机器人，激光切割机器人，激光焊接机，激光切割机，氩弧焊机器人，柔性焊接工装夹具，同步变位机，活动地轨，机器人生产线工作站，定制各种焊接专机。

广泛应用于汽车部件，摩托车配件，厨具家具，钣金铝合金，门窗护栏，五金制品，家用电器等行业。

公司立足于高端装备制造等国家战略新兴产业，将紧追“中国制造”致力于机器人技术和互联网技术的深度融合，推动中国制造。

公司坚持“客户第一，质量第一，信誉第一”的原则，持续不断的为广大客户提供最优质的服务 和满足客户不同时期的需求，服务于传统企业转型，服务于人力的解放，服务于工业产业，服务于中国制造业。

我们热忱欢迎广大新老客户惠顾、洽谈、指导！

Dongguan Chaohong Robot Automation Co., Ltd. was established in 2015 and is located at No. 68 Xixing Third Street, Changping Town, Dongguan City, Covering an area of 5000 square meters. Our company specializes in MIG welding robots, laser welding robots, laser cutting robots, and laser welding machines, Laser cutting machine, argon arc welding robot, flexible welding fixture, synchronous displacement machine, movable ground rail, robot production line workstation, customize various welding machines. Widely used in automotive components, motorcycle accessories, kitchenware and furniture, sheet metal aluminum alloys, door and window guardrails, hardware products, household appliances, Other industries.

The company is based on national strategic emerging industries such as high-end equipment manufacturing, and will closely follow "Made in China" to devote itself to robot technology and mutual benefit. The deep integration of networking technology is driving manufacturing in China.

The company adheres to the principle of "customer first, quality first, reputation first", and continuously provides the highest quality service to our customers so as to meet the needs of customers at different times, to serve the transformation of traditional enterprises, to serve the liberation of human resources, to serve the industrial industry, and to serve the middle Made in China.

We warmly welcome new and old customers to visit, negotiate, and provide guidance!

公司愿景 Company Vision

-如果时间可以焊接-
-我们渴望焊接永恒-

If time can weld
we desire weld eternity

产品目录

Product catalogue

DGCHROBOT

东莞朝洪机器人
www.chaohong8.com

自动化焊接设备 制造商

Automated welding equipment

激光焊接机器人 Laser welding robot

免示教焊接机器人 Teaching-free welding robot

二氧化碳焊接机器人 Carbon dioxide welding robot

三维激光切割机器人 3D laser cutting robot

氩弧焊接机器人 Argon arc welding robot

手持激光焊接机 Handheld laser welding machine

激光清洗（除锈）机 Laser cleaning (rust removal) machine

协作焊接机器人 Cooperative welding robot

清枪站激光（视觉）跟踪 Cleaning station/Laser (visual) tracking

机器人联动变位机 Robot linkage positioner

机器人专用焊机 Robot special welding machine

机器人工作站 Robotic displacement machine



DGCH Robot

东莞朝洪机器人设备操作简单，只需要更换工装夹具即可焊接其他产品，适用于汽车部件，摩托车配件，金属家具，五金制品，家用电器等行业。

The Dongguan Chaohong robot equipment is easy to operate, just replace the fixture to weld other products, Suitable for industries such as automotive parts, motorcycle accessories, metal furniture, hardware products, and household appliances.

CH-1500ZD

朝洪机器人本体 (颜色可定制)

Chaohong Robot Body

- 自由度: 6
- 额定负载: 12kg
- 臂展: 1.5米
- 重复定位精度: $\pm 0.05\text{mm}$
- Degrees of freedom: 6
- Rated load: 12kg
- Arm span: 2m
- Repeated positioning accuracy: $\pm 0.05\text{mm}$



CH-1500ZD黄色



CH-1500ZD橘红色



CH-1500ZD白色

东莞朝洪机器人以“新技术、新工艺、新境界”领携焊接机器人高速焊接、超低飞溅、多功能一体的高工艺焊接。满足企业数字化、柔性化生产需求，深受企业青睐。

Dongguan Chaohong Robotics leads welding with "new technology, new process, and new realm" Robot high-speed welding, ultra-low spatter, and multifunctional integrated high process welding. Satisfying the digital and flexible production needs of enterprises, it is highly favored by

CH-2000ZD

朝洪机器人本体 (颜色可定制)

Chaohong Robot Body

- 自由度: 6
- 额定负载: 12kg
- 臂展: 2米
- 重复定位精度: $\pm 0.05\text{mm}$
- Degrees of freedom: 6
- Rated load: 12kg
- Arm span: 2m
- Repeated positioning accuracy: $\pm 0.05\text{mm}$



CH-2000ZD黄色



CH-2000ZD橘红色



CH-2000ZD白色

激光焊接机器人

CHLW1500/CHLW2000

Laser welding robot

激光焊接机器人通过高能激光束作为热源，对金属材料进行精密焊接。

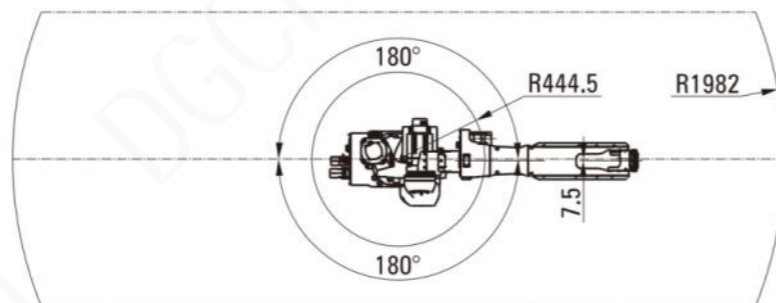
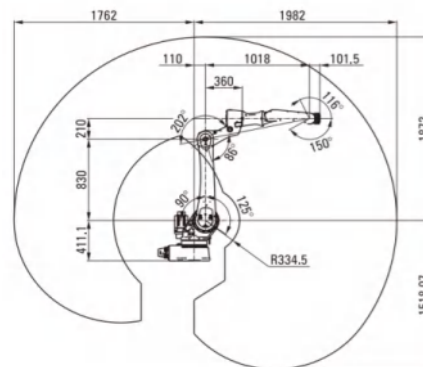
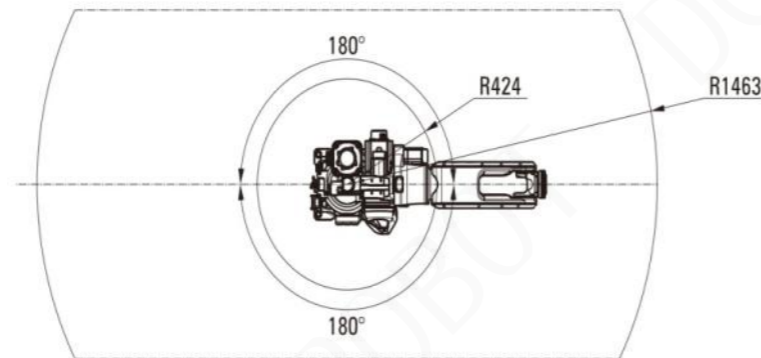
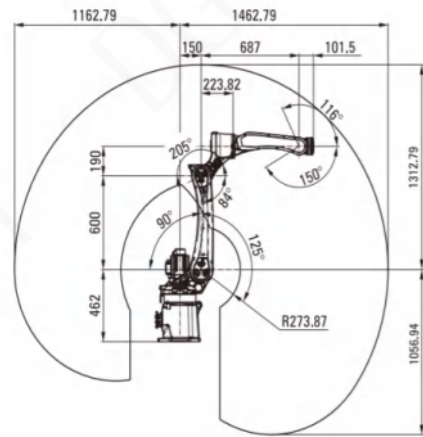
其应用范围广适应不同行业，核心是通过编程控制机器人手臂的路径，实现高精度、高效率的焊接作业。

The laser welding robot uses a high-energy laser beam as a heat source to perform precision welding on metal materials.

Its wide range of applications to adapt to different industries, the core is to programmatically control the path of the robot arm to achieve high-precision and efficient welding operations.



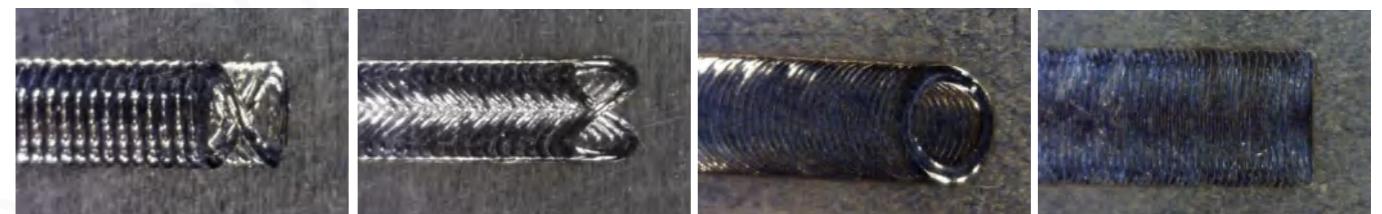
工作范围 Workscope diagram



技术参数 Technical specification

机器人型号 Robot model	CHLW1500	CHLW2000	
自由度 freedom	6	6	
放置方式 Position	地面安装、吊顶安装 Ground installation, ceiling installation	地面安装、吊顶安装 Ground installation, ceiling installation	
最大动作速度 Maximum operating speed	J1轴 Axis	195°/sec	144°/sec
	J2轴 Axis	184°/sec	114°/sec
	J3轴 Axis	154°/sec	149°/sec
	J4轴 Axis	264°/sec	264°/sec
	J5轴 Axis	214°/sec	214°/sec
	J6轴 Axis	259°/sec	259°/sec
最大动作范围 Maximum range of motion	J1轴 Axis	±180°	±180°
	J2轴 Axis	-125°~+90°	-125°~+90°
	J3轴 Axis	-84°~+205°	-86°~+202°
	J4轴 Axis	±170°	±170°
	J5轴 Axis	-150°~+116°	-150°~+116°
	J6轴 Axis	±360°	±360°
最大活动半径 Maximum activity radius	1500mm	2000mm	
末端最大负载 Maximum end load	12kg	12kg	
主要用途 Main use	焊接	焊接	
容许力矩 Allowable torque	J4轴	22N·m	22N·m
	J5轴	22N·m	22N·m
	J6轴	9.8N·m	9.8N·m
容许惯性力矩 Allowable moment of inertia	J4轴	0.65kg·m ²	0.65kg·m ²
	J5轴	0.65kg·m ²	0.65kg·m ²
	J6轴	0.17kg·m ²	0.17kg·m ²
重复定位精度 Repeatability	±0.05mm	±0.08mm	
机器人底座尺寸 Robot base size	290x300mm	300x420mm	
环境温度 Ambient temperature	0~45℃	0~45℃	
相对湿度 Relative humidity	20~80%RH	20~80%RH	
是否可加外部轴 External axis addition	√	√	
末端法兰盘 End flange	实心	实心	
本体重量 Body weight	≈ 116kg	≈ 198kg	

焊接效果 Welding effect



二氧化碳焊接机器人 CHCO1500/CHCO2000 Carbon dioxide welding robot

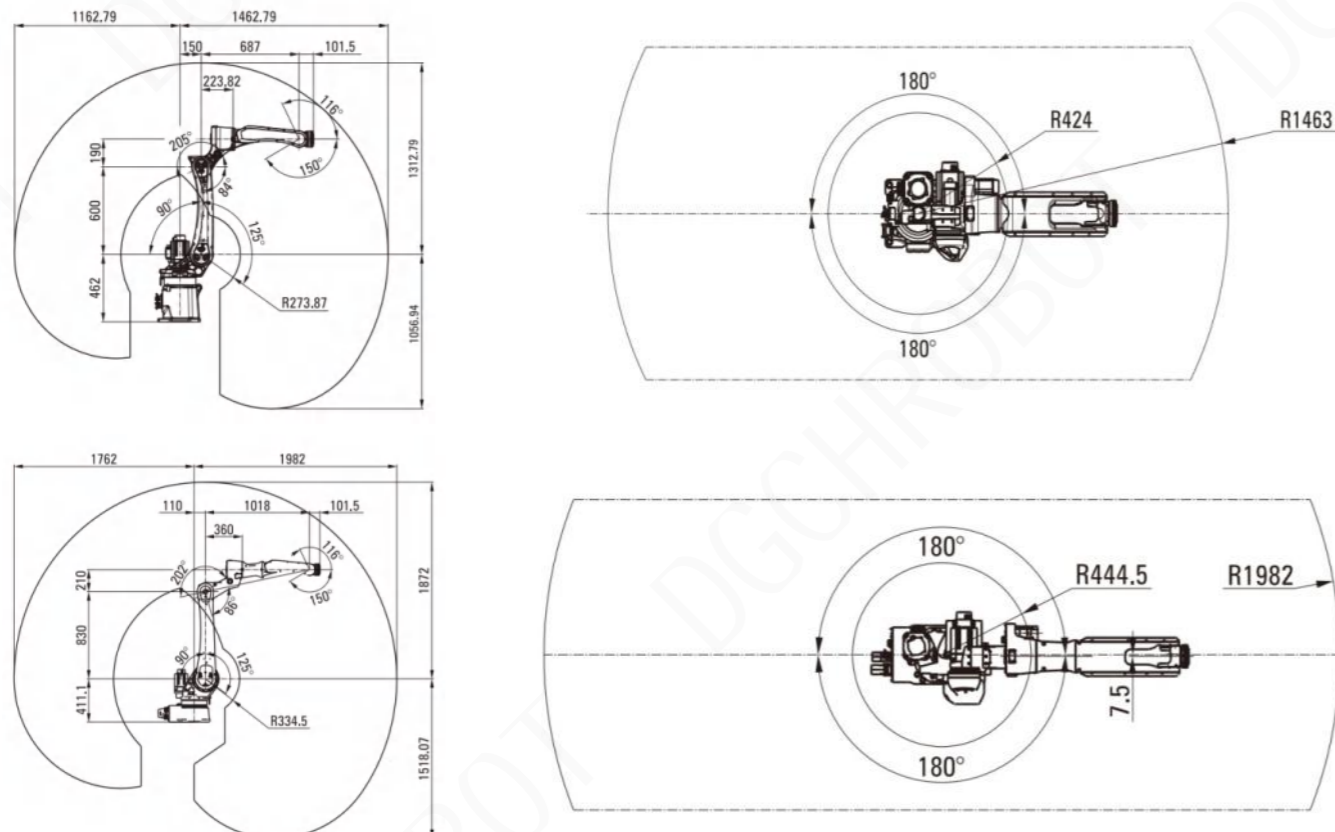
二氧化碳焊接机器人通过预设程序和传感器控制，实现高精度、高效率的焊接作业，广泛应用于汽车制造、船舶、钢结构、管道等领域。

特点：高效率、高质量、低成本

Carbon dioxide welding robot can realize high-precision and high-efficiency welding operation through preset program and sensor control, and is widely used in automobile manufacturing, ships, steel structures, pipelines and other fields.
Features: High efficiency, high quality, low cost



工作范围 Workscope diagram



技术参数 Technical specification

机器人型号 Robot model	CHCO1500	CHCO2000	
自由度 freedom	6	6	
放置方式 Position	地面安装、吊顶安装 Ground installation, ceiling installation	地面安装、吊顶安装 Ground installation, ceiling installation	
最大动作速度 Maximum operating speed	J1轴 Axis	199°/sec	144°/sec
	J2轴 Axis	184°/sec	114°/sec
	J3轴 Axis	154°/sec	149°/sec
	J4轴 Axis	264°/sec	264°/sec
	J5轴 Axis	214°/sec	214°/sec
	J6轴 Axis	259°/sec	259°/sec
最大动作范围 Maximum range of motion	J1轴 Axis	±180°	±180°
	J2轴 Axis	-125°~+90°	-125°~+90°
	J3轴 Axis	-84°~+205°	-86°~+202°
	J4轴 Axis	±170°	±170°
	J5轴 Axis	-150°~+116°	-150°~+116°
	J6轴 Axis	±360°	±360°
最大活动半径 Maximum activity radius	1500mm	2000mm	
末端最大负载 Maximum end load	12kg	12kg	
主要用途 Main use	焊接	焊接	
容许力矩 Allowable torque	J4轴	22N·m	22N·m
	J5轴	22N·m	22N·m
	J6轴	9.8N·m	9.8N·m
容许惯性力矩 Allowable moment of inertia	J4轴	0.65kg·m ²	0.65kg·m ²
	J5轴	0.65kg·m ²	0.65kg·m ²
	J6轴	0.17kg·m ²	0.17kg·m ²
重复定位精度 Repeatability	±0.05mm	±0.08mm	
送丝速度 Wire feed speed	1.4~24m/min		
辅助气压 Auxiliary air pressure	≤3Mpa	≤3Mpa	
焊接工艺 Welding process	Co2/MAG		
是否可加外部轴 External axis addition	√	√	
末端法兰盘 End flange	实心	实心	
本体重量 Body weight	≈116kg	≈198kg	

焊接效果 Welding effect



免示教焊接机器人 CHTW1500/CHTW2000

Teaching-free welding robot

免示教焊接机器人通过先进的传感技术（视觉、激光扫描等）实时感知工件形状、焊缝位置及环境变化，并自主生成焊接路径和参数，实现高效、精准的焊接作业。

无需示教编程,实时纠偏减少人为误差,应用范围广
Through advanced sensing technology (vision, laser scanning, etc.), the robot can sense the shape of the workpiece, weld position and environmental changes in real time, and generate welding paths and parameters independently to achieve efficient and accurate welding operations.No need to teach programming, real-time correction to reduce human error, a wide range of applications



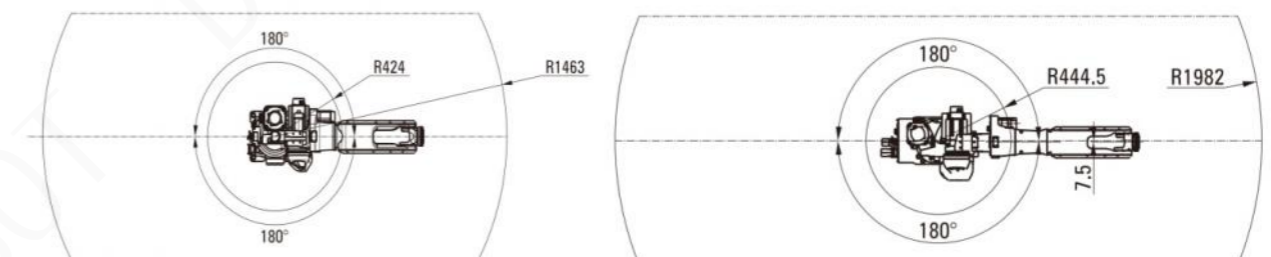
焊接效果 Welding effect



技术参数 Technical specification

机器人型号 Robot model	CHTW1500	CHTW2000	
自由度 freedom	6	6	
编程方式 Programming mode	3D导图, 拍照焊接 3D mapping, photo welding	3D导图, 拍照焊接 3D mapping, photo welding	
最大动作速度 Maximum operating speed	J1轴 Axis	199°/sec	144°/sec
	J2轴 Axis	184°/sec	114°/sec
	J3轴 Axis	154°/sec	149°/sec
	J4轴 Axis	264°/sec	264°/sec
	J5轴 Axis	214°/sec	214°/sec
	J6轴 Axis	259°/sec	259°/sec
最大动作范围 Maximum range of motion	J1轴 Axis	±180°	±180°
	J2轴 Axis	-125°~+90°	-125°~+90°
	J3轴 Axis	-84°~+205°	-86°~+202°
	J4轴 Axis	±170°	±170°
	J5轴 Axis	-150°~+116°	-150°~+116°
	J6轴 Axis	±360°	±360°
最大活动半径 Maximum activity radius	1500mm	2000mm	
末端最大负载 Maximum end load	12kg	12kg	
主要用途 Main use	焊接	焊接	
容许力矩 Allowable torque	J4轴	22N·m	22N·m
	J5轴	22N·m	22N·m
	J6轴	9.8N·m	9.8N·m
容许惯性力矩 Allowable moment of inertia	J4轴	0.65kg·m ²	0.65kg·m ²
	J5轴	0.65kg·m ²	0.65kg·m ²
	J6轴	0.17kg·m ²	0.17kg·m ²
重复定位精度 Repeatability	±0.05mm	±0.08mm	
送丝速度 Wire feed speed	1.4~24m/min		
辅助气压 Auxiliary air pressure	≤3Mpa	≤3Mpa	
焊接工艺 Welding process	平角焊缝、立角焊缝、多层多道角焊缝、坡口对接焊缝等 Flat fillet welding, vertical fillet welding, multi-layer fillet weld, groove butt weld and so on		
适用范围 Scope of application	龙门+倒装机器人/8、9轴悬臂+倒装机器人/单机工作站+双轴变位机 Gantry + flip robot / 8, 9 axis cantilever + flip robot / single workstation + double axis positioner		
适用工种 Applicable job	行车梁、夹筋板、牛腿、桥梁横隔板等钢结构产品 Driving beam, sandwich plate, ox leg, bridge diaphragm and other steel structure products		
本体重量 Body weight	≈ 116kg	≈ 198kg	

工作范围 Workscope diagram



三维激光切割机器人 CHLC1500/CHLC2000

3D Laser cutting robot

三维激光切割机器人通过控制激光束的路径，能够在三维空间内对材料进行高精度、高效率的切割。

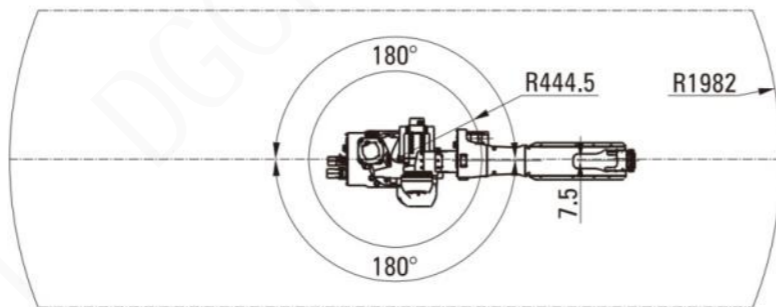
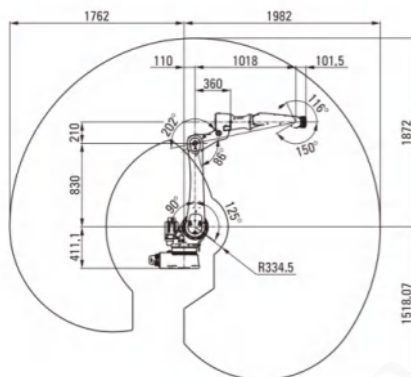
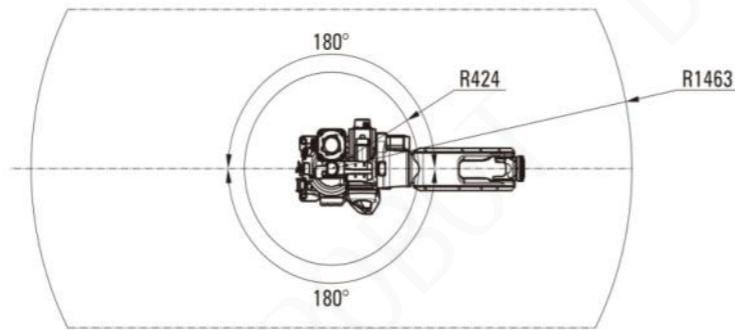
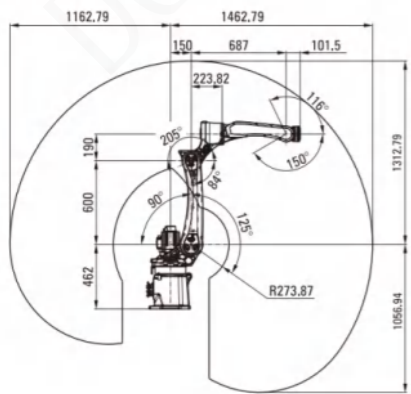
适应复杂曲面、异形工件或大尺寸物体的加工需求、

By controlling the path of the laser beam, the 3D laser cutting robot can cut materials in 3D space with high precision and high efficiency.

Adapt to the processing needs of complex surfaces, special-shaped workpieces or large-size objects



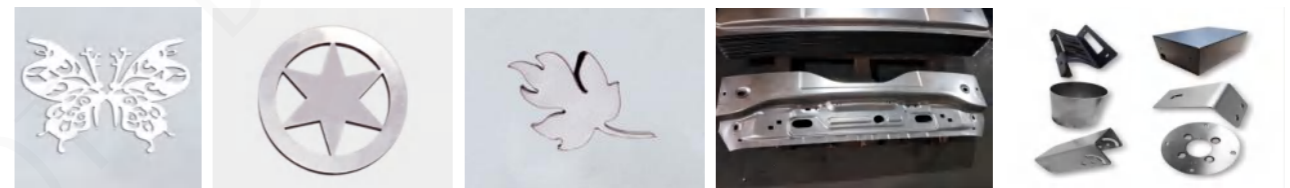
工作范围 Workscope diagram



技术参数 Technical specification

机器人型号 Robot model	CHLC1500	CHLC2000	
自由度 freedom	6	6	
放置方式 Position	地面安装、吊顶安装 Ground installation, ceiling installation	地面安装、吊顶安装 Ground installation, ceiling installation	
最大动作速度 Maximum operating speed	J1轴 Axis	201°/sec	146°/sec
	J2轴 Axis	186°/sec	116°/sec
	J3轴 Axis	156°/sec	151°/sec
	J4轴 Axis	266°/sec	266°/sec
	J5轴 Axis	216°/sec	216°/sec
	J6轴 Axis	261°/sec	261°/sec
最大动作范围 Maximum range of motion	J1轴 Axis	±180°	±180°
	J2轴 Axis	-125°~+90°	-125°~+90°
	J3轴 Axis	-84°~+205°	-86°~+202°
	J4轴 Axis	±170°	±170°
	J5轴 Axis	-150°~+116°	-150°~+116°
	J6轴 Axis	±360°	±360°
最大活动半径 Maximum activity radius	1500mm	2000mm	
末端最大负载 Maximum end load	12kg	12kg	
主要用途 Main use	切割	切割	
容许力矩 Allowable torque	J4轴	22N·m	22N·m
	J5轴	22N·m	22N·m
	J6轴	9.8N·m	9.8N·m
容许惯性力矩 Allowable moment of inertia	J4轴	0.65kg·m ²	0.65kg·m ²
	J5轴	0.65kg·m ²	0.65kg·m ²
	J6轴	0.17kg·m ²	0.17kg·m ²
重复定位精度 Repeatability	±0.05mm	±0.08mm	
激光波长 Laser wave length	1080±10nm	1080±10nm	
辅助气压 Auxiliary air pressure	≤3Mpa	≤3Mpa	
激光器功率 Laser power	1500w 2000w	3000w 6000w	
是否可加外部轴 External axis addition	√	√	
末端法兰盘 End flange	实心	实心	
本体重量 Body weight	≈116kg	≈198kg	

切割效果 Cutting effect



激光清洗 (除锈) 机

CHLC1501/CHLC2001/CHLC3001/CHLC6001

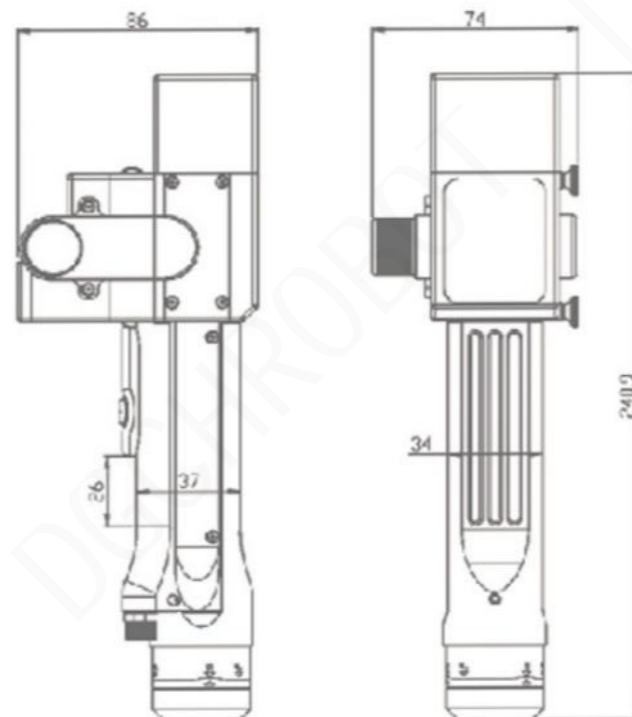
Laser cleaning (rust removal) machine

激光清洗除锈机是通过聚焦高能量密度的激光脉冲照射到工件表面,使锈蚀层、氧化皮、油污、油漆等污染物瞬间吸收激光能量,发生气化、熔融或剥离,从而实现高效清洁,同时不损伤基材。

Laser cleaning machine is to focus the laser pulse of high energy density on the surface of the workpiece, so that the rust layer, oxide, oil, paint and other pollutants instantaneously absorb laser energy, gasification, melting or stripping, so as to achieve efficient cleaning, while not damaging the substrate.



工作范围 Workscope diagram

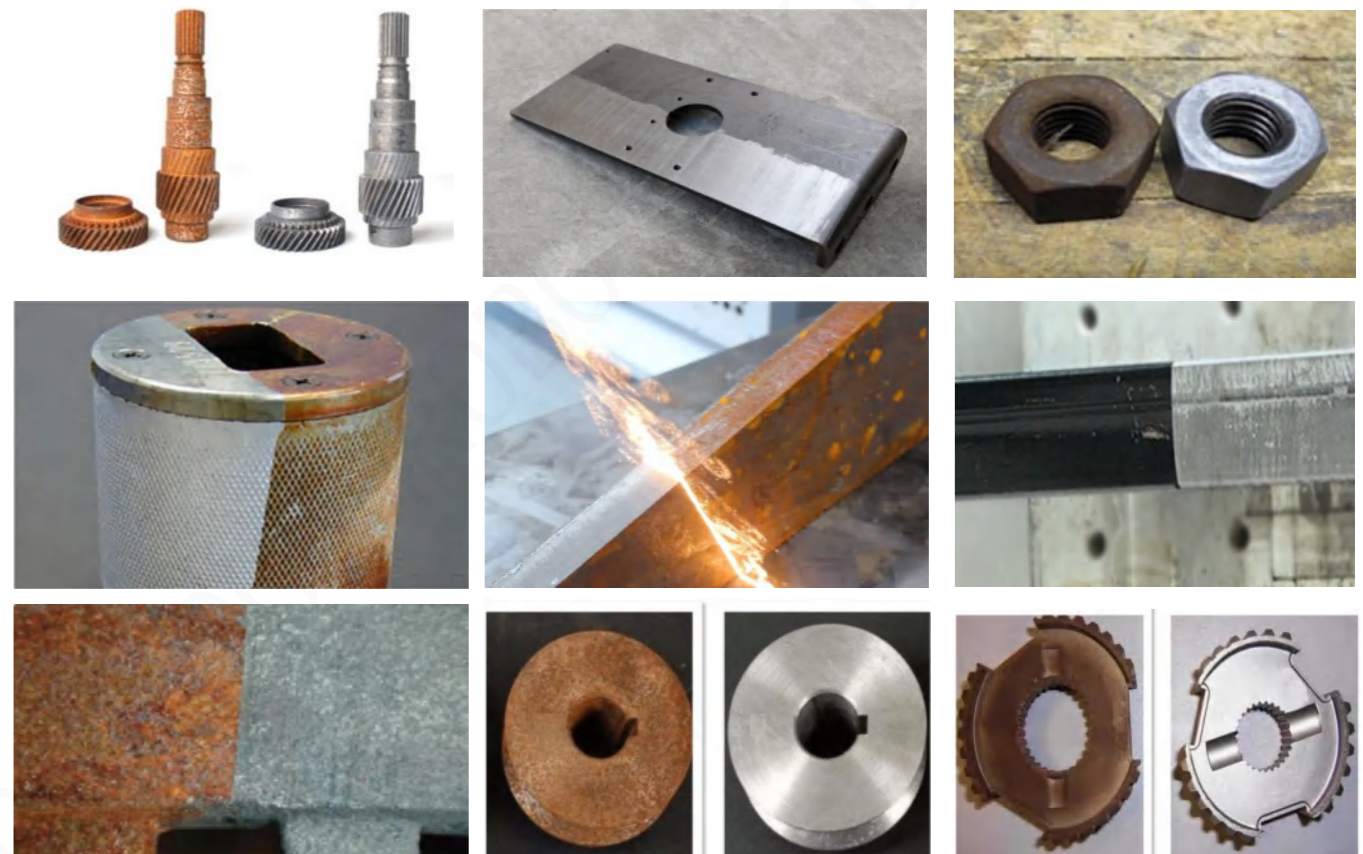


清洗头的焦距为400mm/800mm, 光纤长度为10m/15m, 清洗宽度为10mm-300mm

技术参数 Technical specification

清洗机型号 Robot model	CHLC1501	CHLC2001	CHLC3001	CHLC6001
激光器类型 Laser type	手持式激光清洗 (除锈) 机			
输出功率稳定度 (25°C) Output power stability	< ±1.5% (2h)			
光纤长度 Fiber length	10米/15米			
工作方式 Working mode	连续/脉冲			
冷却方式 Cooling mode	水冷			
可选配套 Optional package	手持式/自动化			
激光器功率 Laser power	1500w/2000w/3000w/6000w			
激光波长 Laser wave length	1080±10nm			
使用环境 Use environment	环境温度 ≥45°C, 相对湿度 ≥95%RH			
功率调节范围 Power regulation range	10% - 100%			
准直焦距 Collimating focal length	60mm			
聚焦焦距 Focal length	400/800mm			
清洗头重量 Cleaning head weight	1kg			
认证标准 Certification standard	CE认证 CE certification			

除锈效果 Rust removal effect



手持激光焊接机

CHLW1501/CHLW2001/CHLW3001

Laser welding machine

手持激光焊接机将传统固定式激光焊接机的灵活性与高效性结合，对金属材料进行快速、精准的熔接。尤其适合中小规模生产、维修及复杂工况下的焊接需求。

The handheld laser welding machine combines the flexibility and efficiency of traditional stationary laser welding machines to weld metal materials quickly and accurately.

Especially suitable for small and medium-sized production, maintenance and complex conditions under the welding needs.



工作范围 Workscope diagram

DGCHROBOT LASER



Laser cleaning gun head

DGCHROBOT LASER



COLD WATER TANK

焊接头的聚焦焦距为150mm，光纤长度为10m/15m，垂直调焦范围为±10mm

技术参数 Technical specification

焊接机型号 Robot model	CHLW1501	CHLW2001	CHLW3001
激光器类型 Laser type	手持式激光焊接机		
输出功率稳定度 (25°C) Output power stability	< ±1.5% (2h)		
光纤长度 Fiber length	10米/15米		
工作方式 Working mode	连续/脉冲		
冷却方式 Cooling mode	水冷		
可选配套 Optional package	手持式/自动化		
激光器功率 Laser power	1500w/2000w/3000w		
激光波长 Laser wave length	1080±10nm		
使用环境 Use environment	环境温度 ≥45°C，相对湿度 ≥95%RH		
功率调节范围 Power regulation range	10%-100%		
工作电压 Working voltage	AC220V/AC380V		
焊接厚度建议 Recommended welding thickness	0.5-5mm		
焊接缝隙要求 Welding seam requirements	≤0.5mm		
焊接头重量 Welding head weight	0.7kg		
焊接材质 Welding material	不锈钢、铝合金、铝铁块、碳钢、锌合金、钢材等		
焊接效果 Welding effect	叠焊、角焊、拼焊		

焊接效果 Welding effect



氩弧焊接机器人

CHAW1500/CHAW2000

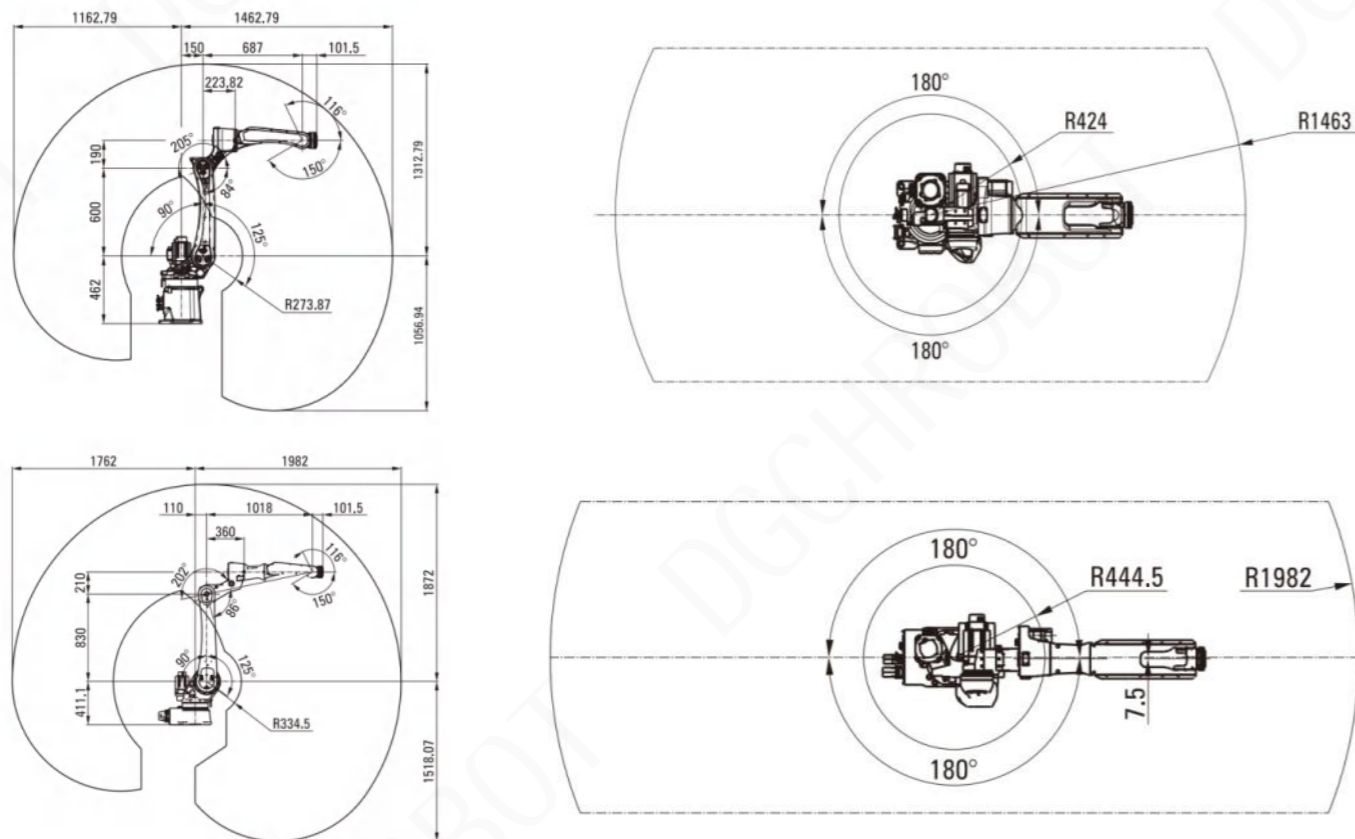
Argon arc welding robot

氩弧焊接机器人结合氩弧焊（TIG焊）技术，专为高精度、高质量焊接需求设计。适合对热敏感或薄材的焊接，尤其适合高端制造业的严苛需求。

Argon arc Welding robot combined with argon arc welding (TIG welding) technology, designed for high precision, high quality welding needs. Ideal for welding heat sensitive or thin materials, especially for the demanding requirements of high-end manufacturing.



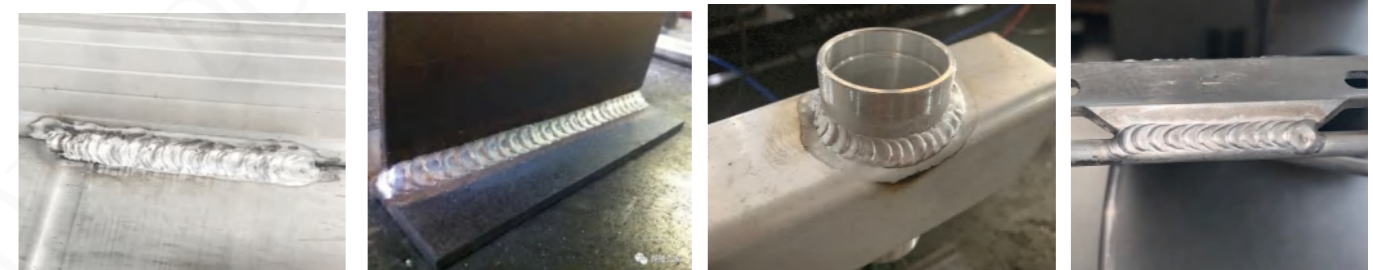
工作范围 Workscope diagram



技术参数 Technical specification

机器人型号 Robot model	CHAW1500	CHAW2000	
自由度 freedom	6	6	
放置方式 Position	地面安装、吊顶安装 Ground installation, ceiling installation	地面安装、吊顶安装 Ground installation, ceiling installation	
最大动作速度 Maximum operating speed	J1轴 Axis	200°/sec	146°/sec
	J2轴 Axis	188°/sec	118°/sec
	J3轴 Axis	158°/sec	153°/sec
	J4轴 Axis	268°/sec	268°/sec
	J5轴 Axis	218°/sec	218°/sec
	J6轴 Axis	263°/sec	263°/sec
最大动作范围 Maximum range of motion	J1轴 Axis	±180°	±180°
	J2轴 Axis	-125°~+90°	-125°~+90°
	J3轴 Axis	-84°~+205°	-86°~+202°
	J4轴 Axis	±170°	±170°
	J5轴 Axis	-150°~+116°	-150°~+116°
	J6轴 Axis	±360°	±360°
最大活动半径 Maximum activity radius	1500mm	2000mm	
末端最大负载 Maximum end load	12kg	12kg	
主要用途 Main use	焊接	焊接	
容许力矩 Allowable torque	J4轴	22N·m	22N·m
	J5轴	22N·m	22N·m
	J6轴	9.8N·m	9.8N·m
容许惯性力矩 Allowable moment of inertia	J4轴	0.65kg·m ²	0.65kg·m ²
	J5轴	0.65kg·m ²	0.65kg·m ²
	J6轴	0.17kg·m ²	0.17kg·m ²
重复定位精度 Repeatability	±0.05mm	±0.08mm	
控制方式 Control mode	数字IGBT逆变控制		
脉冲频率调整范围	0.1~500Hz	0.1~500Hz	
焊接工艺 Welding process	铝焊/TIG		
是否可加外部轴 External axis addition	√	√	
末端法兰盘 End flange	实心	实心	
本体重量 Body weight	≈ 116kg	≈ 198kg	

焊接效果 Welding effect



磨削专用机器人 CHGR1800

Grinding special robot

打磨机器人是工件表面打磨、抛光、去毛刺等工艺的智能设备，通过预设程序或视觉引导系统，精准执行复杂的打磨任务，解决了传统人工打磨的效率低、一致性差、安全隐患多等问题。

Grinding robot is an intelligent equipment for workpiece surface grinding, polishing, deburring and other processes. Through pre-programmed programs or visual guidance systems, it accurately performs complex grinding tasks, solving the problems of low efficiency, poor consistency, and many safety risks of traditional manual grinding.

适用表面处理工艺:

金属焊缝打磨及抛光, 铸铁冒口即合模线打磨

适用材料:

铸铁、钢、铝等金属打磨抛光



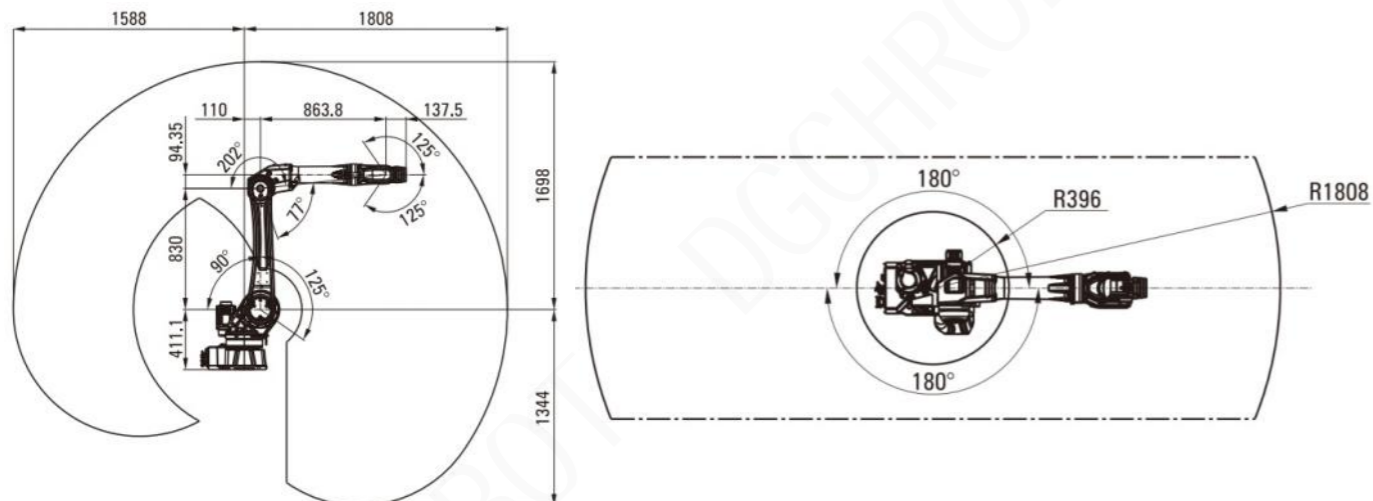
Applicable surface treatment process:

Metal weld grinding and polishing, cast iron riser is the mold line grinding

Applicable materials:

Iron, steel, aluminum and other metals polishing

工作范围 Workscope diagram



技术参数 Technical specification

机器人型号 Robot model	CHGR1800	
自由度 freedom	6	
放置方式 Position	地面安装、吊顶安装 Ground installation, ceiling installation	
最大动作速度 Maximum operating speed	J1轴 Axis	145°/sec
	J2轴 Axis	115°/sec
	J3轴 Axis	150°/sec
	J4轴 Axis	347°/sec
	J5轴 Axis	280°/sec
	J6轴 Axis	380°/sec
最大动作范围 Maximum range of motion	J1轴 Axis	±180°
	J2轴 Axis	-125°~+90°
	J3轴 Axis	-77°~+202°
	J4轴 Axis	±180°
	J5轴 Axis	±125°
	J6轴 Axis	±360°
最大活动半径 Maximum activity radius	1808mm	
末端最大负载 Maximum end load	25kg	
主要用途 Main use	打磨专用	
容许力矩 Allowable torque	J4轴	52N·m
	J5轴	52N·m
	J6轴	32N·m
容许惯性力矩 Allowable moment of inertia	J4轴	2.4kg·m ²
	J5轴	2.4kg·m ²
	J6轴	1.20kg·m ²
重复定位精度 Repeatability	±0.08mm	
适用的表面处理工艺	金属焊缝打磨及抛光, 铸铁冒口及合模线打磨	
适用的材料	铸铁、钢、铝、镁等金属打磨抛光	
环境温度 Ambient temperature	0~45℃	
是否可加外部轴 External axis addition	√	
相对湿度 Relative humidity	20~80%RH	
本体重量 Body weight	≈ 191kg	

打磨效果 Welding effect



协作焊接机器人

CHCW922

Cooperative welding robot

协作焊接机器人通过传感器、力控技术和智能算法实现实时感知与避障，保障人机共处安全；

支持快速编程和轨迹调整，适应小批量、多品种的柔性生产需求；

配备高精度运动控制系统，确保焊缝一致性和质量可靠性

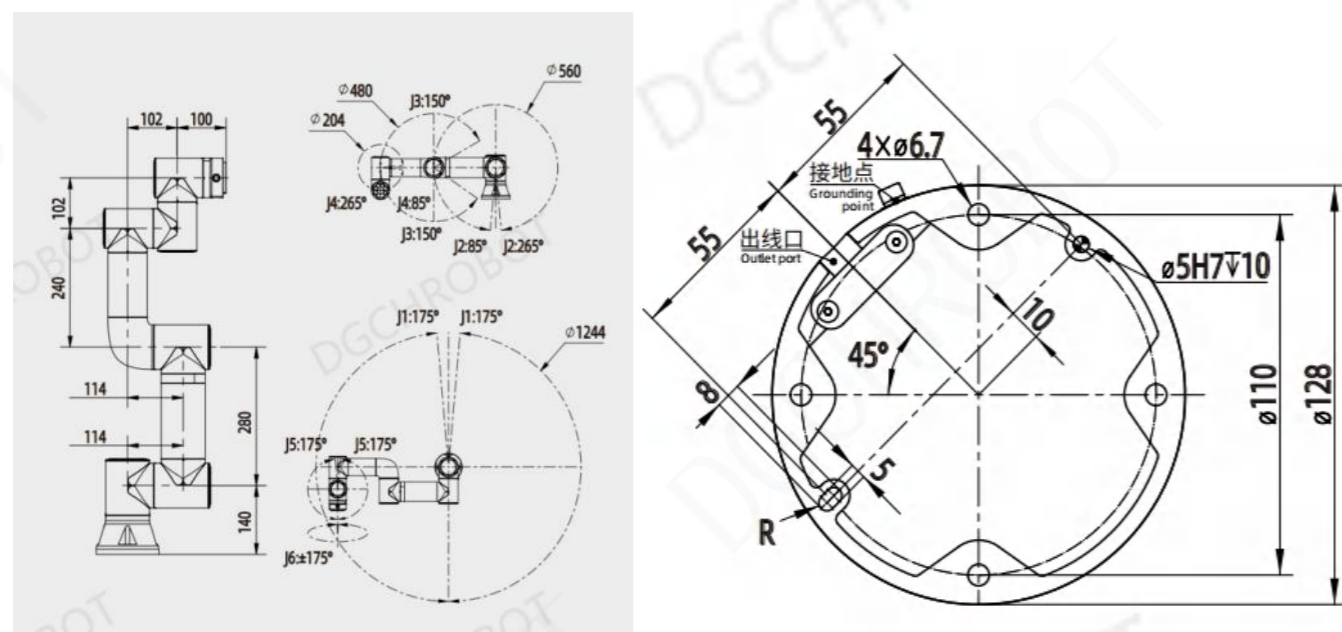
The collaborative welding robot realizes real-time perception and obstacle avoidance through sensors, force control technology and intelligent algorithm to ensure the safety of man-machine coexistence.

Support fast programming and trajectory adjustment, adapt to small batch, multi-variety flexible production needs;

Equipped with high precision motion control system to



工作范围 Workscope diagram



技术参数 Technical specification

协作机器人型号 Robot model	CH-3	CH-5	CH-10	CH-16
有效负载 payload	3kg	5kg	10kg	16kg
工作半径 Working radius	622mm	922mm	1400mm	1034mm
自由度 Degree of freedom	6轴			
重复精度 repeatability	±0.02mm	±0.03mm	±0.05mm	±0.03mm
基座 Mount	±175° ±180°/s	±175° ±180°/s	±175° ±120°/s	±175° ±120°/s
肩部 Shoulder	+85°/-265° ±180°/s	+85°/-265° ±180°/s	+85°/-265° ±120°/s	+85°/-265° ±120°/s
肘部 Elbow	±150° ±180°/s	±160° ±180°/s	±160° ±180°/s	±160° ±180°/s
腕部1 Wrist 1	+85°/-265° ±180°/s	+85°/-265° ±180°/s	+85°/-265° ±180°/s	+85°/-265° ±180°/s
腕部2 Wrist 2	±175° ±180°/s	±175° ±180°/s	±175° ±180°/s	±175° ±180°/s
腕部3 Wrist 3	±175° ±180°/s	±175° ±180°/s	±175° ±180°/s	±175° ±180°/s
工作温度 Operating temperature	0-45°C	0-45°C	0-45°C	0-45°C
工作湿度 Working humidity	90%RH	90%RH	90%RH	90%RH
工具I/O电源 Tool I/O power supply	24V/1.5A	24V/1.5A	24V/1.5A	24V/1.5A
噪音 Noise	< 65dB	< 65dB	< 65dB	< 65dB
整机重量 Machine weight	≈ 15kg	≈ 22kg	≈ 40kg	≈ 40kg

焊接效果 Welding effect



清枪站 (可与机器人通信) CH-2000s

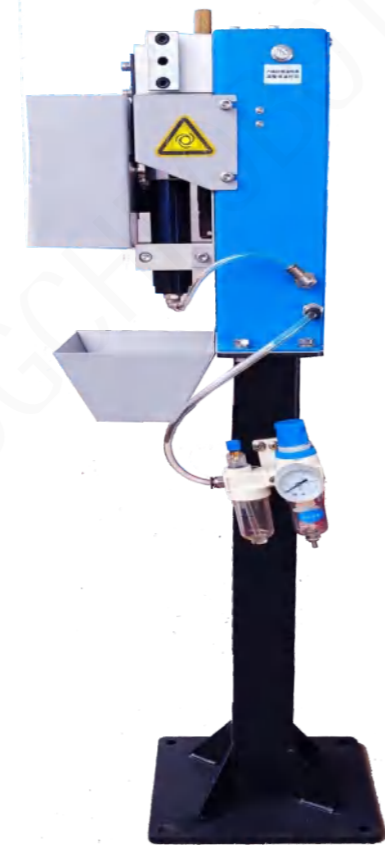
Welding head cleaning station

灵巧设计, 清枪剪丝一键启动处理。清枪剪丝全程只需6-7秒, 提高机器人工作效率。采用多功能绞刀, 焊嘴根部清枪效果更彻底。丝装置采用电磁阀控制, 剪丝更准确, 确保焊丝落入收集盒。电器布置简单, 外露管线非常少。

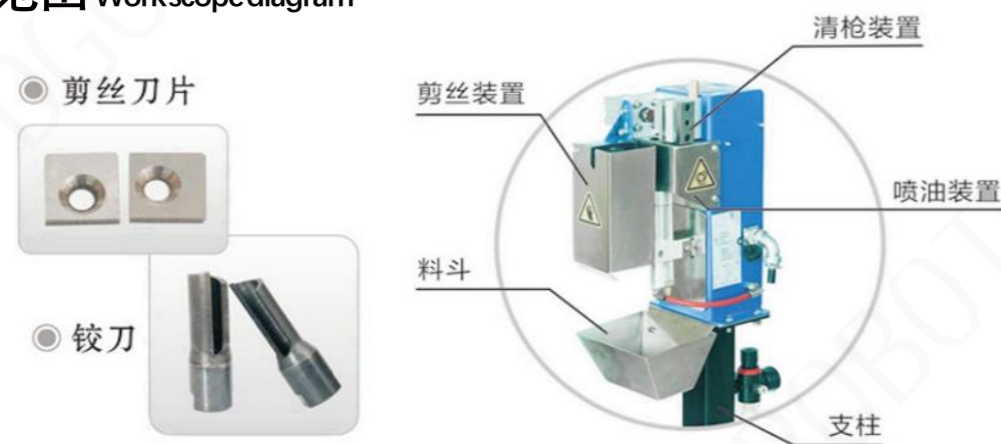
Smart design with one-touch activation for chip clearing and wire cutting. 6-7 second full-cycle process, boosting robot efficiency.

Multi-functional cutter ensures thorough nozzle root cleaning. Solenoid valve-controlled wire device delivers precise cuts, guaranteeing wire collection.

Simplified electrical layout with minimal exposed pipelines.



工作范围 Workscope diagram



技术参数 Technical specification

清枪站型号 Robot model	CH-2000s
压缩空气气源 Compressed air supply	无油干燥空气 Oil free dry air
所需要气量 Required gas volume	大约每秒10L About 10L per second
程序控制 Program control	气动 Pneumatic
电压 Voltage	U=24V
清枪时间 Cleaning time	约4-5秒 About 4-5 seconds
防飞溅剂容量 Anti spatter capacity	500ml
防飞溅喷射量 Splash prevention spray amount	可调节 Adjustable
重量 Weight	约14kg About 14kg

激光 (视觉) 跟踪器

SA-LA185-411/SA-LA185-611

Laser vision tracker

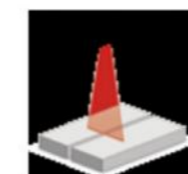
焊缝识别、定位并根据不同焊缝类型提供焊缝特征数据; 对机器人、变位机、焊机做出引导及控制利用智能焊接三维视觉系统配合焊接机器人; 可轻松实现焊件寻位、焊缝寻迹、焊缝跟踪等功能。

It can realize weld identification, positioning and provide weld characteristics data according to different weld types; Guide and control robots, positioner and welder. Intelligent welding 3D vision system with welding robot; It can easily realize the functions of locating welds, tracking welds, and so on.

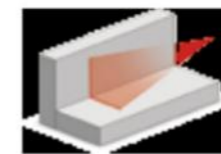
Simplified electrical layout with minimal exposed



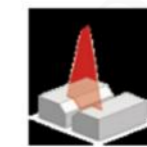
适应多种焊缝类型 Adapts to various weld types



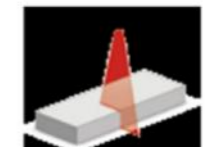
对接焊缝



内角焊缝



V型坡口焊缝



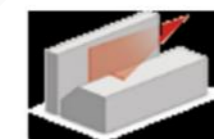
平板焊缝



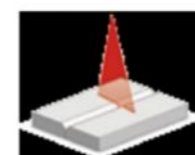
外角焊缝



单卷边端接焊缝



倾斜半V型坡口焊缝



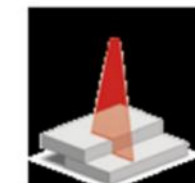
双卷边对接焊缝



卷边直角焊缝



正向双卷边对接焊缝



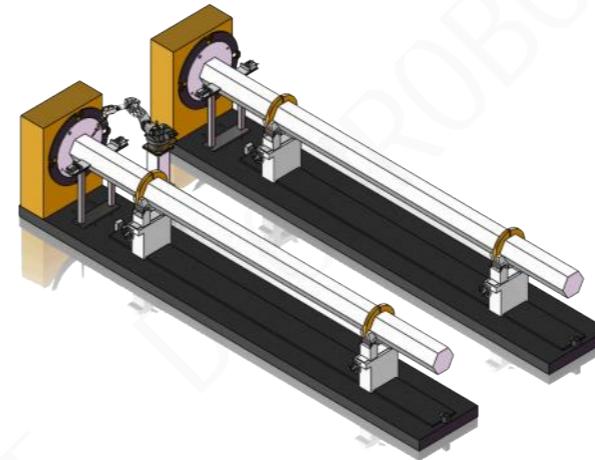
搭接焊缝

单轴口字型变位机 Single spindle Positioner (支持定制 customizable)



变位机型号 Positioner model number	单轴口字型变位机 Single spindle Positioner
适合机器人 Suitable for robot	全系列机器人 Full range of robots
重复定位精度 Repeated positioning accuracy	±0.05mm
适合焊接工艺 Suitable for welding process	CO2/MAG/MIG/TIG
最大翻转角度 Maximum turnover Angle	±360°
绝缘等级 Insulation class	H
额定输入电压 Rated input voltage	三相交流380V 50/60HZ Three-phase AC 380V 50/60HZ
外部轴控制器 External shaft controller	内置/外置外部控制器 Internal/External External controller

侧卧式伺服变位机 Side horizontal positioner (支持定制 customizable)



变位机型号 Positioner model number	侧卧式伺服变位机 Side horizontal positioner
适合机器人 Suitable for robot	全系列机器人 Full range of robots
重复定位精度 Repeated positioning accuracy	±0.05mm
适合焊接工艺 Suitable for welding process	CO2/MAG/MIG/TIG
最大翻转角度 Maximum turnover Angle	±360°
绝缘等级 Insulation class	H
额定输入电压 Rated input voltage	三相交流380V 50/60HZ Three-phase AC 380V 50/60HZ
外部轴控制器 External shaft controller	内置/外置外部控制器 Internal/External External controller

双轴L型重载变位机 Double axis L-type heavy duty positioner (支持定制 customizable)



变位机型号 Positioner model number	双轴L型重载变位机 Double axis L-type heavy duty positioner
适合机器人 Suitable for robot	全系列机器人 Full range of robots
重复定位精度 Repeated positioning accuracy	±0.05mm
适合焊接工艺 Suitable for welding process	CO2/MAG/MIG/TIG
最大翻转角度 Maximum turnover Angle	一轴±90° 二轴±360°
绝缘等级 Insulation class	H
额定输入电压 Rated input voltage	三相交流380V 50/60HZ Three-phase AC 380V 50/60HZ
外部轴控制器 External shaft controller	内置/外置外部控制器 Internal/External External controller

单轴旋转变位机 Single axis rotary positioner (支持定制 customizable)



变位机型号 Positioner model number	单轴旋转变位机 Single axis rotary positioner
适合机器人 Suitable for robot	全系列机器人 Full range of robots
重复定位精度 Repeated positioning accuracy	±0.05mm
适合焊接工艺 Suitable for welding process	CO2/MAG/MIG/TIG
最大翻转角度 Maximum turnover Angle	±360°
绝缘等级 Insulation class	H
额定输入电压 Rated input voltage	三相交流380V 50/60HZ Three-phase AC 380V 50/60HZ
外部轴控制器 External shaft controller	内置/外置外部控制器 Internal/External External controller

双轴H型变位机 Dual axis H type positioner (支持定制 customizable)



变位机型号 Positioner model number	双轴H型变位机 Dual axis H type positioner
适合机器人 Suitable for robot	全系列机器人 Full range of robots
重复定位精度 Repeated positioning accuracy	±0.05mm
适合焊接工艺 Suitable for welding process	CO2/MAG/MIG/TIG
最大翻转角度 Maximum turnover Angle	一轴±180° 二轴±360°
绝缘等级 Insulation class	H
额定输入电压 Rated input voltage	三相交流380V 50/60HZ Three-phase AC 380V 50/60HZ
外部轴控制器 External shaft controller	内置/外置外部控制器 Internal/External External controller

三轴回转变位机 Three axis rotary positioner (支持定制 customizable)



变位机型号 Positioner model number	三轴回转变位机 Three axis rotary positioner
适合机器人 Suitable for robot	全系列机器人 Full range of robots
重复定位精度 Repeated positioning accuracy	±0.05mm
适合焊接工艺 Suitable for welding process	CO2/MAG/MIG/TIG
最大翻转角度 Maximum turnover Angle	一轴±180° 二轴360° 三轴360°
绝缘等级 Insulation class	H
额定输入电压 Rated input voltage	三相交流380V±10% 50/60HZ Three-phase AC 380V±10% 50/60HZ
外部轴控制器 External shaft controller	内置/外置外部控制器 Internal/External External controller

A焊机-麦格米特

CM350R/CM500R

Welding machine

机器人专用弧焊电源
支持CO2/MAG/MIG/TIG等工艺
可配合智能云平台实现智能化功能

Robot special arc welding power supply
Support CO2/MAG/MIG/TIG and other processes
It can cooperate with intelligent cloud platform to achieve intelligent functions



机器人款	-	-	-	Ehave2 CM630R	Ehave2 CM500R	Ehave2 CM350R
工艺						
直流	●	●	●	●	●	●
碳钢	●	●	●	●	●	●
不锈钢	-	-	-	●	●	●
简易TIG	-	-	-	●	●	●
MMA	●	●	●	●	●	●
碳弧气刨	●	●	●	●	●	●
快速焊模式	-	-	-	●	●	●
技术参数						
控制方式	全数字	全数字	全数字	全数字	全数字	全数字
送丝传动控制方式	高频反电动势控制					
输入电压	3相AC380V±25%					
输入频率	50~60Hz	50~60Hz	50~60Hz	50~60Hz	50~60Hz	50~60Hz
输入容量	32.4KVA/30.4KW	23.1KVA/21.7KW	13.1KVA/12.4KW	32.4KVA/30.4KW	23.1KVA/21.7KW	13.1KVA/12.4KW
功率因数	0.94	0.94	0.95	0.94	0.94	0.95
效率	0.91	0.9	0.89	0.91	0.9	0.89
能效(节能)	一级	一级	一级	一级	一级	一级
额定空载电压	78V	73V	60V	78V	73V	60V
额定输出电流	630A	500A	350A	630A	500A	350A
额定输出电压	44V	39V	31.5V	44V	39V	31.5V
给定电流范围	30~630A	30~500A	30~400A	30~630A	30~500A	30~400A
给定电压范围	12~50V	12~45V	12~38V	12~50V	12~45V	12~38V
额定暂载率	630A@100%	500A@100%	350A@100%	630A@100%	500A@100%	350A@100%
电磁兼容性	Class A	Class A	Class A	Class A	Class A	Class A
防雷等级	D级	D级	D级	D级	D级	D级
焊机参数通道存储	-	-	-	99	99	99

B焊机-奥太

MAG350/MAG500

Welding machine

机器人专用焊机，具有超短弧脉冲、熔深深、超低飞溅等焊接模式，内置数据库，可智能化参数组合操作简单，且可实现远程焊接工艺升级

Robot welding machine, with ultra-short arc pulse, deep melting, ultra-low splash Such welding mode, built-in database, intelligent parameter combination The operation is simple, and the remote welding process can be upgraded



型号 Model	MAG-350Pro Plus	MAG-350Pro Plus
额定输入电压/频率 Rated input voltage/frequency	三相380±20%/50	
额定输入容量 Rated input capacity	14	25.2
额定输入电流 Rated input current	28	38
额定输入电压 Rated input voltage	31.5	39
额定负载持续率 Duration of rated load	100	
输出空载电压 Output no-load voltage	75	
输出电流/电压范围 Output current/voltage range	60/17~350/31.5	60/17~500/39
碳钢/不锈钢焊丝直径 Carbon steel/stainless steel wire diameter	0.8/1.0/1.2	
送丝类型 Wire feed type	推丝	
气体流量 Gas flow	15~20	
焊枪冷却方式 Welding gun cooling method	气冷	气冷/水冷
外壳防护等级 Case protection class	Ip23	
绝缘等级 Insulation class	H	
外型尺寸 External dimension	63.5x32x63	63.5x32x63
重量 Weight	60	60

C焊机-松下焊机

YC-400/YC-500

Welding machine

机器人专用焊机，小电流下可以实现低飞溅短路过渡，适合打底以及大间隙的焊接。应用于厚板大熔深穿透焊以及厚板打底焊。

Robot special welding machine, small current can achieve low splash short circuit transition, Suitable for base and large gap welding.

Applied to deep penetration welding of thick plate And heavy plate bottom welding.

主要焊接方式：CO2/MAG

Main welding method: CO2/MAG



型号 Model	YC-400TX4	YC-500TX4
额定输入电压/频率 Rated input voltage/frequency	三相380±10% 50/60	
额定输入容量 Rated input capacity	13.5KVA	13.9KVA
额定输入功率 Rated input current	12.8KW	13.2KW
焊接电流范围 Welding current range	4~400A	4~500A
额定负载持续率 Duration of rated load	100	
额定空载电压 Rated no-load voltage	73	75
输出电压范围 Output voltage range	10.2~26V	10.2~30V
脉冲电流 Pulse current	4~400	4~500
送丝类型 Wire feed type	推丝	
控制方式 Control mode	数字IGBT逆变控制	
焊枪冷却方式 Welding gun cooling method	强制风冷	
外壳防护等级 Case protection class	Ip23	
绝缘等级 Insulation class	130°C (电抗器180°C)	130°C (电抗器200°C)
外型尺寸 External dimension	63.5x32x63	63.5x32x63
重量 Weight	44	70

龙门倒挂工作站 Gantry upside down workstation (支持定制 customizable)



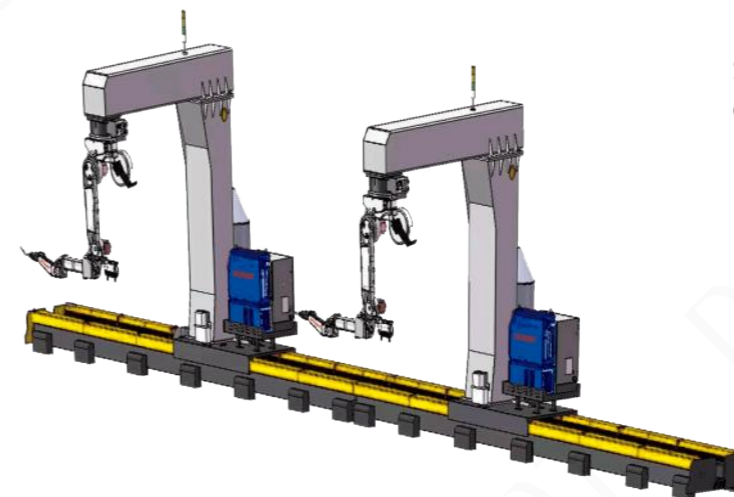
龙门倒挂工作站

Gantry upside down workstation

龙门倒挂焊接工作站是一种基于龙门式结构设计的自动化焊接设备，其核心特点是将焊接设备（如焊接机器人或专用焊机）倒置安装在龙门框架顶部，通过轨道或行走机构实现多方向运动。

Gantry upside down welding workstation is an automatic welding equipment based on gantry structure design, its core feature is to install welding equipment (such as welding robot or special welding machine) upside down on the top of the gantry frame, through the track or walking mechanism to achieve multi-direction movement.

悬臂倒挂工作站 Cantilever upside down workstation (支持定制 customizable)



悬臂倒挂工作站

Cantilever upside down workstation

悬臂倒挂焊接工作站是一种结合了悬臂式机械结构和倒挂焊接工艺的自动化焊接设备，主要用于复杂工件的精准焊接，其核心是通过悬臂的灵活运动和倒置焊接方式，优化焊接过程，提升效率和质量。

Cantilever upside down welding workstation is a combination of cantilever mechanical structure and upside down welding process of automatic welding equipment, mainly used for complex workpiece precision welding, its core is through the flexible movement of cantilever and upside down welding mode, optimize the welding process, improve efficiency and quality.

双机联动工作站 Double robot linkage workstation (支持定制 customizable)

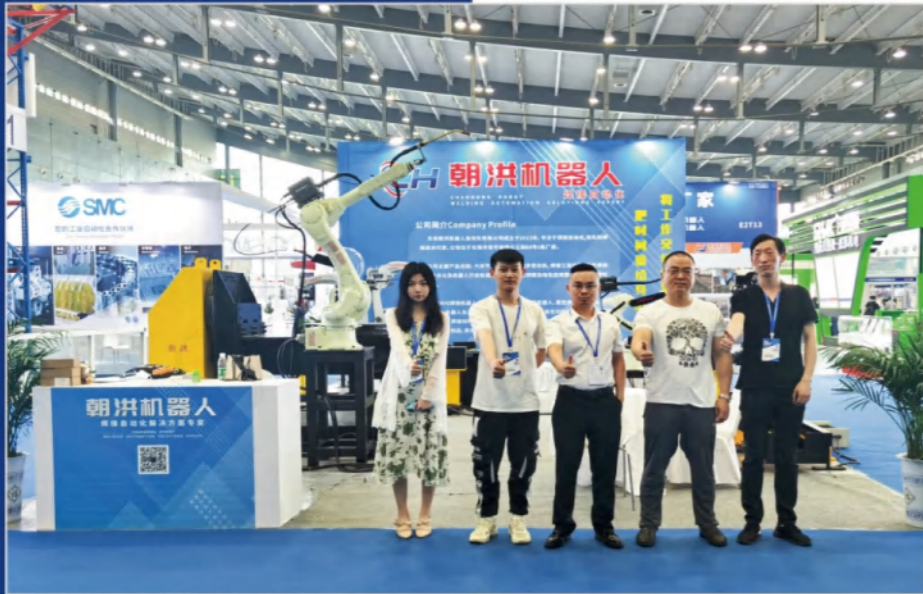
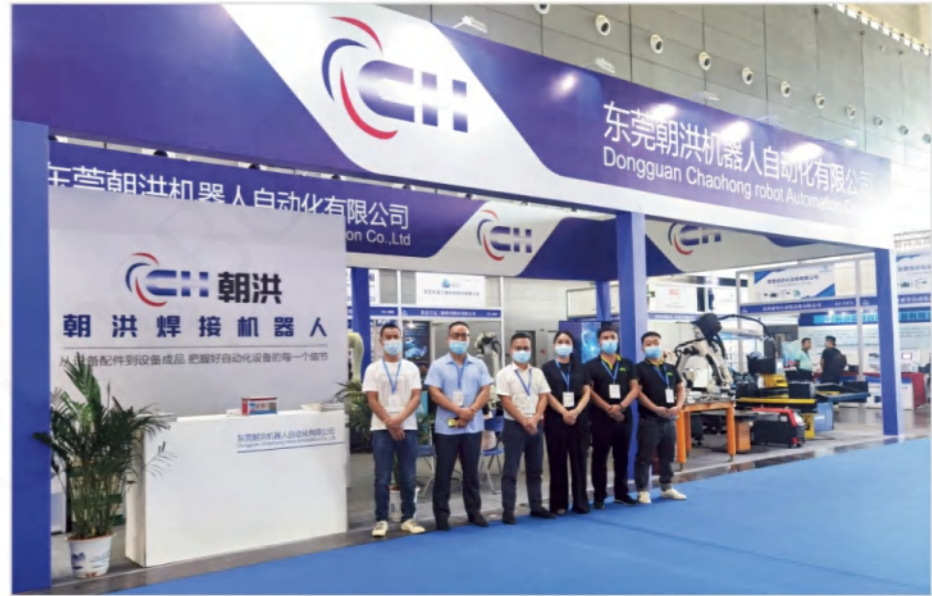
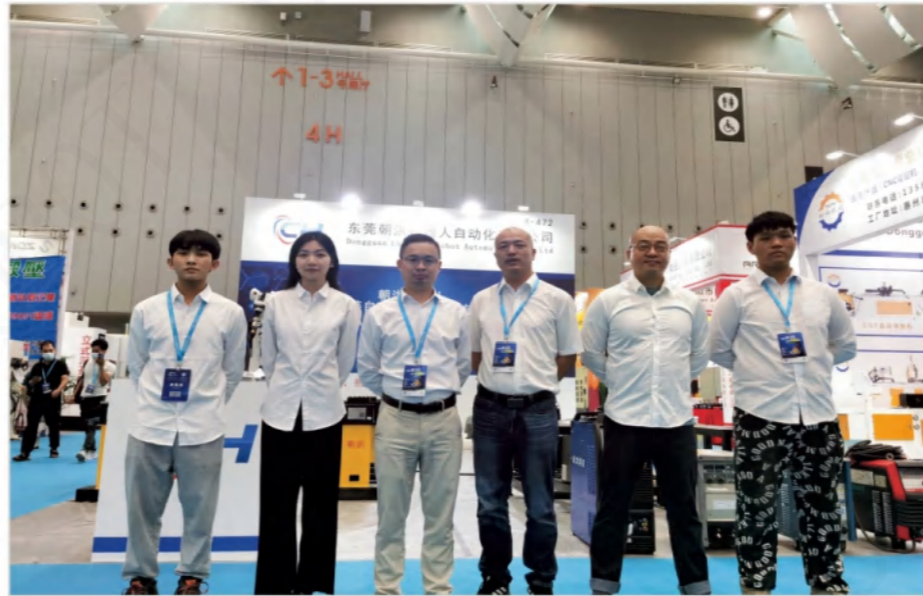


双机联动工作站

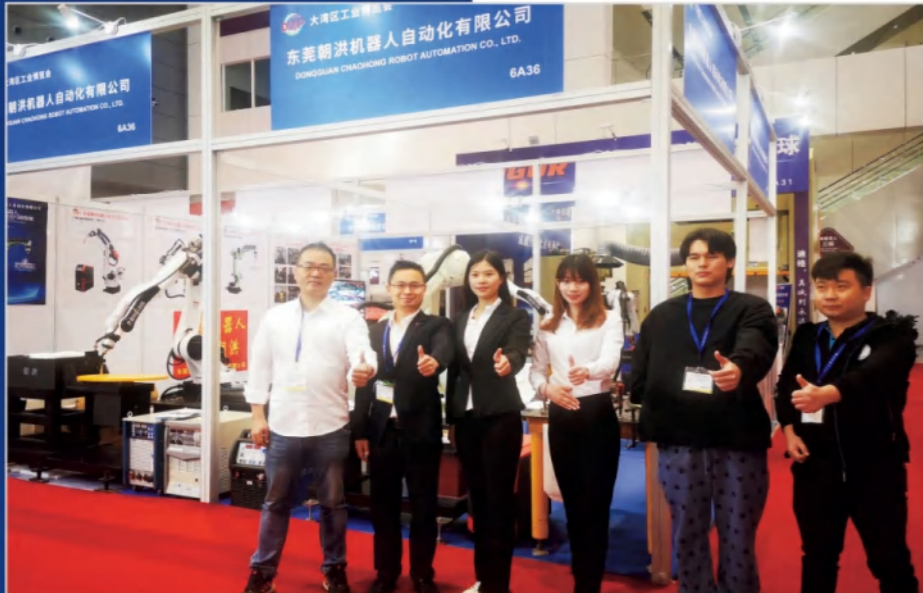
Double robot linkage workstation

双机联动工作站是一种高度自动化的焊接解决方案，由两个工业机器人协同工作，并配备可移动的行走轨道，能够灵活适应不同工件的焊接需求。

The dual-machine linkage workstation is a highly automated welding solution that consists of two industrial robots working together and is equipped with a movable walking track that can flexibly adapt to the welding needs of different workpieces.



Exhibition
焊接机器人展会现场



客户现场案例 Customer case

