HAIJIA

HAIJIA

让 织 造 更 轻 松　　让 生 活 更 美 好

青岛海佳机械集团有限公司

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青岛海佳机械集团有限公司
Qingdao Haijia Machinery Group Co.,Ltd



企业使命：让织造更轻松，让生活更美好

Corporate Mission: Make Weaving Easier,Make Life Better

企业核心价值观：阳光 专注 创新 利他

Core Value: Fair-and-square, Dedicated, Innovative, Altruistic.

企业愿景：整合全球资源，创世界名牌

Enterprise vision: Integrate global resources to create a world famous brand.

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ABOUT HAIJIA 公司介绍

1995 创建于1995年

20000 年生产制造能力超过20000台

600 集团员工近600人

100 拥有自主知识产权近100项

海佳创建于1995年，经过近三十年的持续发展，海佳已成为全球规模领先、技术先进、品质高端的无梭织机生产制造供应商。多年来，海佳坚持全面实施国际化战略，已建立起一个具有国际竞争力的集研发设计、生产制造、市场营销和售后服务为一体的专注于喷水织机和喷气织机领域的集团型企业，下设三大制造工厂，海内外六大办事处及一个织多多纺机配件商城，海佳紧跟时代趋势，实现高端制造和人工智能的深度融合，已成为织机行业智能制造典范。

长期以来，海佳在产品研发和技术创新方面，始终走在行业前面，经鉴定海佳生产的喷水织机技术水平达到国际先进，市场占有率连续多年全球领先。海佳以成就客户为己任，将全面构建实施全球战略格局，树立国际品牌形象，打造世界名牌。

Haijia was founded in 1995. nearly 30 years of continuous development, Haijia has become a global leading manufacturer of shuttleless looms with advanced technology and high quality. Over the years, Haijia has been adhering to the comprehensive implementation of the international strategy, and has established an internationally competitive group enterprise focusing on the field of water jet looms and air jet looms, integrating R&D, design, production, manufacturing, marketing and after-sales service. It has three manufacturing plants, six offices at home and abroad and, a textile accessories mall. Haijia keeps up with the trend of the times and realizes the deep integration of high-end manufacturing and artificial intelligence, It has become a model of intelligent manufacturing in the weaving industry.

For a long time, Haijia has always been ahead of the industry in terms of product research and development and technical innovation. After verification, the technical level of water jet looms produced by Haijia has reached the international advanced level, and its market share has been leading the world for many years. Taking customer achievement as our responsibility, Haijia will comprehensively build and implement the global strategic pattern, establish an international brand image and create a world famous brand.





HISTORY
发展历程

1995年

1995年在胶南市王台镇成立鑫春纺机配件服务中心，主要销售喷水织机配件。

In 1995,founded Xinchun Textile Machine Parts Service Center in Wangtai Town, Jiaonan City, mainly selling water jet loom parts.

2001年

2001年青岛海佳机械有限公司成立，专注于喷水织机生产制造，并在盛泽挂牌成立办事处。

In 2001, Haijia Co.,Ltd was established, focusing on water jet loom production and manufacturing, and set up an office in Shengze.

2005年

2005年成立国际贸易部，海佳产品走出国门，出口到巴基斯坦、土耳其、越南等国家。

In 2005, the International Trade Department was established, and Haijia products were exported to Pakistan, Turkey, Vietnam and other countries.

2009年

2009年成立研发部，专注喷水、喷气织机研发，企业由生产制造向自主研发转型。

In 2009, the R&D department was established to focus on water jet and air jet loom R&D, and the company transformed from manufacturing to independent R&D.

2012年

2012年海佳开发的第一台HJA-N-230喷气织机正式投入市场，同年成立了南通办事处，并通过了"国家高新技术企业"认证。

In 2012, the first HJA-N-230 air-jet loom developed by Haijia was officially put into the market, the Nantong office was set up in the same year, and the company passed the certification of "National High-tech Enterprise".

2015年

2015年陆续获得国家高新技术企业等荣誉，海佳软实力、硬实力得到全面提升。

In 2015, we have been awarded national high-tech enterprises and other honors, and the soft and hard power of Haijia have been comprehensively improved.

2018年

2018年海佳通过“2018年两化融合管理体系贯标试点企业”、“山东省企业技术中心”认定，自主研发的“HA-9010N喷气织机”获得2018年度中国长丝织造行业技术创新奖；公司无梭织机年产量突破10000台，累计销量突破100000台；同年成立青岛世纪海佳机械有限公司，专注于高端无梭织机产品的研发、生产及销售。

In 2018, Haijia passed the "2018 two integration management system pilot enterprise" and "Shandong Province Enterprise Technology Center" certification, and The self-developed "HA-9010N Air Jet Loom" won the 2018 China Filament Weaving Industry Technology Innovation Award 。Haijia's annual output of shuttleless looms exceeded 10,000 units and the cumulative sales exceeded 100,000 sets.

2019年

2019年打造集研发、生产、营销及售后全流程互联的国际领先的数字化智能无梭织机生产基地;世纪海佳被认定为西海岸新区首批高端制造+人工智能试点示范项目。

In 2019, build an internationally leading digital intelligent shuttleless loom production base integrating R&D, production, marketing and after-sales full process interconnection; Century Haijia was identified as the first batch of high-end manufacturing+artificial intelligence pilot demonstration projects in the West Coast New Area.

2020年

2020年，与世界500强排名第67位的恒力集团战略合作，签订10000台的订单;世纪海佳被认定为山东省现代优势产业集群+人工智能示范项目。

In 2020, we made strategic cooperation with Hengli Group, which ranks 67th in the world's top 500, and signed an order for 10000 sets; Century Haijia has been recognized as a demonstration project of modern advantageous industrial cluster+artificial intelligence in Shandong Province.

2021年

2021年，投建的高端织机数字化制造工厂——世纪海佳顺利投产。通过青岛市专精特新企业认定。

In 2021, the first digital manufacturing factory of high-end looms in China, Century Haijia, was successfully put into and. passed the recognition of specialized、refined、characteristic and innovative enterprise in Qingdao.

2022年

2022年，海佳总部迁至新的集团大楼；黄山智能制造厂正式投入生产，至此，海佳正式以集团形式运营。

In 2022,Haijia Group headquarters moved to the new group building ;Huangshan intelligent manufacturing plant officially put into production.By now, Haijia Group is officially operating as a group.

HONOR
企业荣誉





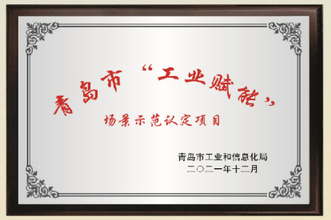


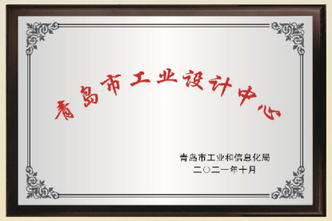






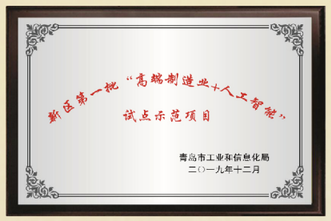








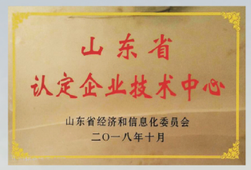




获得荣誉　Honor Certificate

自2012年以来，海佳获得国家级高新技术企业、现代优势产业集群+人工智能试点示范项目，山东省企业技术中心等荣誉，生产的喷水织机被评为山东省首台(套)技术装备。

Enterprise honor: "Since 2012, Haijia has won the honors of national high-tech enterprises, modern advantageous industrial clusters + artificial intelligence pilot demonstration projects, Shandong Enterprise Technology Center, etc., and the water-jet loom produced by HAIJIA has been rated as the first (set) technical equipment in Shandong Province.”



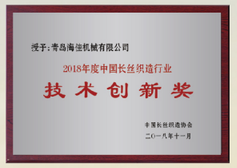






























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让织造更轻松　让生活更美好





知识产权　Intellectual Property

海佳坚持技术驱动、创新发展理念，近年来先后拥有自主知识产权近100项，包括国外发明专利5项；拥有注册商标12项，包括5项国际商标及7项国内商标。

Haijia insists on the concept of technology-driven and innovative development, and has owned nearly 100 independent intellectual property rights in recent years, including 5 foreign invention patents; it has 12 registered trademarks, including 5 international trademarks and 7 domestic trademarks.

体系认证　Systems Certification

海佳先后通过ISO9001:2015质量管理认证体系、欧盟CE认证，ISO14001：2015环境管理认证体系及GB-T28001-2011职业健康安全管理体系认证，知识产权管理体系认证。

HAIJIA has passed ISO9001:2015 quality management certification system, EU CE certification, ISO14001:2015 environmental management certification system and GB-T28001-2011 occupational health and safety management system certification, intellectual property management system certification.











PRODUCTION AND MANUFACTURING

生产制造

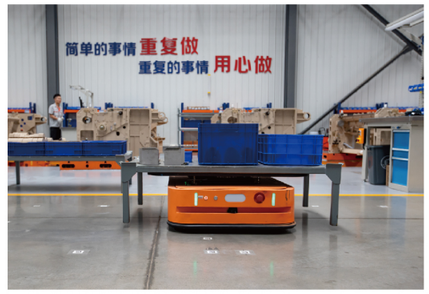
总装车间

海佳现代化智能总装车间拥有纺机行业定制化无梭织机脉动线体，利用自动化装备、数字化软件和信息化管理系统，建立起高端无梭织机的标准化生产流程和智能制造模式，通过线体规划，利用RGV和AGV自动化物料搬运设备与配套软件调度系统实现框架的平台转运、线体转运、成品下线转运、成品入库等流程的自动化，整个线体应用了16台RGV小车负责装配工位的转运；2台激光导航叉车AGV分别负责平台部装到上线工位和下线缓存工位到调机测试工位再到成品库间的转运；2台二维码导引AGV和2台激光导引AGV负责装配工位、部装工位标件、小件物料的配送。

Haijia modern intelligent assembly workshop has customized shuttleless loom pulsating production line in the textile machinery industry. using to automate equipment, digital software and information management system to establish a standardized production process and intelligent manufacturing model of high-end shuttle-less looms; Through the line planning, we use RGV and AGV automated material handling equipment and software scheduling system to automate the processes of platform transfer, line transfer, finished product off-line transfer, and finished product storage. 16 RGV trolleys are applied to the whole line for the transfer of assembly stations; 2 laser-guided forklift AGVs are responsible for the transfer of platform parts to the on-line station and off-line cache station to the tuning and testing station and then to the finished product storage; Two QR code guided AGVs and two laser guided AGVs are responsible for the distribution of standard and small pieces of materials at the assembly station and part of the assembly station.

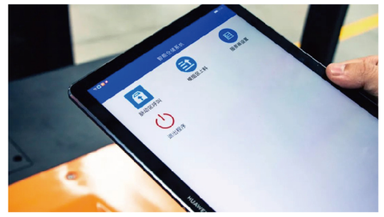
- **合理规划厂内物流**
  Rational planning of in-plant logistics
- **设计脉动节拍式装配作业**
  Designing pulsating beat assembly operations
- **人机互动提高效率**
  Human-machine interaction improves efficiency
- **巧用防呆机制**
  Ingenious use of sluggish materials prevention mechanism











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让织造更轻松　让生活更美好

全自动化立体仓库

海佳自动化立体库是专业公司根据海佳物料备件特点进行结构优化设计，采用模块化，标准化生产，应用条码设计、变频调遣、高速数据采集、人机界面、PLC控制等先进控制技术，在计算机系统的管理调度下，完成物料的存储、输送等处理业务，目前海佳两大智能工厂拥有自动化立体库库位1800多位，高位货架区4000多位，通过RGV智能物料运输车实现中间转运环节，一小时出入库次数可达40托，单次80托以上，充分提高了仓储效率，降低了人工成本，使货物存取速度加快，生产效率提高30%以上。



Haijia automatic stereoscopic warehouse is customized by a professional company according to the characteristics of Haijia's material spare parts. It adopts modular and standardized production, and applies advanced control technologies such as barcode design, frequency conversion dispatching, high-speed data collection, human-machine interface, PLC control, and completes the storage, transportation and other processing businesses of materials under the management and scheduling of computer systems. At present, Haijia's two intelligent factories have more than 1800 automatic stereoscopic ware locations, There are more than 4000 ware locations in the high shelf area, and the intermediate transfer link is realized by RGV intelligent material transport vehicles. The number of inbound and outbound can reach 40 Torr per hour and more than 80 Torr per time, which fully improves the storage efficiency, reduces the labor cost, accelerates the speed of goods access, and improves the production efficiency by more than 30%.

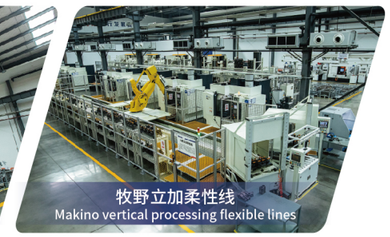
加工车间

加工车间是海佳智能化水平最高的车间，投资将近2亿元，购置九条进口柔性加工生产线，采用信息化管理手段，能够自动控制和管理织机关键部位精密零部件的加工过程，包括制造质量的自动控制、故障的自动诊断和处理及制造信息的自动采集和处理，实现零部件自动化精加工，加工精度达到0.01mm，极大的提高了整机稳定性和开机效率。

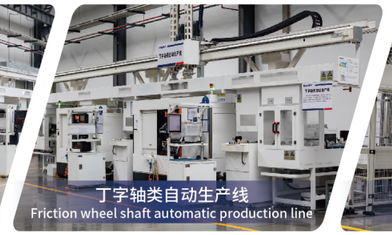
The processing workshop is the one with the highest level of intelligence in HAIJIA, with an investment of nearly 200 million yuan, including nine imported flexible processing production lines. Using information management methods, it can automatically control and manage the processing of precision parts in key parts of the loom, Including the automatic control of manufacturing quality , automatic diagnosis and handling of faults, and automatic collection and processing of manufacturing information, to realize automatic finishing of parts and components, and to make the processing accuracy reaches 0.01mm, which greatly improves the stability of the whole machine and the efficiency of startup.

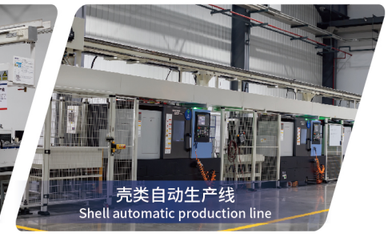

墙板自动生产线
Automatic wallboard production line


马扎克柔性自动线
Mazak Flexible Automatic Line


牧野立加柔性线
Makino vertical processing flexible lines


轴类自动生产线
Shaft automatic production line

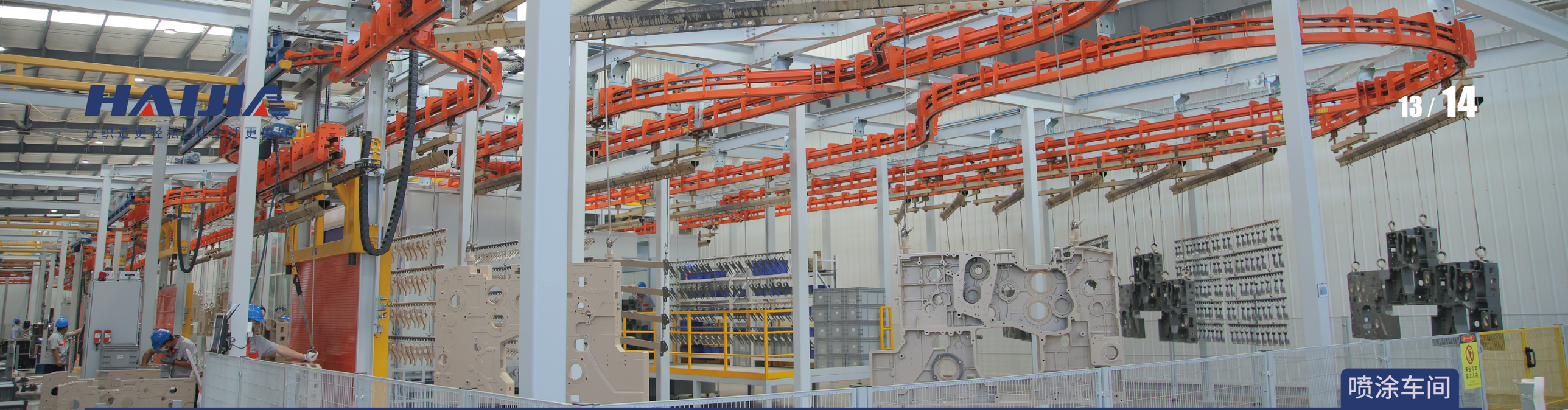

丁字轴类自动生产线
Friction wheel shaft automatic production line


壳类自动生产线
Shell automatic production line


打纬轴自动生产线
Beating up shaft automatic production line


牧野立加侧盖线
Makino side cover automatic line


立加柔性机械手
Vertical machining center flexible manipulator



喷涂车间

高效 Efficient

借鉴国际顶尖的汽车喷涂工艺，是技术水平达到全球纺机行业前列的涂装生产线。该线体采用双上双下并联系统，极大提高生产效率，最大产量可达2.5万台/年。

喷涂工艺齐全，增大了工件通过的有效尺寸，可满足喷水和喷气所有零部件的需求。

Our spraying and coating workshop is the most advanced coating production line in the textile industry, It is a coating production line whose technical level has reached the forefront of the global textile machinery industry. This line adopts a double up and double down parallel system, which greatly improves the production efficiency, and the maximum output can reach 25000 sets / year.
The workpiece has a large effective size and a complete spraying process, which can meet the needs of all parts for water spraying and air spraying.

自动化 Automatic

该线体能自动进行信号采集、识别飞杆信息、调整参数、识别喷粉颜色并实现自动喷粉，减少了人员的参与。

该线体设有4道线体叉道，可同时满足4种不同工艺涂装要求，实现高效、高质、自动化。

This line can automatically collect signals, identify flying rod information, adjust parameters, identify powder spraying color and realize automatic powder spraying, which greatly reduces personnel participation.
The line is equipped with four production line tracks, which can meet the requirements of four different painting processes at the same time, achieving high efficiency, high quality and automation.

防腐 anticorrosive

前处理采用喷浸结合脱脂工艺，可以更加有效的处理各种复杂油迹，纳米级硅烷膜+高边缘型电泳漆工艺，使产品防腐等级达到1200h以上(中性耐盐雾)，产品达到10年不腐蚀、不穿孔。

此外先进的EDRO技术，可实现电泳污水的零排放。

The pretreatment adopts spray immersion combined with degreasing process, which can more effectively deal with various complex oil stains. The nano silane film + high edge electrophoretic paint process makes the product anti-corrosion registration reach more than 1200h (neutral salt spray resistance), and the product can run 10 years without corrosion and perforation.
In addition, the advanced EDRO technology can realize zero discharge of electrophoresis sewage.

智能化 Intelligent

配备大旋风快速换粉功能，15分钟内可以切换不同粉末，配备有工件宽度间隙自动识别系统，可结合链速自动调整升降机X轴距离，保证喷枪与工件距离恒定，从而使膜厚均匀，达到最佳喷涂效果，做到高质、节能、环保。

The line was equipped with a large whirlwind fast powder change function, which can help you switch among different powders within 15 minutes. It also equipped with a work piece width gap automatic indentification system, which can be combined with the chain speed to automatically adjust the elevator X-axis distance, which can ensure that the gun and the workpiece distance is constant so that the film thickness can be made uniform so as to acieve the best spraying effect and high quality, energy saving and environmental protection.

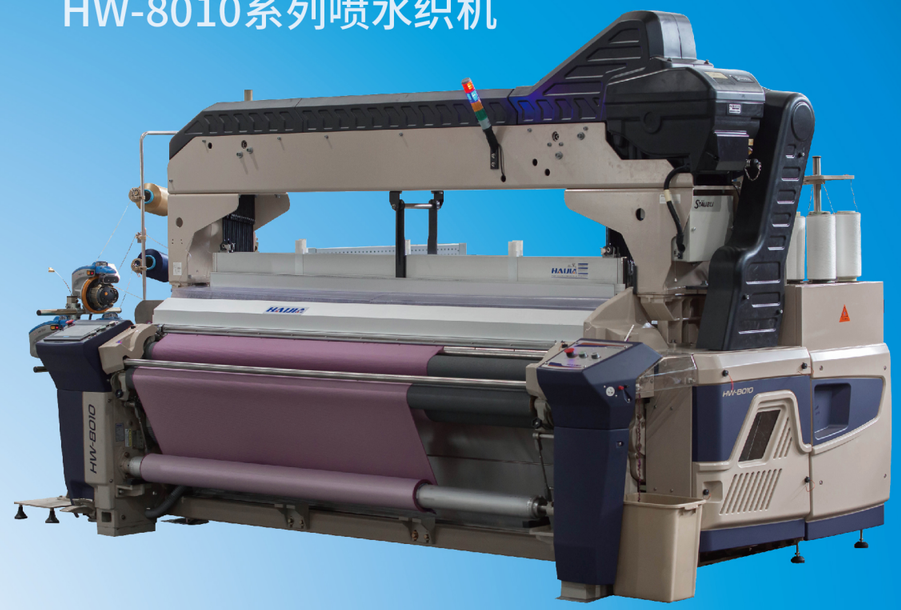
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HW-6010系列喷水织机



HW-8010系列喷水织机



PRODUCT 产品介绍

海佳成立至今专注于无梭织机行业,主营产品包括HW系列喷水织机、HA系列喷气织机和HJ系列凸轮开口装置。

Haijia has been focusing on shuttle-less loom industry since it was established. Our major products are HW series water jet loom, HA series air jet loom and HJ series cam shedding deviece.

项目 Item		规格 Specification	选配 Optional
机型 model		HW-3873　HW-6010　HW-8010　HW-8030	
筘幅 reed width	公称筘幅 Nominal reed width(cm)	150、170、190、210、230、270、280、290、300、320、340、360	
	有效筘幅 Effective reed	公称筘幅 Nominal reed width：0～65cm(≤ 230cm);0～85cm（> 230cm)	
纬纱选择 Weft selection		1 色、2 色、3 色、4 色　1color、2 colors、3 colors、4 colors	
动力 power	启动方式 Starting mode	直驱电机 motorized spindle	超启动马达驱动 super start motor drive
	马达容量 Motor capacity	2.2KW、2.7KW、3.0KW、3.7KW、4.5KW、6.0KW	
	运转操作 running operation	单手操作按钮 One-hand operation button	两手操作按钮 Two-hand operation button
引纬 Weft insertion	泵浦 pump	单泵 single pump	双泵 double pump
	喷嘴 nozzle	普通喷嘴、"U" 型喷嘴 Normal nozzle,'U'nozzle	
	测长储纬 Length measurement and weft storage	电子测长（FDP) Electronic Length Measurement (FDP)	机械风测长（RDP)Mechanical length measurement
开口 shedding		曲柄式平开口：4 片型、6 片型 Crank shedding: 4-piece type, 6-piece type	8 片型　8-piece type
		积极凸轮：6,8,10 片型 Positive cam shedding: 6, 8, 10 piece type	12，14 片型 12,14 piece type
		积极多臂：16 片型 Active dobby: 16 piece type	
送经 let off		消极松经 negative loose warp	积极松经装置 Positive loose warp device
		左右双轴承、2 辊方式 Left and right double bearing, 2-roll mode	
	最大张力 Maximum tension	500Kg、1000Kg	
	边盘直径 diameter of the beam flange	∮ 800mm	∮ 914mm、 ∮ 1000mm
卷取 take up	布卷径 Roll cloth diameter	最大 520mm maximum is 520MM	
	布卷经路 cloth roll path	S 型、L 型 S type, L type	
打纬 Beating-up		曲柄多筘座打纬机构，“U”型打纬轴 Crank multi reed sley beating up mechanism, "U" shaped beating up shaft	实心直轴打纬 Solid straight shaft beating up
		4 连杆、6 连杆 4 linkage,6 linkage	
纬纱架 Weft stand		落地固定式 2 个纱筒 / 色　Floor fixed type 2pcs yarn supply /color	
绞边 Selvage		机械式行星方式　Mechanical planetary mode	
纱端处理 Yarn end treatment		锭子假捻方式　Spindle false twisting method	
剪纬 Weft cutting		机械式剪刀剪纬 Mechanical scissors for weft cutting	
脱水 dehydration		微缝管吸入方式（电力吸水马达）、浮力式气水分离器 Suction mode of micro slit tube (electric water suction motor), buoyancy air-water separator	吸水压条 Water absorbing strip
电气 electronic		光纤式探纬器 Optical fiber type feeler	光电式探纬器 Photoelectric type
		触摸屏，控制预备、起动、停止、寸动、逆转寸动 Touch screen, control preparation, start, stop, inching and reverse inching	
		可显示产量、车速、效率、停机次数等 It can display output, speed, efficiency, shutdown times, etc	
		四色指示灯指示停车原因 The four-color indicator light indicates the reason for stopping	
		变频 / 变速装置 Variable inverter/variable speed device	
自动化、省力化 Automation and labor saving		自动补水阀、自动集中加油 Automatic water replenishment valve, automatic centralized refueling	变频调车速 Variable frequency speed regulation

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HA-N系列喷气织机



HA-9020系列喷气织机



项目 Item		规格 Specification	选配件 Optional
机型 Type		HA-N　HA-9010N　HA-9020	
筘幅 Reed width	公称筘幅 Nominal reed width(cm)	170、190、210、230、260、280、300、340、360、380cm	
	有效筘幅 Effective reed width(cm)	公称筘幅减 (170~260cm) 0~60cm from 170 to 260cm Nominal reed width reduce 0~60cm 公称筘幅减 0~80cm（280cm）以上 0~80cm width more than 280cm, Nominal reed width reduce 0~80cm	
织造范围 Weaving range	短纤 spun yarn	Ne100~Ne2.5	
	长丝 filament	22dtex~1350dtex	
纬纱选择 Weft selection		双色、四色、六色并有继续扩展的功能　Two color, four color, six color with continuous expansion function	
动力 power	停车制动 stopping brake	通过电磁制动器控制定位停车　Positioning and stopping controlled by electromagnetic brakes	
	电机 Motor	超启动马达 super starting motor drive 2.2KW（曲柄开口 crank shedding）、3.0KW（凸轮开口 cam shedding）、3.7KW（多臂开口 dobby shedding）、6.5KW（提花开口 jacquard shedding）	直驱电机 motorized spindle
	运转操作 running operation	控制按钮双手操作 operation of control buttons by two hands	
引纬 Weft insertion	入纬率 Weft insertion rate	最高入纬率：2300 米 / 分钟　Maximum weft insertion rate: 2300m/min	
	喷嘴 nozzle	主喷嘴、辅喷嘴并用式　Combination of main nozzle and auxiliary nozzle 辅助主喷嘴　Auxiliary main nozzle	牵伸喷嘴　stretch nozzle
	钢筘 reed	异型筘　Profiled reed	
开口 shedding		曲柄式连杆开口：4 页综框或 6 页综框 Crank connecting rod shedding: 4 or 6 pcs heald frame	
		积极式凸轮开口最多 10 页综框 Positive cam shedding：　Up to 10 pcs heald frame	
		多臂开口：最多 16 页综框　Dobby shedding: up to 16pcs heald frames	
		大提花开口　jacquard shedding	
送经 let off	松经方式 Type of loose warp	积极松经　Positive loose warp device	消极松经 negative loose warp
		电子送经　electronic let off	双经轴 Double warp beam
	边盘直径 diameter of the beam flange	经轴盘片直径　diameter of the beam flange:Φ800mm	Φ914mm Φ1000mm
	停经装置 Dropper stop motion	机械式断经自停装置　Mechanical dropper stop motion	电子式 electronic dropper stop motion
卷取 take up		电子卷取　electronic take up	
		标准密度 25~300 根 / 英寸　Standard density 25-300 picks/inch	
	布卷径 Roll cloth diameter	最大卷布直径：Φ600mm（凸轮、多臂、大提花开口）、Φ520mm（曲柄开口）　Maximum roll cloth diameter: Φ 600mm (cam, dobby, jacquard shedding) Φ 520mm (crank shedding)	
打纬　beating up		U 型打纬轴 “U” shaped beating up shaft	实心直轴打纬 Solid straight shaft beating up
		四连杆打纬（窄幅）、六连杆打纬（宽幅） Four Linkage (narrow width), Six Linkage beating-up (wide width)	
		配置摇轴中间支撑架　Configured with rocker intermediate support frame	
测长储纬 Length measurement and weft storage		电子式储纬器　Electronic weft feeder	
纬纱架　Weft frame		落地式 4 支筒纱 (2 喷), 落地式 8 支筒纱 (4 喷), 落地式 10 支筒纱 (6 喷) Floor type 4 pcs yarn supply (2 nozzles), Floor type 8 pcs yarn supply (4 nozzles), Floor type 10 pcs yarn supply (6 nozzle)	
布边　Selvage		行星齿轮式绞边装置　Planetary gear type Selvage device	
		气动折入装置　Pneumatic tuck in device	机械折入装置 Mechanical tuck in device
纱端处理　Yarn end treatment		弃边卷取 2 只滚筒式　edge take up uses 2pcs yarn supply	
剪纬　Weft cutting		机械式剪纬装置　Mechanical weft cutting device	电子式剪纬装置 electronic weft cutting device
润滑　lubrication		主传动部分油浴式、手动集中供油　Oil bath type 、 manual central lubricating in main driving motion.	电动集中供油 Electric central lubricating
停车装置　stop motions		纬纱：光电式探纬器、双探头　Weft yarn: photoelectric weft feeler, double detector.	
		经纱：电气接触式六列停经片　Warp yarn: Electrical contact six-row dropper	
		其他：绞边纱、弃边纱断头自停　Others: selvage yarn, discarded edge yarn and automatic stop when the yarn is damaged	
		停车原因显示：在显示屏上显示信息、多功能 4 色灯停车显示　Display of stop reason:the information　will be showed　on the screen and the multi-function 4-color light will give the signal.	
自动化　automation		变频调速　Inverter control speed adjustment	
		记忆卡功能　Memory card function	
		自动抽纬装置　Automatic weft extracting device	

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HJ-C20 凸轮开口



HJ-C20 CAM SHEDDING

HJ-C20凸轮开口装置配置	HJ-C20 cam shedding device configuration
适配织机:喷水织机	Adapter loom: water-jet loom
门　幅:150cm~360cm	Reed width: 150cm~360cm
最高转速:980rpm (190cm)	maximum running speed: 980rpm(190cm)
循环纬数:12	Circular weft count: 12
综框间距: 14mm	Heald frame spacing: 14mm
最大提综: 10片	Maximum raising heald: 10 pieces
综丝规格: 280MM	Heddle Specifications: 280MM
开 口 量: 54mm-110mm	Shedding size: 54mm-110mm

积极式共轭凸轮开口装置，广泛用于喷水、喷气、剑杆等织机开口，可织造平纹、斜纹、缎纹等十二循环以内组织的织物，已开发150多个品种。可根据不同织机的织造要求设计开口停顿角，相比平开口和多臂开口更适合宽幅、重磅、高速的织造场合，且具有稳定、高效、节能的特点。

HJ-C20上置式积极凸轮开口装置，机架采用一体式型横梁，优化了箱体与U型梁的连接工艺，保证了U型梁尺寸及连接的稳定性，不仅增加了机架刚度，有效降低设备振动，延长整机使用寿命，而且美观性大大增强。独特的平综方式操作方便，能满足用户快速更换织物的织造需求。整机性价比高，是平开口装置升级换代的首选产品。

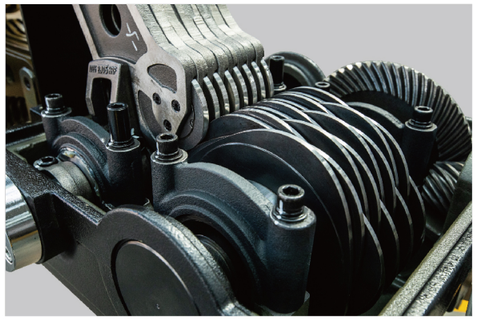
Positive conjugate cam shedding device, widely used in water jet loom, air jet loom, rapier loom and other loom shedding, can weave plain weave, twill weave, satin weave and other fabrics within twelve cycles, more than 150 varieties have been developed. The shedding stop angle can be designed according to the weaving requirements of different looms. Compared with the crank shedding and the dobby shedding, it is more suitable for wide, heavy and high-speed weaving occasions, and has the characteristics of stability, high efficiency and energy saving.

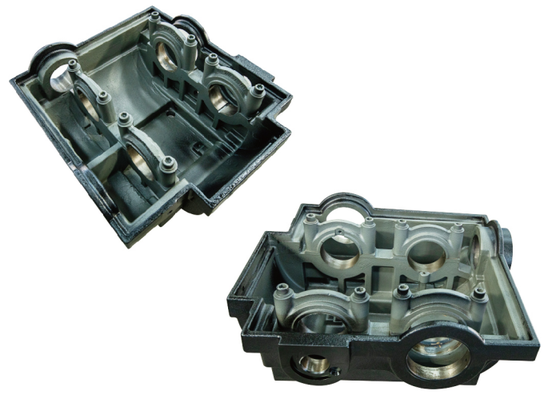
HJ-C20 top-mounted positive cam shedding device, the frame adopts an integrated cross beam, which optimizes the connection process between the box and the U-beam, ensures the stability of the size and connection of the U-beam, not only increases the rigidity of the frame, but also effectively reduce equipment vibration, prolong the service life of the whole machine, and greatly enhance the aesthetics. The unique flat heald mode is easy to operate and can meet the weaving needs of users to quickly change fabrics. The whole machine is cost-effective, and it is the first choice for upgrading crank shedding devices.

机头部分 HEAD PART

整体铸造箱体，采用四轴加工中心一次装夹，关联尺寸精度更高，凸轮共轭精度高，有效降低设备运行振动和噪音，延长设备使用寿命。箱体内润滑油在伞齿轮的驱动下形成内部有效循环，有利于形成均匀的散热系统。

The integral casting box is clamped by a four-axis machining center at one time, with higher relative dimensional accuracy and high cam conjugation accuracy, which effectively reduces the vibration and noise of the equipment during operation and prolongs the service life of the equipment. The lubricating oil in the box is driven by the bevel gear to form an internal effective circulation, which is conducive to the formation of a uniform heat dissipation system.



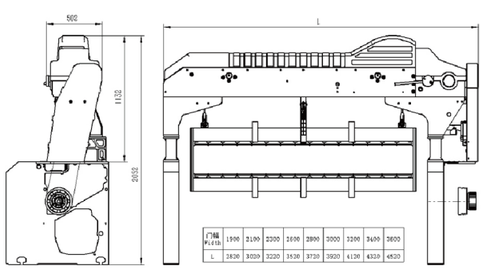


机架部分 RACK SECTION

HJ-C20上置式积极凸轮开口装置，采用全封闭式罩壳，外部零件均采用电泳加喷粉工艺，整机安全性、防水防腐性能更好，延长整机使用寿命，设备更具保值性。

The HJ-C20 upper positive cam shedding device adopts a fully enclosed cover, and the external parts are all made of electrophoretic and powder spraying process. The whole machine has better safety, waterproof and anti-corrosion performance, which extends the service life of the machine, and the equipment has more value preservation.





QUALITY CONTROL

质量管控

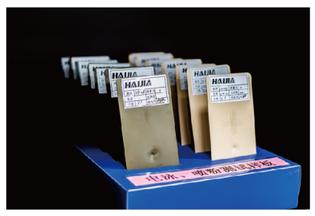
“以品质为客户创造价值”是海佳一直坚持的质量管理理念，海佳从选材、加工工艺、喷涂到总装，进行严格的可追溯的标准化全过程质量管控，并实行全员质量管理，强化自检、互检、专检，生产高品质产品。公司采用先进的校验检测设备，确保每个工序生产产品合格率，严格把控质量波动，从而保证整机的产品质量。通过检验改进产品生产工艺，降低质量成本，提升产品综合竞争力。

"Creating value for customers with quality" is the quality management concept Haijia has always adhered to. Haijia carries out strict traceable and standardized quality control in the whole process from material selection, processing technology, painting to general assembly, and implements full quality management, strengthening self inspection, mutual inspection and special inspection to produce high-quality products. The company adopts advanced calibration and testing equipment to ensure the product qualification rate of each process and strictly control the quality fluctuation, so as to ensure the product quality of the whole machine. Improve the production process of products through inspection, reduce the quality and cost, We enhance the competitiveness of our products by means of inspction and improvement of manufacturing technique of our products and reducing the quality cost.



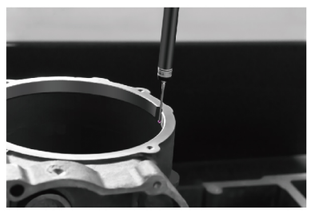












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AFTER-SALE SERVICE

售后服务

海佳具有完善的售后服务体系和质量保证体系，公司坚持“一切为了用户”的服务原则，专门建立了一支专业的技术服务队伍，并在国内设立了3个售后服务网点，在印度、越南等国家建设售后服务中心，负责为客户提供全面的售后服务及技术解决方案。此外公司质量部门每月会对客户进行回访，及时收集客户意见并形成报告，第一时间响应客户反馈。

在客户服务的流程上，海佳售后服务贯穿于设备安装与调试、用户培训、设备维修与保养、定期巡检、故障诊断、技术支持等环节中，真正实现客户服务的全流程监控与管理。

目前海佳正在借助信息化系统建立海佳售后服务管理平台，通过二维码追踪，对设备主动预测以及有效统计分析，实现设备远程运维，自主诊断，预测维护。引入PLM产品全生命周期管理，对已售出设备账目进行管理，以设备的角度管理设备的历史服务记录，配件更换记录，驱动程序，设备监控等等，形成一整套设备管理履历，实现完整的售出设备全生命周期管理，为售后服务全流程管理与模块运行提供有利的基础数据保障。

Haijia has a perfect after-sales service system and quality assurance system. We adheres to the service principle of "all for customers". We has established a professional technical service team, and has set up three after-sales service center in China. We also has established after-sales service centers in India, Vietnam and other countries to provide comprehensive after-sales service and technical solutions for customers. In addition, the quality department of the company will pay a monthly return visit to customers, collecting customer feedback in time and forming a report, and responding to customer feedback in the first time.

In the process of customer service, Haijia after-sales service runs through equipment installation and adjustment, user training, equipment repair and maintenance, regular patrol inspection, fault diagnosis, technical support and other links, truly realizing the whole process monitoring and management of customer service.

At present, Haijia is establishing Haijia after-sales service management platform with the help of the information system. Through two-dimensional code tracking, it actively predicts and effectively analyzes the equipment, and realizes remote operation and maintenance, independent diagnosis, prediction and maintenance of the equipment. PLM product full life cycle management is introduced to manage the accounts of the sold equipment, manage the historical service records, parts replacement records, drivers, equipment monitoring, etc. of the equipment from the perspective of the equipment to help us form a complete set of equipment management history, realize the complete life cycle management of the sold equipment, and provide favorable basic data guarantee for the whole process management of after-sales service and module operation.



SERVICE NEWTWORK

服务网络

