



青岛天一集团红旗纺织机械有限公司
QINGDAO TIANYI GROUP RED FLAG TEXTILE MACHINERY CO.,LTD.

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青岛天一集团红旗纺织机械有限公司
QINGDAO TIANYI GROUP RED FLAG TEXTILE MACHINERY CO.,LTD.

喷气织机
AIR JET LOOM



树立行业旗帜
铸造民族品牌

RED FLAG TEXTILE
MACHINERY

www.qd-redflag.com

企业简介 Introduction Corporation

青岛天一集团创建于1976年，是集纺织机械、自动化控制系统、电动机、新能源、木制工艺品制造，房地产开发、建筑及装饰为一体的综合性大型股份制集团企业，注册资本5.7亿元，现有员工6000余人。

天一集团红旗纺织机械有限公司是中国纺织机械器材工业协会成员单位，公司专业研发、生产和销售高性能、优质量、喷气织机、喷水织机和粗纱机。公司是国家重点高新技术企业、青岛市“专精特新”示范企业、清洁生产企业，第一批“千帆计划”企业，先后通过ISO 9001质量管理体系认证、ISO 14001环境管理体系认证、OHSAS职业健康安全管理体系认证等，已获国家专利70多项，其中30项为发明专利。

在企业成长与不断发展的过程中，我们珍惜与每一位客户合作的良机，遵从利益共享的双赢原则，坚持“用户是质量的唯一裁判，用户标准是企业的最高质量标准”的原则，不断满足顾客更新更高的需求和愿望。

Qingdao Tianyi group was founded in 1976, was the collection textile machinery, the automation control system, the electric motor, the wooden handicraft manufacture, the property development, the construction and the decoration is a body's comprehensive large-scale joint stock system group enterprise, the registered capital 570,000, 000 Yuan, existing staff 6000 people.

Tianyi group Red Flag textile machinery Limited company is China textile machinery equipment industrial association member unit, the company specializing in the development, production and marketing of high performance, superior quality roving machine, air jet looms and water-jet looms. The company is a national key high-tech enterprise, Qingdao City, "new special expertise" business model, clean production enterprises, the first batch of "thousands of sail plan" enterprises, the State has an ISO 9001 quality management system certification, ISO 14001 environmental management system certification, OHSAS occupational health and safety management system certification. countries have been more than 70 patents, including 30 invention patents.

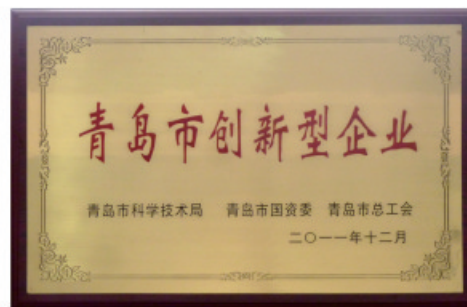


In the enterprise grows with in the process which develops unceasingly, we treasure with each customer cooperation good opportunity, the deference benefit sharing win-win principle, the solid maintenance“the user is the quality only referee, the user standard is enterprise's best quality standard”the goal, satisfies the customer to renew a higher demand and the desire unceasingly.



企业荣誉 The honor of the company

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。



Advanced technology creates high science and technology products, All above is the endless pursuit of the Red Flag Textile machinery Co., LTD. Over the years the company has been putting in a lot of financial and human resources to build high-tech products, creating high-tech enterprises; Application more than 70 national patents, the three products are identified as high-tech products, one technology was identified as a national Torch Program projects; company fully implement 7S management, and strict with implementation of the ISO9001 quality management system, and guarantee the quality of management, improve service quality, and rated as "striving for quality and brand-level" model enterprise by the National Quality Inspection Association.

青岛天一集团红旗纺织机械有限公司
QINGDAO TIANYI GROUP RED FLAG TEXTILE MACHINERY CO.,LTD.

工厂展示 Assemble 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。

Company fully implement 7S management, and strict with implementation of the ISO9001 quality management system, buy many advanced and precision inspecting equipments guarantee the reliable and stable of the products' quality.

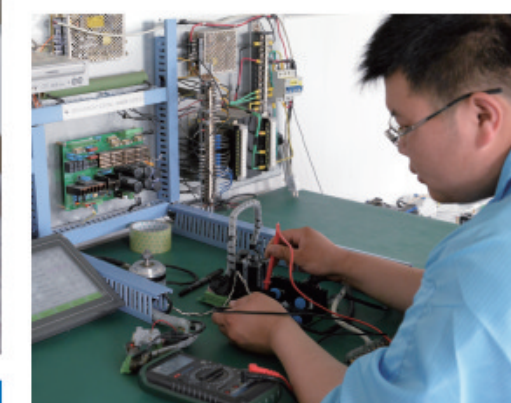
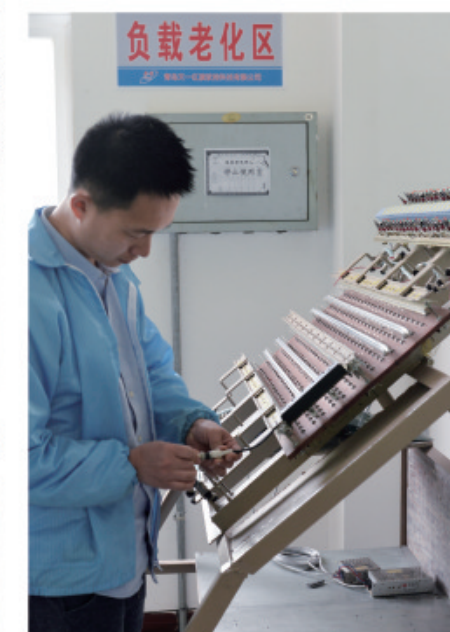
整装待发的出口产品 Air Jet Loom Export to Oversea



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MACHINERY

三坐标测量仪
Three-coordinates
measuring
machine

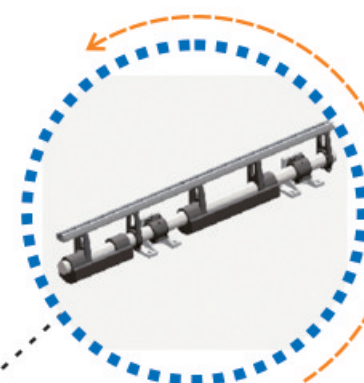




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JA93系列喷气织机

JA93 AIR JET LOOM

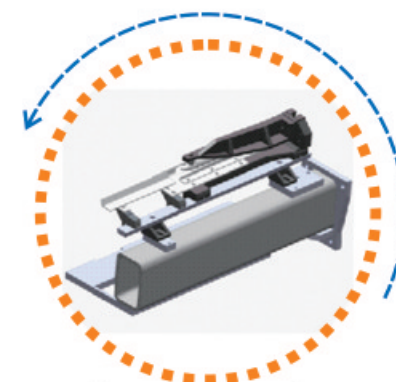


多支撑平衡打纬机构

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

More support balanced Beating

Sley with a power balance arm structure, increasing the beating force is reduced while the maximum level of vibration generated by beating, is to improve the performance of the important part of high speed weaving.



1.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。

1.Overlapping guide bar structure

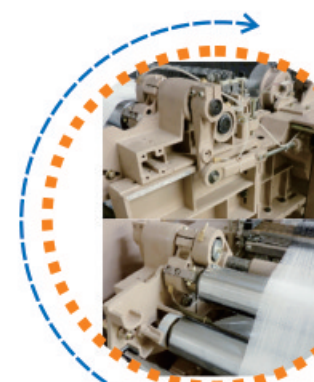
Changes need to be changed in the weaving varieties width, the structure can be easily adjusted on the right side brace, brace avoid truncation or replace cloth.

2.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。

2.Sectional sub air bag

Separately setting sub nozzles' air pressure in whole weft insertion zones via front, middle and back three zones, in order to meet the needs of the weft insertion accelerate, normal weft insertion and decelerate stage.

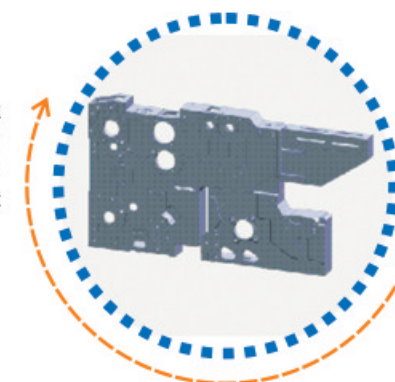


新型后梁结构

实现外置式松经传动，方便调整与维护；左右贯通的张力感应轴将经纱张力精准的传递给张力控制系统；缩短张力后梁的长度，防止织造厚重织物时弯曲造成的幅宽方向的经纱张力差异。

New back roller structure

Achieve External easing drive, to facilitate the adjustment and maintenance; about through the tension sensing axis warp tension accurately transmitted to the tension control system; shortened tensionLiang length, to prevent weaving heavy fabrics caused by bending of the width direction of the warp tension difference.



新型超稳定机架

新型机架提高了机架连接的刚性，减少了运转过程中的机架变形，增强整机的运转稳定性，更适合高速重磅。

New super-stable rack

New rack rack connections increased rigidity, reducing rack deformation during operation, and enhance the stability of the whole operation is more suitable for high-speed heavy.



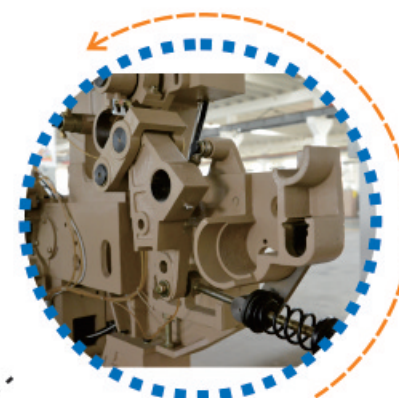
JA93-190~360喷气织机

JA93型系列喷气织机是青岛天一红旗推出的新一代喷气织机，是我公司经过多年努力精心研制开发而成，其性能可以和当今国际先进的织机媲美；更加合理的机架和经纱张力控制系统使织造高速重磅织物更加稳定，引纬系统更加高效节能；JA93型系列喷气织机将以其优越性能引领中国织机制造行业发展。

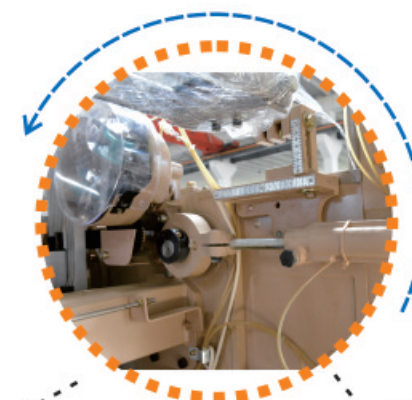
JA93-190-360 Air Jet Loom

JA93 series Air Jet Loom is a new generation of Qingdao Tianyi Red Flag, the company is well-developed after years of efforts made, its performance can be the first of today's international loom comparable, More reasonable frame and warp tension control system enables high-speed heavy woven fabric more stable weft insertion system more energy efficient. JA93 series jet loom will be its superior performance to lead the Chinese manufacturing industry looms.

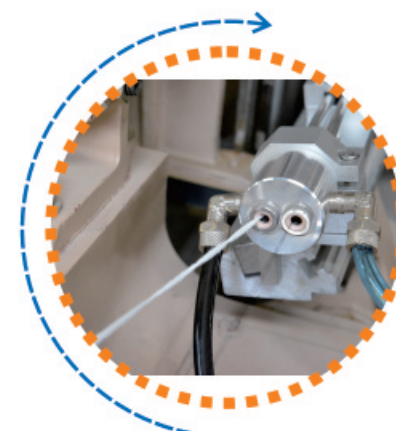
JA11-230气动折边织机 JA11-230AIR JET LOOM



消极松经
Negative easing



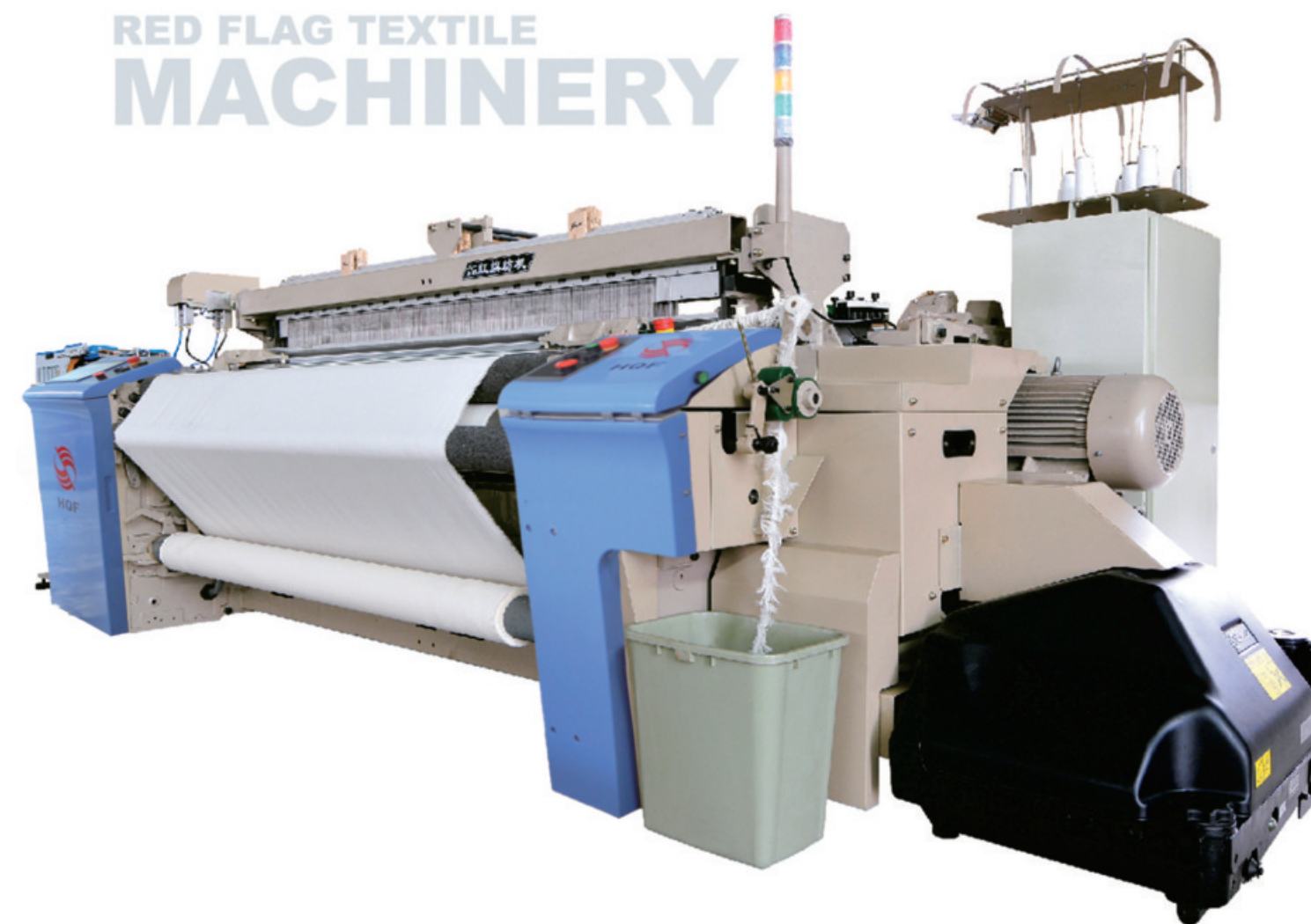
积极松经
Positive easing



高差异化纱线
High differentiation yarn

JA11-280高速喷气织机 JA11-280 High Speed Air Jet Loom

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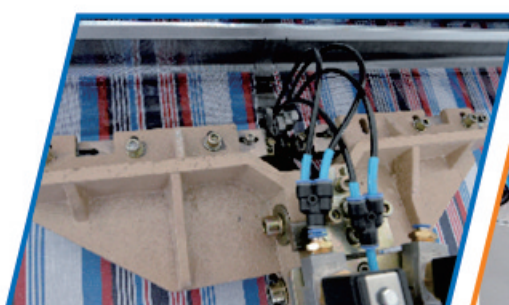


气动折入边装置

由电子控制的喷射气流使纱端内折，实现织物光边织造，结构简单，使用方便，不会由于机械故障而损坏钢筘，也不会由于机械零件的磨损而影响布边质量。

Air tuck-in mechanism

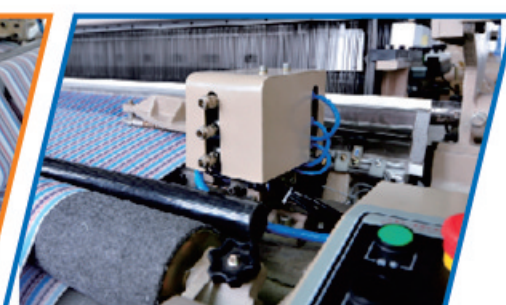
By the electronic control of the jet stream within the folded end to make yarn, weaving side to achieve the fabric light, simple structure, easy to use and will not damage due to mechanical failure of the reed, it will not wear due to mechanical parts to affect the quality of cloth edge.



中间折入边 Centre tuck in



操作屏防护 Screen Shield



气动折入边 Pneumatic tuckin

JA11上下双重织轴喷气织机

JA11 UP AND DOWN DOUBLE BEAMS AIR JET LOOM



JA11上下双重织轴喷气织机

我公司研发的JA11上下双重织轴高档宽幅喷气织机是针对纺织企业开发高附加值双面织物、色织物研发而成，该产品具有箱幅宽、转速高、织物范围广、品种适应性强(可广泛应用于棉、毛、丝、麻、化纤等各个纺织行业)、织造效率高、自动化程度高、性能稳定可靠等特点，为纺织企业解决了开发高附加值双面织物时遇到的浆纱和织造的难题，是纺织企业开发高档织物产品(高档单面亮光双面涤弹丝遮光布、高档家纺布、色织布)提高产品质量、降低劳动成本、减少环境污染、提高经济效益的理想设备。性能指标：公称箱幅为190-360cm(可根据用户需求生产相应的箱幅)，上、下织轴盘片直径 $\phi 800\text{mm}$ (或 $\phi 914$ 、 $\phi 1000\text{mm}$)、主轴转速400-750rpm(实际车速根据织物规格确定)、箱幅可调范围0-800mm、适用织造长丝或短纤、卷布直径550mm、上下织轴经纱双伺服控制、电子多臂开口(16片)、电子卷取(机械卷取)、10" 触摸液晶显示智能电脑控制。

JA11 Up And Down Double Beams Air Jet Loom

The developed product JA11 up and down double beams air jet loom is designed for textile enterprise to develop high added valve double-faced fabric and color fabric, this product is designed with wide reed width, high speed, wide range of fabrics, strong adaptability (widely used in cotton, wool, silk, flax, chemical fiber etc. each textile industry), high efficiency, high automatic level, stable and reliable performance etc., help textile enterprise solve the problem of when develop high added valve double-faced fabric it is hard to sizing and weaving, it is useable for textile enterprise to develop top grade weaving fabric (like top grade black-out cloth top grade home textile fabric, color fabric), improve fabric quality, reduce environment pollution, reduce the cost of labor, increase economic efficiency.

Product performance: nominal reed width is 190cm-360cm(can meet with user need), the diameter of high and low warp beam flanges is $\phi 800\text{mm}$ (or $\phi 914\text{mm}$), the rotate speed of main shaft is 400-750rpm(the actual speed is based on the ϕ specification of the fabric), the range of reed width is 0-800mm, suitable for weaving filament and spun, the diameter of roller is 550mm, high and low beam warp double servo control, electronic dobby shedding(16 shaft), electronic take up (or mechanical take up), 10.4" touch screen with intelligent computer control system.

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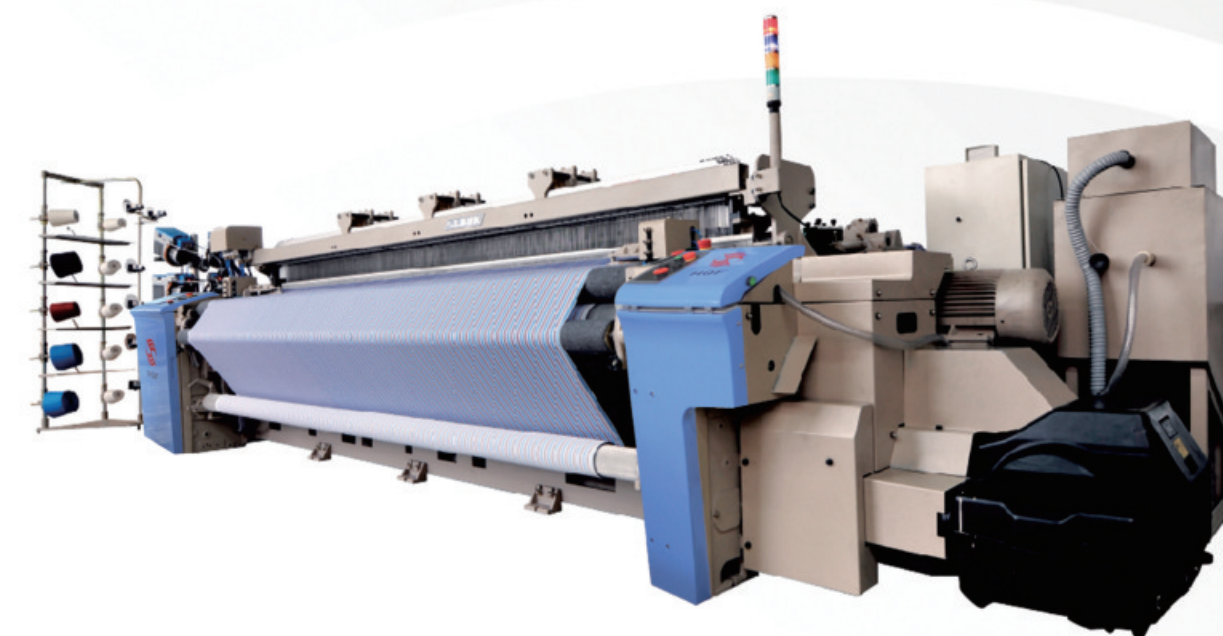


JA11-340六色选纬喷气织机

JA11-340 SIX COLORS WEFT SELECTION AIR JET LOOM

JA11-190-360喷气织机

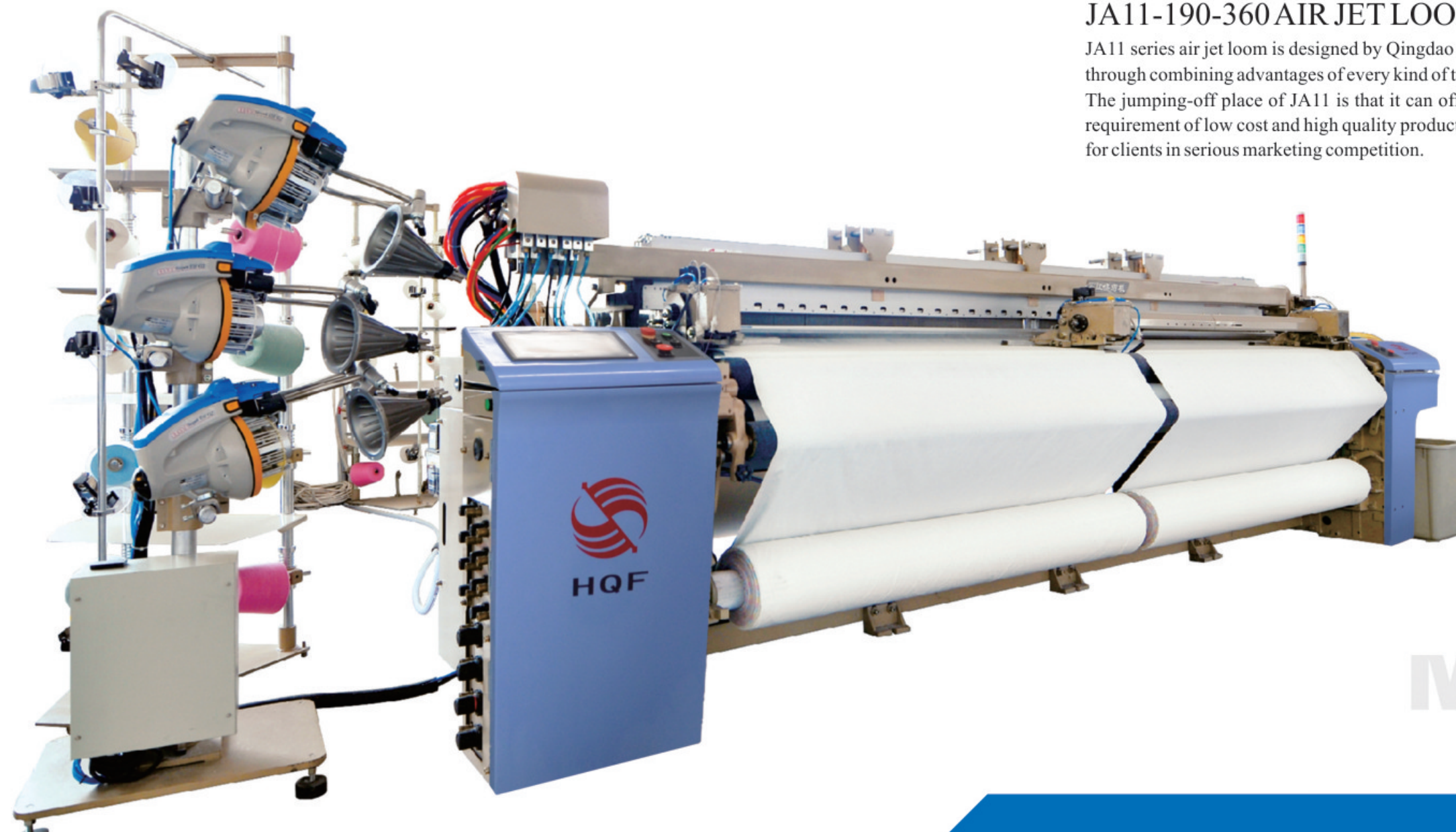
青岛天一集团红旗纺织机械有限公司开发的JA11系列喷气织机秉持自主创新，以技术为先导的理念，结合国内外各种织机的优点和我国国情与青岛大学联合，采用先进的开发设计技术而成。JA11系列喷气织机的设计出发点是给客户提供性能优良价格适中的织机。该织机立足于满足客户以低成本织出高质量织物的要求，符合客户投资收益。



JA11-190-360 AIR JET LOOM

JA11 series air jet loom is designed by Qingdao Red Flag Textile Machinery Co., Ltd cooperating with Qingdao University through combining advantages of every kind of textile loom at home and abroad and advanced technology.

The jumping-off place of JA11 is that it can offer clients loom with excellent quality and price. Depending on satisfying requirement of low cost and high quality product, this loom can make clients get most benefit, which is the creditable pledge for clients in serious marketing competition.



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JA11-460特宽幅喷气织机

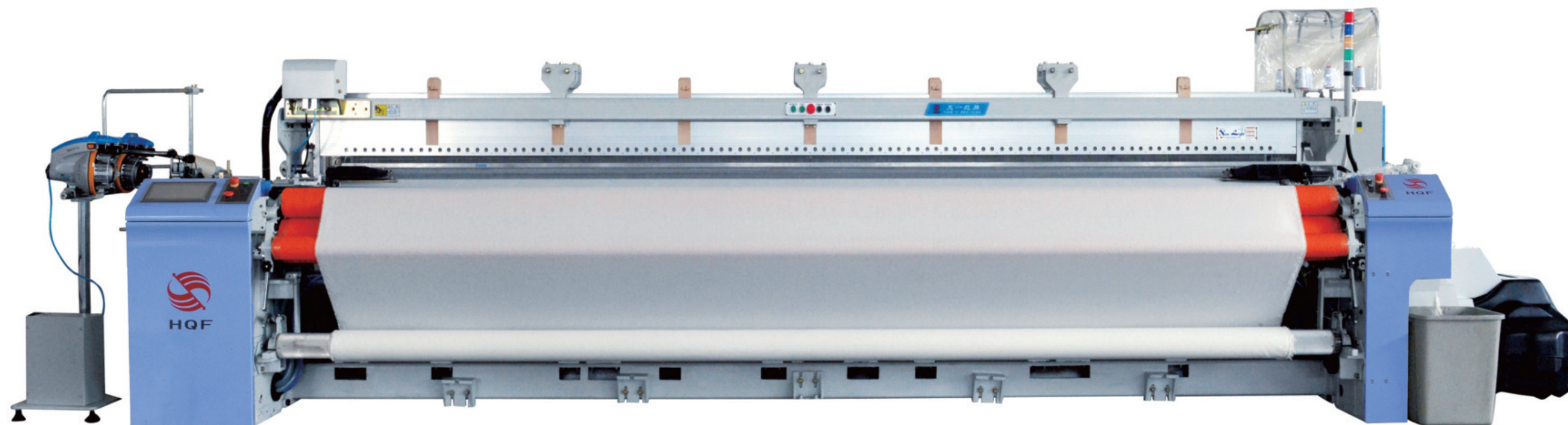
JA11-460 SUPER WIDTH AIR JET LOOM

JA11-460喷气织机

天一红旗一直在对喷气织机宽幅织造方面进行探索与研究，460织机采用左右双织轴，变气压、变间距的副喷接力引纬方式，力求在较高入纬率下实现超宽幅高效引纬。

Redflag Super width air jet loom, certificating our exploration and research in super width about air jet looms, width-460 air jet looms .

In order to super width loom achieve high efficiency weft insertion under high weft insertion rate, using twin beam, sub-nozzle relay weft insertion with variable air pressure and sub-nozzle distance.



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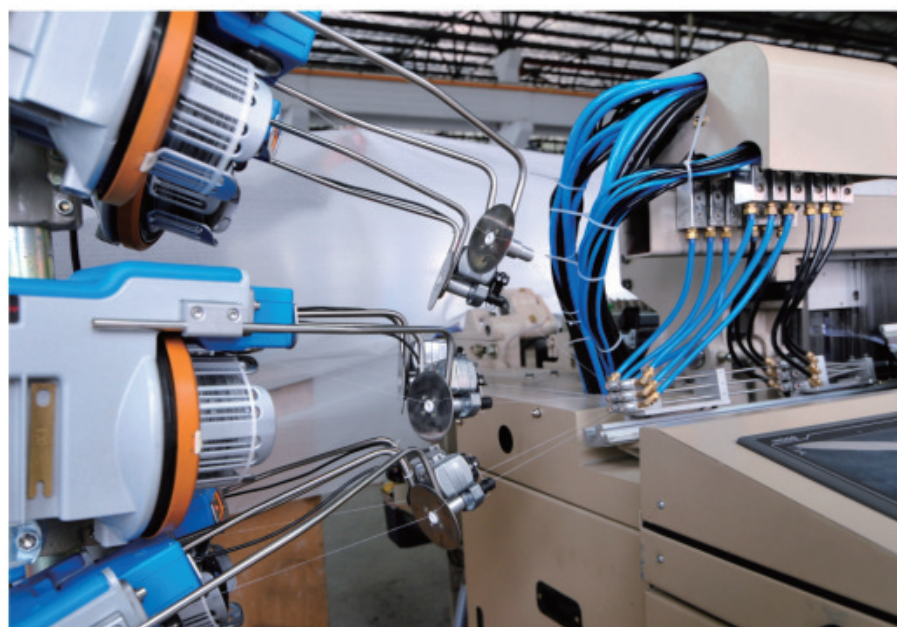
主要优势 The important Characteristics

双摆动主喷装置

双摆动主喷装置，采用摆动式串联助推主喷嘴，使喷嘴喷出的气流对纬纱的作用更为轻柔，同时进一步提高了机器性能。

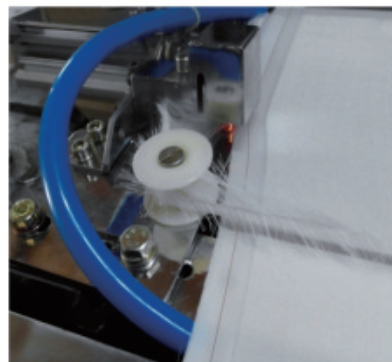
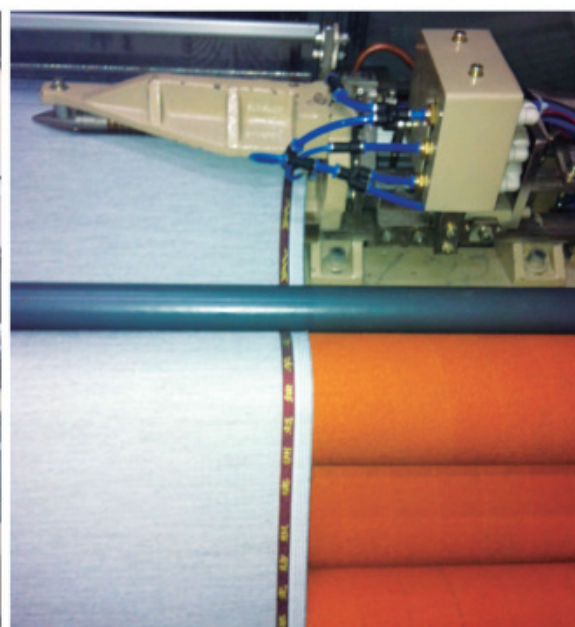
Double swing the main jet device

Double swing the main jet device used in tandem swing boost the main nozzle to nozzle flow is more gentle on the role of weft, and further improve the machine performance.



边字提花光边装置

Selvage jacquard with tuck in



热熔边装置

Hot melt selvage device

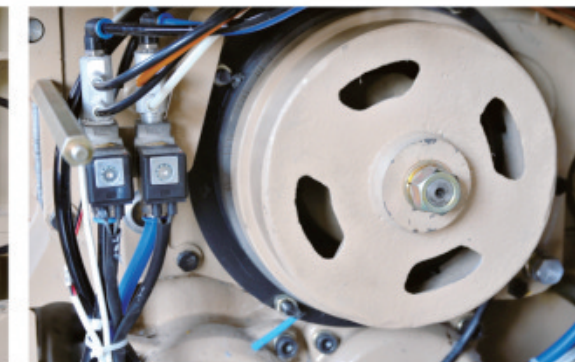


自动加油系统

采用了新式的智能自动加油系统，在保证高质量油品的情况下，降低了保全工的劳动强度。

Automatic lubrication system

Using the intelligent automatic lubrication system, ensuring high-quality oil in the case, reducing the labor intensity of preservation work.



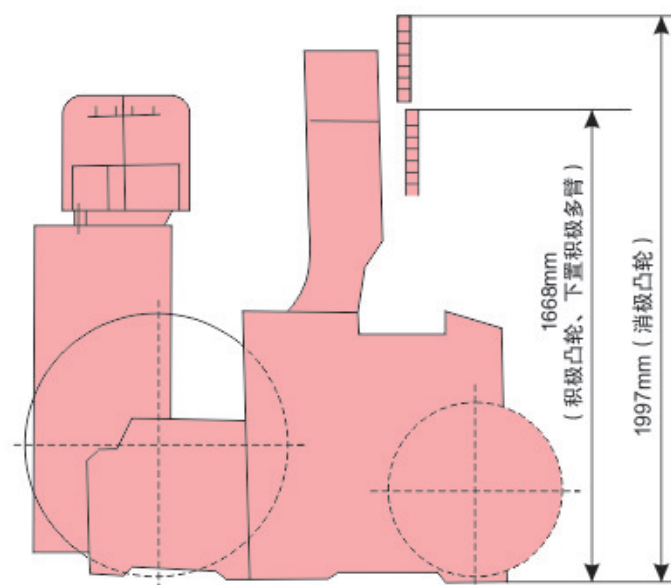
双制动

采用了新式的双刹车盘制动，充分保证了织机高速运转中制动的稳定性。

Dual brake

Using the dual-disc brake, fully guaranteed the braking loom high speed stability.

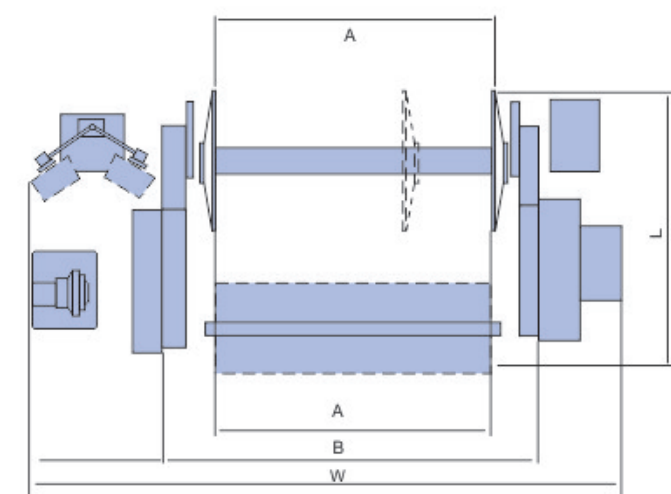
外形尺寸 Appearance and measurements



边盘直径 Flange dia.	Φ 800
L	1860

1) L800为Φ边盘的概略尺寸。至于其它规格的详细尺寸，请直接向我司询问。
Figure in the "L" section is the dimension for the flange diameter of 800mm. For details of other specifications please contact us.

2) 边盘直径为Φ914或Φ1000时，根据经轴位置需要将地面加高或在地面挖槽。
When the flange diameter is 800mm or 1000mm, liners or an excavated floor is required according to the beam mounting position.



公称箱幅 Reed space cm(尺寸)	190(75)	210(83)	230(91)	250(98)	280(110)	340(134)	360(142)
消极凸轮开口 Negative cam	3990	4190	4390	/	/	/	/
积极凸轮 Positive cam (STAU BL 1:1661)	4330	4530	4730	4930	5230	5730	5930
下置式积极多臂 Floor-mounted positive dobby(STAU BL 1:2658)	4420	4620	4820	5020	5320	5920	6120
A	1900	2100	2300	2500	2800	3400	3600
B	2540	2740	2940	3140	3440	4040	4240

W为双喷时的概略尺寸，至于其他规格的详细尺寸，请直接向我司询问。
Figures in the "w" section are the dimensions for a 2-color loom with out the WBS, for other specifications please contact us.

技 术 规 格

	项 目	规 格	选择件
箱幅	公称箱幅	190.210.230.250.280.340.360cm	
	有效穿箱幅	公称箱幅减0~60cm(190~250cm) 公称箱幅减0~80cm(280cm以上)	
织造类型		短纤维：100S/1~5.8S/1	
纬纱选择		双喷自由选择、4喷、6喷	
动力		超启动马达	
		按钮式启动、停车、正反转缓慢运动	
		通过电磁制动器制动、定位停车	
引纬		主喷嘴、副喷嘴并用式	拉伸喷嘴
		异型钢箱	
		辅助主喷嘴	
开口		积极式凸轮开口：棕框最多10页	
		多臂开口：棕框最多20页	
送经	边盘直径	电控送经（EL-O）带自动反转装置	
		积极松经	
		800mm	914、1000mm
卷取		MTU：机械式卷取	ETU：电子取卷
	最大卷布直径	600cm	
	纬密范围	MTU：6.6~80.5根/cm	
		(16.7~204.4根英寸)	
	织布长度计数	在触摸屏上显示布长、带定尺停车功能	
	边撑器	上置式	
打纬		曲柄式多箱座脚打纬机构 4连杆打纬(箱幅190~280cm以下) 6连杆打纬（箱幅280~360cm） 配置摇轴中间支撑架	
测长储纬		纬纱滚筒回转式储纬器	
纬纱架		落地式4支筒纱（2喷），落地式8支筒纱（4喷）	
绞边		行星齿轮方式（中间纱罗绞边）	
纱端处理		采用捕纱方式握持住单侧纱端	
剪纬		机械式剪刀	
加油		主要传动部分为油浴方式、集中加油（黄油手动）	电动集中加油
停车装置	断纬	光电反射式探纬器，带纬纱到达角度显示功能	
	断经	电器接触式，六排停经片	
	其他	绞边纱、纱端处理纱断头停车	
	停车原因显示	触摸屏上显示信息 多功能4色灯停车显示	
中间剪刀		机械式（织造双幅时用）	电子式

Technical Specifications

	Item	Specification	Optional
Reed Space	Nominal	190.210.230.250.280.340.360cm	
	Useful Reed Width	Same as nominal width maximum reduction 60cm(190~250cm) Same as nominal width maximum reduction 80cm(280cm)	
Working range		Short yam：100S/1~5.8S/1	
Weft selection		2-color mixing, 2-color at-will、4colors、6colors	
Drive		Rush start motor	
		Programmed and direct drive &stop mechanism by electromagnet brake	
Weft Insertion		Main and sub-nozzles combined system	Stretch nozzle
		Profile reed	
		Auxiliary main nozzle	
Shedding		Positive cam shedding: shaft number up to 10	
		Dobby shedding: shaft number up to 16	
let-off		Electronic let-off(el-o)with kickback function	
		Positive easing	
	Flange Dia	800mm	914、1000mm
Take-up		MTU mechanical take-up	ETU electronic take-up
	Max take-up Dia	600cm	
	Pick density	MTU: 6.6~80.5picks/cm	
		(16.7~204.4picks/inch)	
	Length count	board display, take the function of fixed measure stop	
	Temple	floor-mounted	
Beating		Crank type beating, multiple sley sword beating 4 links (Reed space up to 280cm) 6 links(Reed space 280cm) Intermediate rocking supporter	
Measuring/storing		FDP Free Drum Pooling	
Filling Supply Stand		Floor-mounted for 4 packages (2colors),Floor-mounted for8 packages(4 colors)	
Selvage		Planetary gear motion(lenoselvage of middle cord yam)	
Waste Filling Removal		Catch cord type	
Cutter		Mechanical cutter	
Lubrication		Oil bath system for main drive parts,centralized lubrication(manual grease)	
Auto-stop Motion	Weft Yam	Reflective weft feeler	
	Warp Yam	Electric feeling system	
	others	Stop motion for selvage and catch cord yam	
	Stop Cause Indication	Message on board, 4-color lamp for indicating cause	
Middle Scissors		Mechanical type (Tisser double width)	Electronic formula



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