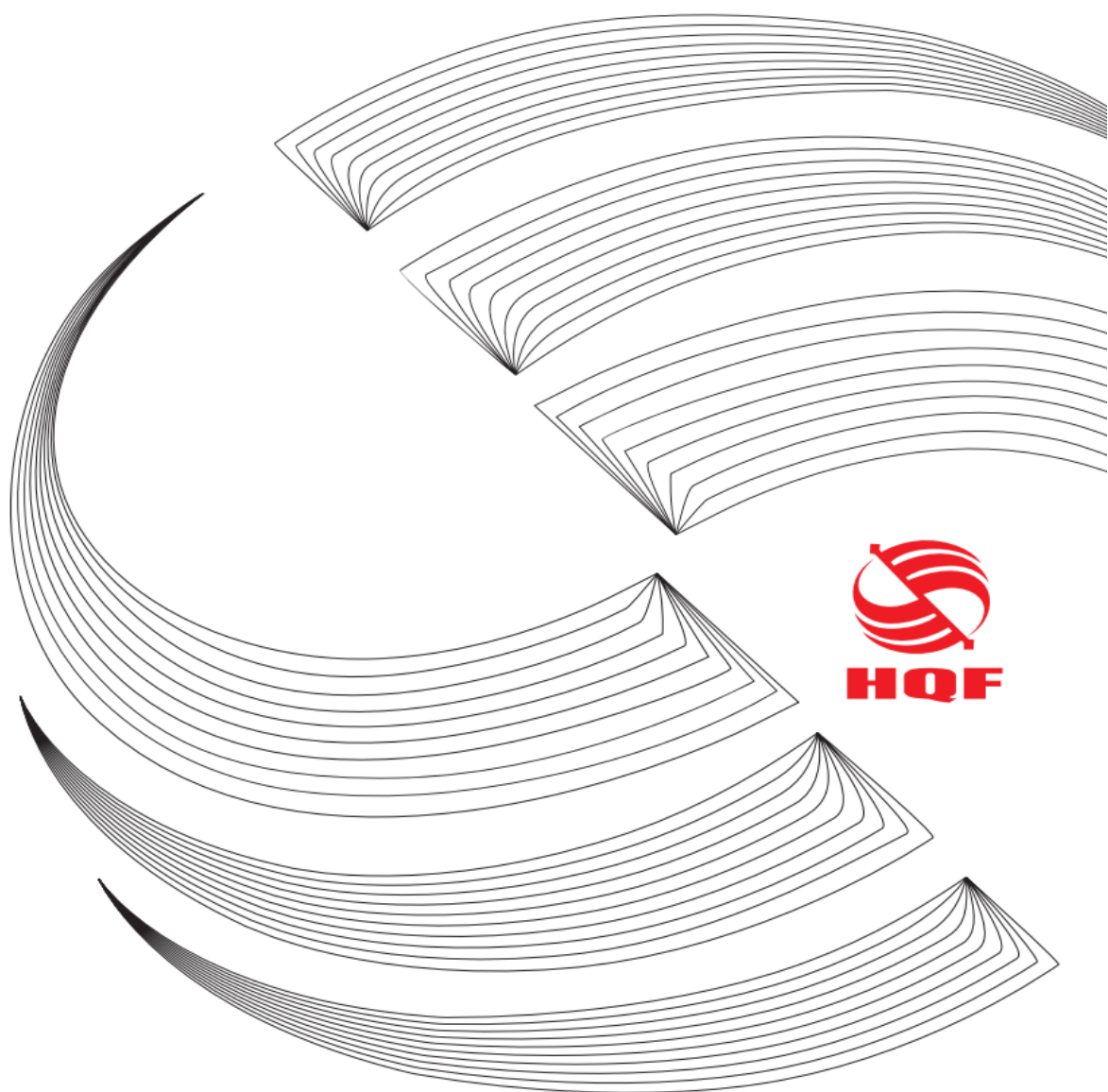




青岛天一红旗纺机集团有限公司

QINGDAO TIANYI RED FLAG TEXTILE MACHINERY GROUP CO., LTD



树立行业旗帜 铸造民族品牌

目录

CONTENTS

企业简介 01

企业荣誉 02

生产车间 03

产品展示 04-18

RED FLAG TEXTILE
MACHINERY

www.chinaredflag.com

企业简介

COMPANY PROFILE



企业文化

天 | 打造纺织第一品牌，铸就百年企业，树立行业旗帜，实现幸福人生。

地 | 品质至上，服务无限，您的选择是我们最高责任。

人 | 红旗是我家，我们依赖她，我是红旗人，真心爱护她。

和 | 世界由我，创新改变世界，舍我其谁，同心赢得未来。



青岛天一红旗纺织集团有限公司成立于 2004 年，是国内规模领先的喷气无梭织机制造企业，是纺织制造产业链核心环节的优势龙头企业，国家高新技术企业、山东省专利明星企业，两化融合贯标企业、山东省现代优势产业集群 + 人工智能”试点示范企业，也是国内喷气织机行业少有的拥有中国驰名商标的企业，已获国家专利 70 余项，其中发明专利 30 多项。现在主要生产高速智能喷气织机、高性能喷水织机，年生产能力超过 10000 台。

企业始终把产品定位于高端智能纺机市场，瞄准世界先进技术，不断的加大研发投入，提高自主创新能力，广泛进行产学研方面的交流与合作，逐步发展成为不断前行的行业领军者。已生产 85000 余台喷气织机，几乎遍布全国，出口近 10 个国家，除东南亚市场，还销往俄罗斯联邦、埃及、巴基斯坦、委内瑞拉等国家，出口量占 40%。

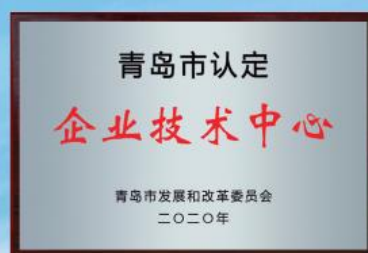
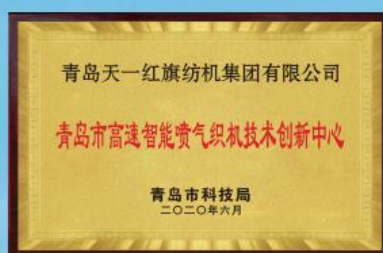
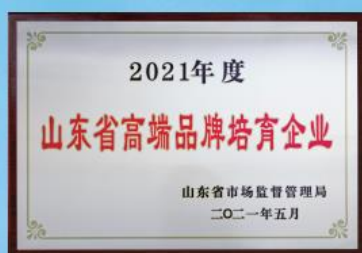


Qingdao Tianyi Red Flag Textile Machinery Group Co., LTD, was founded in 2004. We are the leading enterprise in Chinese air jet shuttle-less loom manufacturing industry and in core link of the textile machinery manufacturing industry chain. There are so many accolades such as national high-tech enterprise, patent star enterprise in Shandong province, standard enterprise of the integration of informatization and industrialization, pilot demonstration enterprise of modern advantageous industrial cluster + artificial intelligence in Shandong Province. We are the national well-known trademark enterprise, which is pretty rare in the textile industry. We own over 70 national patents and more than 30 of them are national invention patents. High-speed intelligent air jet looms and high-performance water jet looms are the main products. The annual production is over 10,000 looms.

Qingdao Tianyi Red Flag Textile Machinery Group Co., LTD has positioned the products in the high-end textile machinery market since founded. Focusing on the advanced technology in the world, keeping investing in research and development, improving independent innovation and communicating or cooperating with other institution like universities and research institution make us become the leader in the industry. More than 85,000 air jet looms have been produced. In addition to the southeast Asian market, we have exported to more than 10 countries such as Russian Federation, Turkey, Egypt, Pakistan, Venezuela. Exports account 40% of total sales.

企业荣誉

COMPANY HONOR



尖端技术打造高科技产品,这是红旗纺机永无止境的追求,多年来公司投入大量的财力、人力打造高新技术产品,创立高新技术企业;先后申请国家专利 70 多项,三种产品被认定为高新技术产品,一项技术被认定为国家火炬计划项目;公司全面推行 7S 管理,严格贯彻执行 ISO9001 质量管理体系,狠抓质量管理,提高服务质量,被国家质检协会评定为“质量兴企争创名牌”示范企业。

Technology creating high-tech products is the endless goal of Qingdao Tianyi Red Flag Textile Machinery Group Co., LTD. Over the years we have been investing a lot of financial and human resources in developing high-tech products. We own more than 70 national patents and 3 products are rated as the high-tech product by Chinese government. One of our technologies are listed in the national torch program. 7S management is fully implemented and we follow the ISO9001 quality management system strictly. We are also listed as “promoting enterprises through quality and striving for famous brands” by national quality inspection association.



生产车间

PRODUCTION WORKSHOP



公司全面推行 7S 管理，严格贯彻 ISO9001 质量管理体系运作，建立了精确先进的检测系统，保证了产品质量的可靠性、稳定性。

We implement 7S management and follow the ISO9001 quality management system strictly. Advanced and precise inspection equipment guarantees the stability and reliability of our products.



产品展示

PRODUCT DISPLAY

HQF001 新型织机 HQF001 NEW LOOM

青岛天一红旗纺织集团有限公司
QINGDAO TIANYI RED FLAG TEXTILE MACHINERY GROUP CO., LTD

HQF001 喷气织机是我公司推出的一款高端产品，可织造的品种更加广泛，尤其在织造高密度、厚重织物方面有了质的提升。新产品在运转车速和节能方面均有显著进步，190 幅宽机型车速可达每分钟 1100 转以上，230 幅宽机型车速可达每分钟 1000 转以上。宽幅机型具有更充足的引纬时间和更小的开口量，使用同种纱线时车速较连杆打纬机型有明显提升。

HQF001 air jet loom is a high-end product launched by us. A wider range of fabric varieties is able to be woven with this new product, which has significant advantages in high-running-speed and low-energy-consumption, especially for weaving the high-density and heavy fabric. The running speed of 190cm is higher than 1,100 RPM while of 230cm is higher than 1,000 RPM. With more sufficient weft insertion time and smaller shedding amount, wide looms have significant improvement in running speed compared to linkage beating-up looms when using the same yarn.

更高速、更高效、更节能、更智能的
HQF001 喷气织机是纺织企业织造设备更佳
的选择！

Higher speed, more efficient, more energy saving
and more intelligent. HQF001 is a better choice for
textile enterprises.



以共轭凸轮打纬为核心的技术创新，实现了高强度无间隙打纬，减少了停车档的产生。同时较长的可引纬时间，实现了小开口、低气压高速织造，高速和节能效果显著。

Conjugate cam beating-up mechanism is the key part of this innovation, which realizing high-strength gapless beating-up and reducing stopping defects. Longer weft insertion time and smaller shedding amount achieves weaving with lower air pressure and higher speed. The improvements of running speed and energy-saving is significant.



加强型外置积极松经后梁

外置松经摆动后梁滚筒部分延伸至前后滑架的中部，提升了摆动梁的刚性。积极松经驱动采用无级可调偏心，品种更换调整方便。（选配）

Enhanced external positive loosening rear beam

The roller part of the external loosening-warp swing rear beam has been extended to the middle of the front and rear sliding frame, which enhances the rigidity of the swing beam. Positive loosening-warp drive adopts stepless-adjustable eccentricity, which makes the change of fabric conveniently. (Optional)



直连辅助主喷电磁阀结合为一体，减少原有的中间连接气管，气流控制更加精准，高速性能和节能效果明显，可配双固定主喷。

Direct auxiliary main nozzle and solenoid valve are combined as one so that there is less connecting pipe using, which makes the control of the airflow more precisely. And also, less energy consumption and higher speed are implemented. Double fixed main nozzle is optional.

积极式油浴润滑使润滑油在外部油箱和管路不断循环，达到最佳的散热降温 and 过滤效果，最大程度减少磨损，且便于使用和维护。

Positive oil bath lubrication circulates the lubricating oil among external tank and pipes, which improves cooling and filtration, minimizes wear and tear.

JA93 系列喷气织机 JA93 AIR JET LOOM

JA93-190~360 系列喷气织机是我公司经历多年积累，精心研发而成的新一代喷气织机。织机性能媲美当今国际先进水平，更合理的机架结构、更有效的经纱张力控制系统、更高效节能的引纬系统，使得 JA93 系列在织造重磅织物时更加稳定，转速更高。JA93-190~360 系列喷气织机将以其优越性能引领中国织机制造行业的发展。

JA93-190~360 series air jet loom is a new generation of air jet loom product, which had been developed for years by Qingdao Tianyi Red Flag Textile Machinery Group Co., LTD. Its performance is comparable to the advanced air jet loom in the world. The rack is designed more reasonably and the warp tension control system and the weft insertion system are more efficient, that allows JA93 series more stable to weave heavier fabric at higher running speed. JA93-190~360 series air jet loom is leading the Chinese textile machinery industry by its superior performance.



多支撑平衡打纬机构

箱座支臂采用动力平衡结构，在增加打纬力的同时，最大程度减小了打纬机构产生的振动，是提升高速织造性能的重要环节。

Multi-support balanced beating-up mechanism

The reed arm adopts a dynamic balance structure. This structure increases the beating-up strength while minimize the vibration from beating-up. This is an important part to improve the weaving performance at high running speed.



分段式辅气包

将纬纱在整个飞行区间的辅气压做前、中、后三段的分别设定，以对应纬纱的加速、正常飞行及减速阶段的要求。

Segmented air tank

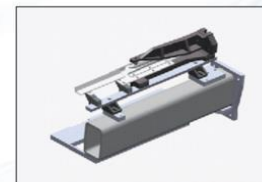
Separately setting the pressure of sub nozzle for front, middle and back sections to adapt to the requirements of weft accelerating, normal flight and weft deceleration phases.

重叠式托布板结构

在织造品种变化需要改变幅宽时，该结构可以方便地调整右侧边撑，避免截断或更换布撑杆。

Overlapping cloth-support bar

When customer needs to change the width of weaving, the position of right temple is easy to adjust. Truncation or replacement of cloth strut is no longer necessary.

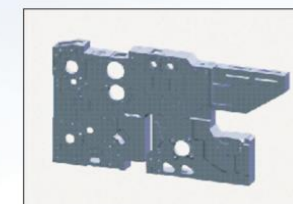


新型超稳定机架

新型机架提高了机架连接的刚性，减少了运转过程中可能产生的形变，增强了整机运转的稳定性，更适合织造高速重磅织物。

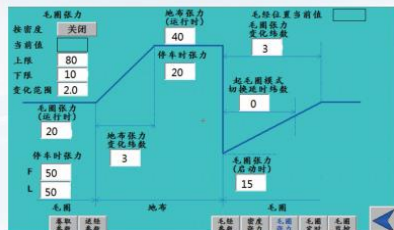
New super-stable rack

New rack increases the rigidity of the connection of the frame, restrains the deformation during running, increases the stability of operating, and makes it more suitable to weave heavy fabric at high speed.



RED FLAG TEXTILE
MACHINERY

JA93T terry air jet loom is a derivative product based on JA93 series. According to the demand of market, market researching, communication with customers, we launched this new generation air jet loom product. The shedding mechanism, welt insertion, beating-up, let-off and take-up system and loop-pile mechanism are all improved, which enhances the convenience and efficiency of terry weaving. JA93T is faster, more efficient, more automated and more stable.



毛圈张力多段控制系统

Loop-pile multi-stage tension control system

Loop-pile multi-stage tension control system means setting tension in 2 stages (starting, running) separately while weaving ground structure or stopping, which aims to guarantee the same height of loop-pile when weaving from ground structure to loop-pile. In addition, tension of terry warp is adjustable to adapt to different kinds of terry weaving.



伺服起毛机构

Servo loop-pile mechanism

Loop-pile mechanism is the core of terry air jet loom. Servo motor is used to control loop-pile, collaborating with reducer. It ensures the consistency of loop-pile height and allows to weave special fabric more easily.

伺服毛经张力系统

Servo loop-pile tension system

The terry warp tension of JA93T terry air jet loom, is adjusted by servo motor, which controls the forward and backward of terry warp tension strut. This system is simple to use and ensure the consistency of the height of loop-pile.

毛经消耗精确控制装置

Precise terry warp consumption control device

During weaving, the consistency of the height of loop-pile is an important indicator to evaluate the terry air jet loom. The precise terry warp consumption control device, designed and developed by us, transfers the information to system. System will calculate the precise consumption of terry warp to make sure the consistency of the loop-pile.

JA93T applies electronic loop-pile system. Loop-pile servo motor controls the forward and backward of sliding mechanism on the beam. The angle of the movement controlled by this system is precise to achieve ideal loop-pile movement. It is also convenient to make adjustments.

JA92 玻纤喷气织机 JA92 AIR JET LOOM

JA92 玻纤喷气织机是专门为织造玻璃纤维织物而设计的喷气织机，适用于以玻璃纤维为原料的漆布、层压布、覆铜板布等。该机型适用范围宽广，可用于织造 50g/m² 以下的轻型玻纤织物，亦可用于织造 300g/m² 的重型玻纤织物。具有纬纱磨损小、产量大、运转平稳、噪音低、性价比高等特点。配备强力吸尘装置，有效吸走织造时产生的细小纤维尘粒，保障操作工的身心健康。

JA92 glass fiber air jet loom is specially designed for glass fiber fabric, suitable for weaving various of glass fiber material such as varnished cloth, laminated fabric. JA92 is suitable to weave various of fabric, from light weight fabric under 50g/m² to heavy fabric 300g/m². It has many characteristics such as low weft wear, high production, stable operating, low noise and high cost-effectiveness. It equips with powerful suction device to remove fine fiber dust particles during weaving, which is important to the health of operators.

专门设计了大尺寸边盘和机外大卷装，
 减少了用户上轴落布次数，提高了织造效率。
 边盘最大直径可达 1000 mm，机外卷布最大
 直径可达 1200 mm。

In order to reduce the frequency of installing warp beam and cropping, large warp beam and external rolling mechanism is specially designed for this loom. Maximum diameter of warp beam is 1,000 mm while maximum diameter of external rolling mechanism is 1,200 mm.

废边剪刀机构采用砍刀方式，拖垫可随
 布面转动，表面损耗均匀使得使用寿命延长，
 且布边整齐。

Selvage cutting mechanism is like machete. Drag pad rotates along with cloth surface. The surface wear is uniform so that the lifetime is extended and cloth selvage is clean.



废边收集机构

剪下的废边纱头将完全吸入吸风箱，减少纱线消耗，避免布边缺陷，避免毛羽造成空气污染，保证机台清洁和工作环境良好。

Selvage collection mechanism

Selvage yarn is suctioned into a box. This mechanism reduces the consumption of yarn, and prevents selvage defects, and avoids air pollution caused by glass fiber particles to make sure the cleaning of machines and the comfort of operating environment.

恒张力卷布结构

布面张力由传感器控制，可保证卷布张力恒定，提高布面质量。特殊品种可采用气胀轴卷布辊。

Constant tension batching mechanism

Tension of cloth is controlled by sensors to make sure the constancy of rolling tension and improve the quality of cloth. Air expansion roller is optional for special fabric.

调压系统

主喷气压可根据纬纱到达情况自动调整，降低纬纱破丝率，既有利于提高织造效率，又降低了耗气量。

Pressure adjustment system

The pressure of main nozzle is self-adjusted based on the arrival time of weft yarn. Aim to reduce the rate of weft breaking, improve weaving efficiency and reduce energy consumption.

JA92、JA93、HQF001 喷气织机说明对比

● 标配 Standard ○ 选配 Optional — 无 N/A

项目 Item		规格 Specification	JA92	JA93	HQF001
筘幅 Reed Width	公称筘幅 Nominal (cm)	190、210、230、260、280、300、320、340、360	●	●	●
	有效筘幅 Effective(cm)	缩幅：-60cm ~ 0 (190 ~ 260cm) Neck in：-60cm ~ 0 (190 ~ 260cm)	●	●	●
		缩幅：-80cm ~ 0 (260cm 以上) Neck in：-80cm ~ 0 (260cm and wider)	●	●	●
织造范围 Weaving Range		短纤维：100S/1 ~ 5.8S/1 Short-staple：100S/1 ~ 5.8S/1 化纤：20D ~ 1200D Chemical fiber：20D ~ 1200D	●	●	●
纬纱选择 Weft Selection		2 色、4 色、6 色、8 色 2colors、4colors、6colors、8colors	●	●	●
动力 Power	启动方式 Driving Mode	直驱电机 Direct-motor	○	○	●
	运转操作 Operating	通过双侧电磁制动器控制定位停车 Locating stop position by bilateral electromagnetic brakes	○	○	●
引纬 Weft Insertion		直连式双辅助主喷嘴 Direct-connection double auxiliary main nozzle	○	○	●
		牵伸喷嘴 - Stretch nozzle	○	○	●
		主喷、副喷独立供气 Independent air supply to main and auxiliary nozzles	○	○	●
打纬 Beating-up		四连杆打纬（筘幅 280cm 以下） 4-linking beating-up（Reed width: narrower than 280cm） 六连杆打纬（筘幅 280cm 及以上） 6-linking beating-up（Reed width: 280cm and wider）	●	●	—
		共轭凸轮打纬 Conjugate cam beating-up	—	—	●
		新型多支撑打纬轴机构 New multi-support beating-up mechanism	—	—	●
开口 Shedding		曲柄开口：综框最多 6 片 - Crank：up to 6 heald frames	●	●	●
		积极式凸轮开口：综框数量最多 10 片 Positive cam：up to 10 heald frames	●	●	●
		电子多臂开口：综框数量最多 20 片（标准 16 片） Electronic dobby：up to 20 heald frames (16 are standard)	—	●	●
		电子提花开口 - Electronic jacquard	●	●	●
送经 Let-off		外置式积极松经后梁 External positive loosening warp rear beam	○	●	●
		内置式积极松经后梁 Internal positive loosening warp rear beam	●	—	—
		消极式松经后梁 - Negative loosening warp rear beam	○	○	○

JA92, JA93, HQF001 AIR-JET LOOMS DESCRIPTION COMPARISON

● 标配 Standard ○ 选配 Optional — 无 N/A

项目 Item		规格 Specification	JA92	JA93	HQF001
卷取 Take-up	电子卷取 (可织造多种纬密、空织) Electronic take-up (various of fabric is able to weave even empty weaving)		●	●	●
	卷布精确计长 – Precise cloth-rolling calculation		○	○	○
	最大卷布直径: 机内卷 (Φ600mm), 机外独立卷 (Φ1500mm) Max take-up diameter: Internal cloth roller (Φ600mm) External cloth roller (Φ1,500mm)		●	●	●
绞边 Leno	电子绞边 (箱幅 260cm 以下) Electronic leno (Reed width narrower than 260cm)		○	○	●
	机械绞边 (箱幅 280 及以上) Mechanical leno (Reed width 280cm and wider)				
废边处理 Selvedge		截箱式光边 / 不截箱式光边 / 化纤热熔边 Reed-cut tuck-in/non-reed-cut tuck-in/chemical fiber hot melt selvedge	○	○	○
剪纬 Weft Cutting	左侧: 电子式 – Left side: Electric Scissors		○	○	●
	右侧: 机械式 – Right side: Mechanical Scissors		●	●	●
润滑 Lubrication	主传动部分为油浴式润滑 Oil-bath lubrication for main transmission part		●	●	—
	主传动部分为油泵主动式润滑 Positive oil pump lubrication for main transmission part		—	—	●
	自动集中供油 – Automatic centralized lubrication		●	●	●
停车装置 Stopping	纬停 Weft stop	光电式探纬器、双探头带纬纱到达角度显示功能 Photoelectric weft detector, double-detector with weft arrival time display function	●	●	●
	经停 Warp stop	电气接触式, 六列停经片经停装置 Electronic stop detector with 6 drop-wire-bars	●	●	●
	自动捕纬 APR	短纬停车自动捕捉纬纱后自动开机装置 Automatically stop and remove the broken weft yarn then restart weaving	○	○	○
	停车显示 Indicator	控制面板显示停车原因, 多功能 4 色停车显示灯 Stopping reason shows on control panel Multi-functional 4-color indicator	●	●	●
	保护 Protection	防打手光电保护 Photoelectric hand protection device	○	○	●
控制系统 Control system	具有参数设定 / 控制 / 监控 / 自我诊断功能的人工智能界面 Artificial intelligence interface, with parameter setting/control/monitoring/self-diagnosis		●	●	●
	气压检测、耗气量显示 Air pressure detection and air consumption display		●	●	●
	无线网络功能 – Wireless networking function		○	○	○
	监控器输出 – Monitor output		●	●	●
	喷射自动控制 – Automatic weft insertion control		●	●	●

JW82 喷水织机 JW82 WATER JET LOOM

JW82 喷水织机是在进口机型基础上加以改进的新机型。全系列采用电子松经、电子卷取，可实现变纬密织造。公司自主研发的智能化控制系统，可实现整机参数在方便、友好的人机界面上的全部设定。

JW82 water jet loom is the brand new model improved on the basis of imported model. Electronic let-off and take-up system, as well as variable weft-density weaving, are the standard configurations of full series. With the intelligent control system that is designed by us independently, all parameter settings are easy to set up on a convenient and friendly interface.



采用高速水泵系统，有利于高速时稳定引纬。

In order to insert weft yarn steadily at high running speed, high-speed water pump system is implemented.



可以实现曲柄开口（最多 8 片），上置式凸轮开口（最多 12 片），上置式多臂开口（最多 16 片），电机直驱开口等不同开口形式的选择。

Multiple shedding mode are optional such as crank (at most 8 heald frames), upper cam (at most 12 heald frames), upper dobby (at most 16 heald frames) and direct motor driving system.

可选择单泵或双泵配置，配合智能电控系统，实现双色或四色自由选纬。

With intelligent control system, arbitrary 2 or 4 colors weft yarn selection is available by equipping single pump or double pumps.

箱幅系列（厘米）170、190、210、250、280、340、360。

Reed width (cm) : 170、190、210、250、280、340、360.

该机型具有高刚性的机架结构，可高速、稳定地织造厚重、高密度织物。

High-rigidity rack structure makes this model eligible to weave heavy and high-density fabric steadily at high running speed.

配备四连杆或六连杆（280cm 以上箱幅时）打纬机构，多点支撑带配重的打纬轴，更适合高速稳定运转。

With four-link or six-link (reed wider than 280cm) beating-up mechanism and multi-support balanced beating-up shaft, this model is suitable for weaving at high speed.



JW51、JW61、JW82 喷水织机说明对比

● 标配 Standard ○ 选配 Optional — 无 N/A

项目 Item		规格 Specification	JW51	JW61	JW82
箱幅 Reed Width	公称箱幅 Nominal (cm)	190、210、230、260、280、300、320、340、360	●	●	●
	有效箱幅 Effective(cm)	缩幅: -30cm ~ 0 (190 ~ 230cm) Neck in: -30cm ~ 0 (190 ~ 230cm)	●	●	●
		缩幅: -60cm ~ 0 (190 ~ 230cm) Neck in: -60cm ~ 0 (190 ~ 230cm)	●	●	●
		缩幅: -90cm ~ 0 (260cm 及以上) Neck in: -90cm ~ 0 (260cm and wider)	●	●	●
织造范围 Weaving Range		化纤: 20D ~ 1200D Chemical fiber: 20D ~ 1,200D	●	●	●
纬纱选择 Weft Selection		1 色、2 色、3 色、4 色 1 color, 2 colors, 3 colors, 4 colors	●	●	●
启动方式 Driving mode		直驱电机 - Direct-motor	○	○	●
		三相异步电动机 - Three-phase asynchronous motor	●	●	○
引纬 Weft Insertion		单泵单喷、单泵双喷、双泵双喷、双泵三喷、双泵四喷 1 pump and 1 nozzle, 1 pump and 2 nozzles, 2 pumps and 2 nozzles, 2 pumps and 3 nozzles, 2 pumps and 4 nozzles	●	●	●
		常规不锈钢喷嘴 - Stainless steel nozzle	●	●	●
		U 型喷嘴 -U-type nozzle	○	○	○
打纬 Beating-up		四连杆打纬 (箱幅 190cm ~ 360cm) 4-linking beating-up (Reed width:190cm ~ 360cm)	●	●	○
		六连杆打纬 (箱幅 280 ~ 360cm) 6-linking beating-up (Reed width:280 ~ 360cm)	—	—	●
		同心管打纬轴机构 - Concentric tube beating-up shaft	○	○	—
		偏心管打纬轴机构 - Eccentric tube beating-up shaft	●	○	—
		多支撑实心 U 型打纬轴机构 Multi-support solid U-type beating-up shaft	—	○	○
开口 Shedding		曲柄开口: 综框最多 8 片 - Crank; up to 8 heald frames	●	●	●
		上置式凸轮开口: 综框数量最多 12 片 Upper cam: up to 12 heald frames	●	●	●
		上置式多臂开口: 综框数量最多 16 片 Upper dobby: up to 16 heald frames	●	●	●
		电子提花开口 - Electronic jacquard	●	●	●
送经 Let-off		机械送经 - Mechanical let-off	○	○	—
		电子送经 - Electronic let-off	●	●	●
		消极式松经后梁 - Negative loosening warp rear beam	●	●	●
		积极式松经后梁 - Positive loosening warp rear beam	—	○	○



JW51、JW61、JW82 WATER JET LOOM SPECIFICATIONS CONFIGURATION

● 标配 Standard ○ 选配 Optional — 无 N/A

项目 Item		规格 Specification	JW51	JW61	JW82
卷取 Take-up		机械卷取 – Mechanical take-up	○	○	—
		电子卷取 – Electronic take-up	●	●	●
		最大卷布直径: 机内卷(Φ520mm), 机外独立卷(Φ1500mm) Max take-up diameter: Internal cloth roller (Φ520mm) External cloth roller (Φ1,500mm)	●	●	●
供纱架 Weft Stand		落地式 2 只纱筒 (单喷)、落地式 4 只纱筒 (双喷)、 落地式 6 只纱筒 (三喷)、落地式 8 只纱筒 (四喷) Floor type 2 bobbins (1 nozzle) Floor type 4 bobbins (2 nozzles) Floor type 6 bobbins (3 nozzles) Floor type 8 bobbins (4 nozzles)	●	●	●
		非落地式 2 只纱筒 (单喷) None-floor-standing 2 bobbins (1 nozzle)	○	○	○
绞边 Leno		机械绞边 – Mechanical leno	●	●	●
		中间纱罗绞边 – Middle leno	○	○	○
废边处理 Selvedge		锭子加捻方式 Spindle twisting	●	●	●
剪纬 Weft Cutting		上置式不锈钢刺环式边撑 Upper stainless-steel thorn ring temple	●	●	●
		机械式剪刀 – Mechanical scissors	●	●	●
润滑 Lubrication		主传动部分为油浴式润滑 Oil-bath lubrication for main transmission part	●	●	●
		自动集中供油 – Automatic centralized lubrication	○	○	○
		手动润滑 – Manual lubrication	●	●	●
停车 装置 Stopping	纬停 Weft stop	光电式探纬器 Photoelectric weft detector	●	●	●
	绞边 Leno	接近开关 Proximity switch	●	●	●
	停车显示 Indicator	控制面板显示停车原因, 多功能 4 色停车显示灯 Stopping reason shows on control panel Multi-functional 4-color indicator	●	●	●
控制系统 Control system		多功能控制系统, 具有参数设定 / 控制 / 监控 / 自我诊断 / 人工 智能界面 Multi-function control system, including parameter setting/ control/monitoring/self-diagnosis/artificial intelligence interface	●	●	●
		无线联网功能 – Wireless networking function	○	○	○
		监控器输出 – Monitor output	●	●	●

自动穿经机 AUTOMATIC DRAWING-IN MACHINE

我司自动穿经机均为模块化设计，穿纱速度可达 165 根 / 分钟。在标准型号的基础上，使用者可根据需求选择自己所需的配置。O 型综框最多可达 16 页，J 型和 C 型综框最多可达 20 页。该机型具有电子双经检测装置，可以在不分绞的情况下检测双纱并自动停机，减少经纱穿错钢筘的情况，提高布面质量和生产效率。

Our automatic drawing-in machine is modular designed, which speed is up to 165 threads per minute. Based on the standard model, there are multiple additional options available for customers. Maximum heald frames for O type is 16 while for J and C type is 20. It also comes with electronic double-yarn detection device, which detects double yarn and automatically stop without twisting. The situation of double-yarn reduces while cloth quality and production efficiency improves.

停经模組

由停经片库提供停经片，停经片分离器则将它们依次分离，并由旋转头气缸抓手将其带到穿经位置，穿入纱线后由分配器将停经片弹出排列至停经杆上。

Drop wire module

The drop wires are provided by the drop wire storage, and the drop wire separator separates them in turn, then the cylinder gripper will bring it to the drawing-in position. After drawing-in process, the drop wires will be ejected and arranged on the drop wire rod.

钢筘模組

用来输送钢筘，钢筘卡座可稳定钢筘。穿综时，钢筘架在轨道上移动，监控装置检查其移动是否为筘刀插入筘齿的正确位置，若正确，则插入筘刀，将筘齿打开至一定宽度让剑带钩和纱线顺利穿过。

Reed module

It is for conveying the reeds, and the clamp can stabilize the reed. The reed rack moves on the track during the drawing-in process, and the monitoring device checks whether its movement is in the right position. If it is correct, the reed knife will inserted to open the reed teeth to a certain width to make sure that rapier hook with yarn can pass through smoothly.

经纱模組

纱线被分纱组件分出，然后送至剑带钩。再穿过停经片、综眼和钢筘之后，纱线从剑带钩被排出，然后由吸纱器吸住，分纱感应器则检测纱线是否已正确穿入。

Warp module

The yarn will be separated by the yarn separating parts and then sent to the rapier hook. After passing through the drawing-in process, the yarn will be discharged from the rapier belt structure and then sucked by the yarn suction device. The yarn separation sensor detects whether the yarn has been correctly inserted.

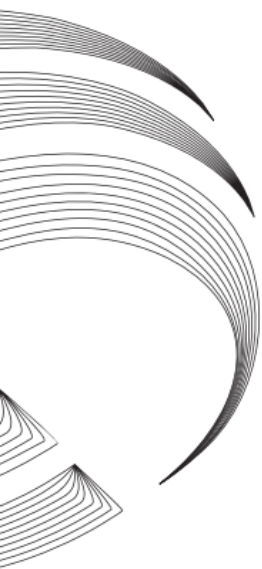
综丝模組

机器从综丝库中取得综丝，由分综刀分离后送到输送皮带上。在综丝穿过正确位置的综眼后，会被排综器排出至综框或综条，综框和综条则被固定在架子上。

Heald module

The machine obtains healds from the heald storage, and the separation knife separate healds and send them to the conveyor belt. After the heald threaded cross the hole in the right position, the heald will be discharged to the frame or by the arranger. The main frame or heald is mounted on the fixed frame.





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