

WITH PRACTICALITY AS FOUNDATION
WE KEEP A Foothold IN THE WORLD WITH MORALITY

实用为本 德行天下

ETHICS FIRST
BUSINESS SECOND
先做人 后做事

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公司简介

COMPANY PROFILE

山东飞宏工程机械有限公司，专注于钢筋加工领域的品质和服务，以人为本，致力于推动人性化、智能化钢筋加工产业的发展，为协助工程人实现智能化钢筋加工场的愿望而不遗余力。

山东飞宏，通过不断地努力和创新，已经逐步成长为智能化钢筋加工整体解决方案的专家和全球钢筋加工场工人的贴心好搭档，让天下所有的钢筋工人轻松使用飞宏智能设备，不再受限于年龄和学历。

山东飞宏，自成立以来，已与国内中国中铁集团、中国铁建集团、中国交建集团、中国电建集团、中国建筑集团等国有大型工程集团及甘肃路桥集团、宁夏路桥集团、陕西建工集团、北京城建集团、江苏交通工程集团、浙江交工集团、杭州交通工程集团等各省、地区大型路桥集团建立多次愉快合作，并且成功的为俄罗斯、科威特、沙特、伊拉克、埃塞俄比亚、肯尼亚、印度、斯里兰卡等国家的优秀施工单位提供了让工地现场满意的钢筋加工解决方案，并且实现了零投诉。截止到 2019 年，山东飞宏已与中国中铁集团顺利签约了四个年度战略合作框架协议。每年 11 月至 12 月，飞宏客服部联合技术部、售后部大力开展飞宏“8 级服务保障体系”回访月活动，为老客户提供服务维护和回访服务，并同时开展技术调研工作。据回访单统计，老客户对飞宏售后服务满意度基本为 100%。为了向所有工程人提供人性化服务保障，飞宏销售部、售后部、客服部统一开通了“24 小时服务热线”，随时随地满足辛勤的工程人的服务需求，助力工程人打造百年品质工程。

山东飞宏，拥有先进的技术研发中心，由从事智能设备行业多年的技术专家组建，并且拥有多项技术发明、实用新型专利等自主知识产权，同时还通过了 ISO9001 质量管理体系认证、ISO14001 环境管理体系认证、欧盟 CE 认证等。

子曰：“人而无信，不知其可也。”人无诚不立，企业无信不存，诚信是企业求生存、图发展的生命线。“言必行、行必果”是所有飞宏人的座右铭。以信誉谋发展，信守诺言和遵法守纪。飞宏坚持以“诚信为荣，失信为耻”的信条，并把它变成所有飞宏人的自觉行动。山东飞宏连续被评为重合同守信用企业、质量服务诚信单位、AAA 级信用企业，飞宏的设备和得到客户多次表彰并被授予了荣誉证书和锦旗。尽管飞宏通过不懈的努力得到了行业和客户认可，获得了良好的品牌信誉，但飞宏人会戒骄戒躁，一直在路上，会继续坚持飞宏文化的核心价值观：堂堂正正做人，踏踏实实做事，助力全球客户的钢筋加工事业飞宏腾达！

山东飞宏，始终以“实用为本、德行天下”为理念，争创全球工程机械行业的百年品牌。相信通过坚持不懈的努力，飞宏终将成为最受尊敬的钢筋加工整体解决方案服务商。

Shandong Feihong Engineering Machinery Co., Ltd. focused on the quality and service in the field of steel processing. Feihong adheres to the people-oriented management philosophy and is committed to promoting the development of humanized and intelligent steel processing industry. We will spare no effort to assist the world's engineering industry to build intelligent steel processing plants.

With continuous efforts and innovation, Feihong have gradually grown into an expert in intelligent steel processing solutions and a good partner for global steel processing workers. Feihong intelligent steel processing machines make all of the steel operators work easily. And there is no limitation of the age and education at domestic and abroad.

Since the establishment of the company, Feihong has become a long-term partner of China National Railway Group, China Railway Construction Group, China Communications Construction Group, China Power Construction Group, China Construction Group. At the same time, we have cooperated delightedly with Gansu Luqiao Group, Ningxia Luqiao Group, Shaanxi Construction Engineering Group, Beijing Urban Construction Group, Jiangsu Transportation Engineering Group, Zhejiang Jiaogong Group, Hangzhou Traffic Engineering Group and other large road and bridge groups in provinces and regions for many time. We have successfully provided the excellent steel processing solutions that satisfied the site of construction units in Russia, Kuwait, Saudi Arabia, Iraq, Ethiopia, Kenya, India and Sri Lanka, etc. And achieved zero complaints. By 2019, Feihong has successfully signed four annual strategic cooperation framework agreements with China Railway Group. From November to December of each year, in order to provide equipment maintenance and return visiting services to old customers, also conduct technical research work. Feihong's Customer Service Department, Technical Department and After-sales Department jointly organizes a return visiting event of Feihong "Grade 8 Service Guarantee System". According to the statistics of the return visits, the old customers' satisfaction rate with Feihong after-sales service is about 100%. In order to provide humanized service guarantee to all engineering personnel, Feihong Sales Department, After-sales Department and Customer Service Department have uniformly opened

the "24-hour service hotline" to meet the service needs of hard-working engineers anywhere at any time, and help engineering people to build a century-old quality project.

Feihong with an advanced technology research and development center, which is composed of technical experts who have been engaged in the intelligent equipment industry for many years, has a number of independent intellectual property rights, such as technical inventions and utility model patents. Meanwhile we obtained ISO9001 quality management system certification, ISO14001 environmental management system certification, and EU CE certification, etc.

Confucius said: Everyone must be creditworthy. Dishonest people would not succeed, and untrustworthy companies would not survive. Integrity is the lifeline for enterprises to survive and develop. "be truthful in speech and firm in action" is the motto of everybody in Feihong. We develop with credibility, keep the promise and obey the law. Feihong creed: Be honest and trustworthy, breaking faith is shameful. It is the conscious action of Feihong people. Feihong has been awarded the trustworthy enterprise abiding by the contract, the quality service integrity unit and the AAA credit enterprise. Feihong's equipment and services have been repeatedly recognized by customers and awarded with honorary certificates and pennants. Although Feihong has been recognized by the industry and customers through unremitting efforts and has gained a good brand reputation, Feihong people will continue to work hard and guard against arrogance. Feihong core values: Ethics First, Business Second, assisting the steel processing business of global customer in prospering.

Feihong philosophy: With Practicality as the foundation, we keep a foothold in the world with morality. We are striving for a century-old brand in the global construction machinery industry. Feihong believed that through unremitting efforts, we will become the most respected service provider of the integral steel processing solutions.

儒商企业文化

CONFUCIAN BUSINESSMAN CULTURE

实用为本 德行天下
WITH PRACTICALITY AS FOUNDATION
WE KEEP A FOOTHOLD IN THE WORLD WITH MORALITY

飞宏愿景 / Macro Vision

创建最受尊敬企业，打造最有价值团队，助力全球合作伙伴飞宏腾达

Create the most respected enterprise, the most valuable team to assist the global partner to rise in the world.

核心价值观 / Core Values

堂堂正正做人，踏踏实实做事

Be upright and honest, Make everything down-to-earth.

经营理念 / Operation Philosophy

实用为本，德行天下

所谓君子喻于义，小人喻于利、君子爱财，取之有道

With practicality as foundation, we keep a foothold in the world with morality.

Like the old saying go, The gentleman knows what is right; the mean person keeps his mind only on gains.

人才理念 / Employee Philosophy

任人不唯亲，举贤不避亲

Be not restricted to appointment of relatives, recommend people of ability no matter relatives or not.

安全理念 / Safety Concept

预防事故，控制隐患，明确责任，重视落实

Prevent accidents, control hidden dangers, clarify responsibilities, and attach importance to implementation.

飞宏信条 / Motto

诚信为荣，失信为耻；言必行，行必果；为了梦想，竭尽全力

Be proud of integrity and shame of breaking faith, Line true in word and resolute in deed..

For the sake of dream, do our best.

飞宏使命 / Macro Mission

为全球工程建设事业添砖加瓦

Contribute to the global engineering construction business.

飞宏精神 / Enterprising Spirit

努力奋斗，勇于创新，挑战极限，回报社会

Work hard, be creative, challenge the limits, and return to society.



团队价值观

TEAM VALUES

有正确的是非观，善恶观，羞耻观；严以律己，勇于认错，服从纪律；与人为善，懂得自我批评和心存感恩；专注学习和钻研，追求高效、科学的工作方法；事事回复，以大局为重，有精诚合作的团队精神。

We have correct concept of right and wrong, virtues and vices, honor and disgrace. be strict with ourselves and brave in admitting mistakes, obey discipline. Be kind to others, know how to self-criticize and be grateful. Focus on research and development, pursue efficient and scientific working methods; Respond to any inquiries, and put emphasis on overall situation, and have a team spirit of sincere cooperation.

孔子曰：君子有九思：视思明，听思聪，色思温，貌思恭，言思忠，事思敬，疑思问，忿思难，见得思义。

《论语·季氏》

whole above everything else, have bravery to admit the mistakes. We understand obedience, self-accusation and gratitude. Confucius said, a gentleman of noble characters should consider 9 things carefully, clarity in terms of seeing, understanding in terms of hearing, gentleness in terms of expression, respect in terms of appearance, honesty in terms of words, caution in terms of actions, asking in terms of problems, dangers in terms of anger and justifiability in terms of gains .

(The Analects of Confucius, Ji Family)

质量控制体系

FEIHONG QC

高标准进料控制

High standard feeding control

采用三把关，四检测的制度，即合格供方把关，入厂检验把关，操作使用人员把关；

外观检测，尺寸检测，结构检测，特性检测。

We adopt the system of three checks and four inspections, including supplier eligibility check entry inspection checks, operation personnel checks, appearance detection, size detection, structure detection and feature detection.



高细致的发货统筹

Meticulous shipment arrangement

1、仓储物流中心在接收到销售发货通知单后，24小时内完成备货；

The warehousing and logistics center will finish the stock within 24 hours after receiving the sales order.

2、依据发货清单核对并清点所有零部件、配套附件、随机工具等物品的齐套性；

Check and count all the parts, accessories, attachment tools and other items according to the shipping list.

3、仓储物流中心由专员使用标准包装箱对随机工具，易损件及备件等较散小件装箱打包，并做标记，结构件由通用包装防护材料包裹；

Attachment tools, quick-wear parts and spare parts and other small parts should be encased with standard packing box and marked by the warehousing and logistics center.

4、仓储物流中心由专员负责跟踪装车并核对发货清单与装车情况是否一致；

The warehouse logistics center is responsible for tracking the loading by the commissioner and checking whether the shipment list is consistent with the truck loading condition.

5、根据产品实际运输防护需求，对产品进行运输安全及防水防护工作。

Carry out transportation safety and waterproof protection for products according to the actual transport protection needs.

技高要求的质检制度

Strict QC System

对所有生产工艺流程，配件，成品进行严格质检，并把验收情况，细节照片上传到公司办公系统进行审核，核心验收项目如下：

Carry out strict quality inspection to all production processes, parts and finished products, and upload the acceptance and details to the office system for audit. The core acceptance items are as follows:

1、对外协作的质检；QC of cooperation parts, filling in acceptance certificate.

2、对车间内部配件质检；QC of fittings produced in interior workshop, filling in acceptance certificate.

3、数控下料，钻孔工艺质检；QC of grinding condition of fitting, filling in acceptance certificate.

4、焊接工艺质检；QC of welding condition of fittings.

5、部件打磨工艺质检；QC of parts abrading condition.

6、防锈喷漆工艺质检；QC of antirust spray paint condition of equipment, filling in acceptance certificate.

7、设备运转性能质检；QC of Equipment running performance.

8、设备面漆工艺质检。QC of topcoat condition of equipment, filling in acceptance certificate.

8 级服务 保障体系

8 GRADE QUALITY
GUARANTEE SYSTEM



1 级 智能钢筋加工 3 步体验式咨询 GRADE 1 3 steps for experiential consulting

- 1、专业业务经理咨询；
Professional consultants.
- 2、样板工地现场体验（国内 / 国外）；
On-site tour.
- 3、设计专家深度解析客户服务方案。
Deep analysis of resolution by designers.

2 级 1+N 整体服务（售前、售后保持高度一致） GRADE 2 1+N integrated service (pre-sales, after-sales keeps highly consistent)

- 1 位专业业务经理 + 1 位技术服务指导，为顾客提供完整而专业的现场加工整体解决方案。
- A professional sales manager + A technical engineer + A on-site counselor, supply a integrated and professional on-site resolution.

3 级 整体服务分 7 个节点验收标准体系 GRADE 3 Integrated service can be divided into 7 acceptance phases

- 1、特殊需求的技术交底；
Technical disclosure of special requirements.
- 2、工厂设备交付，并派送（赠送设备安装、调试、保养、故障解决教学视频）；
Equipment delivery by factory.
- 3、指派随行售后服务工程师（国外工地：根据客户要求）；
Dispatch of on-site councilor.
(Overseas construction site according to clients requirement.)
- 4、设备现场交付验收； On-site acceptance check.
- 5、设备调试成功验收；
Adjust and test equipment till successful acceptance.
- 6、现场指导使用结果验收、（国外工地：根据客户要求）；
Check the use condition of workers.
(Overseas construction site according to clients requirement.)
- 7、完整设备交付使用效果监控。
Monitoring of the using result.

4 级 工地现场五星级服务标准体系 GRADE 4 Five-star on-site service standard system

- 1、售后服务工程师在工地现场服务完成，请客户在现场服务派工单评价、打分；
After on-site service, after-sales service engineer invites customers to rate and review on the on-site service forms.
- 2、对分数不及格服务派工单追责服务工程师，有效规范现场服务体系。
Service engineer should be accountable for unqualified service dispatch forms to effectively standardize on-site service system.

5 级 专业的客户服务系统 Grade 5 Professional customer service system

专业的客户服务系统，由专业客户经理结合表格信息系统，对每位客户的设备使用过程进行实时监控，做到异常情况随时报警，关键工程节点闭环控制。

Professional customer service system, managed by professional consultants, are used to monitor every process from clients by form information, achieve alert at any abnormal steps to keep the problem under control at pivotal process.

6 级 设备交付三阶段回访 Grade 6 Three stages of return vist

每位客户均享受客户中心设备交付前、设备调试及指导工人使用中、设备成功交付后三个阶段的回访与监控，向客户提供放心实用的智能钢筋加工服务方案。

Every customer will enjoy the three stages return visit form our customer center, which is pre-sales period, testing and guiding period and after-sales period. We assure to supply an integrated resolution.

7 级 客户服务快速响应机制 Grade 7 Quick response system

客户中心专业受理客户咨询和投诉，收到客户服务要求后快速指派服务专业人员电话 / 微信 / 社交软件（国外）沟通解决问题。

The customer center will manage the customer inquiry and complaint, and appoint professional person (Telephone/Wechat/Social Software (Abroad)) to solve the problem in time.

8 级 客户终身价值维护 Grade 8 Customer lifetime value maintenance

- 1、24 小时维修响应：24 小时全天候服务热线（国内 / 国外）；
Quick maintenance response within 24 hour: 24-hour all-weather service hotline (domestic/abroad).

- 2、三阶段回访 Three stages of return visit
 - 1) 质保期前设备完全交付后一个月；
Before the warranty: one month after delivery.
 - 2) 设备完全交付六个月后；6 month after delivery.
 - 3) 质保期满后一年。1 year after delivery.

以上三个阶段实施 3 次回访工作，并确保客户终生享受贴心服务。
We implement three return visits at the above three stages to ensure that customers enjoy intimate service throughout their lives.

智能钢筋笼 滚焊机器人

CNC REBAR CAGE MAKING
MACHINE



简介及优势 Introduction & Advantage

- 1、采用国际顶端品牌进口电控元器件，确保设备运行稳定；
It adopts advanced ABB converter ,Panasonic PLC and touchable screen to ensure the stable operation of the equipment.
- 2、钢筋笼直径误差控制精准，主筋间距误差小能控制在 1cm 之内，一米之内盘筋间距误差可控制在 5mm 以内；
With the high precision of cage diameter ,the longitudinal bar space error can be controlled within 1 cm and 1 M spiral wire pitch error within 5mm.
- 3、可生产双盘筋、双主筋高要求钢筋笼产品；
It can produce double longitudinal bar with double spiral wire cages .
- 4、设备自身重量高出同行业 10% ；
The self weight of the machine is 10% heavier than those in the same industry,which can make machine more stable.
- 5、设备承载能力大，可生产 8-9 吨一节钢筋笼；
With the large load capacity ,it can produce 8 to 9 tons cages perfectly.
- 6、动力源：三个主减速机采用国内知名品牌，扭矩大、故障率低；
Power source It adopts three domestic top brand main geared motors with large torque and low failure rate.
- 7、液压支撑采用缸径 100mm，同行业普遍是 80mm，支撑能力高于同行业 20%；
The support capability is 20% higher with the diameter 100mm hydraulic cylinder than those with diameter 80mm in the same industry.
- 8、可选购自动焊接机器人（可实现自动点焊钢筋笼）。Optional automatic welding robot.

技术参数

Technical Parameters

型号（常用）	Item No	FH1500-12	FH2000-12	FH2200-12	FH2500-12
钢筋笼桩径范围	Cage pile diameter	600~1500mm	800~2000mm	800~2200mm	1000~2500mm
钢筋笼最大长度	Max cage length	13.5m	13.5m	13.5m	13.5m
缠绕筋直径	Spiral wire diameter	5.0~16.0mm	5.0~16.0mm	5.0~16.0mm	5.0~16.0mm
主筋直径	Longitudinal bar diameter	12.0~32.0mm	12.0~32.0mm	12.0~32.0mm	12.0~32.0mm
缠绕筋间距	Spiral pitch	50~500mm	50~500mm	50~500mm	50~500mm
		无级可调 Stepless adjustable	无级可调 Stepless adjustable	无级可调 Stepless adjustable	无级可调 Stepless adjustable
移动盘移动速度（无级可调）	Mobile disc moving speed	1100mm/min	1100mm/min	1100mm/min	1100mm/min
转盘转动速度（无级可调）	Rotary speed	4r/min	3.5r/min	3.5r/min	3.1r/min
液压系统压力	Hydraulic system pressure	10Mpa	10Mpa	10Mpa	10Mpa
最大装机容量	Maximum installed Power supply	13kw 380V/50Hz/3Phase	23kw 380V/50Hz/3Phase	23kw 380V/50Hz/3Phase	31kw 380V/50Hz/3Phase
工作温度	Working temperature	-20°C~50°C	-20°C~50°C	-20°C~50°C	-20°C~50°C
设备占地面积	Overall dimension	28m(L) * 5m(W) * 2m(H)	28m(L) * 6m(W) * 2.5m(H)	28m(L) * 6m(W) * 2.5m(H)	28m(L) * 7m(W) * 3m(H)
焊接方式	Welding method	CO2 保护焊 CO2 arc welding	CO2 保护焊 CO2 arc welding	CO2 保护焊 CO2 arc welding	CO2 保护焊 CO2 arc welding
焊接材料	Welding materials	焊丝、焊条 Welding wire, welding rod	焊丝、焊条 Welding wire, welding rod	焊丝、焊条 Welding wire, welding rod	焊丝、焊条 Welding wire, welding rod

智能钢筋 弯圆机器人

CNC REBAR CIRCLE
BENDING MACHINE



简介及优势

Introduction & Advantage

该设备采用立式圆盘结构，同时集成自动焊接和切断装置，实现弯圆、焊接、切断三步数控自动加工，精度可控制在 ±3mm 以内。传动速度 80cm/min，有效控制了一次成型合格率。设备操作简单，只需一人操作。精度高、速度快、效率高。

The equipment adopts a vertical disc structure and integrates automatic welding and cutting devices to realize three-step CNC automatic processing of bending, welding, and cutting, the accuracy can be controlled within ±3mm. Conveying speed is 80cm/min, effective control of a molding pass rate. Simple operation requires only one worker, but featured by great precision, high speed and high efficiency.

- 1、直径调整方便快捷，并且不用更换大盘；
Diameter adjustment is quick and easy, and there is no need to change the disc.
- 2、伺服电机 + 高精度行星轮减速机；
Adopt servo motor and high-precision planetary gear motor.
- 3、自动找零点位置，穿筋位置，焊接位置，切割位置（操作更智能，方便，省时）；
Automatic location on zero position, rebar inserted position, welding position, cutting position makes operation more intelligent, convenient and time-saving.
- 4、全自动焊接：伺服电机控制焊接移动更精准。
Full automatic welding: the movement of welding controlled by servo motor is more accurate.

技术参数

Technical Parameters

型号	Model	FHH-32A
弯曲范围（直径）	(Bending scope) diameter	Φ16mm—Φ32mm
弯曲速度	Bending speed	80cm/min
弯曲电机功率	Bending motor power	4.5kw
切断电机功率	Cutting motor power	1.5kw
动力电源	Power	380 v / 50 hz
外形尺寸（长*宽*高）	Machine overall size(length*width*height)	2500*2650*2300mm

弯弧机

ARCH AND CIRCLE BENDING
MACHINE



简介及优势

Introduction & Advantage

- 1、特殊工艺处理耐磨弯曲轮，弯曲精度高、寿命期长；
With wear-resistant wheel processed by special technology, it featured by high bending accuracy and long life.
- 2、操作简单，减轻劳动力，性能稳定、安全，实用性强。
Simple operation to reduce labor force, stable performance, safety and practicality.

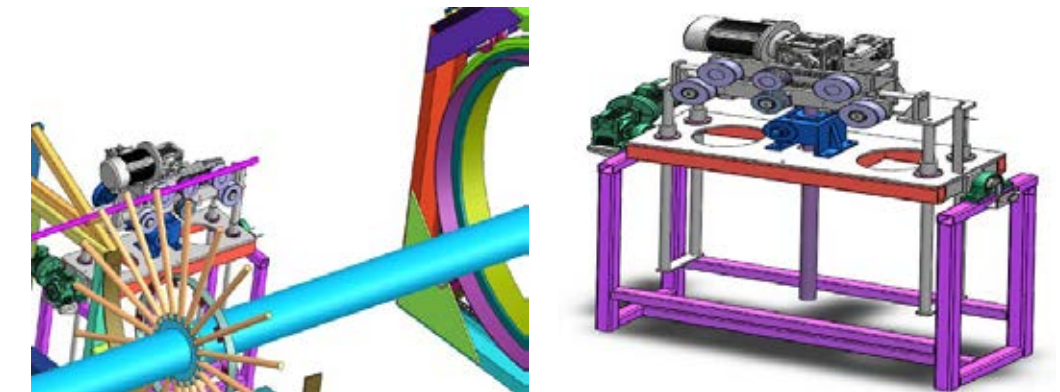
技术参数

Technical Parameters

型号	Model	FHH-32
内箍筋直径范围	Diameter range of inner hooping	500 ~ 2500mm
钢筋直径	Diameter of rebar	12~ 32mm
工作能力	Working capability	1-2 个 / 分钟 1-2 piece/min
最大装机容量	Max. Loading capacity	2.5kw 380V/50Hz/3Phase
工作温度	Working temperature	0°C ~ 40°C

钢筋笼主筋 智能穿筋装置

CNC BAR PIERCING DEVICE



简介及优势

Introduction & Advantage

钢筋笼滚焊机自动送筋设备是本公司自主研发的钢筋笼自动送筋设备。设备主要用于滚焊机设备，钢筋笼送料采用 PLC 控制，能辅助人工完成穿主筋动作，减少人员疲劳程度，送料效率高。采用触摸屏控制，操作简单。产品质量完全达到规范生产要求。

Automatic rebar feeding device for rebar cage making machine, developed by our company independently, can assist manual rebar-piercing operation with PLC control, which greatly reduce fatigue of workers and achieve high feeding efficiency. Touchable screen also simplifies operation, and production quality fully meets the standard requirements.

钢筋笼滚焊机机头参数

Technical Parameters

适应钢筋笼直径	Cage pile diameter	1500mm-2500mm
适应钢筋笼主钢筋尺寸	Longitudinal bar diameter	18mm-32mm
适应钢筋笼主筋数量	Longitudinal bar quantity	20-60 Pcs
适应钢筋主筋长度	Longitudinal bar length	10-12m

使用条件和环境

Conditions and Environment

电源	Voltage	220V,50Hz
环境温度	Working temperature	-10°C ~ 60°C
工作时间	Working time	≤ 24h
功率	Powder	3kw
压缩气压	Compression pressure	≥ 0.6MP



智能钢筋 锯切套丝打磨 生产机器人

CNC REBAR SAWING
& THREADING LINE

简介及优势 Introduction & Advantage

- 1、钢筋定尺机构采用伺服电机控制，通过伺服电机驱动丝杠机构来调整锯切刀口与定位挡板之间的距离，采用编码器测量，定尺精度高，可达±2mm，可锯切各种长度的钢筋；
Servo motor control system is adopted in steel bar fixed ruler mechanism to adjust the distance between the sawing blade and positioning baffle through servo motor drive screw mechanism. With encoder measurement, the length precision can up to ±2mm, which is better than those controlled with frequency conversion motor control system. And various lengths of steel bars can be cut.
- 2、锯切主机生产效率高，可对原料钢筋的两端自动定尺齐头，锯口宽度达到450mm，一次锯切22根Φ20的螺纹钢在一分钟左右；
With high production efficiency, the main sawing machine can automatically align the ends of the raw steel bars. The sawing width can up to Φ450mm. And it can saw 17 steel bars with 20 in about one minute.
- 3、一级套丝辊道输送平台采用链条式传动，可对齐头后的钢筋临时储料，实现加工作业的流水线作业，减少设备的二次搬运，提高生产效率。
The first stage set of wire roller conveyor platform adopts chain drive, which can be used for the temporary storage of steel bars after the alignment. It can reduce second transportation of the assembly work to improve production efficiency and realize the flow process.

技术参数 Technical Parameters

型号	Model	FHST-40S
锯切宽度	Sawing Width	450mm
锯切直径范围	Rebar Diameter range	Φ16mm~Φ50mm
钢筋传送速度	Convey speed	90m/min
钢筋长度范围	Rebar length range	2.0~12m
长度误差	Size error	±2mm
锯切主机	Sawing Host	
锯切进给速度	Feeding speed	Stepless adjustable / 无极调速
夹紧方式	Clamping mode	Hydraulic / 液压
主电机功率	Main motor power	4kw
油泵电机功率	Oil pump power	1.1kw
冷却泵功率	Cooling pump power	60W
锯切效率	Cutting rate	1.5-2.5 times/min
锯切线总重量	Sawing line weight	8 T / 吨
切割速度	Cutting speed	Infinitely variable speed / 无极变速
锯切高度 / 锯切长度	Sawing height/Sawing length	100mm/12m
平均耗电量	Average power consumption	15kw
装机总功率	Total power	30kw/h
锯切线外形尺寸(长·宽·高)	Overall Dimensions(L·W·H)	28000*7800*2000mm
锯切直径 / 设备型号 / 锯切根数	Diameter/QTY/Model	Φ16mm Φ20mm Φ25mm Φ28mm Φ32mm Φ40mm Φ50mm FHST-40 27Pcs/根 22Pcs/根 17Pcs/根 15Pcs/根 13Pcs/根 11Pcs/根 7Pcs/根
设备总重量	Machine total weight	18T



智能钢筋 剪切弯曲联动 生产机器人

CNC REBAR SHEARING AND BENDING PRODUCTION LINE

简介及优势

Introduction & Advantage

- 1、提高生产效率：需要弯曲的图形，钢筋剪切下料后最短的时间内输送到弯曲工位；
To increase productivity: The steel bars that need to be bent are transported to the bending station in the shortest time after cutting.
- 2、优化操作：设备为全自动化控制，快捷的人机交互系统，操作更简单；
To optimize operation: The equipment is fully automated, with the quick human-computer interaction system makes the operation simpler.
- 3、节约人员配备：所需弯曲的钢筋无需吊装，搬运；
To save on-site manning: The steel bars that need to be bent do not need to be hoisted and transported.
- 4、优化场地布置：剪切下料的钢筋，不需要大批量的存放区；
To optimize on-site layout: Rebars that are cut do not require large storage areas.
- 5、生产模式多样化，设备满足剪切弯曲工位分别工作，“一机多用”。
(同时具备对调直剪切后钢筋可弯曲，对棒材钢筋剪切下料以及分料储藏)
Diversified production modes: the separation between shearing process and bending process is perfectly met by the machine ,which realized multiple purpose using that carry out the bending process after rebar being straightened and sheared and the separate storing after rebar being cut.
(At the same time, it has the bending of the steel bar after straightening and shearing, cutting and separate stocking of steel bars)



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弯曲工位的技术参数

Bending Station Technical Parameters

外形尺寸	Overall size	12000*2155*1690mm (L*W*H)									
工作电压	Working voltage	380V									
总功率	Installed power	15.5kw (Working Power 5kw) , 50-60Hz									
主机移动速度	Bender moving speed	0.1-0.5m/s									
弯曲速度	Bending speed	30"-48"/S(5-8r/min)									
总重量	Total weight	About 4.5 T									
最小短边弯曲尺寸	Min length scope of the stirrup side	70mm									
最大弯曲角度	Max bending angle	上弯曲 / Upward 0-220° 下弯曲 / Downward 0-120°									
双向弯曲 (上弯曲或下弯曲)	Bi-directional bending (up or down bend)	Φ10mm-Φ28mm									
单向弯曲 (上弯曲)	Unidirectional bending (upward bending)	Φ28mm-Φ32mm									
最小曲边尺寸	Min space between stirrup side	Φ10 560mm Φ32 620mm									
最大边长尺寸	Max bending length	10.8m									
原料台输送速度	Feeding speed of storage convey table	0.6m/s									
原料台承载能力	Load capacity of storage convey table	3T									
工作环境温度	Working temperature	-10°C ~+50°C									
加工能力	Processing capacity	Φ10mm	Φ12mm	Φ14mm	Φ16mm	Φ18mm	Φ20mm	Φ22mm	Φ25mm	Φ28mm	Φ32mm
		6Pcs/根	5Pcs/根	4Pcs/根	3Pcs/根	2Pcs/根	2Pcs/根	2Pcs/根	1Pcs/根	1Pcs/根	1Pcs/根

剪切工位技术参数

Cutting Station Technical Parameters

钢筋剪切直径范围	Rebar diameter range	12-40mm	
切刀最大剪切力	Max cut power	1200kn	
切刀有效宽度	Effective shearing width	250mm	
剪切频率	Shear frequency	20times/min	
钢筋传送速度	Rebar convey speed	1.92m/s	
钢筋剪切长度范围	Rebar shearing length range	1-12m	
剪切长度误差	Shear length error	±2mm	
最小手动剪切尺寸	Mini manual shear size	10mm	
最小自动剪切尺寸	Mini automatic shear size	700mm	
最小自动输送尺寸	Mini automatic convey size	1000mm	
钢筋收料仓	Rebar stock bin	4pc	
加工能力	Processing capacity	40mm/ 1Pcs	12mm /15 Pcs
剪切线总功率	Total power	25.5kw	
工作温度范围	Range of working temperature	-10-50°C	
整机自重	Machine weight	9000 kg	
工作电压	Working voltage	380V	
工作气压	Working air pressure	0.7MPa	
液压系统最大压力	Hydraulic system maximum pressure	31.5Mpa	
设备占地面积	Overall dimension (L*W*H)	28*3.3*2.5m	

智能钢筋 剪切生产机器人

CNC REBAR SHEAR LINE

简介及优势

Introduction & Advantage

- 1、采用液压剪切方式，体积小、剪切力大、产量高，与机械冲剪方式相比，具有噪音低、使用寿命长、设备运行稳定等特点；
It adopts hydraulic shearing method,small in size but large in cutting force and output.Compared to the mechanical shearing method,it has the advantage of lower noisy,longer service and more stable etc.
- 2、液压油缸采用进口密封件，大大增加了使用寿命；
With advanced seal to the hydraulic cylinder,it can greatly increase service life.
- 3、钢筋压紧采用液压油缸压料，压力大，剪切时，钢筋不会转动，钢筋切头均匀；
With hydraulic cylinder pressing material,the steel bar do not rotate during cutting procedure due to the large pressure,which makes the steel bar uniformly cut.
- 4、钢筋定尺机构采用伺服电机控制，通过伺服电机驱动丝杠机构来调整剪切刀口与定位挡板之间的距离；
Servo motor control system is adopted in steel bar fixed ruler mechanism to adjust the distance between the sawing blade and positioning baffle through servo motor drive screw mechanism.
- 5、采用编码器测量，定尺精度高，可达±2mm，可剪切各种长度的钢筋。
With encoder measurement, the length precision can up to ±2mm.And various lengths of steel bars can be cut apart.



技术参数

Technical Parameters

型号	Model	FHS-200	FHS-150	FHS-120					
切刀最大剪切力	Max cut power	2000kn	1500kn	1200kn					
剪切频率	Shear frequency	12piece/min	20piece/min	12piece/min					
钢筋传送速度	Rebar convey speed	1.5m/s	1.5m/s	1.5m/s					
剪切长度误差	Shear error	±2mm/m	±2mm/m	±2mm/m					
剪切钢筋直径范围	Rebar diameter range	12-50mm	12-40mm	12-40mm					
钢筋剪切长度范围	Shear length	1-12m	1-12m	1-12m					
剪切长度误差	Shear error	±2mm	±2mm	±2mm					
最小手动剪切尺寸	Min manual shear size	10mm	10mm	10mm					
最小自动剪切尺寸	Min auto shear size	700mm	700mm	700mm					
最小自动输送尺寸	Min auto convey size	1000mm	1000mm	1000mm					
钢筋收料仓	Rebar stock bin	3pc	3pc	3pc					
工作温度范围	Work temperature	-10°C -50°C	-10°C -50°C	-10°C -50°C					
工作电压	Working voltage	380V	380V	380V					
液压系统最大压力	Hydraulic system max pressure	31.5Mpa	31.5Mpa	31.5Mpa					
工作气压	Working air pressure	0.7MPa	0.7MPa	0.7MPa					
整机重量	Weight	10000kg	9000kg	8500kg					
整机功率	Total power	36kw	34kw	32kw					
钢筋直径 / Cutting diameter		Φ12mm	Φ16mm	Φ20mm	Φ25mm	Φ28mm	Φ32mm	Φ40mm	Φ50mm
FHS-200 剪切力 / Cutting quantity		25Pcs/ 根	20Pcs/ 根	15Pcs/ 根	12Pcs/ 根	8Pcs/ 根	5Pcs/ 根	2Pcs/ 根	1Pcs/ 根
FHS-150 剪切力 / Cutting quantity		15Pcs/ 根	12Pcs/ 根	10Pcs/ 根	8Pcs/ 根	6Pcs/ 根	4Pcs/ 根	1Pcs/ 根	
FHS-120 剪切力 / Cutting quantity		12Pcs/ 根	9Pcs/ 根	7Pcs/ 根	5Pcs/ 根	3Pcs/ 根	2Pcs/ 根	1Pcs/ 根	

智能钢筋 立式弯曲机器人

CNC REBAR VERTICAL BENDING CENTER



简介及优势

Introduction & Advantage

- 1、整机一体化设计：质量可靠、转运方便；All in one system: reliable quality, easy transshipment.
- 2、采用柔性钢筋锁紧机构设计，硬牙板与软夹紧装置配合使用，保证钢筋夹紧的同时，不损伤钢筋。中间夹紧的推力可达到 2.5T；
The flexible clamping mechanism, designed with the combination of the hard tooth plate and the soft clamping, can ensure the steel bar is clamped without damage. The intermediate clamping thrust can reach 2.5 T.
- 3、配备多套弯曲模具，每套弯曲模都经过精密铸造、渗碳热处理，硬度 HRC50~60 之间，相当于普通钢材的 3 到 4 倍左右，大大提高了使用寿命；
The machine is equipped with multiple sets of bending mould which hardness (HRC50~60) is about 3 to 4 times higher than common steel by precision casting and carburizing heat treatment, which greatly improved the service life.
- 4、采用花键式弯曲主轴设计，弯曲主轴采用花键设计，主轴本身采用优质合金钢，经特殊工艺制作，具有强度高、耐磨、使用寿命长的特点，为钢筋加工提供足够的扭矩输出；
The bending spindle of the machine with spline design is made of high-quality alloy steel by special technology. With the feature of high strength, abrasive resistance, and long service life, it can provide enough torque output in rebar processing.
- 5、可移动定尺挡板机构，实现钢筋在弯曲作业前的定尺，保证了钢筋加工成品的质量精度；
With the movable fixed ruler baffle mechanism, it can realize the length of the rebar before the bending to make the finished rebar high precision.
- 6、弯曲中心主机头传动方式为伺服电机齿条传动，进一步提升了弯曲加工的精确性和稳定性。
The bending head is moving by servo motor rack drive which improves the accuracy and stability of the bending process.

技术参数

Technical Parameters

型号	Model	FHB2-32A(电动 ELECTRIC)	FHB2-32 (气动 PNEUMATIC)
外形尺寸	Overall Size	12000*2155*1690 (L*W*H)	12000*2217*1352 (L*W*H)
工作电压	Working Voltage	380V	380V
总功率	Installed Power	15.5kw (实际功耗量 working power 5kw) , 50-60Hz	17.4kw (实际功耗量 working power 5kw) , 50-60Hz
气压			0.8MPa
主机移动速度	Bender moving speed	0.1-0.5m/s	0.1-0.5m/s
弯曲速度	Bending Speed	30" -48" /S(5-8r/min)	30" -48" /S(5-8r/min)
总重量	Overall Weight	约 4.5 吨 /about 4.5T	约 4.5 吨 /about 4.5T
最小短边弯曲尺寸	Min Length scope of the stirrup side	70mm	70mm
最大弯曲角度	Max bending angle	上弯曲 Upward bending 0-220° 下弯曲 Downward bending 0-120°	上弯曲 Upward bending 0-220° 下弯曲 Downward bending 0-120°
双向弯曲 (上弯曲或下弯曲)	Bi-directional bending (up or down bend)	Φ10mm-Φ28mm	Φ10mm-Φ28mm
单向弯曲 (上弯曲)	Unidirectional bending (upward bending)	Φ28mm-Φ32mm	Φ28mm-Φ32mm
最小曲边尺寸	Min. Space between stirrup side	Φ 10 560mm Φ 32 620mm	Φ 10 560mm Φ 32 620mm
最大边长尺寸	Max bending length	10.8m	10.8m
原料台输送速度	Feeding speed of storage convey table	0.6m/s	0.6m/s
原料台承载能力	Load capacity of storage table	3T	3T
工作环境温度	Working Temperature	-10°C—+50°C	-10°C—+50°C
加工能力	Processing capacity	Φ10mm 6Pcs/ 根	Φ12mm 5Pcs/ 根
		Φ14mm 4Pcs/ 根	Φ16mm 3Pcs/ 根
		Φ18mm 2Pcs/ 根	Φ20mm 2Pcs/ 根
		Φ22mm 2Pcs/ 根	Φ25mm 1Pcs/ 根
		Φ28mm 1Pcs/ 根	Φ32mm 1Pcs/ 根

智能钢筋 水平弯曲机器人

CNC REBAR HORIZONTAL BENDING CENTER



- 1、钢筋托料采用曲柄连杆机构，钢筋托起的同时，将钢筋送至弯曲机头上方，便于操作人员放料，降低工人劳动强度，此外采用电机减速机驱动，所有托料杆动作一致，传动平稳可靠；
With crank-connecting rod mechanism on rebar lifting mechanism, the rebar is sent to the top of the bending machine head as soon as it is lifted, which is convenient for the operator to discharge material and reduces the labor intensity of the workers. Driven by the motor reducer, all the bracket rods move in a unified way and the driving get more smooth and more steady.
- 2、弯曲机头行走机构采用齿轮齿条柔性啮合，解决了由于制造误差导致齿条与齿轮啮合不完全的问题，齿条为加厚型，刚性足，行走定位更准确、更平稳；
The flexible engagement of rack and gear is adopted in the walking mechanism of bending machine head, which solves the problem of incomplete engagement between rack and gear caused by manufacturing error. With enough rigidity thicken on rack, the moving and positioning get more accurate and more stable.
- 3、弯曲主轴采用花键设计，主轴本身采用优质合金钢经特殊工艺制作，具有强度高、耐磨，使用寿命长的特点；
The bending spindle is designed by spline, and the spindle itself is made of high quality alloy steel by special technology. It has the characteristics of high strength, wear resistance and long service life.
- 4、左右弯曲机头、夹持器处均设有钢筋自动卸料钩，加工较长钢筋时，仍可实现钢筋的自动卸料；
The automatic unloading hooks for rebar equipped on the left-right bending head and clamps can carry out automatic unloading even in the case of long rebar.
- 5、弯曲盘设有钢筋铁屑收集罩，防止大量铁屑落入减速机内，对减速机造成磨损；
The bending disc is equipped with a steel bar scrap collecting cover to prevent a large number of scraps from falling into the reducer and causing wear and tear on the reducer.
- 6、弯曲机头采用倾斜式安装，便于钢筋的上料和卸料；
The bending head is tilted to facilitate loading and unloading of reinforcing bars.
- 7、钢筋夹持器采用双作用气缸，夹持钢筋时，保证左右同时夹紧，更换钢筋规格时，无需调整夹持器；
Double-acting cylinder adopted on the clamp can ensure that both sides of rebar are clamped at the same time while being clamped. And there is no need to adjust the clamp when replacing different specification of rebars.
- 8、左、右弯曲机头的行走和弯曲均采用伺服电机，控制灵敏，弯曲精度高；
The moving and the bending of the left-right bending head are controlled by servo motors, which makes control more sensitive and bending accuracy higher.
- 9、操作系统具有柔性安全保护功能，防止弯曲检测光电失灵时，仍在执行弯曲动作，对机械机构造成损坏；
The flexible safety protection function on operation system can prevent machine from being damaged by bending action in the situation of photoelectric failure during bending detection.
- 10、操作系统设有强大的数据库，可存储 300 多种图形，对于大圆弧、长度递增变化筋，均可一键设置，无需人工每次输入参数。
The operating system has a powerful database, which can store more than 300 graphics. For large arcs and incremental length change ribs, it can be set by one key without manual input of parameters every time.

简介及优势 Introduction & Advantage

FHB-50H 数控斜式弯曲中心主要应用于铁路、高速公路、桥梁、隧道、地下管廊等国家基础设施建设领域，尤其适用于箱梁、盖梁中棒材钢筋的弯曲加工。该设备主要由输送辊道、托起机构、左弯曲机头、右弯曲机头、夹持器、卸料机构、接料小车、电控系统、气动系统等组成，采用 PLC 控制，设有强大图形数据库，智能化实现对钢筋的弯曲加工。

FHB-50H CNC oblique bending center is mainly used in railway, highway, bridge, tunnel, underground pipeline gallery and other national infrastructure fields, especially in the bending process of steel bar in box girder and cover girder. The equipment is mainly composed of conveyor roller, lifting mechanism, left bending head, right bending head, gripper, unloading mechanism, feeding trolley, electronic control system, pneumatic system, etc. It is controlled by PLC and has a powerful graphics database, which CNCLy realizes the bending of steel bar.

技术参数 Technical Parameters

型号	Model	FHB-50H
加工钢筋直径	Steel bar diameter	Φ12-Φ50mm
弯曲角速度	Bending angular velocity	45-60° /s
弯曲机移动速度	Bending machine moving speed	0.5-0.9m/s
弯曲角度	Bending angle	正向弯曲 0-180° / Forward Bending 0-180 Degree 反向弯曲 0-120° / Reverse Bending 0-120 Degree
装机功率	Installed power	27kw
最大输送辊道托起重	Max. Conveyor roller lifting load	600kg
弯曲机头最小中心距	Min. Center distance of bending head	950mm
弯曲机头最大中心距	Max. Center distance of bending head	11000mm
设备外形尺寸	Outline dimensions	12.8mx3mx1.1m
设备重量	Weight	约 5.5 吨 /about 5.5T
弯曲钢筋能量表 (12-40 为三级螺纹钢, 50 为一级螺纹钢或圆钢) Bending steel bar energy meter (12-40 for third-grade threaded steel, 50 for first-grade threaded steel or round steel)		
钢筋直径 Steel bar diameter	Φ12mm Φ16mm Φ18mm Φ20mm Φ22mm Φ25mm Φ28mm Φ32mm Φ36mm Φ40mm Φ50mm	
弯曲数量 Bending quantity	6Pcs/根 5Pcs/根 4Pcs/根 3Pcs/根 3Pcs/根 2Pcs/根 1Pcs/根 1Pcs/根 1Pcs/根 1Pcs/根 1Pcs/根	

智能钢筋弯箍机

CNC STIRRUP BENDER



简介及优势

Introduction & Advantage

- 1、可以根据钢筋直径数字控制牵引压紧量，电控化检测弯曲动作，使得操作更简单，工作更稳定；
That the traction pressing amount is controlled by the diameter of the steel bar & the bending action is detected by electronic makes operation and work Simpler and more stable .
- 2、双工位弯曲轴设置，可选配多种模具，可弯曲 100-1380mm 的各种箍筋；
With Double-position bending axis setting & optional multiple molds,it can bend various stirrups from 100mm to 1380mm.
- 3、机械式切断，只需定期更换磨损刀片，无其他易损配件，大大节省成本费用，剪切刀片采用优质模具钢制作经久耐用；
Great cost savings: mechanical cutting, only need to replace the wear blade regularly, no other vulnerable parts. More durable cutting blade of high-quality die steel.
- 4、经过特殊热处理工艺制作，表面硬 55-60HRC，具有耐腐蚀、耐磨、使用寿命长的特点。
Corrosion wear resistance & long service life: special heat treatment process to harden the surface to HRC55~60 .

技术参数

Technical Parameters

型号	Model	FHG-12	FHG-14	FHG-16
单根钢筋加工规格	Single wire Diameters	Φ6-Φ12mm	Φ6-Φ14mm	Φ8-Φ16mm
双根钢筋加工规格	Double wire Diameters	Φ6-Φ10mm	Φ6-Φ10mm	Φ8-Φ10mm
牵引电机功率	Traction motor power	同步伺服电机 Synchronous servo motor 13kw	同步伺服电机 Synchronous servo motor 15.5kw	同步伺服电机 Synchronous servo motor 18.5kw
弯曲电机功率	Bending motor power	同步伺服电机 Synchronous servo motor 5.5kw	同步伺服电机 Synchronous servo motor 7.5kw	同步伺服电机 Synchronous servo motor 9kw
剪切电机功率	Cutting motor power	机械式切断 3kw 刹车电机 Mechanical cut, 3kw brake motor	机械式切断 4kw 刹车电机 Mechanical cut, 4kw brake motor	机械式切断 9kw 刹车电机 Mechanical cut, 9kw brake motor
额定总功率	Rated total power	25.5kw	30kw	36kw
外形尺寸	Overall dimension	3500mm*960mm*2000mm	2600mm*960mm*2000mm	2600mm*960mm*2000mm
主机重量	Overall machine weight	2000kg	2500kg	2800kg
弯曲角度 (正反弯)	Bending angle (positive and negative bending)	0 - 180°		
长度精度	Length tolerance	±1mm		
角度精度	Bending angle tolerance	±1°		
触摸屏	Touchable screen	10 寸		
系统	System	飞宏 6.0 智能系统 (上电科) Feihong 6.0 CNC System		
牵引钢筋速度	Traction steel speed	110m/min (最大 / MAX)		
最大弯曲速度	Bending Speed	1200° /sec		
额定电压	Rated Voltage	380V		
气动系统压力	Pneumatic system pressure	≥ 0.7Mpa		
空压机功率	Air compressor power	4kw		



智能钢筋 箍筋板筋一体 机器人

CNC MULTIFUNCTION
STIRRUP BENDER



简介及优势

Introduction & Advantage

- 1、可以根据钢筋直径数字控制牵引压紧量，电控化检测弯曲动作，使得操作更简单，工作更稳定；
The traction pressing amount can be controlled according to the diameter of the steel bar, and the bending action can be detected electronically, so that the operation is simpler and the work is more stable;
- 2、双工位弯曲轴设置，可选配多种模具，可弯曲 100-1380mm 的各种箍筋；
Double-position bending axis setting & optional multiple molds; it can bent various stirrups of 100-1380mm;
- 3、机械式切断，只需定期更换磨损刀片，无其他易损配件，大大节省成本费用，剪切刀片采用优质模具钢制作，经久耐用；
Mechanical cutting, only need to replace the wear blade regularly, no other vulnerable parts, greatly saving cost, the cutting blade is made of high quality die steel, is more durable.
- 4、经过特殊热处理工艺制作，表面硬 55-60HRC，具有耐腐蚀、耐磨、使用寿命长的特点。
Made by special heat treatment process, the surface is hard 55-60HRC, with corrosion resistance, wear resistance and long service life.

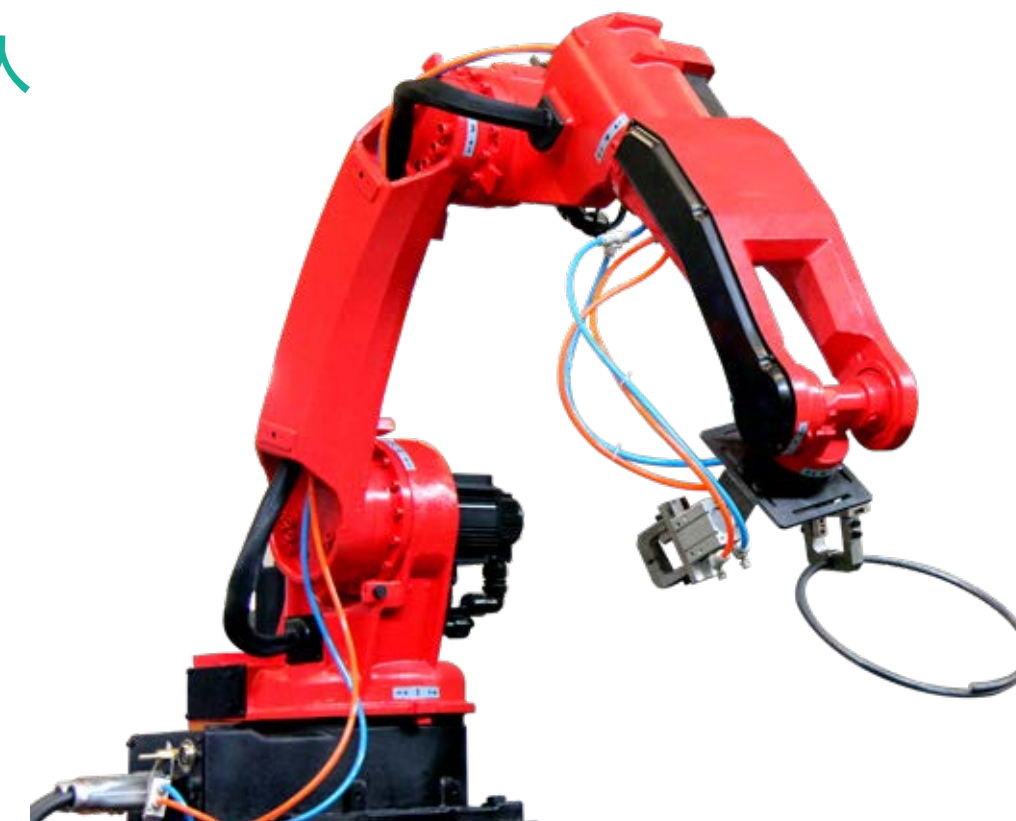
技术参数

Technical Parameters

型号	Model	FHG-12	FHG-14	FHG-16
单根钢筋加工规格	Single wire Diameters	Φ6-φ12mm	Φ6-φ14mm	Φ8-φ16mm
双根钢筋加工规格	Double wire Diameters	Φ6-φ10mm	Φ6-φ10mm	Φ8-φ10mm
牵引电机功率	Traction motor power	同步伺服电机 Synchronous servo motor 13kw	同步伺服电机 Synchronous servo motor 15.5kw	同步伺服电机 Synchronous servo motor 18.5kw
弯曲电机功率	Bending motor power	同步伺服电机 Synchronous servo motor 5.5kw	同步伺服电机 Synchronous servo motor 7.5kw	同步伺服电机 Synchronous servo motor 9kw
剪切电机功率	Cutting motor power	机械式切断 3kw 刹车电机 Mechanical cut, 3kw brake motor	机械式切断 4kw 刹车电机 Mechanical cut, 4kw brake motor	机械式切断 9kw 刹车电机 Mechanical cut, 9kw brake motor
额定总功率	Rated total power	25.5kw	30kw	36kw
外形尺寸	Overall dimension	3500mm*960mm*2000mm	2600mm*960mm*2000mm	2600mm*960mm*2000mm
主机重量	Overall machine weight	2000kg	2500kg	2800kg
弯曲角度（正反弯）	Bending angle (positive and negative bending)	0 - 180°		
长度精度	Length tolerance	±1mm		
角度精度	Bending angle tolerance	±1°		
触摸屏	Touchable screen	10 寸		
系统	System	飞宏 6.0 智能系统（上电科） Feihong 6.0 CNC System		
牵引钢筋速度	Traction steel speed	110m/min (最大 / MAX)		
最大弯曲速度	Bending Speed	1200° /sec		
额定电压	Rated Voltage	380V		
气动系统压力	Pneumatic system pressure	≥ 0.7Mpa		
空压机功率	Air compressor power	4kw		

弯箍机 智能搬运机器人

ROBOT ARM FOR STIRRUP
BENDER



简介及优势

Introduction & Advantage

弯箍机智能机器人搬运设备是本公司开发的具有自主知识产权的弯箍机自动化设备。设备主要用于地铁，桥梁，房建，机场，高速地基基础；采用 PLC 控制，能自动抓取弯箍机的成型产品，节省劳动力。

The intelligent handing equipment for stirrup bender developed by our company independently possesses independent intellectual right.it is mainly used for subway,bridge,housing construction,airport,high-speed foundation etc. With PLC control, it can automatically catch the molding products from bending machine ,which greatly saved labour Power.

机器人技术参数

Robot parameters

名称	Name	多用途机器人 Multi-purpose robot
类型	Type	垂直关节 6 自由度 vertical joint 6 degrees of freedom
主要用途	Main use	搬运、码垛、上下料 handling, palletizing, loading and unloading
最大可搬运重量	Maximum transportable weight	10kg
位置重复精度	Position repeatability	±0.08mm
电源容量	Battery capacity	1.7KVA
整机重量	Total Weight	170kg
安装方法	Installation method	地面 / ground
使用环境	Use environment	0-45degree; 20-80% RH (无结露 No condensation)
防护等级	Protection level	与 IP65 相当 Equivalent to IP65

动作参数

Action parameters

动作范围	基本轴	J1	±170°	最大速度	基本轴	J1	138°/S
Range of motion	Basic axis	J2	+180° -40°	Maximum Speed	Basic axis	J2	100°/S
		J3	+170° -9°			J3	136°/S
		手臂轴	J4			±150°	手臂轴
Hand arm shaft	Hand arm shaft	J5	+22° -202°	Hand arm shaft	Hand arm shaft	J5	180°/S
		J6	±360°			J6	196°/S

智能钢筋 网片焊接 机器人

CNC WIRE MESH WELDING MACHINE

简介及优势

Introduction & Advantage

钢筋网片焊机采用电力电子同步控制技术，控制系统采用 PLC 可编程控制器，操作界面采用触摸屏和按钮控制，工作方式简单，操作更加智能化、人性化。

Wire mesh welding machine adopts power electronic synchronous control technology and PLC Control System. The operation interface controlled by the combination of touch screen and button makes operation more intelligent and humanized.

- 1、一体式变频电机及斜齿轮减速机直接连接主轴，低噪音，高效率。
Integrated frequency conversion motor and helical gear reducer directly connect to the main shaft, low noise, high efficiency.
- 2、环氧树脂浇注水冷焊接变压器，可连续工作使用寿命更长。
Epoxy-cast water-cooled welding transformers can work continuously and has a long service life.
- 3、松下伺服电机 + 行星减速机驱动拉网机构往复循环拉网，质量高，拉网尺寸精准。
Panasonic servo motor+planetary reducer drives pulling mechanism to continue pulling the net circularly ,which achieve high quality and high accuracy in size of the net.
- 4、独有漏斗控制方案：漏斗里面无丝或者落丝不正常，设备暂停运行，直到漏斗正常为止。
Unique funnel control solution :In the case of no steel wire or abnormal steel wire doffing in funnel ,The equipment would be suspended until it get normal.
- 5、自动落网、成品网输出：每张焊接网自动落至输出机构，堆叠一定数量后自动输出，成品网片方便运输，节省人工。（选配）
Automatic landing,finished product output: Each welding net automatically falls into the output mechanism then is output after a certain number of stacks. Easy transportation and labor saving.(Optional)
- 6、PLC、伺服电机及驱动器均为松下品牌，触摸屏为台湾威纶通，其他电器类均采用施耐德、天正、台湾明伟等知名品牌产品，气动原件为日本 SMC 品牌，确保设备的高质量运行可靠性。
Adopt advanced brand in the world to ensure the machine operate with high quality and reliability. Panasonic used in PLC ,servo motor ,driver ; Weinview used in touch screen;JAPAN SMC used in the original pneumatic components,and other famous brand such as Schneider,Tianzheng etc. used in other electrical appliances of the machine.

技术参数

Technical Parameters

型号	Model	FHM2500	FHM1500
额定电压	Rated voltage	3phase 380v 50hz	3-phase 380v 50hz
径丝间距	Longitudinal wire space	100-300mm	100-300mm
焊接丝径	Welding diameter	5.0-12.0mm	3-10mm
焊点数量	Number of solder joints	24 个	8 个
焊接速度	Welding speed	40-65 排 / 分钟 rows/minute	40-75 排 / 分钟 rows/minute
焊接网宽	Welding width	≤2500mm	≤1500mm
纬丝间距	Spiral wire space	50-300mm	25-300mm
额定容量	Rated capacity	焊接变压器 150KVA*13	150KVA*2
径丝送料	Spiral wire feeding	调直切断丝 /straightening and cutting wire	调直切断丝 /straightening and cutting wire
纬丝送料	Longitudinal wire feeding	调直切断丝 /straightening and cutting wire	调直切断丝 /straightening and cutting wire
电机功率	Motor power	电源: ≥400KVA	电源: ≥150KVA
外形尺寸	Dimension(L*W*H)	14000*3100*2300mm	14000*2100*2300mm
整机重量	Machine weight	6500kg	3000kg



智能钢筋 桁架焊接 生产线

CNC LATTICE GIRDER PRODUCTION LINE

简介及优势

Introduction & Advantage

数控钢筋桁架焊接生产线是集盘条原料放线、钢筋矫直、弯曲成形、自动焊接、定尺切断及成品数控输送的全自动化生产线。数控钢筋桁架焊接生产线广泛的应用于高速铁路上双块式轨枕桁架生产与楼盖板桁架的生产。

Intelligent rebar truss rolling welder is a completely automatic production line that contains the raw material wire setting, steel strengthening, bend forming, automatic welding, fixed ruler cutting and CNC delivery of finished products. It is widely used in the production of double-block sleeper truss on high-speed railway and the production of floor slab truss.

- 1、整机设计一机两用（不需添加任何零部件，能生产建筑楼盖板、高铁轨枕桁架）；
One machine dual use (without adding any spare parts, it can produce floor slab truss and high-speed rail sleeper truss).
- 2、剪切机构采用性能稳定、耐用的液压剪切。优良材质组合刀延长 2-4 倍使用寿命；
Stable and durable hydraulic shearing is adopted in the shearing mechanism. 2-4 times of service life can be prolonged with the combination knife of excellent material.
- 3、整机设计环保理念贯穿始终，符合环保要求； Environmental protection runs through the whole machine.
- 4、设备自带全部基础底座，减少安装成本； Low installation cost equipped with foundation base.
- 5、电器元件、标准件选用国际一线产品，确保设备可靠性。
Advanced electrical components and standard parts to ensure the reliability of equipment.

技术参数

Technical Parameters

型号	Model	FHLG-270
焊接速度	Welding speed	12-18 m/min
焊接变压器功率	Welding transformer power	4*250KVA
其他功率	Other power	130KVA
额定电压	Rated voltage	380v 50hz
系统电压	System voltage	380v 50hz(can custom/ 可订制)
控制电压	Control voltage	24V
弯曲侧筋直径	Bending side stirrup diameter	4-8mm
上弦筋直径	First quarter wire diameter	8-12mm
下弦筋直径	Last quarter wire diameter	6-12mm
桁架高度	Girder height	70-270mm (can custom/ 按需订制)
桁架宽度	Girder width	60-80mm (bending width-140,can custom make upon request. 弯脚后宽 -140, 按需订制)
桁架长度	Girder length	1000-12000mm
腹杆节距	Web member pitch	200mm
电缆截面积 (mm ² , 铜芯 Copper core)	Cable section	120+1*70*3 (power and machine distance is within 50 meters 电源距设备 50 米以内)
设备总重量	Machine weight	20000mm
设备外形尺寸	Overall size	42m*3m*4m



智能钢筋 数控调直 切断机

CNC WIRE STRAIGHTENING AND CUTTING MACHINE



简介及优势

Introduction & Advantage

- 1、效率高（矫直速度 136 米 / 分钟）；
High efficiency (straightening speed in 136m/min).
- 2、精度高（定尺误差控制在 ±1 毫米）；
Accurate precision (sizing error in ±1 mm).
- 3、德国西门子系统，使用寿命长。
German Siemens system with long service life.

FHT 系列高效钢筋矫直切断机技术参数

High-speed wire straightening and cutting machine parameter

矫切机性能	Performance	单位 / Unit	FHT3-10	FHT5-10	加强 FHT8-14A	FHT6-12	FHT12-16	加强 FHT6-12A	
					Strengthen		Strengthen		
热轧盘圆 HPB	Hot rolled round steel HPB	mm	φ5 - φ10	φ5 - φ10	φ8 - φ14	φ5 - φ12	φ12 - φ16	φ6 - φ12	
HRB335 热轧 II 级钢筋螺	HRB335 hot rolled ribbed Class II Disc deformed steel bar	mm	φ5 - φ8	φ5 - φ8	φ8 - φ14	φ6 - φ10	φ12 - φ16	φ6 - φ12	
HRB400 热轧 III 级钢筋螺	HRB400 hot rolled ribbed Class III Disc deformed steel bars	mm	φ5 - φ8	φ5 - φ8	φ8 - φ14	φ6 - φ10	φ12 - φ16	φ6 - φ12	
冷轧光圆冷轧带肋钢筋	cold rolled steel wire and cold rolled ribbed steel wire	mm	φ3 - φ10	φ5 - φ10	φ8 - φ14	φ5 - φ12	φ12 - φ16	φ5 - φ12	
矫切定尺长度	Cutting length	m	1—12						
矫切速度（可变速，有三档速度）	Cutting speed (adjustable, three level)	m/min	70-100-130						
矫切后钢筋的直线度	Straightness	mm/m	≤ 2						
矫切定尺长度精度	Cutting length precision	mm	≤ ±1						
总装机功率	Power	kW	18.5+4	18.5+4	22+4	30+4	37+4	45+4	

φ14 及以上钢筋限 100 米 / 分钟；型号适用范围可扩充。
The reinforcing bar of φ14 and above is limited to 100 meters per minute, and the applicable range of the model can be expanded.

智能钢筋笼 绕筋机器人

CNC SPIRAL WIRE
WINDING MACHINE



简介及优势

Introduction & Advantage

- 速度快:** 待工状态 2 人可全程生产, 正常工况 3-6 人一天可生产 10-20 多节钢筋笼;
Fast speed: 2 workers can work on full production, 3-6 workers can produce 10-20 multi-section rebar cages one day in normal working conditions.
- 质量稳定:** 机械化作业不受人为因素影响, 质量稳定;
Stable quality: Mechanized operation is not affected by human factors, so that the quality is stable.
- 生产规格多样:** 满足各类钢筋笼的生产要求, 不受主筋和箍筋和数量、形式、型号、大小、长度等因素的影响;
All kinds of production requirements can be met without the influence of the longitudinal rebar, spiral wire and quantity, form, models, size, length etc.
- 生产便捷:** 组合式设计的绕筋机, 在安装、生产、搬运等过程中都不用依赖起重设备, 既能满足大批量的固定生产要求也能满足施工现场较分散的机动作业, 灵活性强;
Convenient production: the combined design of winding machine does not lifting equipment during the process of installation, production, transportation and so on, which not only meet the requirements of large quantities of fixed production, but also satisfy the decentralized operation of the construction site.
- 功耗低:** 总功率不到 10kw, 同步工作时总功率不到 5kw, 节能且不影响总电容配比;
Low power consumption: the total power is less than 10kw, the total power of synchronous operation is less than 5kw, energy saving no effect on the total capacitance ratio.
- 流水线生产:** 独立施工不受各工序影响, 不间断完成主筋箍筋焊接成型、绕筋过程施焊等全部过程;
Continuous flow-line production: independent construction is not affected by processes, which can continuously complete the whole process of longitudinal bars and spiral wire forming while welding, and the spiral wire welding while winding.
- 采用螺纹连接技术可精准定位, 帮助提高钢筋笼分解、安装速度;**
With thread connection technology used in precise positioning, it can improve the speed of the decomposition and the installation of rebar cage.
- 零部件设计寿命长, 备件更换简单快捷。**
Components designed with long service life, spare parts replacement with simpleness and convenience.

技术参数

Technical Parameters

型号	Model	FHR2500
绕筋线速	Winding speed	0-15.4m/min (i=59*1.25=73.75)
外形尺寸	Overall size	Main machine 13m*1.8m*0.8m
小车	Trolley	15m*1.3m*1.5m
安装尺寸	Installation dimension	16m*4m
工作温度	Working temperature	0-40°C
设备重量	Machine weight	7T
焊接方式	Welding method	不限 Unlimited
焊接材料	Welding material	焊丝、焊条 welding wire, welding rod

手提式 液压弯曲机

PORTABLE
HYDRAULIC BENDING
MACHINE



简介及优势

Introduction & Advantage

设备性能及特点:

灵活方便, 适合工地现场使用, 专门配套;
高油压, 弯曲速度快;
操作简单, 减轻劳动力;
引进欧洲最新技术, 国内首创, 专利技术。

Equipment advantage:

Flexible and convenient, suitable for site use, special support.
High oil pressure, fast bending speed.
Simple operation, reduce labor
Absorbed the latest advanced technology from Europe, as a domestic initiative it processes patented technology.

小型钢筋 切断机

BAR CUTTING
MACHINE



技术参数

Technical Parameters

型号 Model	FHC40	FHC46pro	FHC60	FHC65
切断直径 Cutting diameter	III 级螺纹 ≤ 32mm 普通碳素钢 ≤ 35mm	II 级螺纹 ≤ φ36mm III 级螺纹钢 ≤ φ32mm 普通碳素钢 ≤ φ40mm	III 级螺纹 ≤ 42mm 普通碳素钢 ≤ 48mm	III 级螺纹 ≤ 45mm 普通碳素钢 ≤ 50mm
电机功率 Motor power	3kw/2	3kw/2	5.5kw/2	7.5kw/2
电压 Voltage	380V	380V	380V	380V
刀片尺寸 Blade size	83*83*26mm	83*83*26mm	100*100*28mm	110*110*28mm
整机质量 Weight	400kg±5	450kg±5	700kg±5	900kg±5
外型尺寸 Overall dimension	1300*450*680mm	1400*500*750mm	1480*550*870mm	1610*600*950mm

小型钢筋弯曲机

BAR BENDING MACHINE



技术参数

Technical Parameters

型号 Model	FHB40C 型	FHB50pro 型弯曲机	FHB-40 型弯曲机 (八角)	FHB42 型弯曲机	FHB50 钢筋弯曲机	FHB60A 型智能弯曲机
工作能力 Bending ability	III 螺纹 ≤ 32mm 普通碳素钢 ≤ 35mm	螺纹 ≤ 38mm 圆钢 ≤ 42mm	III 螺纹 ≤ φ32mm 普通碳素钢 ≤ φ35mm	III 螺纹 ≤ 32mm 普通碳素钢 ≤ 35mm	III 螺纹 ≤ φ38mm 普通碳素钢 ≤ φ42mm	III 螺纹 ≤ φ42mm 普通碳素钢 ≤ φ45mm
	Grade III Ribbed Bar ≤ 32mm General Carben Steel Bar ≤ 35mm	Grade III Ribbed Bar ≤ 38mm General Carben Steel Bar ≤ 42mm	Grade III Ribbed Bar ≤ φ32mm General Carben Steel Bar ≤ φ35mm	Grade III Ribbed Bar ≤ 32mm General Carben Steel Bar ≤ 35mm	Grade III Ribbed Bar ≤ φ38mm General Carben Steel Bar ≤ φ42mm	Grade III Ribbed Bar ≤ φ42mm General Carben Steel Bar ≤ φ45mm
电机功率 Electric	3kw-2	3kw	3kw	3kw	3kw-2	7.5kw
电压 Power	380V	380V (可改 / adjustable)	380V	380V	380V	380V
整机质量 Voltage	350kg	350kg	360kg	300kg	350kg	500kg
外型尺寸 Machine Weight	770*740*730mm	820*870*750mm	740*830*850mm	800*740*890mm	940*740*770mm	1080*880*860mm

简介及优势

Introduction & Advantage

- 1、加强蜗轮，钢件打蜗杆，锻造实心外挂齿轮；
Enhanced worm gear, steel-forged worm and solid external gear. Fully solid square steel, disc and surface grinding machine processing.
- 2、全实心方钢、圆盘，表面磨床加工，主轴采用 NJ215 滚柱轴承，可调式电机板，张紧三角带；
NJ215 roller bearing is adopted for the spindle. Adjustable motor board & tension triangle belt.
- 3、自动型：工作圆盘侧面开 T 形槽设止动螺丝，工作圆盘可在选择一定角度时自动回位，提高效率；
Automatic type: T-groove on the side of the working disc is provided with stop screw, and the working disc can be returned automatically when a certain angle is selected to improve efficiency.
- 4、数控型：使用全实心工作圆盘，采用了编码器和 PLC 数控操作面板，使用更方便，角度更精准。
CNC type: fully solid working disc, encoder and PLC CNC operating panel for easy operation and precise angle.

小型钢筋弯箍机

STIRRUP BENDING MACHINE



技术参数

Technical Parameters

型号 Model	FHG-20 数控弯箍机	FHG-20 (2250) 数控弯箍机	FHG-25 (红 Red) 数控弯箍机	FHG-25 (黄绿 Green and yellow) 数控弯箍机
工作能力 Working ability	III 螺纹 ≤ 16mm Three-stage threaded steel 普通碳素钢 ≤ 18mm Ordinary carbon steel	III 螺纹 ≤ 16mm Three-stage threaded steel 普通碳素钢 ≤ 18mm Ordinary carbon steel	III 螺纹 ≤ 25mm Three-stage threaded steel 普通碳素钢 ≤ 25mm Ordinary carbon steel	III 螺纹 ≤ 16mm Three-stage threaded steel 普通碳素钢 ≤ 18mm Ordinary carbon steel
电机功率 Motor power	2.2kw-2	2.2kw-2	3kw-2	3kw-2
电压 Voltage	380V	380V	380V	380V
整机质量 Weight	130kg	103kg	172kg	230kg
外形尺寸 Overall Dimension	830*540*890mm	740*550*880mm	930*650*860mm	960*680*900mm

简介及优势

Introduction & Advantage

钢筋弯曲弯箍机主要由传动机构、机架、弯曲弯箍夹具和电器控制四部分组成。工作时由电动机经三角带、皮带轮带动齿轮，再由齿轮带动工作圆盘转动。
Principle of the machine structure: four parts make up this machine: the transmission mechanism, the frame, the bending hoop fixture and the electrical control. During operation, the gear is driven by the motor via the v-belt and the pulley, and then rotates the working disk.

- 1、花键轴高频热处理，采用高强度齿轮，提高使用寿命；
Service life is prolonged with high-strength gears and high-frequency heat treatment of spline shaft.
- 2、主轴轴承采用双层密封（密封轴承、上轴座加密封），杜绝工作时氧化铁过入轴承；
Spindle bearing is sealed by double-layer seals (bearing seal, upper shaft seat seal) to prevent iron oxide entering the bearing during work.
- 3、主轴采用高频热处理，韧性高；
High-frequency heat treatment is adopted in spindle to enhance toughness.
- 4、坚固滑道式挡料板，有效降低电机弯曲负荷；
Sturdy skid type baffle plate to reduce bending load of the motor effectively.
- 5、主轴齿轮采用半圆齿，确保弯曲时钢筋无缠绕现象。
Semi-circular tooth is adopted for the main shaft gear to ensure that there is no winding phenomenon during bending process.

智能 8 字筋成型机

8 SHAPE REBAR FORMING MACHINE



简介及优势

Introduction & Advantage

- 1、生产 8 字形钢筋，一次成型，过程无需人工干预，实现全程自动化；
It can be outfitted with automatic feeding and charging device without manual intervention in one take.
- 2、将钢筋剪切、弯曲成型、焊接成型三种功能有机完美结合，制作尺寸规范。
Perfect combination of steel cutting, bending and welding to make the products more precise.

技术参数

Technical Parameters

产品型号 Product model	FH8A-20
总功率 Total power	4kw
电压 Voltage	380V
液压系统压力 Hydraulic system	0-16Mpa
油缸推进速度 Cylinder propulsion speed	23-33mm/s
外型尺寸 (长*宽*高) Overall size (l*w*h)	2.5m*0.8m*1.4m
重量 Weight	110kg

智能 8 字筋压型机

8 SHAPE REBAR MOLDING MACHINE



简介及优势

Introduction & Advantage

- 1、模具采用线切割一次成型、外观好、误差小，采用压板安装方式，拆换方便；
Formed by wire cutting, good in appearance and small in error, the mould can cut in one take, and be disassembled and replaced by pressing plate installation.
- 2、该系统采用手动换向阀对油缸进行换向，有效防止了系统发热，大大降低了卡阀现象。
The system adopts manual directional valve to change the direction of the cylinder, effectively prevents the system from heating and greatly reduces the phenomenon of jamming valve.

技术参数

Technical Parameters

产品型号 Product model	FHPS-35
总功率 Total power	4kw
电压 Voltage	380v
钢筋规格 Specification of steel bar	φ20mm
液压系统压力 Hydraulic system	16Mpa
油缸推进速度 Cylinder propulsion speed	35-50mm/s
外型尺寸 (长*宽*高) Overall size (l*w*h)	1400*800*1300mm
重量 Weight	900kg

液压联合 冲剪机

HYDRAULIC COMBINED
PUNCHING AND
SHEARING MACHINE



简介及优势

Introduction & Advantage

- 1、本机器主要用于板料剪切、型材剪切、冲孔及模剪，适用于造船、电力、桥梁、汽车、起重运输、金属结构以及各机械加工厂等部门；
The machine is mainly used for sheet, section bar and moulds shearing, moreover, punching according to the specifications listed in the basic parameters. It is suitable for shipbuilding, electric power, bridge, automobile, crane transportation, metal structure and other machinery processing plants.
- 2、本机器能按基本参数所列的规格进行板料剪切、型材剪切与冲孔模剪等。冲孔和模剪工位，如果换上本机配套的其它附件，还可作特殊形状的剪切、冲压、弯曲板料 90°、V 形缺口剪切等工艺；
Punching and mould shearing positions can also be used for special shape of shearing, stamping and bending sheet to 90°, moreover, V-notch shearing and other processes.
- 3、本机器采用液压传动，整机结构合理，重量轻，噪声低，轻便可靠且具有过载性能。
Driven by hydraulic transmission, the machine is reliable with overload performance. Furthermore, reasonable in structure, light in weight and low in noise.

技术参数

Technical Parameters

型号 / Model	型号 / Model	FH35-20	
板材剪切 Sheet shearing	一次行程可剪扁钢厚 X 宽	One stroke can shear flat steel thickness x width	20*330mm
	可剪最大规格	Max shearing specification	10*480mm
	剪切刀片长度	Cutting blade length	485mm
	刀片角度	Blade angle	8°
型材剪切 Section bar shearing	方钢边长	Side length of square steel	50mm
	圆钢直径	Round steel diameter	50mm
	槽钢直径	U-bar diameter	16mm
	工字钢直径	I-beam diameter	16mm
	等边角钢 90 度剪切	90 Degree shear of equilateral angle steel	140*12mm
	模剪 Moulds shearing	厚度 * 宽度 * 深度	Thickness * width * depth
冲孔 Punching	厚度	Thickness	20mm
	最大直径	Max. Diameter	30mm
	冲压力	Punch pressure	750Kn
	喉口深度	Throat depth	355mm
	最大行程	Max. Stroke	80mm
	行程次数	Stroke number	5 次 / 分 times/min
	电机功率	Motor power	5.5kw
外形尺寸	(长 * 宽 * 高)	Overall size	1860*790*1900mm
机器重量	Weight		2000kg

液压闸式 剪板机

HYDRAULIC BRAKE
PLATE SHEARING
MACHINE

简介及优势

Introduction & Advantage

- 1、本系列机床为全钢焊接结构；
This series of machine tools are all steel welded structures.
- 2、上刀架在液压缸的驱动下，向上往下做上下运动，并由氮气缸回程；
Driven by the hydraulic cylinder, the upper knife rack moves up and down, and is returned by the nitrogen cylinder.
- 3、采用德国技术进行内应力消除；3. The internal stress is eliminated by German technology.
- 4、刃口间隙调整有指示牌指示，调整轻便迅速；
The edge clearance adjustment is indicated by a sign, which is easy and quick to adjust.
- 5、设有灯光对线装置，采用栅栏式人身安全保护装置；
It is equipped with light alignment device and fence personal safety protection device.
- 6、后挡料尺寸及剪切次数有数字显示装置。
There is a digital display device for the size and shearing times of the rear retaining material.

性能特点

Performance features

- 1、工作台上设有辅助刀座，便于刀片做微量调节；
The worktable is equipped with an auxiliary knife holder, which facilitates the micro-adjustment of the blade.
- 2、工作台上装有送料滚球，操作轻便；
Easy to operate with the feeding ball.
- 3、刀片间隙调整采用无级调整机构，适应不同板厚及材质的剪切需要；
The infinite adjusting mechanism is used to adjust the edge clearance to meet the shearing requirements of different thickness and material.
- 4、矩形下刀片，可使用四个刃口剪切，延长了刀片的使用寿命；
The rectangular blade can be shared with four edges, thus prolonging the service life of the blade.
- 5、调整剪切行程，既可提高加工效率，又可实现分段剪切功能；
Adjusting the shearing stroke can not only improve the machining efficiency, but also realize the function of sectional shearing.
- 6、剪切次数自动计数，减少了繁琐的清点工作。主机(X轴)重复定位精度±.20mm，设备定位精度±.30mm。
Automatic counting of shearing times reduces the tedious inventory work. Repeated positioning accuracy of the host (X-axis) ±20 mm, and positioning accuracy of the equipment ±30 mm.

技术参数

Technical Parameters



型号	Model	FH11K20*3200	
可剪最大板厚	Shear plate thickness	20mm	
可剪最大板宽	Shear plate width	4000mm	
被剪板料强度	Shear strength	450Mpa	
剪切角	Shear angle	1° 30'	
后挡料最大距离	Rear stop distance	600mm	
行程次数	Travel times	10 次 / 分 times/min	
立柱间距	Column spacing	4200mm	
刀片长度	Blade length	4000mm	
工作台高度	Worktable height	900mm	
主电动机	Main motor	型号	Model Y132M-4
		功率	Power 18.5kw
		转速	Speed 1100r/min
后挡料电机	Rear retaining motor	型号	Model Y2-712-4
		功率	Power 0.75kw
		转速	Speed 960r/min
齿轮泵	Axial piston pum	型号	Model 32F
		流量	Flow 32ml/r
	压力	Pressure 31.5Mpa	
外形尺寸长 * 宽 * 高		Dimensions (length * width * height) 4500*1850*2850 mm	

数控钢筋弯拱机

CNC REBAR ARCH BENDING MACHINE



简介及优势

Introduction & Advantage

弯拱机（冷弯机）是目前隧道施工的必备设备，主要应用于钢拱架的冷加工。冷弯机规格为 FHWG 型。该机可对钢轨、工字钢、H 钢进行冷加工。该机具有效率高、无需进行热加工，加工的拱架强度高、运输方便等优点。广泛应用于隧道施工中，是钢拱架制造的理想设备。

The arch bending machine (cold bending machine) is an essential equipment for tunnel construction and is mainly used for cold processing of steel arches. The specification of the machine is FHWG. It can process rail, I-beam and H steel efficiently without hot processing. The arch has the advantages of high strength and convenient transportation. The machine is widely used in tunnel construction as an ideal equipment for steel arch manufacturing.

- 1、机械系统采用摆线针轮减速器直接驱动滚轮转动，为实现两个滚轮同步，采用两电机同时启动实现同步，为满足工况要求，可进行正反转运转；

Cycloidal pinwheel reducer is used in the mechanical system to drive the rollers to rotate directly. The two motors are used to start simultaneously to synchronize the two rollers. And forward and backward operation can be carried out to meet the requirements of working conditions.

- 2、该系统采用手动换向阀对油缸进行换向，实现油缸的正反向运动，采用单向节流阀调节油缸运动速度，利用双向液控单向阀对油缸进行锁闭，当换向阀处于中位时，系统卸荷，有效防止了系统发热；

The system uses manual reversing valve to reverse the cylinder to realize forward and backward movement. The one-way throttle valve is used to adjust the speed of the cylinder while the two-way hydraulic control check valve is used to lock the cylinder. When the reversing valve is in the neutral position, the system unloads and effectively prevents the system from heating.

- 3、电气系统主要对油泵电机、行走电机进行控制，行走电机设有正反转控制及过载保护。当回油滤清器堵塞需要更换滤芯时、滤清器堵塞指示灯亮。此时须更换滤芯。在主回油路中设有空气开关（主开关）对整个系统进行有效保护。

The electrical system mainly controls the oil pump motor and the traveling motor, and the traveling motor is provided with positive and negative control and overload protection. The filter blockage indicator lights when the oil return filter is clogged and the filter element needs to be replaced. An air switch (main switch) is installed in the main return oil circuit to effectively protect the entire system.

技术参数

Technical Parameters

产品型号	Model	FHWG-250
可弯曲	Bending Range	10#-25# I-beam
总功率	Total Power	12kw
电压	Voltage	380V
液压系统压力	Hydraulic system pressure	16Mpa
油缸推进速度	Hydraulic cylinder propulsion speed	1-13mm/s
主驱动轮转速	Main drive wheel speed	7r/min
最小弯曲直径	Minimum bending diameter	2M
重量	Weight	1800kg
外型尺寸（长*宽*高）	Dimensions (length * width * height)	2500*1500*1200mm

数控小导管尖头机

CNC SMALL CATHETER POINTED MACHINE



简介及优势

Introduction & Advantage

- 1、我公司率先研发出新工艺，成功解决超前小导管前端尖角加工难的问题；
New technology is developed to solve the difficult machining of the front end of the advanced small catheter successfully.
- 2、设备增加自动送料机构，无需人工送进，操作安全性高；
Automatic feeding mechanism without manual delivery and of high operating safety.
- 3、压缩模具采用高强度耐磨材料，经久耐用；
Compression mold is durable with high-strength wear-resistant materials.
- 4、加工工件成形时间短，效率高，加工表面光滑，工件无上痕；
Short forming time, high efficiency and smooth surface without marks of the workpiece.
- 5、机器性能稳定，结构坚固，成品效率高，振动小，噪音低。
Stable performance, strong structure, small vibration and low noise of the machine, high efficiency of the products.

技术参数

Technical Parameters

型号	Model	FH50NCB
缩尖直径	Maximum bending capacity	50mm
缩尖厚度	Maximum bending capacity	8mm
设备功率	Power	5.5kw
设备重量	Weight	2600kg
外形尺寸（L*W*H）	Dimension (L*W*H)	900*1100*1260mm

数控小导管冲孔机

CNC SMALL CATHETER PUNCHING MACHINE



技术参数

Technical Parameters

技术参数	Main Technical Parameters	数值范围 / Numerical Range
钢管直径	Steel Pipe diameter	Φ40mm Φ50mm Φ60mm Φ76mm Φ89mm Φ108mm
冲孔范围	Punching Range	Φ6-Φ16mm
最大加工有效长度	Maximum Processing Effective Length	500-6000mm
冲孔速度	Punching Speed	12Times/min
送料速度	Feeding Speed	200-800mm/sec
送料精度	Feeding Accuracy	±0.30mm
油泵电机功率	Oil Pump Motor Power	7.5kw
液压系统压力	Hydraulic System Pressure	14mpa

小型钢筋 调直切断机

CNC STEEL BAR
STRAIGHTENING AND
CUTTING MACHINE



简介及优势

Introduction & Advantage

- 1、采用微电脑控制，对钢筋（圆钢，螺纹钢）进行自动调直，自动液压切断；
With the control of micro-computer, the rebar (round steel & screw-thread steel) is strengthened and cut automatically by hydraulic pressure.
- 2、“傻瓜”式操作系统，懂123即会使用；Easy to operate.
- 3、电子数字尺，无须机械尺枪；Electronic digital ruler, without mechanical ruler.
- 4、占地少，重量适中，拆装容易，搬运方便；Less land occupation, moderate weight and easy to remove and pack.
- 5、多批次同时输入长度及数量，电脑储存记忆，高效方便；
Efficient and convenient: multiple-batch input of length and quantity simultaneously & computer storage memory.
- 6、运行平稳。故障率低，维修方便。Stable operation, low failure rate and easy maintenance.
- 7、采用锥度配合，送料油缸不反弹，双支撑轴承计数架，计料更准确，误差小于5MM；
Taper coordination to stabilize the feeding cylinder. Dual supports bearing counting frame to accurate the error to 5 mm.
- 8、子弹头型油缸，配合面大，减少漏油，进口位弹簧，使用寿命更长；
Bullet-type cylinder with large mating surface to reduce oil leakage. Advanced spring to prolong service life.
- 9、所有油管无O开进密封圈，全部采用D型接头，配合更可靠；
More reliable fit of all tubing with D-type joints instead of O-opening seals.
- 10、采用滚筒式进料装置，进料更顺畅。The drum feeder is used for smoother feeding.

技术参数

Technical Parameters

型号	Model	FHT3-10D	FHT5-12D
钢筋调直直径范围	Wire straightening diameter	螺纹钢 / Screw-thread steel 3-10mm 圆钢 / Round steel 3-10mm	螺纹钢 / Screw-thread steel 5-12mm 圆钢 / Round steel 5-14mm
钢筋切断定尺范围	Wire cutting sizing	无级可调 / Stepless adjustable	无级可调 / Stepless adjustable
切断速度	Cutting speed	42-48m/min	42-48m/min
钢筋定尺切断误差	Wire sizing cutting error	≤ 1.5mm	≤ 1.5mm
矫直钢筋直线度	Straightness	≤ ±2mm/m	≤ ±2mm/m
牵引速度	Pulling speed	45、65m/min	45、65m/min
调直筒转速	Revolving speed	1460r/min	1460r/min
整机功率	Power	9kw	9kw
工作温度范围	Work temperature	-10~+50°C	-10~+50°C
整机安装外协尺寸	Overall Dimension	1600*800*850mm (L*W*H)	1600*800*850mm (L*W*H)
整机自重	Weight	350kg	350kg
工作电压	Working voltage	380v	380v

隧道用钢筋 网片排焊机

REINFORCED MESH
WELDING MACHINE
FOR TUNNEL

简介及优势

Introduction & Advantage

- 1、主体机架采用较厚钢板与型钢焊接而成，使主体结构更为牢固、紧凑；
The main frame is welded by thick steel plate and section steel, which makes the main structure firmer and more compact.
- 2、纬丝送丝机构结构新颖采用专利技术的送丝轮拔丝技术，使纬丝送丝技术更加准确解决了每次不漏丝或漏双丝的难题；
The structure of cross wire feeding mechanism is novel with wire feeding wheel drawing of patent technology, more accurately solve the problem of no leakage or double leakage each time.
- 3、拉网采用步进电机拉网方式可以解决同一张网片有不同的网孔尺寸的难题，拉网控制系统采用PLC控制屏幕中文显示；
The problem that the same mesh has different mesh sizes can be solved by using stepping motor. PLC system is adopted in mesh drawing control of English screen display (other languages are available).
- 4、焊接采用了新型高效焊网变压器，电压调节范围宽，可分为八个级别，扩大了焊接丝径范围；
New high-efficiency welding mesh transformer is adopted with wide voltage regulation range of 8 grades to expand the welding wire diameter range.
- 5、焊接电力电子控制系统采用同步控制技术，焊接时间与分控焊接均由数字化集成电路组成，控制精度高性能稳定。
The synchronous control technology is adopted in the welding power electronic control system. The welding time and sub-control welding are composed of digital integrated circuit with high control precision and stable performance.

技术参数

Technical Parameters

型号 / Model	FHW-220 型	
主机侧板 Main machine side panel	厚 25 铁板	Thickness 25 iron plate
上梁板 Upper beam slab	厚 25 宽 200 铁板	Thickness 25 width 200 iron plate
下梁 Lower beam	300 工字钢	I-beam
上电极 Upper electrode	直径 25 紫铜棒	25 Copper Bar
上电极连接线 Upper Electrode Connecting Line	200 平方铜线	Square copper wire
上电极夹板 Upper electrode splint	20*40 键条	Key bar
上电极滑杆 Upper electrode slider	直径 25 冷拔圆钢	Diameter 25 Cold drawn round steel
下电极座 Lower electrode holder	紫铜块	Copper block
下电极 Lower electrode	35*35*25MM 铬铜方	Chrome pick copper cube
下电极连接线 Lower electrode connection wire	400 平方铜板	Square copper plate
主轴 principal axis	直径 75 圆钢	Diameter 75 round bar
动力电机 power motor	一体式变频制动刹车电机减速机	Integral Frequency Conversion Brake Motor Reducer
电机功率 motor power	5.5kw	
主机底座 main machine base	thickness 壁厚 5mm/100*50 方管	Square tube
变压器 Transformer	3*150KVA 水冷变压器	Water-cooled transformer
拉网跑道 pulling mesh track	thickness 厚 2.5mm/60*80 方管	Square tube
焊点数 Number of welding spot	10 个	pcs
外形尺寸 overall dimension	6500*1690*1500mm	
焊接丝径 welding wire diameter	4-8mm	
焊接孔径 Welding aperture	150*150mm—200*200mm	
焊接速度 welding speed	20—35 次 / 分 times/min	
机器重量 weight	2.5T	



便捷切割机

PORTABLE CNC FLAME CUTTING MACHINE



简介及优势

Introduction & Advantage

- 1、单独或分批切割任何不规则的图形；
Cut any irregular figure either individually or batchly.
- 2、数控系统设计简单实用。它适应人性化的积极人机对话，操作简单；
NC system design is simple and utility. It adapts humanistic positive man-machine conversation and operate easily.
- 3、机械结构采用特强一体化铝合金，经高温氧化处理，内部结构增强，避免长期磨损造成的伤害，保证运行平稳，切割精度高。
Mechine structure is made of specially stronger and integrative Aluminum alloy, through high temperature and oxygenized, enhance structure inside, to avoid harming by long term abrasion, to guarantee smoothly operation and cutting precision.

技术参数

Technical Parameters

Models	HR-1020	HR-1225	HR-1530	HR-1630
Input power source	220±10%V AC 50Hz 220W			
Cutting mode	O2/ C3H8 or C2H2, Plasma available			
Effective cutting range	1000*2000	1250*2500	1500*3000	1600*3000
Track L*W*H	2500*273*60	3000*273*60	3500*273*60	3500*273*60
Track Holder Quantity	2 pcs (L*W*H 500*80*40mm)			
Beam section size	50*60mm			
Cutting speed	50-2000(Max 4000mm/min)			
Cutting thickness(Flame)	5-150mm			
Cutting thickness(Plasma CUT)	Depend on plasma power source			
Move precision	Flame, electric height adjustment(±60mm)			
Host weight	19kg			
Gas pressure	Max 0.1Mpa			
Oxygen pressure	Max 0.7Mpa			
Type of gas	Propane, Ethyne			

龙门切割机

CNC-4000C FLAME CUTTING MACHINE



简介及优势

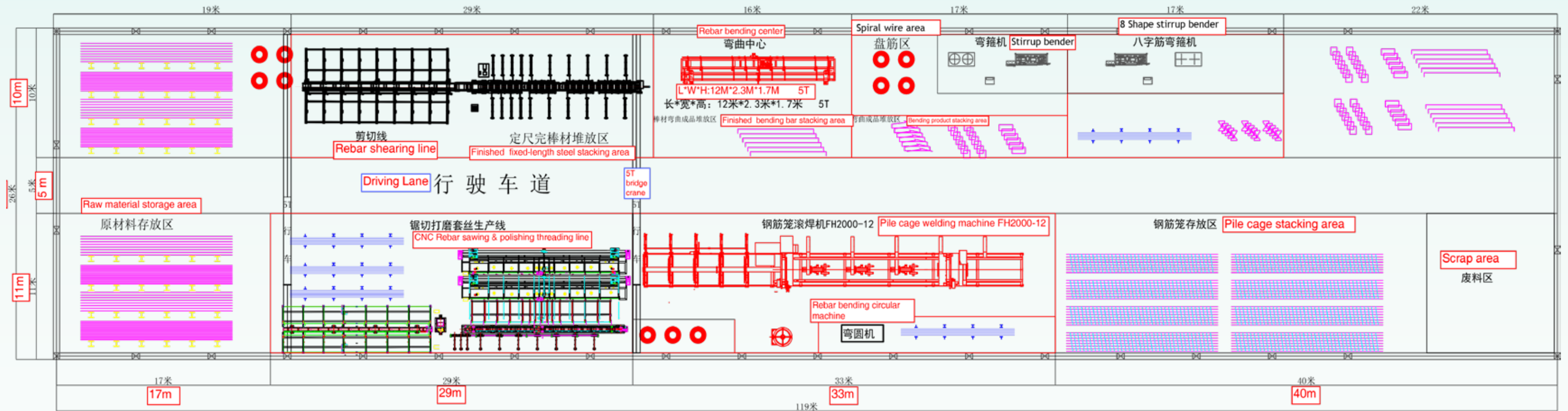
Introduction & Advantage

- 1、内含频率解析机能（FFT），从而可检测出机械的共振点，便于系统调整；
The frequency analysis function (FFT) is included to detect the resonance point of the machine and facilitate system adjustment.
- 2、有两种自动增益调整方式：常规自动增益调整和实时自动增益调整；
There are two automatic gain adjustment methods: regular automatic gain adjustment and real-time automatic gain adjustment.
- 3、配有 RS485, RS232C 通信口，上位控制器可同时控制多达 16 个轴。
Equipped with RS485, RS232C communication port, the upper controller can control up to 16 axes at the same time.

技术参数

Technical Parameters

型号	Model	CNC-4000C
行走轨距	Walking gauge	4000 mm (Bilateral drive) 双边驱动
有效宽度	Effective width	3200 mm
轨道长度	Track length	15000 mm
有效长度	Effective length	12500 mm
切割速度	Cutting speed	50-1000 mm/min
返程速度	Return speed	4000 mm/min
数控系统	Numerical control system	SF-2300H
齿轮减速机	Gear reducer	NEUGART
最小脉冲当量	Minimum Pulse Equivalent	0.001mm
最大编程尺寸	Maximum Programming Size	±99999.999mm



案例分析

CASE ANALYSIS

案例简述 Case Introduction

项目名称: 福厦高铁
Project Name: Fuzhou-Xiamen High Speed Railway

施工单位: 中铁六局集团有限公司
Construction Unit: CHINA RAILWAY SIXTH GROUP CO.LTD

项目概况 Project Overview

福厦高铁 2017 年 1 月 15 日正式开工, 双线高速铁路, 设计行车速度 350 公里 / 小时, 正式工程长度 294.1 公里, 全线桥梁 85 座 191.4 公里, 隧道 33 座 56.5 公里, 桥隧比为 84.3%, 沿线设福州南、福清西、莆田、泉港、泉州南、厦门北、漳州 7 座客站, 项目投资估算总额 530.4 亿元, 项目建设工期 5 年。

Fuzhou-Xiamen High Speed Railway officially started on January 15, 2017. The two-lane high-speed railway speed is 350 km/h, a formal length is 294.1 km, 85 bridges across the entire line of 191.4 km, 33 tunnels of 56.5 km, and a bridge-crossing ratio of 84.3%. 7 stations along Fuzhou South, Fuqing West, Putian, Quanguang, Quanzhou South, Xiamen North, and Zhangzhou are located along the line, and the project investment is estimated to be 53.04 billion yuan. The construction period is 5 years.

设备明细 Order Details

智能钢筋笼滚焊机	CNC rebar cage welding machine	FH2000-12	一台 /1set.
智能钢筋弯箍机	CNC stirrup bending machine	FHG-12	两台 /2sets.
智能钢筋弯曲中心	CNC rebar bending center	FHB2-32	一台 /1set.
智能钢筋八字筋成型机	CNC 8 shape rebar molding machine	FH8A-20	一台 /1set.
智能钢筋剪切生产线	CNC rebar shearing line	FHS-32	一台 /1set.
智能钢筋锯切套丝生产线	CNC rebar sawing and threading line	FHST-40	一台 /1set.

选型方案 Selection Solution

采购设备一: 智能钢筋笼滚焊机
No.1 Machine Purchased: CNC rebar cage welding machine FH2000-12
桩径 Pile diameter: 1m, 1.25m, 1.5m, 1.6m, 1.8m, 2m, 2.2m, 2.3m
桩深 Pile depth: 主要为 Mainly for 22M and 26M.

问题分析 Problem analysis:
1、希望钢筋笼一次性成型, 但运输条件受限; Hope that the rebar cage can be formed at one time, but the transportation conditions are limited.
2、希望所用所有型号钢筋笼皆能在该设备上完成, 准备采购 FH2500 设备, 但感觉浪费。It is hoped that all types of rebar cages used can be completed on this equipment, ready to purchase FH2300 equipment, but it feels wasteful.

分析建议 Analysis suggests:
1、我公司 FH2000-12 设备最长可加工 13 米钢筋笼, 因场地受限建议采购 12 米设备, 生产两节 11 米钢筋笼和 2 节 13 米钢筋笼, 进行精准对接, 可满足其生产; Our company's FH2000-12 equipment can process up to 13 meters of steel reinforcement cages. Due to site constraints, we recommend purchasing machine of 12 meters and producing two steel cages of 11 meters and two of 1.3 for precise docking to meet their production.
2、因 2.3 米桩径较少仅有 19 个, 从项目成本考虑, 建议采购 FH2200-12 设备。Because there are only a few piles with a diameter of 2.3 meters, there are only 19pcs. Considering the project cost, it is recommended to purchase FH2000-12 equipment.

最终选型 Finally Solution:
FH2200-12 可加工最大 2.2 米桩径, 最长 13 米的钢筋笼。
FH2000-12 which can process cages for piles with Max. diameter 2M Max Length of the rebar cage of 13M.

采购设备二: 智能钢筋弯箍机 FHG-12
No.2 Machine Purchased: CNC stirrup bending machine FHG-12
钢筋直径 Rebar diameter: 圆钢双线, 三级螺纹钢, 单线。
Round bar 5-10mm double wire, Tertiary rebar 6-12mm single wire.
加工图形 Processing graph: 多种, 根据图纸分析, 均可加工。
Various, According to the analysis of drawings, all can be processed.

问题分析 Problem analysis: 现场加工主要以 12mm 三级螺纹钢为主。
Construction site is mainly processing 12 mm threaded steel.
智能钢筋弯箍机型号 CNC rebar bending machine model:
FHG-12 为我公司专为制作 12mm 三级螺纹钢成品设计, 用大功率减速机与特制合金弯曲配件来保证了设备的动力和耐用性, 从而实现了超高的生产效率与较长的配件使用寿命。
FHG-12 is designed for producing 12mm three-level rebar finished products. High-power gear motor and special alloy bending fittings are used to ensure the power and durability of the equipment, thus achieving ultra- high production efficiency and longer parts service life.

最终选型 Problem Analysis: 根据图纸分析, 所有图形均能生产。
On-site processing is mainly based on 12mm tertiary rebar.

采购设备三: 智能钢筋弯曲中心
No.3 Machine Purchased: CNC rebar bending center FHB2-32
钢筋直径 Rebar diameter: 12-32mm
加工图形 Processing graph: 多种, 根据图纸分析, 均可加工; 其中夹角, R 角, 圆弧专门根据图纸尺寸定制模具。Various. According to the analysis of the drawings, it can be processed. Included angle, R angle, circular arc according to the size of the drawings to customize the mold.

问题分析 Problem analysis: 现场部分需求图形为夹角、R 角、圆弧等图形, 要求精度较高。Some of the on-site demand graphs are included angles, R angles, arcs, etc., which require high precision.

分析建议 Analysis suggests: 现场因图形特殊, 非常规图形, 我司建议如下:
Due to the special and unconventional graphics on site, our company suggests as follows:
1、选择顶配智能钢筋弯曲中心, 因机头可安装多种模具且可单机头工作; Select intelligent steel bar bending center, because the machine head can be installed with multiple molds and single head can work.
2、根据现场提供图尺寸特制作可加工夹角、R 角、圆弧等特殊模具, 分批两次可加工成型。According to the size of the drawings provided on the site, special molds such as Angle, R Angle and arc can be processed twice in batches.

最终选型 Finally Solution: 智能顶配数控钢筋弯曲中心 型号 FHB2-32
CNC top fitting cnc steel bending center model NO.fhb2-32

采购设备四: 智能钢筋剪切生产线 FHS-32
Equipment 4: intelligent steel bar shearing line FHS-32
钢筋直径 Rebar diameter: 10-40mm
加工图形 Processing graph: 根据现场剪切钢筋的要求, 加工所需图形。
process required graphics according to the construction site requirement.

问题分析 Problem analysis:
1、剪切不同长度钢筋; Shear reinforcement of different lengths.
2、25mm 以上钢筋比较多, 工期比较紧; mainly bar diameter is minimum 25mm ,tight schedule.
3、之前用的剪切设备卡阀堵塞的问题较常见。The problem of the valve blockage of the shear equipment used before is relatively common.

分析建议 Analysis suggests:
1、液压系统采用新型超低音柱塞油泵, 正品华德液压阀系统, 油箱经过特殊处理, 大大降低了卡阀堵塞问题; The hydraulic system adopts the new ultra-low sound plunger oil pump and the genuine Howard hydraulic valve system. After special treatment, the oil tank greatly reduces the problem of plug valve.
2、钢筋定尺机构采用伺服电机控制, 通过伺服电机驱动丝杠机构来调整剪切刀口与定位挡板之间的距离, 采用编码器测量, 定尺精度高, 可达 ±2mm, 可剪切各种长度的钢筋。Steel length measuring mechanism adopt servo motor control, the servo motor driven screw mechanism to adjust the distance between the shear cutter and positioning baffle, using encoder measurement, high precision on length measuring, can be up to + / - 2 mm, can cut all kinds of the length of the reinforcing bar.

最终选型 Finally Solution: 智能钢筋剪切生产线 FHS-32 CNC steel bar shear line FHS-32

采购设备五: 智能钢筋锯切套丝生产线 FHST-40
Equipment 5: auto rebar sawing & threading line
钢筋直径 Rebar diameter: 16-32mm
锯切长度 Sawing cutting length: 10-12 米

问题分析 Problem analysis: 现场需要切割不同长度不同规格钢筋, 并要求自动套丝和归类。
The construction site needs to cut different lengths and specifications of steel reinforcement, and requires automatic wire sleeve and classification

分析建议 Analysis suggests: 设备可加工 16-32mm 规格型号钢筋, 钢筋锯切完成之后通过轨道直接运输到套丝机并自动对钢筋进行套丝, 套丝完成之后系统会根据长度自动分配到对应的储料槽; 该产品能一次性满足客户要求。equipment specifications machinable 16 and 32 mm steel, after sawing is completed steel bars are transported through the pathway directly to the threading machine, after sawing completed, steel bars are automatically allocated to the corresponding storage tank according to specifications length, This product can meet the requirements of customers at one time.

最终选型 Finally Solution: 智能钢筋锯切套丝生产线 FHST-40
CNC steel bar sawing & threading line FHST-40

服务中心

SERVICE CENTRE




哈尔滨	Harbin	15315198399
包头	Baotou	15376561399
北京	Beijing	13371213299
青岛	Qingdao	15092186599
兰州	Lanzhou	13371238299
银川	Yinchuan	15315193166
郑州	Zhengzhou	15315198066
苏州	Suzhou	13371221799
杭州	Hangzhou	15315193266
重庆	Chongqing	15315190799
昆明	Kunming	15376303099
广州	Guangzhou	15315193266
厦门	Xiamen	15318173599
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飞宏机械已销售 1000 多套设备，遍布于国内外。
Feihong machinery has sold more than 1000 sets of equipment, which is widely distributed both at home and abroad.