

## BRANCHES

- Shandong Tongda Textile machinery Co.,Ltd
- Qingdao Tongda Textile Machinery Co.,Ltd
- Qingdao Weaving Machine Co.,Ltd
- Shandong Tongda Nickel Screen Co.,Ltd
- Shandong Tongda Synthetic Co.,Ltd
- Shandong Tongda Textile Machinery (group) Co.,Ltd

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# SINCE **TONGDA** 1952

## TDA-910 Air Jet Loom



Quality Makes the difference

**TONGDA**

AIR JET LOOM

为顺应市场发展潮流，满足客户对织机产品高品质、多样化的要求，同大团队精心打造并推出更高速、更稳定、更节能的TDA910 ALL-POWERFUL系列喷气织机。

To go with the trend of market development, and to meet customers' requirements for high-quality and diversification of air-jet looms, Tongda team elaborately forged and launched higher-speed, more stable and more energy-saving TDA910 all-powerful series air-jet looms based on the idea "to break the rules, you must first master them".

该机型高度机电一体化，在高速化、低振动、省能源、省人力等方面表现得更加卓越，适用于织造从一般面料到牛仔布、毛料以及玻璃纤维、轮胎基布、气囊布等各种工业材料，作为新一代的织造设备将拥有巨大的发展潜力。

The machine is of high electromechanization, more excellent in high-speed, low vibration, energy-saving and less manpower, applicable to weave products from common garment fabrics to various industrial fabrics ranging from denim, woollens, glass fibers, tire fabrics, airbag fabrics, etc. As the new generation of weaving equipment, it has great development potentiality.



### 更智能 MORE INTELLIGENT

采用高可靠性的触摸屏和新型通信技术，以及机电一体化设计的引入使整机实现了高度智能化。

High reliability touch screen, new type communication technology and high electromechanical integration design make machine realize high intelligence.

### 更高效 MORE EFFICIENT

新型的整体式墙板、具有良好平衡性能的发纬机构以及出色的引纬系统相辅相成，可适应于不同种类的纱支，同时实现高速度、低振动、高品质的织造。

New type integrated side frames, the beating-up mechanism with good balance performance, and the excellent weft insertion system complement each other, applicable to various yarn counts, and at the same time help realize the weaving of high-speed, low vibration and high quality.

### 更便捷 MORE CONVENIENT

设计过程中充分考虑工人操作的便捷性，外置式松经装置、自动集中供油系统、友好的人机界面等使其更人性化，体现了织机使用过程中的优越性。

Full consideration of the convenience for the operation of workers in the course of design, external loose warp device, automatic central oil supply system, and friendly man-machine interface make machine more humanization, and embody the superiority in the course of application.

### 更节能 MORE ENERGY-SAVING

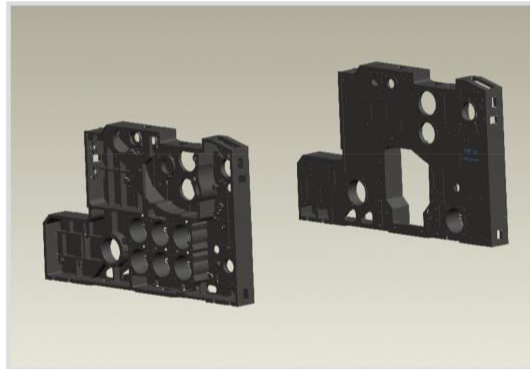
配置新型节能引纬系统，缩短空气路径，提高了喷射灵敏度，降低了空气消耗。

New type energy-saving weft insertion system, shorten air path, increase jet sensitivity and reduce air consumption.



**特点 FEATURES**

**特点 FEATURES**



**更稳定的新型机架**

创新设计的整体式墙板，配合高刚性的撑档和中间支撑，构成超高强度机架，使织机在高速运转时保持低振动。整体式墙板已经申请国家专利（专利号：2016201698706）。

**MORE STABLE NEW TYPE FRAMEWORK**

Integrated side frames innovatively designed, with high rigidity cross rails and mid-supporters to form ultra-high strength frameworks, thus make looms keep low vibrations while its high-speed running. Has applied for national patent for the integral type side frames (Patent No.: 2016201698706).

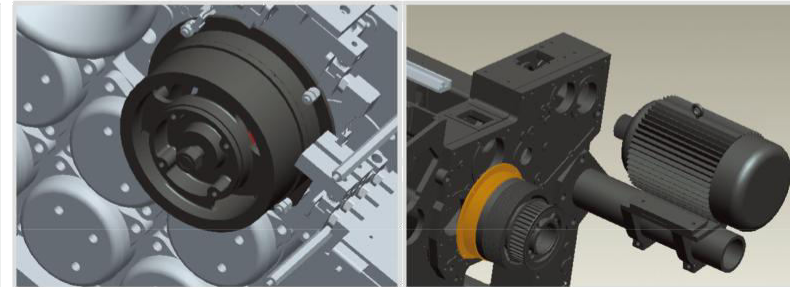


**更有效的刹车制动装置**

采用双刹车盘电磁制动装置，实现了织机的精确定位，从而有效防止停车档的产生，有利于提高织物的质量（该装置正在申请国家专利）。

**MORE EFFICIENT BRAKING STABILITY**

Adopt double braking disc electromagnetic device to realize loom's precision positioning, thus to efficiently prevent stop marks and improve fabric quality. Now applying for national patent for this device.

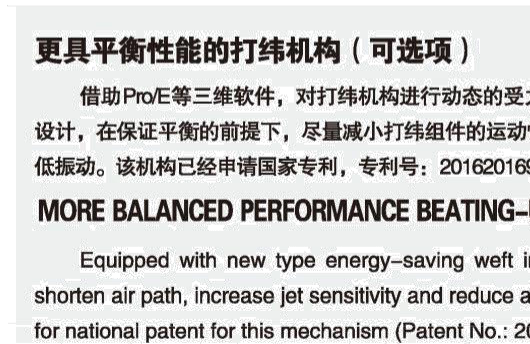
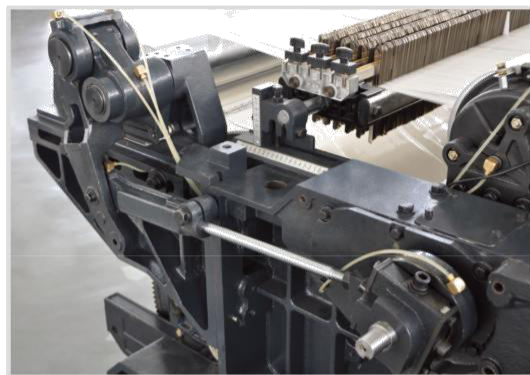


**更加便捷的外置式可调松经机构**

配置外置式松经机构，使操作更加简单、方便；带有刻度标识的偏心装置可使松经量在0-6mm之间任意调整，满足更多织物的需要。该机构已经申请国家专利，专利号：2016201701215。

**ADJUSTABLE EXTERNAL LET-OFF MECHANISM**

Equipped with external loose warp mechanism, which make operation more simple and convenient; eccentric device with graduation marks can make loose warp amount adjusted freely among 0-6mm to meet the requirements of more fabrics. Has applied for national patent for this mechanism (Patent No.: 2016201701215).

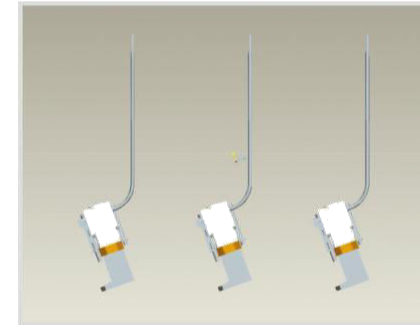
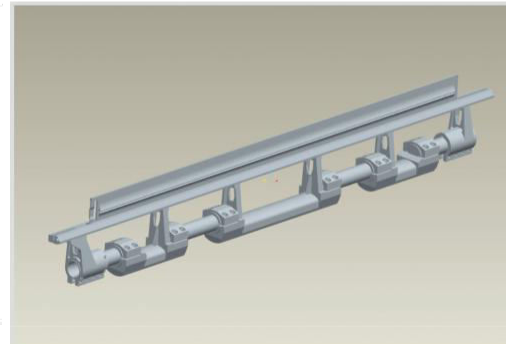


**更具平衡性能的打纬机构（可选项）**

借助Pro/E等三维软件，对打纬机构进行动态的受力和惯性分析，采取偏心设计，在保证平衡的前提下，尽量减小打纬组件的运动惯量，使织机高速运转时保持低振动。该机构已经申请国家专利，专利号：2016201698829。

**MORE BALANCED PERFORMANCE BEATING-UP MECHANISM(Option)**

Equipped with new type energy-saving weft insertion system, which can shorten air path, increase jet sensitivity and reduce air consumption. Has applied for national patent for this mechanism (Patent No.: 2016201698829).



**更节能的新型引纬系统（可选项）**

用户可以选择配置副喷电磁阀控制副喷嘴采用一拖一的方式，可以减少副喷嘴的喷射时间，从而能进一步节省耗气量。

**MORE ENERGY-SAVING NEW WEFT INSERTION SYSTEM(Option)**

The user can select the sub nozzle electromagnetic valve to control the sub nozzle by adopting one to one form, which can help reduce the injection time of sub nozzle, thus to further save air consumption.

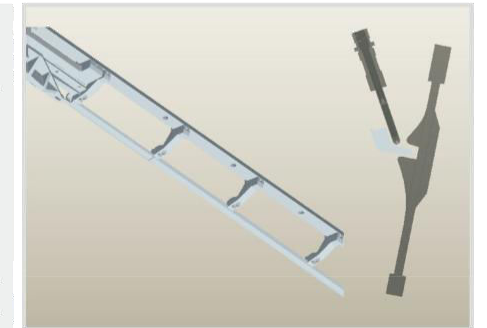


**可调式托布板（可选项）**

采用可调式托布板可以根据织物箱幅调整托布板的长度，不用截断托布板，可以大大缩短改机时间；该托布板可以延伸到箱槽内，距织口的距离与边撑相比差别不大，同样可以起到支撑作用，适用于绝大多数织物的织造。此机构作为用户的选择配置（该装置正在申请国家专利）。

**ADJUSTABLE SUPPORT PLATE(Option)**

Adopt adjustable support plate, whose length can be adjusted according to the fabric reed width, and the support plate needn't be cut off, thus to greatly shorten the time of change; this support plate can be extended to the reed groove, with its distance to the cloth fell no more difference comparing with the bracing, and also can play a supporting role, suitable for the vast majority of fabric weaving. This mechanism is the user's optional configuration (now applying for national patent).

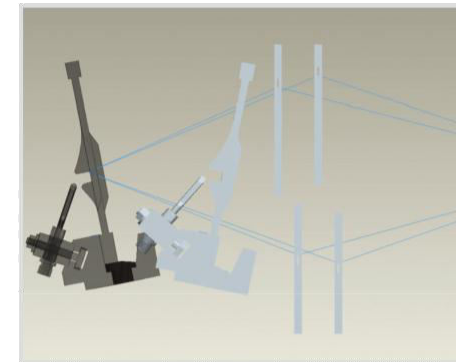


**清晰的开口**

在保证开口量的同时，综框位置尽可能靠近织口，可以使开口更加清晰。为提高织机高速运转时的稳定性，优化设计经位置线，缩短打纬动程。通过以上优化设计，可以更加节省电力消耗。

**CLEAR SHEDDING**

While ensuring the shedding amount, make the position of heald frames as close to the cloth fell as possible, so as to have the shedding clearer. In order to improve the stability of the loom when its high-speed operation, we optimize the design of warp position line, and shorten the beating-up stroke. Through the above optimization design, the power consumption can be saved more.

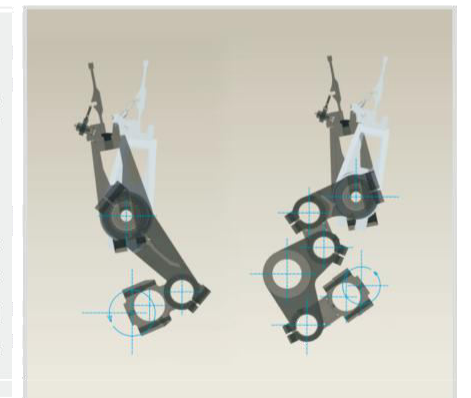


**稳定的打纬机构**

利用计算机辅助优化设计的六连杆打纬机构，能增加箱座在后方的相对静止时间，从而实现了高速时的稳定引纬，适合用在高速或阔幅织机上。优化设计的四连杆打纬机构，打纬动程短、振动小，在高速运转时，能进行强有力的打纬，适合用在高速窄幅机上。

**STABLE BEATING-UP MECHANISM**

The 6-link rod beating-up mechanism based on computer aided optimum design can increase the dwell time of sley at the back to realize stable weft insertion while high-speed operation, suitable to high-speed or wide loom. Optimally-designed 4-link rod beating-up mechanism is of short stroke and small vibration, and can effect strong beating-up while high-speed operation, suitable to high-speed narrow loom.





**特点 FEATURES**

**特点 FEATURES**

**电子送经机构**

采用伺服电机驱动技术，能够准确测量并保持经纱张力，减少经纱的张力波动。在织机启动时可自动调整张力，以消除停车过程中的张力变化，防止停车档的产生，保证织物布面质量。

**ELECTRONIC LET-OFF MECHANISM**

Adopt servo motor driving technology to accurately measure and keep warp tension, and reduce the fluctuation of warp tension; adjust the tension automatically while loom starting to eliminate the tension change in the course of stopping to avoid stop marks and ensure fabric quality.



**电子卷取装置**

采用伺服电机，通过计算机的控制，能保证卷取和织机完全同步，控制织物的纬密。织物纬密可在触摸屏上任意设定，不需要更换齿轮。另外，通过与电子送经的联动操作，可使调整更加容易进行。

**ELECTRONIC TAKE-UP DEVICE**

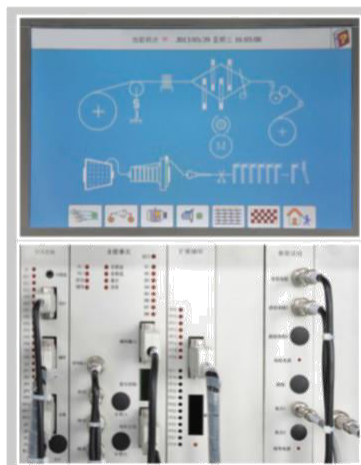
Adopt servo motor to ensure complete synchronization of the take-up and looms, control the pick density of fabric through computer control. the pick density of fabric can be set freely on the touch screen instead of changing gears. additionally, through linkage operation with electronic let-off, the adjustment can be effected more easily.

**自动集中供油系统 (可选项)**

自动集中供油的润滑系统可自行设置润滑油泵运行时间与停止时间，并配有报警装置以确保润滑系统的正常运行，该系统降低了劳动强度，可有效提高零部件的使用寿命。

**AUTOMATIC CENTRAL OIL SUPPLY(Option)**

The automatic central oil supply lubricating system can set the running time and stopping time of oil pump automatically, and it's equipped with alarm device to ensure the normal running of lubricating system. This system reduced labor intensity and can efficiently increase the service life of spare parts.



**新型电控系统**

配大屏幕彩色液晶触摸屏，人性化界面，可将织机运转状态、故障原因分析、织造工艺参数等信息显示在屏上，操作方便；配有USB通讯接口，可将各种设定参数输入到其它织机中。织造导航系统随时对织机工作状态进行监控，针对织机条件和织物工艺，可设定较佳工艺参数，进一步提高了织机的防停车档功能，提高了织物质量。

**NEW TYPE ELECTRICAL CONTROL SYSTEM**

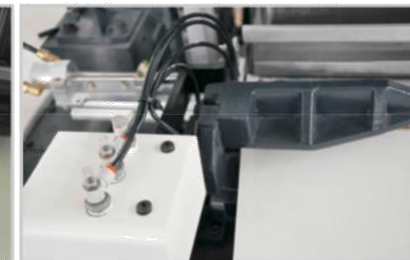
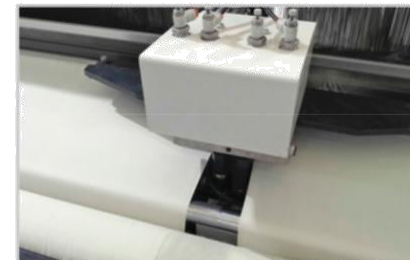
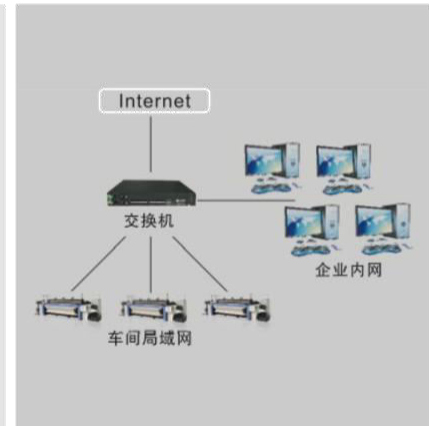
Large-screen color LCD touch screen and human interface are fixed to display some information such as running status, fault analysis, technological parameters, etc. on the screen, convenient for operation; the USB communication interface is fixed to input various setting parameters into other looms. weaving guidance system can monitor the working status of looms at any time and be used to set the optimum technological parameters according to loom conditions and fabric technology, further improving the stop mark preventing function of looms and increasing the quality of fabrics.

**网络化工厂和远程控制技术的应用**

将织机和工厂内部以太网联接，实现织机间双向通讯，方便工艺参数的传递。同时也能实现织机与计算机之间的通讯，方便数据采集，甚至能通过互联网访问织机终端，实现远程控制与诊断，为实现数字化、网络化工厂提供了基础。

**APPLICATION OF NETWORK FACTORY AND THE REMOTE CONTROL TECHNOLOGY**

Looms and the factory interior are connected by Ethernet to realize two-way communication between looms for convenient to transmit technological parameters. At the same time, the communication between looms and computers can be realized for convenient to collect the data and visit the looms through Internet to achieve remote control and diagnosis, which will be base for digitalized and network factory.



**气动折边装置 (可选项)**

电子控制的气动折入边装置，直接将纬纱纱尾织入布边，实现织物光边织造，由于采用电磁控制气流来实现布边纬纱头的折入，因此可以实现高速织造。不仅可以配置单幅织物需要的左右折入边装置，也可以配置中间折入边装置。

**PNEUMATIC TUCK-IN SELVAGE DEVICE(Option)**

Electronic & pneumatic tucked-in device, which can directly tuck weft ends into selvages to achieve clean ones. for electromagnet air flow is adopted to realize weft end tucked-in, high-speed weaving can be achieved. the tucked-in device is fixed not only for left and right edge of single width fabrics, but also for double width or multi width clean selvage fabrics.

**双经轴 (可选项)**

为了满足某些织布厂浆纱和整经的需要，开发出了左右双经轴机构，实现了宽幅及双开幅织物的织造。左右绞边和左右剪刀等传动机构均可根据箱幅的不同进行左右对称调整，双侧传动均采用电子送经控制，因此可以保证左右经轴上的经纱张力均匀、一致，提高织物品质。



**DOUBLE LET-OFF MOTION(Option)**

To meet the requirements of sizing and warping of some weaving factories, we developed left & right double beam mechanism for weaving width fabrics and double open width fabrics. the driving mechanism for left & right selvage and left & right cutter can be adjusted symmetrically according to different reed space, and the driving devices on both sides are of electronic let-off control, thus the warp tension on left and right beams can be guaranteed even and consistent to improve fabric quality.

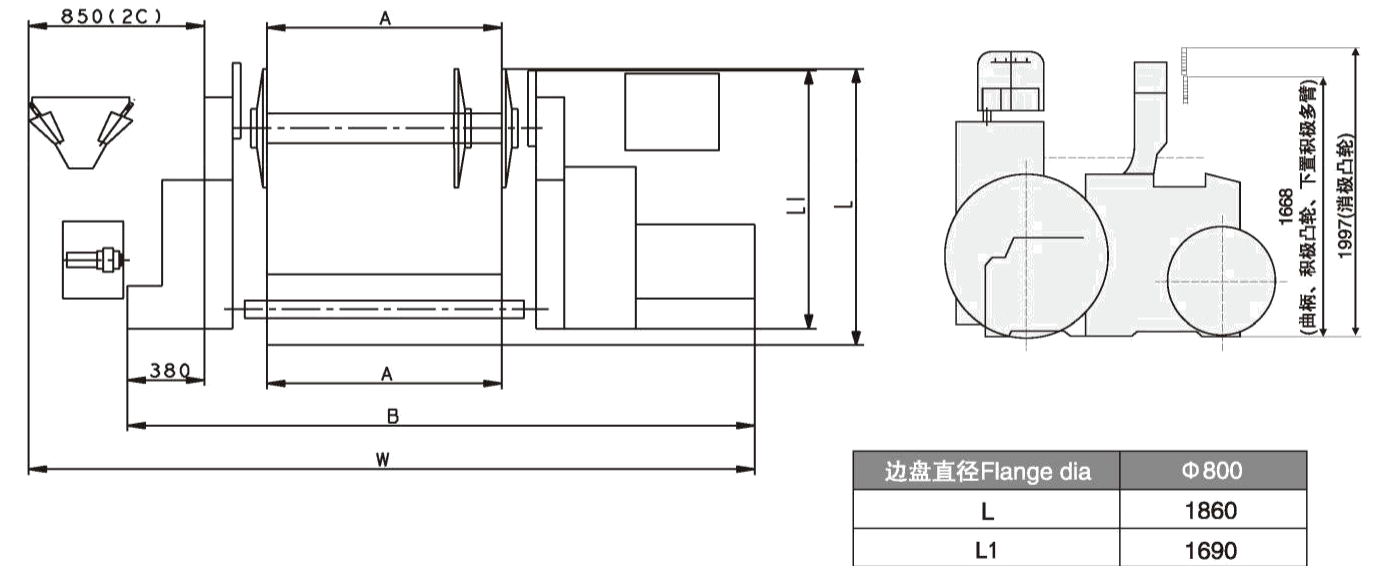


**技术参数 TECHNICAL PARAMETERS**

**外形尺寸图 OUTER SIZE DIAGRAM**

**TDA910型高速喷气织机 TDA910 ALL-POWERFUL AIR-JET LOOM**

项目 Item	规格 Specifications	选配件 Optional parts
箱幅 Reed space	公称箱幅Nominal reed space: 190、210、230、250、280、340、360cm 有效箱幅Effective reed space: 公称箱幅减0~60cm(190~250cm) Nominal reed space minus 0~60cm(190~250cm),公称箱幅减0~80cm(280cm以上)Nominal reed space minus 0~80cm (above 280cm)	
织造范围 Yarn range	短纤Spun: Ne100~Ne5 长丝Filament: 50D~900D	
纬纱选择 Weft selection	双喷、四喷、六喷自由选择 2-Nozzle, 4-Nozzle, 6-Nozzle for free choice	
动力 Drive	通过电磁制动器直接控制、定位停车 Direct control and positioning stop through electromagnetic brake 按钮开关双手操作、正反缓慢运动 Push-button bimanual operation and forward-reverse inching motion 超启动马达 3.0KW(凸轮开口) 3.7KW(多臂开口) 6.5KW(提花开口) Ultra start motor 3.0KW (Cam shedding) 3.7KW (Dobby shedding) 6.5KW (Jacquard shedding)	
引纬 Weft insertion	主喷嘴、副喷嘴并用式 Main nozzle and sub-nozzle combined type 使用异型钢筘 Adopt profile reed 辅助主喷嘴 Auxiliary main nozzle	延伸喷嘴 Stretch nozzle
开口 Shedding	积极式凸轮开口: 最多8页综框 Positive cam shedding: Heald frames max.8 pcs 多臂开口: 最多16页综框 Dobby shedding: heald frame max.16pcs 提花开口 Jacquard shedding	
送经 Let-off	积极式连续送经 Positive continuous let-off 单经轴(280cm以下) Single warp beam (below 280cm) 积极式松经, 采用双后梁 Positive easing, double back girder 边盘直径Φ800 Flange dia.: Φ800	双织轴 Twin-beam Φ914、Φ1000
卷取 Take-up	电子卷取 Electronic take-up 纬密范围: 25~205根/英寸(机械卷取), 25~300根/英寸(电子卷取) Pick density range: 25~205pcs/inch(mechanical take-up), 25~300pcs/inch (electronic take-up). 布长计数: 显示织造报表, 具有定长停车功能 Length counter: display of weaving reports, with fixed-length stop function. 最大卷布直径: φ600mm(凸轮、多臂、提花开口), φ520mm(曲柄开口) Max. Take-up dia.: φ600mm(cam, dobbie, jacquard shedding); φ520mm (crank shedding) 边撑: 上置式 Temple: top-mounted type.	机械卷取 Mechanical winding
打纬 Beating-up	曲柄式多笄座脚打纬机构 Crank type multiple sley sword beating-up mechanism 四连杆打纬(190~280cm), 六连杆打纬(280cm以上) 4-Link rod beating-up(190~280cm), 6-Link rod beating-up (above 280cm)	
测长储纬 Measuring/storing	振动式储纬器 Vibrating type pick storer	
纬纱架 Weft stand	落地式4只筒纱(2喷), 落地式8只筒纱(4喷) Floor-mounted 4 cones (2-nozzle); floor-mounted 8 cones (4-nozzle)	
绞边 Selvedge	行星齿轮式绞边装置 Planetary gear motion	
纱端处理 Waste filling removal	采用捕纱方式握持住单侧纱端、弃边卷取 Catch cord type	
剪纬 Cutter	机械式剪刀 Mechanical type	
润滑 Lubrication	主传动部分为油浴式, 手动集中供油 Oil bath system for the main driving parts, centralized lubrication by manual	自动集中供油 Automatic centralized lubrication
停车装置 Auto-stop motion	断纬: 光电式探纬器、双探头 Weft yarn: photoelectric weft feeler, double feelers 断经: 电气接触式六排停经片 Warp yarn: electric contact-type 6-row droppers 其它: 绞边纱、弃边纱断头自停 Others: stop motion for selvedge and catch cord yarn 停车原因分析: 触摸屏上显示信息, 多功能4色灯停车显示 Stop cause indication: information display on touch screen, multiple function 4-color lamp display	
自动化 Automation	人工智能触摸屏: 具有参数设定、自动控制、自动监控、自我诊断功能 Artificial intelligent touch screen: with functions of parameter setting, Autocontrol, automatic monitoring, self-diagnosis. 找断纬装置: 自动找梭口 Pick finding device: automatic shed finding 通过变频器作慢点动(正反转) Slow inching by inverter (forward, reverse) USB数据接口 USB data interface	



备注: 1) L、L1为Φ800边盘的概略尺寸, 至于其他规格的详细尺寸, 请直接向我公司咨询。

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。

Note: 1) L、L1 for the approximate dimension for Φ800 flange, as for the detailed dimensions of other specifications, please consult directly to our company.

2) When the flange dia. is Φ914 or Φ1000, the floor needs to be heightened or engrooved according to the position of beam.

公称箱幅 Nominal reed pace (英寸) (inch)		190 (75)	210 (83)	230 (91)	250 (98)	260 (102)	280 (110)	330 (130)	360 (142)
A		1900	2100	2300	2500	2600	2800	3300	3600
曲柄开口 Crank shedding	W	4010	4210	4410	4610	4710	4910	5410	5710
	B	3540	3740	3940	4140	4240	4440	4940	5240
消极式凸轮开口 Negative cam shedding	W	4060	4260	4460	/	/	/	/	/
	B	3590	3790	3990	/	/	/	/	/
积极式凸轮开口 Positive cam shedding (SATUBLI:1351)	W	4300	4500	4700	4900	5000	5200	5700	6000
	B	3830	4030	4230	4430	4530	4730	5230	5530
下置式积极多臂 Down type positive dobbie (SATUBLI:2658)	W	4390	4590	4790	4990	5090	5290	5790	6090
	B	3920	4120	4320	4520	4620	4820	5320	5620

备注: W为双喷时的概略尺寸, 至于其他规格的详细尺寸, 请直接向我公司咨询。

Note: W is the approximate dimension for double-nozzle, as for the detailed dimensions of other specifications, please consult directly to our company.

**地基要求:**

- 1、地面混凝土厚度要求300mm以上, 混凝土强度要求21N/mm<sup>2</sup> (210kgf/cm<sup>2</sup>);
- 2、墙板安装面平面度0.5mm, 织机安装地面平面度2mm以内。

The foundation requirements:

- 1、The thickness of the ground concrete is required to be more than 300mm, and the strength of concrete is required to be 21N/mm<sup>2</sup> (210kgf/cm<sup>2</sup>);
- 2、The planeness for the mounting surface of side frames is 0.5mm, and the planeness for the assembling floor of looms is required within 2mm.

