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WUXI · CHINA

罗尼威尔--高效化自动焊接装备和生产线的引领者

公司宗旨：科技创新、追求卓越、诚信经营

公司理念：我们致力于您的成功

技术服务：需求咨询、规划设计、制造服务



RONNIEWELL--The leading manufacturer of automatic welding equipment and production line

Company aim: Technical innovation; Excellence pursuit; Faithful business

Company philosophy: We are working for your successes;

Technical service: Demand consulting; Planning programming; Manufacturing service



**PIPE FACTORY PREFABRICATION
WELDING PRODUCTION LINE**
筒体工厂化预制焊接生产线

04-14

EDGE-MILLING MACHINE
铣边机

46

**PIPING PREFABRICATION
PRODUCTION LINE**
管道工厂化预制焊接生产线

15-21

CNC CUTTING MACHINE
数控切割机

47-48

C & B WELDING MANIPULATOR
焊接操作机

22-30

ROBOT WELDING STATION
机器人焊接工作站

49-50

WELDING ROTATOR
焊接滚轮架

31-40

H BEAM STEEL PRODUCTION LINE
H型钢生产线

51-52

WELDING POSITIONER
焊接变位机

41-45

BEVELLING MACHINE
坡口机

53-54



陆地风电塔筒
Land wind tower



海洋风电塔筒
Offshore wind tower



石油化工塔器
Petroleum chemical tower



海洋平台管桩
Offshore platform pile

基于多年来倾力推动中国自动化焊接装备技术革新和进步的强大技术原创力；

Based on years of effort to promote China automated welding equipment and technology innovation and technological advancement powerful originality;

基于多年来应用推广新型焊接工艺技术的成功经验；

Based on many years of successful experience in promotion of new welding technology;

基于多年来对大型管类结构生产线整厂设计制造服务能力；

Based on many years of design and manufacturing service capability on large pipe production line whole plant;

基于多年来对工艺管道生产线整厂设计制造服务能力；

Based on many years of design and manufacturing service capability on pipeline production line whole plant;

基于多年来沉淀积累的丰富焊接应用技术和工艺服务能力；

Based on years of rich capabilities in welding technology application and technology service;

基于完善的全球代理商体系及完备全球服务能力；

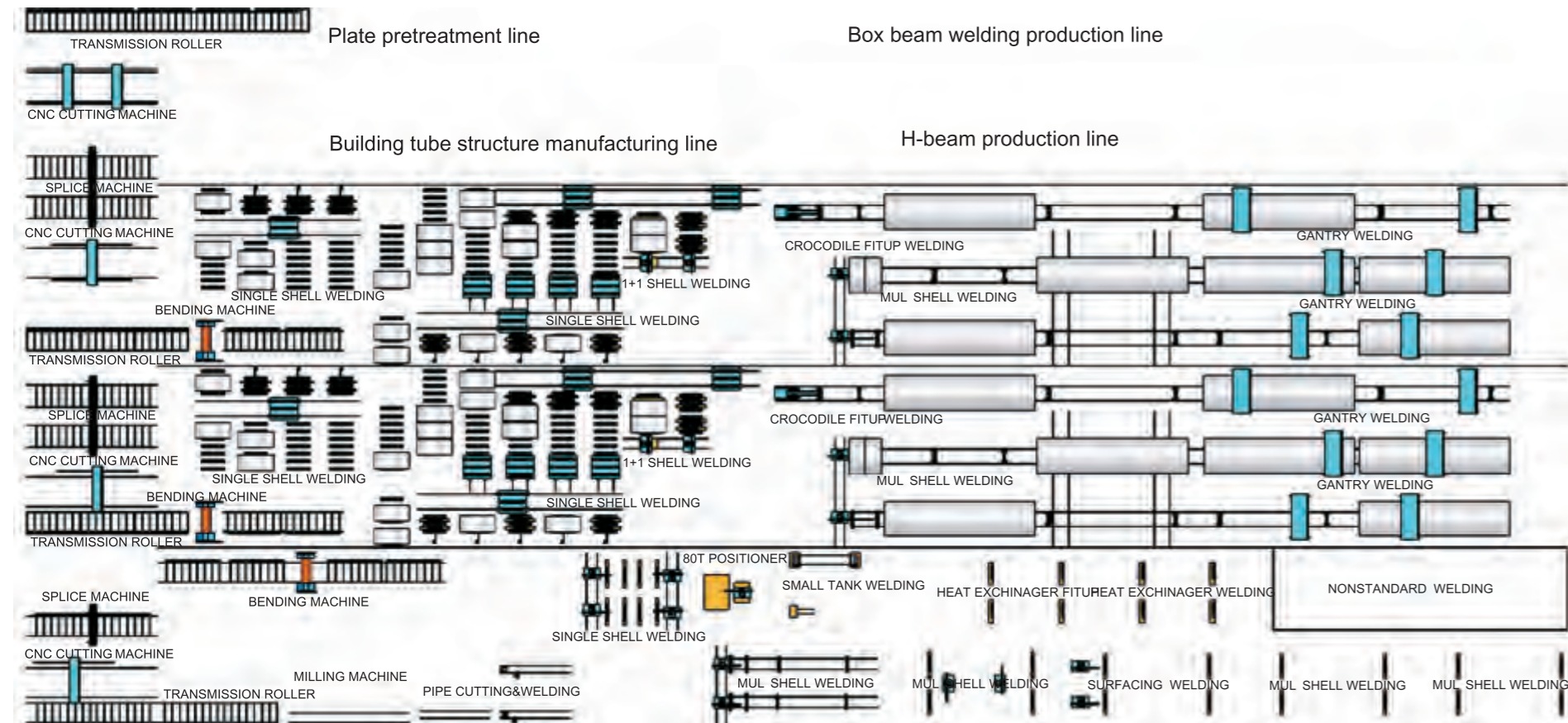
Based on perfect global agent system and global service capabilities;

为国内外广大客户提供管道、钢结构、管类结构、风电塔筒、压力容器整厂解决方案。

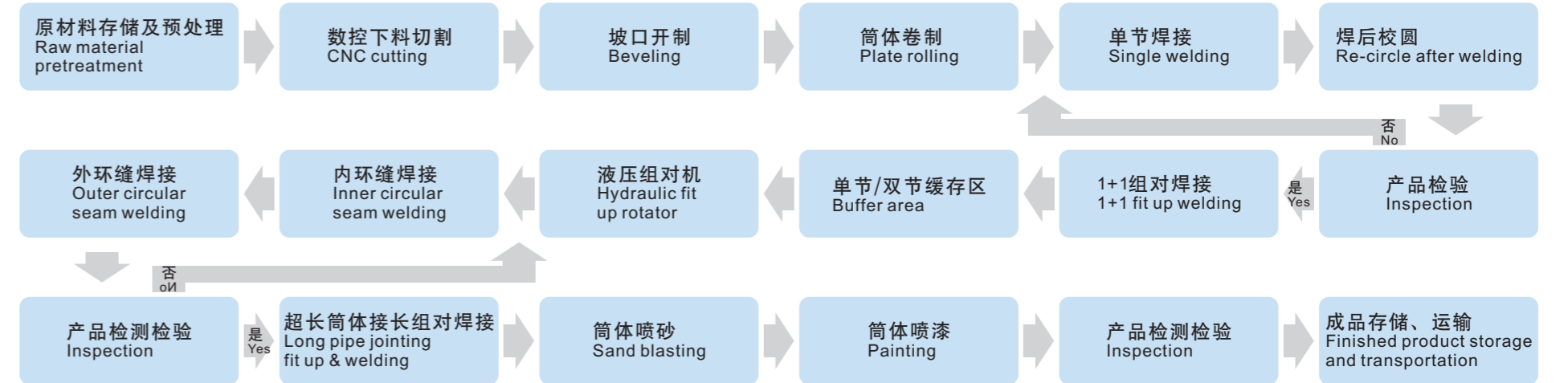
Provide customers a complete plant solution, industries range including pipeline, steel structure, pipe structure, wind tower, pressure vessel, etc.

为国内外客户提供整厂焊接生产线设计、规划、制造及服务。

Provide customers a complete plant solution, welding production line design, planning programming, manufacturing, and service.



筒体焊接生产线概要工艺流程 Pipe welding production line craftwork flow



CNC火焰/等离子切割机下料
CNC flame/plasma cutting



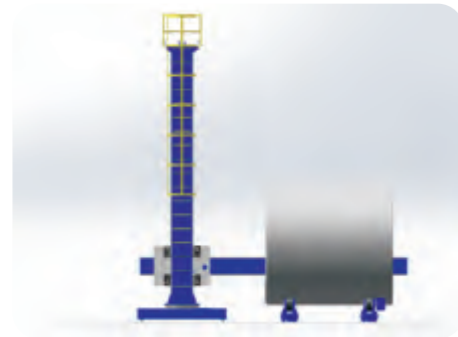
双头高速铣边机
开制坡口
Double head high speed edge milling machine

单节筒体内外纵缝焊接工作站 Single pipe inner & outer longitudinal seam welding station

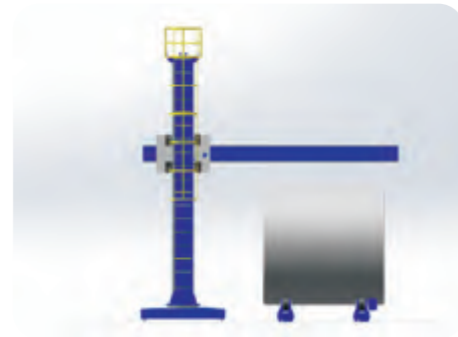
主要设备: LH系列焊接操作机、HGK系列焊接滚轮架
Main equipment: LH series C&B welding manipulator, HGK series welding rotator



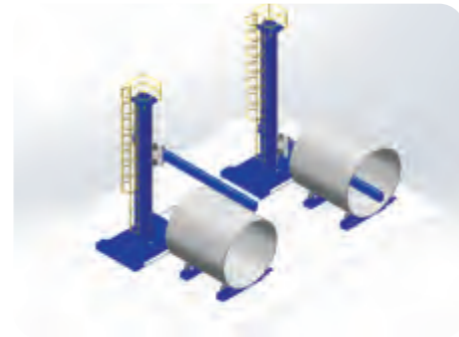
A、操作机+滚轮架
A、C&B+ Rotator



B、焊接内纵缝
B、Inner longitudinal seam welding



C、焊接外环缝
C、Outer longitudinal seam welding



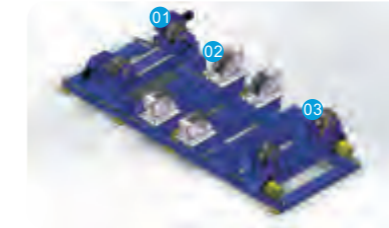
D、单节筒体内外纵缝焊接工区
D、Longitudinal seam welding station



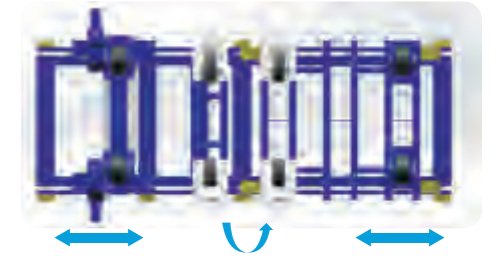
可采用GMAW/STT进行打底焊接
Can use GMAW/STT for backing welding
采用单丝或者双丝SAW焊接工艺
Can use single wire or tandem SAW welding
操作机进行内外纵缝的焊接作业
C&B welding inner & outer seams
滚轮架为筒体平稳旋转提供动力
Rotator turning the pipe
有锥度的筒体可用丝杆滚轮架调节
It can use screw adjustable rotator for the conic pipe
可选配焊剂回收及CCD视频监控
Flux recycle unit, CCD video surveillance for optional

1+1双节筒体组对焊接工作站 1+1 two pipes fit up & welding station

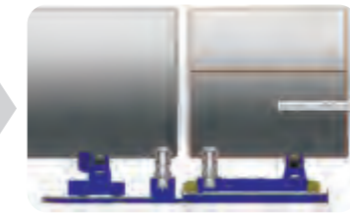
主要设备: LH系列焊接操作机、HGK系列组对焊接滚轮架
Main equipment: LH series C&B, HGK series fit up welding rotator



- 01 电动移动滚轮架
Power rotator
- 02 液压组对滚轮架
Hydro fit up rotator
- 03 从动滚轮架
Idler rotator



A、第一个单节上料
A、Load No.1 pipe



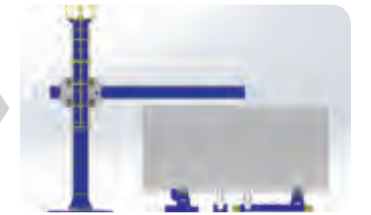
B、第二个单节上料
B、Load No.2 pipe



C、1+1组对完成
C、1+1 finish fit up



D、内环缝焊接
D、Inner circular seam welding



E、外环缝焊接
E、Outer circular seam welding



采用单丝或者双丝SAW焊接工艺
Can use single wire or tandem SAW welding
操作机进行内外环缝的焊接作业
C&B welding inner & outer seams
滚轮架为筒体平稳旋转提供动力
Rotator turning the pipe
4只液压顶升滚轮配合完成1+1组对
4 sets hydro lifting rollers coordinate to finish 1+1 fit up
1只电动移动和1只液压移动滚轮座适应筒体长度变化
1 pc motorized travel & 1 pc hydro roller seat to suit different length pipe

多节筒体组对焊接工作站 Several pipes fit up & welding station

主要设备: LH系列焊接操作机、HGK/Z系列组对/焊接滚轮架
Main equipments: LH series C&B, HGK/Z series fit up/welding rotator

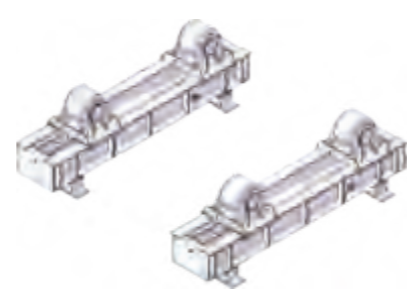
**多节筒体组对焊接工作站-YG系列组对机
Several pipes fit up & welding station-YG series fit up shift rotator**

YG系列液压组对机具有YG series fit up shift rotator;

- 1、焊缝两端的筒体都有多自由度调节 Welding seam two ends can be easy adjusting;
- 2、组对更加灵活, 适应焊缝变化能力更强 More flexible for fit up, and suit different welding seam;
- 3、液压V型滚轮更加便于筒体的轴向运动 Hydro lift V-roll more convenient for pipe move on radial;
- 4、针对薄壁、大直径管段的组对生产效能进一步提升 Can greatly improve the efficiency of thin wall and large dia. pipe fit up.



YG系列液压组对机
YG series fit up shift rotator



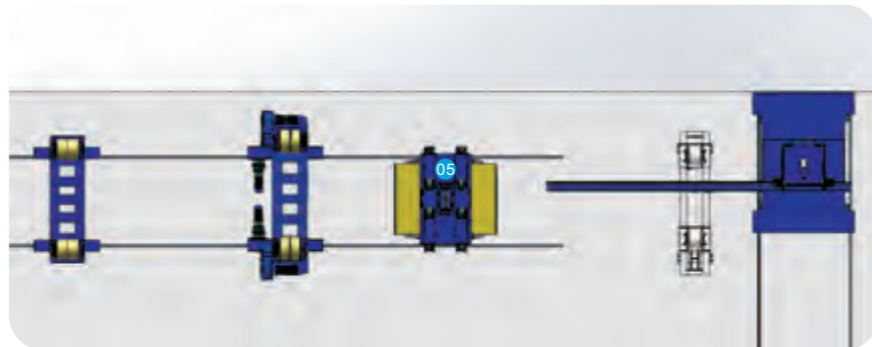
HGKZ系列液压组对机
HGKZ series fit up rotator



01 电动移动滚轮架
Motorized travel rotator

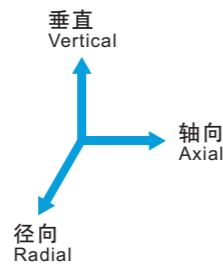
02 YG液压组对滚轮架
YG hydro shift rotator

03 HGK组对滚轮架
HGK fit up rotator

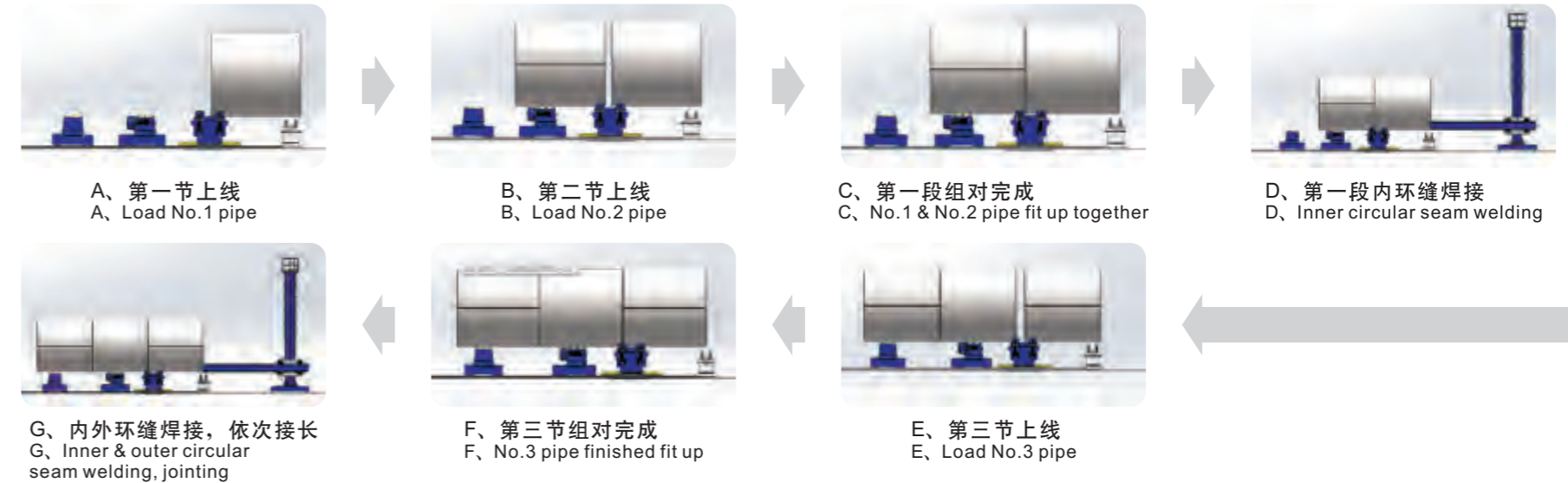


04 焊接操作机
C&B

05 4只径向液压顶升滚轮 4 sets radial cylinder
1只V型垂直液压顶升滚轮 1 set vertical lifting V roll
1只轴向伸缩液压底座 1 set radial hydro seat



多节筒体组对焊接工作站-YG系列组对机 Several pipes fit up & welding station-YG series fit up shift rotator



01 4只径向油缸
4 sets radial cylinder

02 1只垂直油缸
1 set vertical cylinder

03 1只轴向油缸
1 set radial cylinder

04 HGKZ液压组对滚轮架
HGKZ hydro fit up rotator

05 YG液压组对滚轮架
YG hydro shift rotator

06 HGK电动行走焊接滚轮架
HGK Motorized travel welding rotator

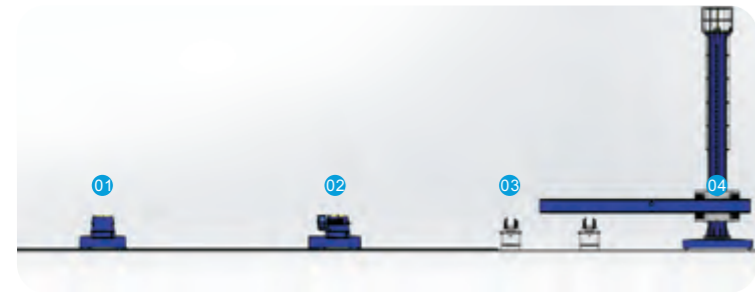


组对完成后由操作机焊接内外环缝
Welding inner & outer circular seam after finish fit up together

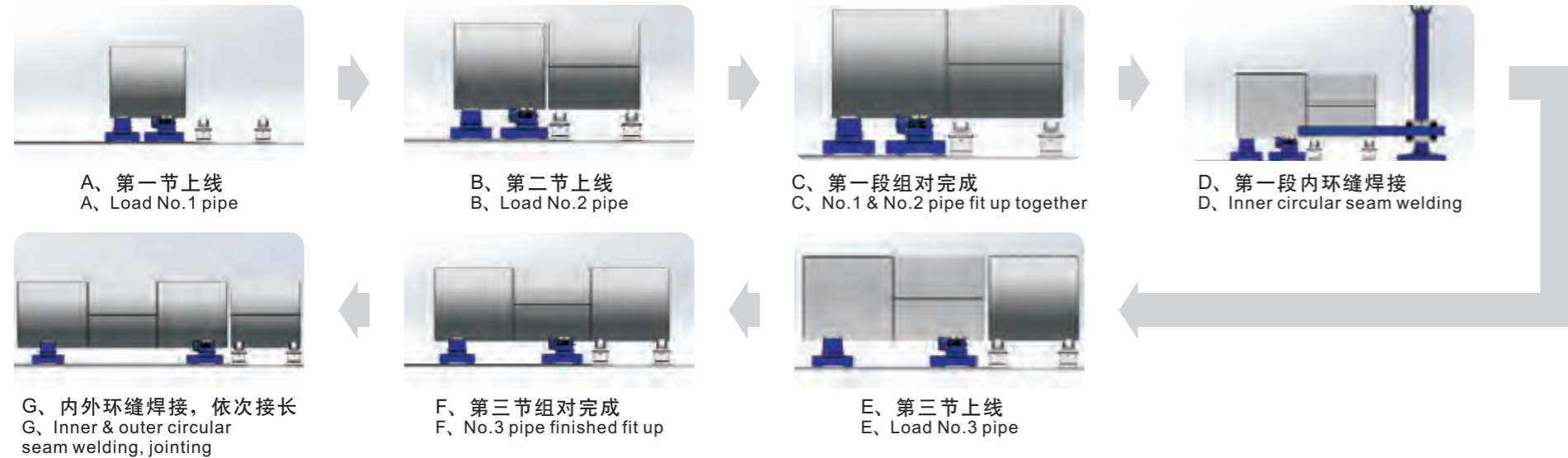
多节筒体组对焊接工作站-HGKZ系列组对机
Several pipes fit up & welding station-HGKZ series fit up rotator

HGKZ系列液压组对机具有 HGKZ series hydro fit up rotator;

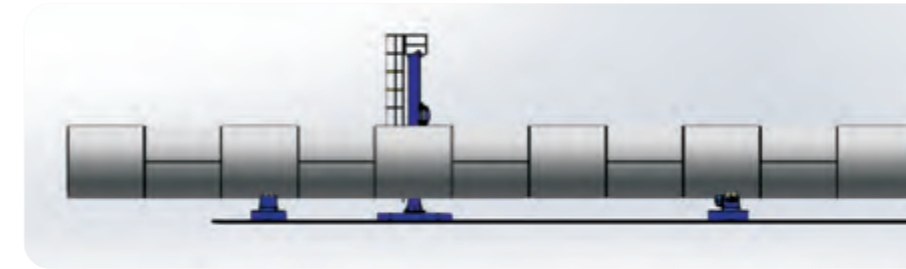
- 1、滚轮可选水平推动或径向推动两种模式 Roller can move on horizontal or radial;
- 2、较大油缸行程适应更大管径变化 Large cylinder stroke can suit different dia. pipe;
- 3、结构简洁，操作灵活，效能高，便于维护 Simple structure, easy operation, high efficiency, easy for maintenance.



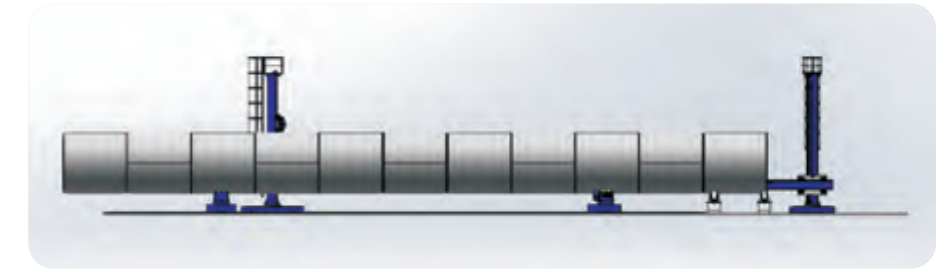
- 01 从动行走焊接滚轮架
Idler welding rotator
- 02 电动行走焊接滚轮架
Power welding rotator (motorized travel)
- 03 液压组对滚轮架
Hydro fit up rotator
- 04 焊接操作机
C&B



多节筒体组对焊接工作站-HGKZ系列组对机 Several pipes fit up & welding station-HGKZ series fit up rotator



外环缝焊接
Outer circular seam welding



液压组对内外环缝焊接生产线
Hydro fit up, inner & outer circular seam welding production line



液压组对滚轮架
Hydro fit up rotator



内环缝焊接操作机
Inner circular seam welding manipulator



双丝双弧SAW焊接工艺
Tendam SAW welding

多节筒体组对焊接工作站 Several pipes fit up & welding station



外环缝焊接流水线
Outer circular seam welding line



外环缝焊接操作机
Outer circular seam welding manipulator



150T电动行走滚轮架
150T Motorized travel welding rotator



200T电动行走滚轮架
200T Motorized travel welding rotator



300T电动行走滚轮架
300T Motorized travel welding rotator



500T自调式滚轮架
500T Self-alignment welding rotator

筒体喷砂喷漆 Sand blasting & Painting

喷砂滚轮架采用进口高强聚氨酯轮支撑工件，使工件在喷砂过程中表面不易受损。
Sand blasting rotator use the high quality PU roller for supporting workpiece, which can keep the surface from damage during sand blasting.



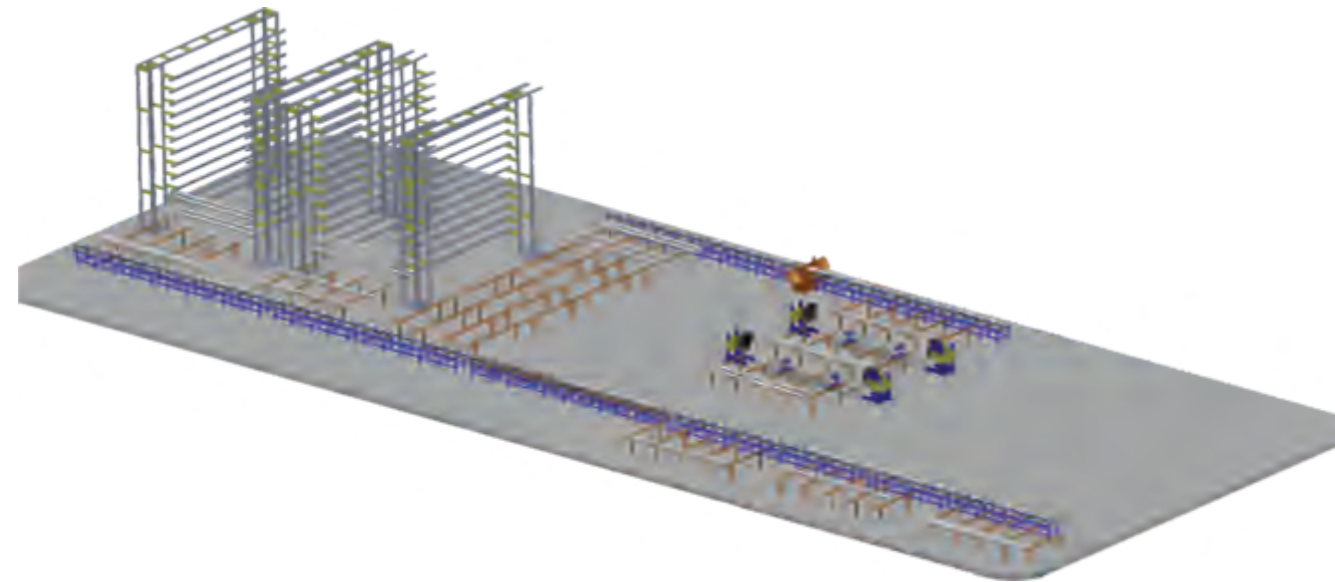
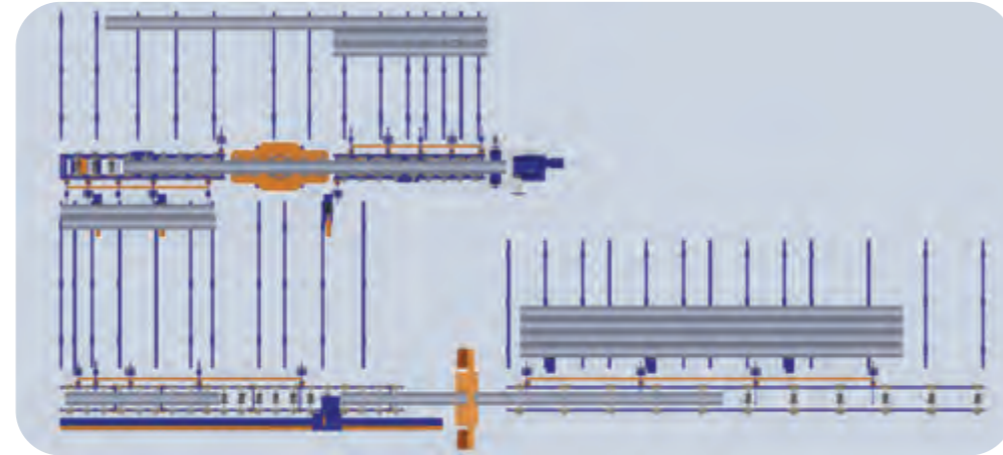
喷漆时工件两端安装假法兰，配套使用特制的喷漆滚轮架，能保证工件表面油漆的完整。
It will install fake flange at the two ends of the workpiece when painting, working with special made painting rotator, which can guarantee the complete surface paint.



管道数字自动化工厂 Pipeline digital automatic factory

管道数字自动化工厂包括从管道的预处理、存储、上线、切割、坡口、组对、自动焊接到后续处理的一套完整的生产工艺装备。在管道工厂自动化管理软件系统的统一协调下对生产线的各个环节进行生产任务分配、管理。通过无线WIFI及中继站可对自动工厂内的所有焊接电源进行参数设定、修改、监控、报警、停机等操作，并可实时记录焊接规范，保证焊接在规范允许下正常运行。

Pipeline digital automatic factory include a complete production technology and equipments, such like piping pre-treatment, storage, on-line, cutting, beveling, fit-up, automatic welding and subsequent processing. Automation management software system, Harmonization of all aspects of the production line and the production task allocation and management. Via wireless WIFI and WIFI signal transfer, it can operate all the welding powers in the automaction factory, such as parameter setting, revise, monitor, alarm, stop, and others. Welding specifications can be recorded in real time, Ensure the welding operation under the permission of specification.



无锡罗尼威尔机械设备有限公司基于多年从事工厂自动化焊接切割装备和生产线的成功经验，在不断吸收总结、沉淀升华的过程中对管道工厂自动化预制生产线形成了自己的理念和实施手段。并结合国际上最新型的管道加工技术和自动化工厂实施理念，为广大客户提供自动化工厂、数字化控制、生产效率更高、产品质量更加稳定的整厂解决方案。

Wuxi Ronniwell Machinery Co., Ltd. Based on many years engaged in welding and cutting equipment, factory automation and production line of successful experience, constantly absorbing summary, the precipitation process of sublimation process pipe factory automation for welding and cutting production line formed our own ideas and means of implementation. Combined with the latest international concept of pipeline technology and automatic factory, provide our customers complete solutions for automated factory, digital control, higher production efficiency, product quality and more stable.

管道工厂化预制装备及生产线整厂解决方案工艺流程 Pipeline prefabrication factory complete layout and process solution

管子切断、坡口 Pipe cutting, beveling

管子预处理 Pipe pretreatment	定长切割 Length measuring cutting
管子上线 Pipe on-line	开制坡口 Beveling

管子组对、焊接 Pipe fit-up, welding

自动焊接填充盖面 Automatic welding filling and capping	
机械化组对 Mechanical fit-up	手工/自动焊打底 Manual/automatic TIG welding



2"-24"管子滚床式二轴/五轴数控火焰/等离子切割坡口生产线
2"-24" pipe roller type 2 axis/5 axis CNC flame/plasma cutting beveling production line

2"-24"管子卡盘式五轴/六轴数控火焰/等离子切割坡口生产线
2"-24" pipe chuck type 5 axis/6 axis CNC flame/plasma cutting beveling production line

2"-24"管子切断/坡口一体机生产线
2"-24" pipe cutting/beveling integrating machine production line

适应碳钢、不锈钢、合金钢等不同材质的自动TIG、MIG、SAW、脉冲MIG等多样化焊接装备和工艺服务。
Suitable for carbon steel, stainless steel, alloy steel and other materials of different automatic TIG, MIG, SAW, pulsed MIG welding equipment and technology and technology services.

2"-48"管子滚床式二轴/五轴数控火焰/等离子切割坡口生产线
2"-48" pipe roller type 2 axis/5 axis CNC flame/plasma cutting beveling production line

2"-24"管子带锯床切断/高速坡口机生产线
2"-24" pipe band saw cutting/high speed beveling production line

管道切割、坡口加工装备 Pipeline cutting, beveling process equipment



数控高速带锯床切割系统

- ★设备规格: 16"; 24"; 32"
- ★适用碳钢、合金钢、低温钢、不锈钢等
- ★自动液压双边对中夹紧管子
- ★PLC控制自动定长, 精度达 ±0.5m

CNC high speed band saw cutting system

- ★Model: 16" ; 24" ; 32"
- ★Suitable material: Carbon steel, Alloy steel, low-temperature steel, SS etc.
- ★Automatic hydraulic centering and clamping pipe from two sides.
- ★PLC control length measuring, precision upto+0.5m



数控高速带锯床切割系统

- ★设备规格: PBM-16; 24; 32
- ★适用碳钢、合金钢、不锈钢、低温钢等
- ★坡口型式U、X、V、双V型
- ★自动液压双边对中夹紧管子
- ★PLC控制, 通过程序设定完成坡口加工

CNC high speed beveling system

- ★Model: PMB-16; 24; 32
- ★Suitable material: Carbon steel, Alloy steel, low-temperature steel, SS etc.
- ★Beveltype: u. X. V. double V
- ★Automatic hydraulic centering and clamping pipe from two sides.
- ★PLC control, realize bevel process through procedure setting



数控管道切断/坡口一体机系统

- ★设备规格: 6"; 8"; 16"; 24"
- ★适用碳钢、合金钢、不锈钢、低温钢等
- ★PLC控制自动定长, 精度达 ±0.5m
- ★管道切断坡口同时加工
- ★配套进出料物流系统可以组成数控切断坡口生产线

CNC Pipeline cutting/beveling integrating machine system

- ★Model:6"; 8"; 16"; 24"
- ★Suitable material: Carbon steel, Alloy steel, low-temperature steel, SS etc.
- ★PLC control length measuring, precision upto+0.5m
- ★Pipeline cutting and beveling at the same time
- ★Equipped with feed-in and feed-out logistic system to be a CNC cutting beveling production line

管道切割、坡口加工装备 Pipeline cutting, beveling process equipment



数控滚床式火焰/等离子切割坡口系统

- ★数控控制可实现管道自动定长切割、管端面坡口开制、相贯线切割坡口加工等功能
- ★配套进出料物流系统组成数控生产线
- ★采用火焰/等离子, 数控2轴/5轴数控系统
- ★适用24" 36" 48"碳钢、不锈钢、合金钢
- ★管道专用控制系统及软件

CNC roller type flame/plasma cutting beveling system

- ★CNC control system can realize the functions as pipeline automatic length measuring cutting, pipe end beveling, intersecting cutting and beveling, and so on
- ★Equipped with feed-in and feed-out logistic system to be a CNC control production line
- ★Suitable for flame/plasma, CNC 2 axis/5 axis CNC system
- ★Suitable for dia.:24" 36" 48" CS, SS, Alloy steel
- ★Pipeline special control system and software



数控卡盘式火焰/等离子切割坡口系统

- ★数控控制实现管子的定长切断、坡口加工、相贯线切割等功能
- ★适用16" 24" 36" 48" 碳钢、不锈钢、合金钢等
- ★PLC或者工控机控制, 2轴, 3轴, 4轴, 5轴, 6轴等
- ★管道专用控制系统及软件

CNC chuck type flame/plasma cutting beveling system

- ★CNC control system can realize the functions as pipeline automatic length measuring cutting, pipe end beveling, intersecting cutting and beveling, and so on
- ★Suitable for dia.:24" 36" 48" CS, SS, Alloy steel
- ★PLC or CNC control system, 2 axis, 3 axis, 4 axis, 5 axis, 6 axis, etc.
- ★Pipeline special control system and software



机器人火焰/等离子切割坡口系统

- ★机器人柔性控制系统
- ★适用碳钢、不锈钢、合金钢等材质
- ★配套进出料物流系统组成机器人物流切割坡口生产线
- ★适用24" 36" 48" 管道切断、坡口及马鞍口、直管切割

Robot flame/plasma cutting beveling system

- ★Robot flexible control system
- ★Suitable for dia.:CS, SS, Alloy steel
- ★Equipped with feed-in and feed-out logistic system to be a Robot logistic cutting and beveling production line
- ★Suitable for dia.:24" 36" 48" pipeline cutting, beveling

管道组对、焊接加工装备 Pipeline fit-up, welding process equipment

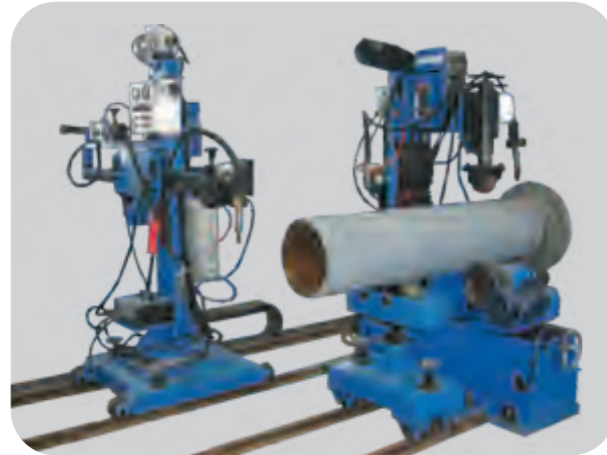


管道多功能组对机

- ★规格型号: PFFM-16"、24"、36"、48"
- ★适用碳钢、不锈钢、合金钢等材质
- ★适用于管子与法兰、弯头、三通、大小头等的机械化组对
- ★标准配备多功能法兰弯头组对机、法兰组对机、配套小车

Pipeline multi-function fit up machine

- ★Model:16"、24"、36"、48"
- ★Suitable material: Carbon steel, SS steel, Alloy steel, etc.
- ★Suitable for the mechanical fit up of pipe and flange, elbow, tee
- ★Standard equipped with multi-function flange and elbow fit up machine, flange fit up machine, and the supporting trolley

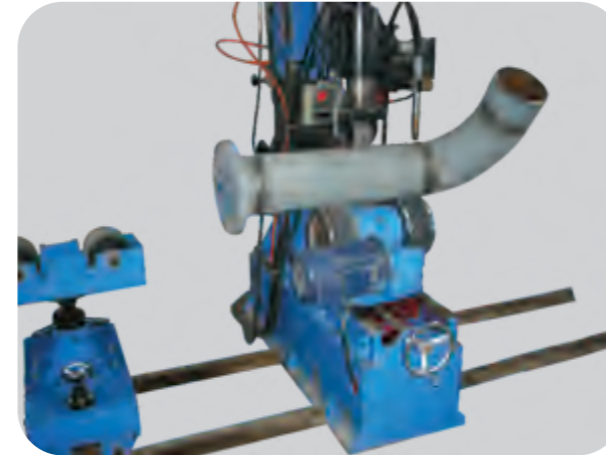


悬臂焊接操作机

- ★具备台车行走、立柱升降、横臂伸缩功能
- ★适应16"、24"、36"、48"
- ★可配备TIG、MIG、SAW等多种焊接工艺

Cantilever welding manipulator

- ★With functions as trolley travel, Boom lifting and stretch
- ★Suitable dia.:16"、24"、36"、48"
- ★Can be equipped with TIG,MIG,SAW and other welding processes



弯管焊接机(压紧式滚轮架)

- ★压紧式滚轮架结构, 有效克服回转偏心
- ★适应16"、24"、36"、48"
- ★可配备TIG、MIG、SAW等多种焊接工艺

**Elbow welding machine
(compress type rotator)**

- ★Compress type rotator structure can effectively overcome the eccentric of rotation
- ★Suitable dia.:16"、24"、36"、48"
- ★Can be equipped with TIG,MIG,SAW and other welding processes

管道组对、焊接加工装备 Pipeline fit-up, welding process equipment



管道焊接中心

- ★可升降变位机与悬臂焊接机组成管道焊接中心
- ★适应16"、24"、36"、48"
- ★可配备TIG、MIG、SAW等多种焊接工艺
- ★适应管件与管件焊接、以及管道与管件焊接

Pipeing welding center

- ★Height adjustable welding positioner and cantilever welding manipualtor composed of welding center
- ★Suitabledia.:16"、24"、36"、48"
- ★Can be equipped with TIG,MIG,SAW and other welding processes
- ★suitable for elbow and flange welding, pipe and elbow or flange welding



可倾斜压紧式焊接滚轮架

- ★适应中小直径短管与法兰、弯头对接焊接
- ★手动/电动调整管子±45°旋转, 以适合最佳焊接位置
- ★电动旋转为焊接提供良好的回转动力
- ★压紧式机构能够有效克服管子回转偏心
- ★与焊接操作组成可倾斜管子焊接中心

Tilting & compress type welding rotator

- ★Suitable for small Dia. and short pipe welding with flange or elbow
- ★Manual/motorized adjusting ±45° rotation of pipe, to fit the optimum welding position
- ★Motorized rotation provide good rotary power for welding
- ★Compress type structure can effectively overcome the eccentric of rotation
- ★Combined with welding manipulator to be a tilting type pipe welding center

管法兰自动焊系统 Pipe and flange welding system

针对造船、电力、管结构等行业需要大量焊接承插法兰的特点，我们特别开发了管法兰机械化组对、自动化内外环缝焊接系列装备并可升级为更为高效的机器人管法兰焊接工作站，可采用MIG、MAG、SAW等多种焊接工艺。

For the industries of shipbuilding, electric power, pipe construction need welding a lot of piping, We specially developed a series equipments for pipe and flange mechanical fit-up, inner and outer circular seam welding. It can be upgraded to more efficient robotic pipe and flange welding workstation, and use MIG, MAG, SAW and other welding processes.



机器人管法兰焊接工作站由物流传输系统、焊接机器人、抓取机器人、管子伺服回转系统等组成。

Robot pipe and flange welding station consists by logistic transport system, welding robot, servo rotation system, etc.



特高压管塔机器人焊接系统由焊接机器人、伺服回转变位机、辅助支撑、机器人走形及控制系统等组成。

High voltage pipe tower robot welding system consists by welding robot, servo rotation positioner, support racks, robot travel and control system, etc.

自动焊接中心 Automatic welding center



焊接中心是由焊接操作机、自动焊机和焊接滚轮架或焊接变位机配套组合而成，广泛的应用于锅炉、压力容器、石油石化、冶金建设、制冷设备、工程机械、船舶制造、电力建设等行业中各种焊缝及其他圆筒形构件的内外纵缝和环缝的焊接。

焊接操作机根据承载重量，有效伸缩、升降行程可分为轻型、中型、重型、超重型。

Welding center consists of welding manipulator, automatic SAW machine and welding turning roll or welding positioner, which is widely used in industries as boiler, pressure vessel, chemical petroleum, metallurgical construction, refrigeration, construction machinery, shipbuilding, power plant for inner and outer longitudinal welding and circumferential welding of various seams on cylindrical members. The welding manipulator could be divided into light, medium, heavy, and extra-heavy according to loading, effectively stretching and up/down stroke.

可选配功能 Options



双弧双丝埋弧焊
Tandem-twin
Submerged Arc Welding



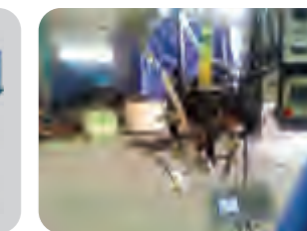
窄间隙埋弧焊
Narrow-gap
Submerged Arc Welding



配套跟踪装置
Seam Tracking unit



配套摆动装置
Oscillatir

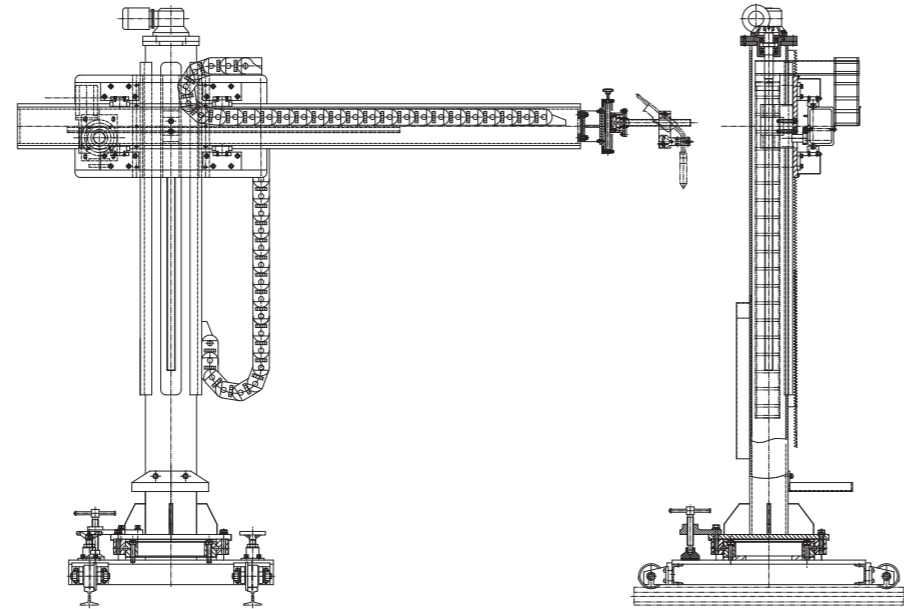


带极堆焊
Strip Surfacing



配套焊剂回收输送装置
Flux Recycle Unit

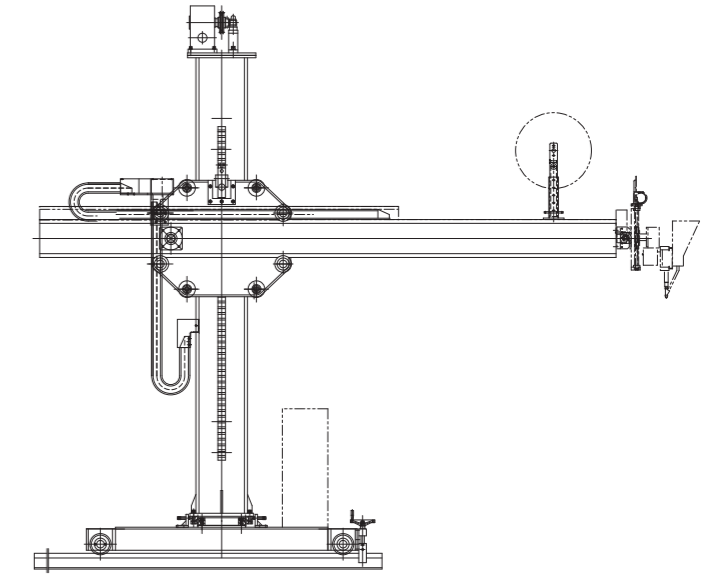
小型焊接操作机 Small Type Welding Manipulator



主要技术参数 Main technical parameter

规格型号 Model	横臂伸缩 有效行程 Boom horizontal stroke(mm)	横臂升降 有效行程 Boom vertical stroke(mm)	横臂伸缩 进给速度 Boom horizontal speed (mm/min)	横臂升降 速度 Boom vertical speed (mm/min)	横臂伸缩 电机 Boom horizontal motor power (kW)	横臂升降 电机 Boom vertical motor power (kW)	立柱回转 角度(手动) Column rotating angle (By manual)	立柱回转 锁紧 Column rotating locking method	横臂前端 最大负荷 Boom end max. loading (kg)	台车行走 速度-可选 Trolley traveling speed- Optional	台车内轨 距(mm)-可选 Rail inner span(mm)- Optional
LHS1810	1000	1000	120~1200	450	0.18	0.55	±180°	手动 By manual	50	手动 By manual	G-G600
LHS2512	1200	1700	120~1200	450	0.18	0.55	±180°	手动 By manual	50	手动 By manual	G-G600

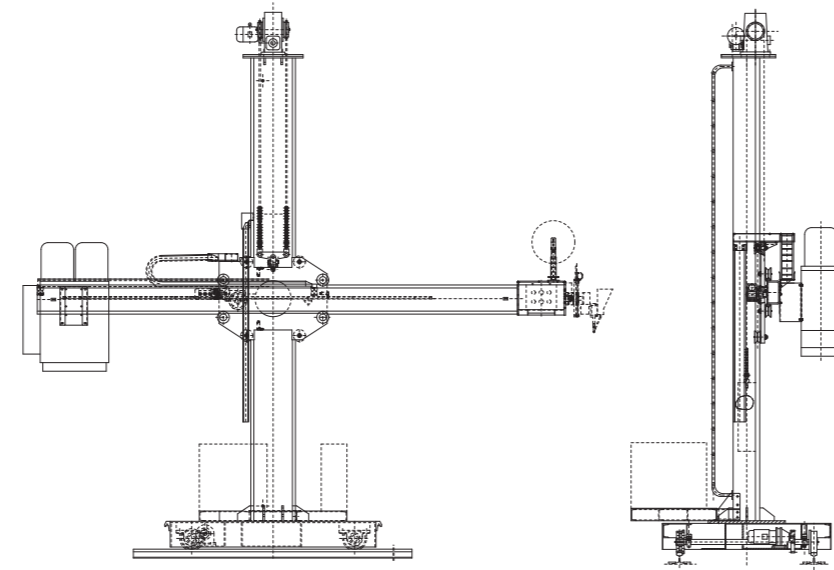
轻型焊接操作机 Light Type Welding Manipulator



主要技术参数 Main technical parameter

规格型号 Model	LHQ2020	LHQ2525	LHQ3030
结构形式 Structure	移动带回转 Travel & Rotate	移动带回转 Travel & Rotate	移动带回转 Travel & Rotate
横臂伸缩有效行程 Boom horizontal stroke(mm)	2000	2500	3000
横臂升降有效行程 Boom vertical stroke(mm)	2000	2500	3000
横臂伸缩进给速度 Boom horizontal speed(mm/min)	200~2000	200~2000	200~2000
横臂升降速度 Boom vertical speed(mm/min)	1000	1000	1000
横臂伸缩电机 Boom horizontal motor power(kW)	0.37	0.37	0.37
横臂升降电机 Boom vertical motor power(kW)	0.55	0.55	0.55
立柱回转角度 Column rotating angle	±180°	±180°	±180°
立柱回转速度-可选 Column rotating speed-Optional	手动 By manual	手动 By manual	手动 By manual
立柱回转锁紧 Column rotating locking method	手动 By manual	手动 By manual	手动 By manual
横臂前端最大负荷 Boom end max. loading(kg)	80	80	80
台车行走速度-可选 Trolley traveling speed-Optional	手动 By manual	手动 By manual	手动 By manual
台车内轨距(mm)-可选 Rail inner span(mm)-Optional	G-G1000	G-G1000	G-G1000

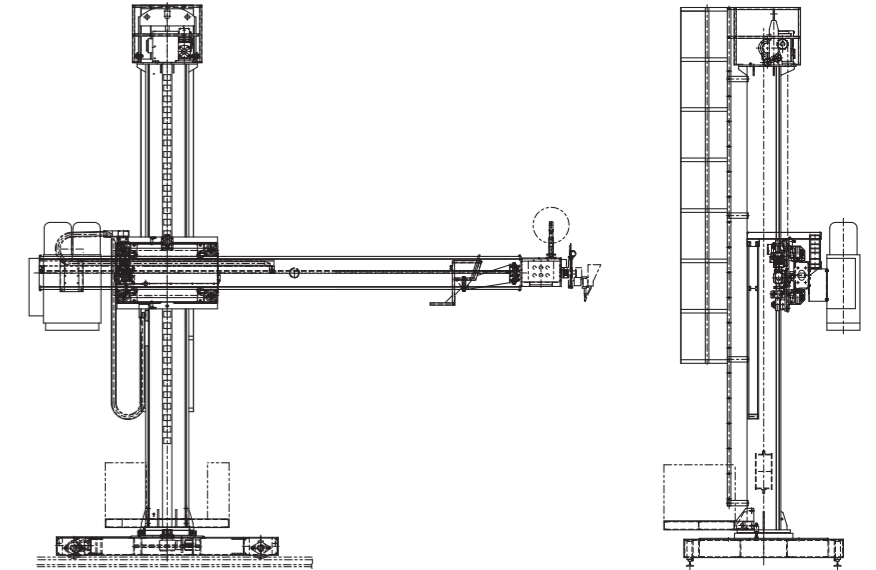
中型焊接操作机 Medium Type Welding Manipulator



主要技术参数 Main technical parameter

规格型号 Model	LHZ2020	LHZ3030	LHZ4040	LHZ5050
结构形式 Structure	移动带回转 Travel & Rotate	移动带回转 Travel & Rotate	移动带回转 Travel & Rotate	移动带回转 Travel & Rotate
横臂伸缩有效行程 Boom horizontal stroke(mm)	2000	3000	4000	5000
横臂升降有效行程 Boom vertical stroke(mm)	2000	3000	4000	5000
横臂伸缩进给速度 Boom horizontal speed(mm/min)	120~1200	120~1200	120~1200	120~1200
横臂升降速度 Boom vertical speed(mm/min)	1000	1000	1000	1000
横臂伸缩电机 Boom horizontal motor power(kW)	0.55	0.55	0.55	0.55
横臂升降电机 Boom vertical motor power(kW)	1.1	1.1	1.1	1.1
立柱回转角度 Column rotating angle	±180°	±180°	±180°	±180°
立柱回转速度-可选 Column rotating speed-Optional(r/min)	0.17	0.17	0.17	0.17
立柱回转锁紧-可选 Column rotating locking method-Optional	手动 By manual	手动 By manual	手动 By manual	手动 By manual
横臂前端最大负荷 Boom end max. loading(kg)	100	100	100	100
台车行走速度-可选 Trolley traveling speed-Optional(mm/min)	2500	2500	2500	2500
台车内轨距(mm)-可选 Rail inner span(mm)-Optional	G-G1500	G-G1500	G-G1500	G-G2000

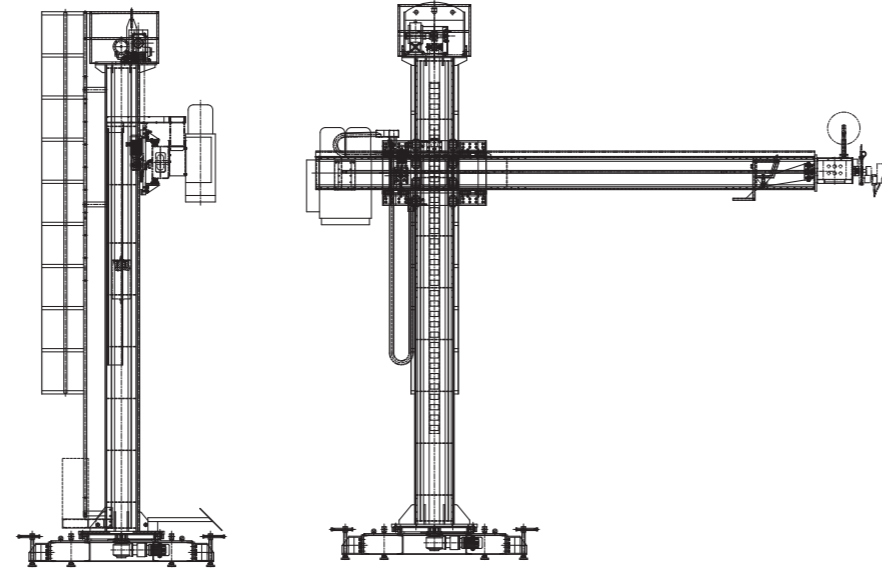
重型焊接操作机 Heavy Type Welding Manipulator



主要技术参数 Main technical parameter

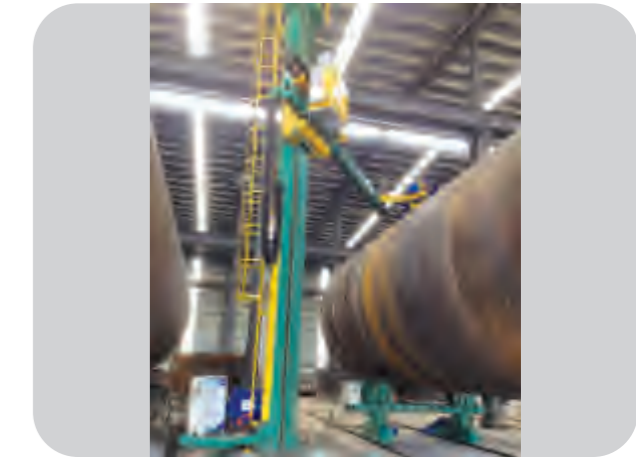
规格型号 Model	LH2020	LH3030	LH4040	LH5050	LH6060	LH7070	LH8080
结构形式 Structure	移动带回转 Travel & Rotate	移动带回转 Travel & Rotate	移动带回转 Travel & Rotate	移动带回转 Travel & Rotate	移动带回转 Travel & Rotate	移动带回转 Travel & Rotate	移动带回转 Travel & Rotate
横臂伸缩有效行程 Boom horizontal stroke(mm)	2000	3000	4000	5000	6000	7000	8000
横臂升降有效行程 Boom vertical stroke(mm)	2000	3000	4000	5000	6000	7000	8000
横臂伸缩进给速度 Boom horizontal speed(mm/min)	150~1500	150~1500	150~1500	150~1500	150~1500	150~1500	150~1500
横臂升降速度 Boom vertical speed(mm/min)	1000	1000	1000	1000	1000	1000	1000
横臂伸缩电机 Boom horizontal motor power(kW)	0.55	0.55	0.55	0.55	0.55	0.55	0.75
横臂升降电机 Boom vertical motor power(kW)	2.2	2.2	2.2	3	3	3	4
立柱回转角度 Column rotating angle	±180°	±180°	±180°	±180°	±180°	±180°	±180°
立柱回转速度-可选 Column rotating speed-Optional(rpm)	0.5	0.5	0.5	0.5	0.5	0.5	0.5
立柱回转电机-可选 Column rotating motor-Optional(kW)	0.75	0.75	0.75	0.75	0.75	0.75	1.1
立柱回转锁紧 Column rotating locking method	手动 By manual	手动 By manual	手动 By manual	手动 By manual	手动 By manual	手动 By manual	手动 By manual
横臂前端最大负荷 Boom end max. loading(kg)	300	300	300	300	300	300	300
台车行走速度-可选 Trolley traveling speed-Optional(mm/min)	3000	3000	3000	3000	3000	3000	3000
台车内轨距(mm)-可选 Rail inner span(mm)-Optional	G-G2000	G-G2000	G-G2000	G-G2000	G-G2000	G-G2500	G-G3000

超重型焊接操作机 Super Heavy Type Welding Manipulator



主要技术参数 Main technical parameter

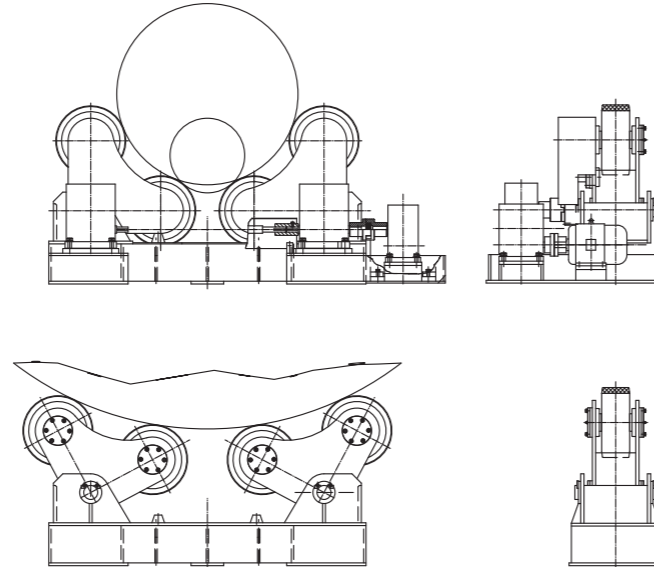
规格型号 Model	LHC2020	LHC3030	LHC4040	LHC5050	LHC6060	LHC7070	LHC8080
结构形式 Structure	移动带回转 Travel & Rotate	移动带回转 Travel & Rotate	移动带回转 Travel & Rotate	移动带回转 Travel & Rotate	移动带回转 Travel & Rotate	移动带回转 Travel & Rotate	移动带回转 Travel & Rotate
横臂伸缩有效行程 Boom horizontal stroke(mm)	2000	3000	4000	5000	6000	7000	8000
横臂升降有效行程 Boom vertical stroke(mm)	2000	3000	4000	5000	6000	7000	8000
横臂伸缩进给速度 Boom horizontal speed(mm/min)	150~1500	150~1500	150~1500	150~1500	150~1500	150~1500	150~1500
横臂升降速度 Boom vertical speed(mm/min)	1000	1000	1000	1000	1000	1000	1000
横臂伸缩电机 Boom horizontal motor power(kW)	1.1	1.1	1.1	1.1	1.1	1.1	1.1
横臂升降电机 Boom vertical motor power(kW)	3	3	3	4	4	4	4
立柱回转角度 Column rotating angle	±180°	±180°	±180°	±180°	±180°	±180°	±180°
立柱回转速度-可选 Column rotating speed-Optional(rpm)	0.25	0.25	0.25	0.25	0.25	0.25	0.25
立柱回转电机-可选 Column rotating motor-Optional(kW)	1.1	1.1	1.1	1.1	1.1	1.1	1.1
立柱回转锁紧 Column rotating locking method	手动 By manual	手动 By manual	手动 By manual	手动 By manual	手动 By manual	手动 By manual	手动 By manual
横臂前端最大负荷 Boom end max. loading(kg)	500	500	500	500	500	500	500
台车行走速度-可选 Trolley traveling speed-Optional(mm/min)	2000	2000	2000	2000	2000	2000	2000
台车内轨距(mm)-可选 Rail inner span(mm)-Optional	G-G2000	G-G2000	G-G2500	G-G2500	G-G2500	G-G3000	G-G3000





焊接滚轮架主要用于圆柱型筒体的焊接、打磨、衬胶及装配，有自调式、可调式以及平车式、倾斜式、防窜式、移动式等多种结构形式。可根据用户的需求选择结构，也可为用户设计制造各种特制专用滚轮架。

HGZ系列自调式滚轮架 HGZ Self Aligning Welding Rotator



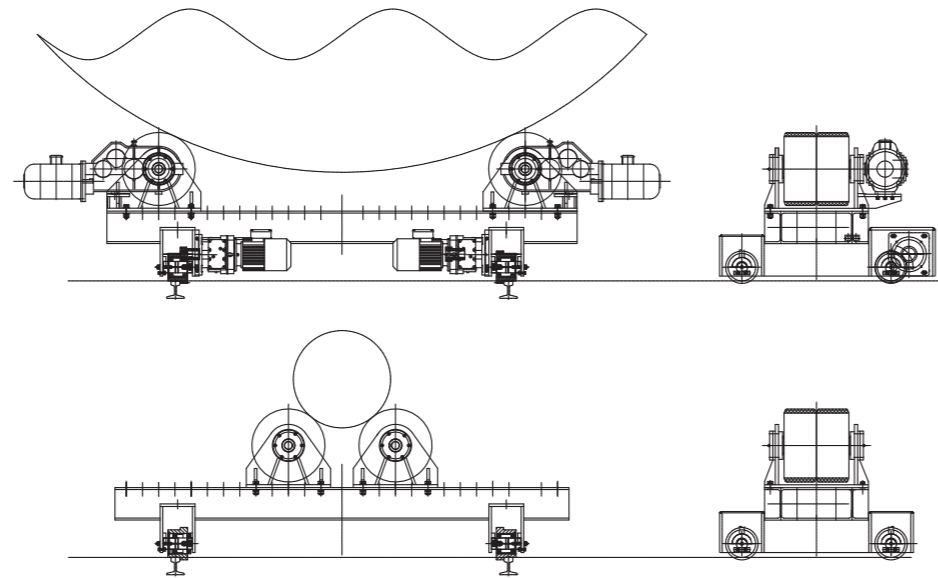
Welding rotator is mainly used to weld, burnish, assemble the cylinder-vessel, its series includes self aligning rotators, conventional rotators, trolley rotators, tilting rotators, anti drift rotators, traverse type rotators. we can provide solutions to unique welding rotator according to the customer's requirement.

主要技术参数 Main technical parameter

规格型号Model	HGZ-05	HGZ-10	HGZ-20	HGZ-40	HGZ-60	HGZ-80	HGZ-100	HGZ-150	HGZ-200	HGZ-300
额定承载 Rated loading(T)	5	10	20	40	60	80	100	150	200	300
工件范围 Vessel diameter range(mm)	250~2300	320x2800	500~3500	600~4200	750~4800	850~5000	1000~5500	1000~6500	1000~6500	1000~7000
聚氨酯轮直径与宽度 PU roller dia. And width DxW(mm)	250x100	300x120	350x140	400x180	450x180x2	450x200x2	500x240x2	500x260x2	650x325x2	/
金属轮直径与宽度 Metal roller dia. and width DxW(mm)	/	/	/	/	/	/	/	/	650x250	750x280
线速度 Linear speed(mm/min)	100~1000									
调节方式 Speed control	变频调速/VFD speed control									
电机功率 Motor power(kW)	0.75	1.1	1.5	3	4	4	5.5	5.5	2x5.5	2x5.5
行走速度-可选 Traveling speed(mm/min)-Optional	3000									
行走电机-可选 Traveling speed(mm/min)-Optional	2x0.37	2x0.55	2x0.75	2x1.1	2x1.5	2x2.2	2x3	2x3	2x4	2x5.5



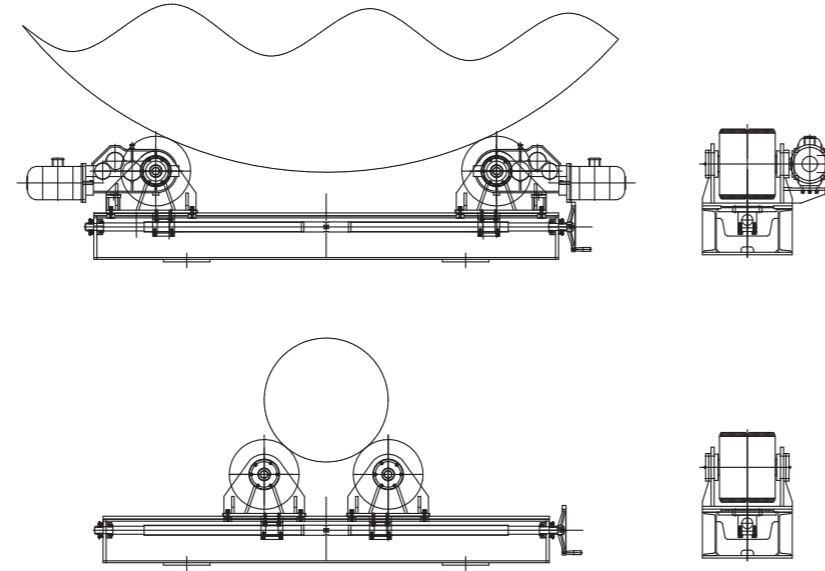
HGK系列螺钉可调式滚轮架 HGK Bolt Adjustable Welding Rotator



主要技术参数 Main technical parameter

规格型号Model	HGK-02	HGK-05	HGK-10	HGK-20	HGK-40	HGK-60	HGK-80	HGK100	HGK-150	HGK-200	HGK-300	HGK-500	HGK-800	HGK-1200
额定承载 Rated loading(T)	2	5	10	20	40	60	80	100	150	200	300	500	800	1200
工件范围 Vessel diameter range(mm)	150~2000	250~2300	320~2800	500~3500	600~4200	750~4500	800~5000	1000~5500	1000~6000	1000~6500	1000~7500	1000~8000	1500~9000	2000~10000
聚氨酯轮直径与宽度 PU roller dia. And width DxW(mm)	200x80	250x100	300x120	350x150	400x180	450x180x2	450x200x2	500x240x2	500x260x2	650x325x2	/	/	/	/
金属轮直径与宽度 Metal roller dia. and width DxW(mm)	/	/	/	/	/	/	/	/	/	650x250	750x280	900x450	900x500	1000x600
线速度 Linear speed(mm/min)	100~1000													
调节方式 Speed control	变频调速/VFD speed control													
电机功率 Motor power(kW)	2x0.18	2x0.37	2x0.55	2x1.1	2x1.5	2x2.2	2x3	2x3	2x4	2x5.5	2x5.5	2x7.5	2x11	2x15
行走速度-可选 Traveling speed(mm/min)-Optional	3000													
行走电机-可选 Traveling speed(mm/min)-Optional	2x0.18	2x0.37	2x0.55	2x0.75	2x1.1	2x1.5	2x2.2	2x3	2x3	2x4	2x4	2x5.5	2x7.5	2x11

HGKS系列丝杆可调式滚轮架 HGKS Lead Screw Adjustable Welding Rotator



主要技术参数 Main technical parameter

规格型号Model	HGKS-02	HGKS-05	HGKS-10	HGKS-20	HGKS-40	HGKS-60	HGKS-80	HGKS-100	HGKS-150
额定承载 Rated loading(T)	2	5	10	20	40	60	80	100	150
工件范围 Vessel diameter range(mm)	150~2000	250~2300	320~2800	500~3500	600~4200	750~4500	80~5000	1000~5500	1000~6000
聚氨酯轮直径与宽度 PU roller dia. And width DxW(mm)	200x80	250x120	300x140	350x150	400x180	45x180x2	450x200x2	500x240x2	500x260x2
金属轮直径与宽度 Metal roller dia. and width DxW(mm)	/	/	/	/	/	/	/	/	/
线速度 Linear speed(mm/min)	100~1000								
调节方式 Speed control	变频调速/VFD speed control								
电机功率 Motor power(kW)	2x0.18	2x0.37	2x0.55	2x1.1	2x1.5	2x2.2	2x3	2x3	2x4
滚轮中心距调节方式 Roller center distance adjust way	丝杆可调 Lead screw adjust								
丝杆电机功率-可选 Screw motor power(kW)-Optional	/	/	/	0.75	1.1	1.5	2.2	3	3
行走速度-可选 Traveling speed(mm/min)-Optional	3000								
行走电机-可选 Traveling motor(kW)-Optional	/	/	2x0.55	2x0.75	2x1.1	2x1.5	2x2.2	2x3	2x3



组对滚轮架 Fit up Rotator



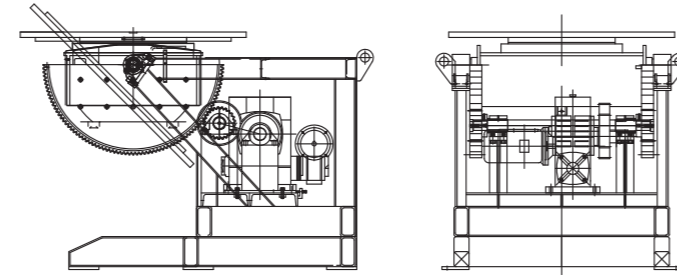


特制滚轮架 Special Ordered Welding Rotator



焊接变位机一般由工作台回转机构和翻转机构组成，通过工作台的升降，翻转和回转使固定在工作台上的工件达到所需的焊接，装配角度，工作台回转为变频无级调速，可得到满意的焊接速度。

由于偏心距和重心距的原因，对工件较长和重心位置偏移较多的工件，应选择稍大一点的型号。标准型焊接变位机不能满足所有工件，选择时务请提供需加工工件的形状及重量，以及加工工艺。本公司会提供出合适的方案作参考。



Welding positioner is mainly composed of worktable revolving unit and tilting unit. By means of worktable elevation, work-piece fixed on the worktable can be placed to ideal position for welding and assembly, speed of worktable revolving is controlled invariably and continuously with inverter, attaining satisfactory welding speed.

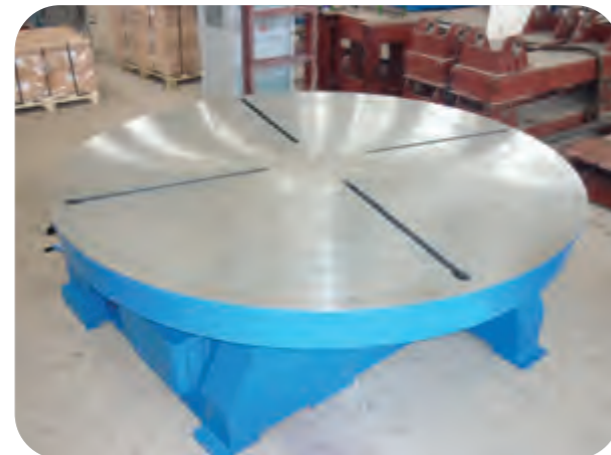
For the reason of eccentric-distance and gravity-center-distance, slightly higher model should be selected for longer work-piece and work-pieces of which gravity-center has greater offset. If standard welding positioner can not meet requirement for all work-pieces, be sure to offer us shape, weight and machining technology of work-piece so we can furnish suitable proposal for your choice.

主要技术参数 Main technical parameter

规格型号 Model	ZHBJ-01	ZHBJ-03	ZHBJ-06	ZHBJ-12	ZHBJ-30	ZHBJ-50	ZHBJ-100	ZHBJ-150	ZHBJ-200	ZHBJ-300	ZHBJ-500
额定承载 Rated loading(kg)	100	300	600	1200	3000	5000	10000	15000	20000	30000	50000
工作台D Worktable dia.(mm)	Φ400	Φ600	Φ1000	Φ1200	Φ1400	Φ1500	Φ1800	Φ2000	Φ2200	Φ4000	Φ4000
回转速度 Rotating speed(rpm)	0.4~4	0.15~1.5	0.11~1.1	0.11~1.1	0.11~1.1	0.05~0.5	0.03~0.3	0.03~0.3	0.03~0.3	0.02~0.2	0.02~0.2
调速方式 Speed control	回转变频调速/VFD control for rotation speed										
翻转速度 Overturning speed(rpm)	手动 By manual	手动 By manual	1.1	0.4	0.23	0.2	0.14	0.14	0.14	0.1	0.1
翻转角度 Overturning angle(°)	0°~90°	0°~90°	0°~90°	0°~120°	0°~120°	0°~120°	0°~120°	0°~120°	0°~120°	0°~135°	0°~135°
回转电机功率 Rotating motor power(kW)	0.12	0.18	0.55	0.75	1.5	2.2	3	4	5.5	7.5	11
翻转电机功率 Overturning motor power(kW)	/	/	0.75	1.5	2.2	3	4	5.5	7.5	2x5.5	2x7.5
最大偏心距 Max eccentricity distance(mm)	100	100	150	200	200	200	200	200	200	250	250
最大重心距 Max gravity center distance(mm)	150	150	200	250	300	300	400	500	600	630	800
台面T型槽数量 Worktable T slot quantity	4	4	4	6	6	6	6	6	6	6	6







我公司生产的XB-6, XB-9, XB-12系列铣边机与传统铣边机相比, 其导轨安装形式为可拆装式, 并通过热处理, 床身结构更合理, 铣削头运行更平稳可靠, 其进给系统与返程系统完全独立, 返程速度快、效率高、铣刀盘的角度调整方便, 定制刀盘与标准刀盘可互换, 是传统铣边机的更新换代产品。

The XB-6. XB-9. XB-12 edge-milling machine produced by our company has advantages as follows. dismantle style rail, reasonable bed structure thru heat-treatment, stable and reliable running of facer, independent feeding system and returning unit, fast returning, high efficiency, convenient adjustment of facer angle, interchangeable custom-made facer unit and standard facer unit, which is substitute of conventional product.



主要技术参数 Main technical parameter

规格型号Model	XB-6	XB-9	XB-12
铣削角度 The angle of milling	0~45°	0~45°	0~45°
加工钢板厚度 The thickness of being processed steel plate(mm)	6~50	6~50	6~50
一次最大铣削斜边深度 The max depth of milling bevel edge at one time(mm)	12	12	12
加工钢板厚度 The thickness of being processed steel plate(mm)	0.3/0.5	0.3/0.5	0.3/0.5
铣削返程速度 Returning speed(m/min)	5	5	5
铣削主轴转速 Spindle rev.(m/min)	125~800	125~800	125~800
液压系统工作压力 Hydraulic pressure(mpa)	≤3.5	≤3.5	≤3.5
支撑平台缸数(只) The number of the cylinders	8	11	15
支撑平台距地面高度 The height between the worktable and the ground(mm)	900	900	900
进给电机功率 The power of driving motor(kW)	1.1/0.85	1.1/0.85	1.1/0.85
铣削电机功率 The power of milling motor(kW)	3	3	3
油泵电机功率 The power of oil pump motor(kW)	5.5	5.5	5.5

龙门式数控切割机 Gantry CNC cutter

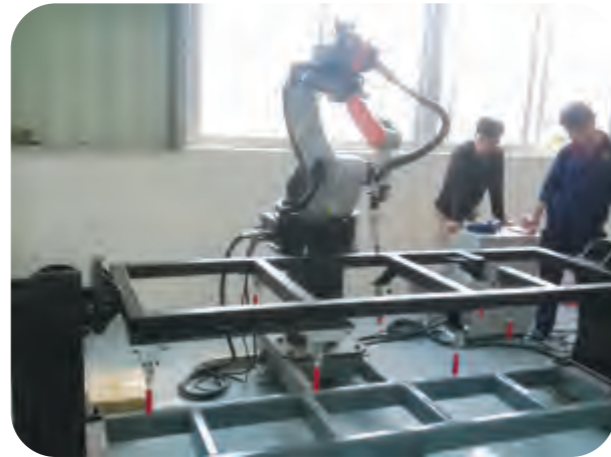

龙门结构式数控切割机是板材切割行业中使用最广泛的一种机型，可满足火焰等离子切割的需要，同时可附加多种辅助功能如：自动点火，自动调高，自动穿孔，喷粉划线，钻削喷淋，割枪自动定位，原轨迹返回等。

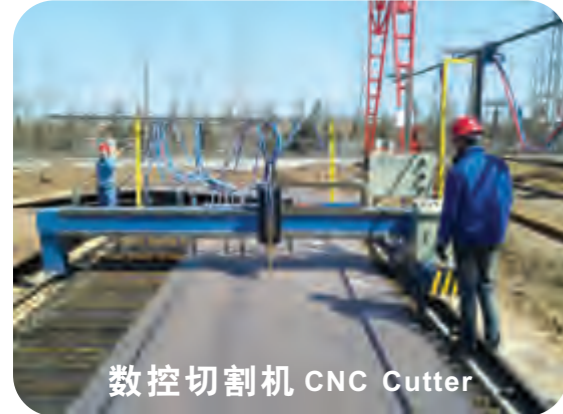
CNC gantry cutting machine is the widespread equipment of the plate industry. It can be used for flame cutting and plasma cutting, with optional functions as automatic ignition, automatic height control, automatic piercing, powder spraying and marking, automatic positioning of torch, retracing, etc.

主要技术参数 Main technical parameter

轨距 Track Spar (mm)	切割宽度 Cutting width (mm)	总宽度 Overall width (mm)	驱动方式 Drive model	控制系统 Control system	割炬数目 No. of torch	自动点火 Auto- ignition	自动调高 Automatic height control	切割方式 Cut model
2500~8000	轨距 Track Spar -800mm	轨距 Track Spar +600mm	单边或双边 Single or dual drive	选择项 Optional	2组 Two set	2组 Two set	选择项 Optional	火焰或等离子 Flame or plasma



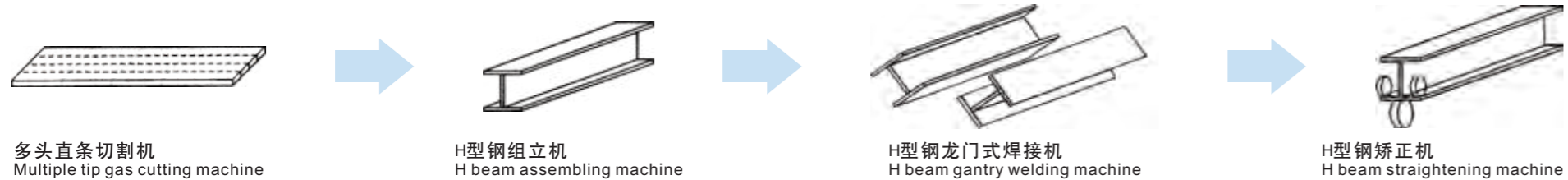




数控切割机 CNC Cutter

该生产线由数控切割机、H型钢自动组立机、H型钢龙门式自动焊接机或双悬臂自动焊接机、H型钢翼缘矫正机、H型钢抛丸机等主要设备组成。从下料组立拼装、埋弧焊接、翼缘矫正、H型钢除锈全过程实现自动化。

This production line consists of CNC cutting machine, H-beam automatic assembling machine, H-beam gantry automatic welding machine or double column-beam automatic welding machine, H-beam flange straightening machine, H-beam shot-blasting machine etc. Achieve full process automation from cutting, assembling, SAW welding, flange correcting and shot blasting.



H型钢组立机 H beam assembling machine

H型钢组立机为H型钢成型专用机，H型钢组立过程中，可利用配置的液压夹紧装置，实现同步夹紧，自动对中。确保规定范围内，不同宽窄的幅板，翼板准确定位；可根据用户要求，设置成截面H型钢的自动组立。

H beam assembling machine is a specially designed for the molding of H beam. During the assembling of the H beam, hydraulic clamp is used for synchronized clamping and automatic centering to guarantee the accurate positioning of former of different widths during the specified range.



H型钢龙门式焊接机 H beam gantry welding machine



H型钢龙门式焊接机是用于H型钢焊接的专用设备。焊接控制与台车控制一体化联动，操作简单可靠，其门架传动采用专利的超低速电机拖动，交流变频器驱动，速度稳定，数字显示线速度，可靠性好，并设有三轴机械跟踪导弧机构。左右旋为浮动式跟踪，确保焊枪准确对准焊缝，埋弧焊电源线设在龙门架上随车移动，使焊机控制电缆及焊接电缆尽量缩短，从而使反馈性能更好，响应速度更快，压降小，焊接电流准确稳定。

H beam gantry welding machine is specially designed for the welding of H beam. It realized the combination of welding control and trolley control and can be operated easily. It use ULS motor drive for the drive of portal. Driven by alternating current converter; stable speed, digital display of the linearity speed, good reliability, there is three-axle mechanical tracing arc guiding mechanism; floating type tracing to guarantee that the welding torch targeting at the welding seam accurately. The power line for the submerged arc welding can move on the portal frame to shorten the length of the control cable and the welding cable as far as possible to quicken the response, reduce the pressure and stabilize the welding current.

H型钢矫正机 H beam straightening machine

H型钢矫正机为H型钢翼缘矫正专用机，分为机械式和液压式两种，其主机采用22KW电机及摆线针轮减速器传动，传动效率高矫正速度快，所有矫正辊采用优质合金钢制作，并通过先进的热处理工艺避免了该零件容易产生裂纹的缺陷，为确保其矫正的稳定性及长久性，其所有的零部件均做加强处理。

H beam straightening machine is specially designed for the correction of the steel flange. There are mechanical and hydraulic two kinds, the main machine uses the 22KW electric motor and pin gear reductor drive characterized by high efficient and high speed. All the correcting rollers are made of high-quality alloy steel. Besides, the machine is put under advanced hot treatment to prevent crackles. All the parts are reinforced to stabilize the correction and realize the long service life.



管件电动坡口机 Beveling Machine



GP1600



STPG1.2

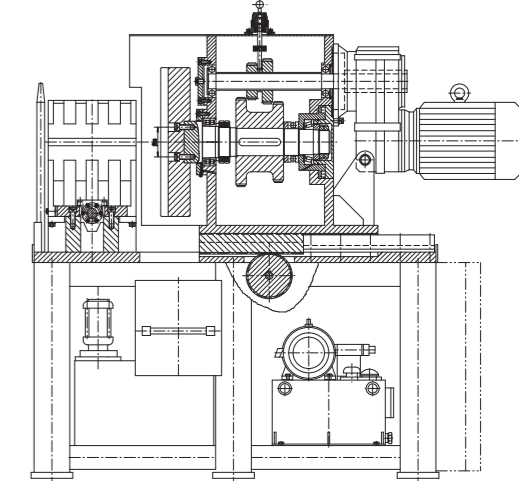
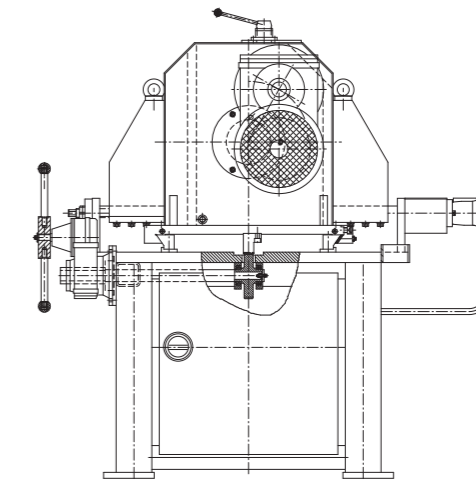


电动管道坡口机适用于造船、电力工程安装、石油、化工、锅炉厂、冶金以及钢铁行业管道的坡口，大大改善了管道焊接条件。

Motorized pipe beveling machine is suitable for shipbuilding, electric power engineering installation, petroleum, chemical, boiler plant, metallurgy, iron and steel industry pipeline groove, greatly improve the pipeline welding conditions.

主要技术参数 Main technical parameter								
规格型号 Model	Q1225	Q1260	STPG1	STPG1.2	STPG1.5	STPG1.6	GP800	GP1600
管件范围 PiPe range(T)	Φ50~Φ400	Φ200~Φ630	Φ400~Φ1080	Φ600~Φ1220	Φ800~Φ1500	Φ800~Φ1600	Φ108~Φ820	Φ800~Φ1620
最大坡口厚度 Max. thickness (mm)	40	70	120	150	120	120	30	30
坡口转速 Beveling speed(rpm)	71, 100, 140, 200, 280, 400	58, 108, 180, 322	23, 35, 70, 107, 121, 184	23, 35, 70, 107, 121, 184	19, 27, 56, 78, 96, 132	19, 27, 56, 78, 96, 132	11, 18, 28, 44, 48, 76	9, 15, 24, 38, 42, 66
电机功率 Motor power(kW)	4	5.5	11	11	15	15	30	37
进给速度 Feed speed(mm/r)	0.13	0, 0.175	0.14, 0.28	0.14, 0.28	0.14, 0.28	0.14, 0.28	0.175	0.175

PKJ系列坡口机 PKJ Beveling Machine



内胀式坡口机系列
Internal expansion type electric pipe beveling machine



外钳式电动管子切割坡口机
OD-Mounted electric pipe cutting and beveling machine

主要技术参数 Main technical parameter

规格型号 Model	PKJ310	PKJ426	PKJ630
管件范围 PiPe range(T)	Φ50~Φ310	Φ50~Φ426	Φ70~Φ630
单次最大坡口厚度 Max. thickness (mm)	15	20	20
坡口转速 Beveling speed(rpm)	36/48/72/96	29/40/58/80	22/32/47/70
电机功率 Motor power(kW)	4.5	5.5	7.5
进给方式 Feed method	手动/液压 Manual/Hydraulic	手动/液压 Manual/Hydraulic	手动/液压 Manual/Hydraulic
进给行程 Feed stroke(mm)	100	180	180
泵站冷却系统 Pump cooling system	有 with	有 with	有 with