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**JIANYE GROUP CO.,LTD.**

- Normal Temp. and Pressure Dye Jigger
- Industrial Washing Machinery
- Garment Process Equipment
- Commercial Laundry

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## Intelligent Computer Dual Frequency Dye Jigger 电脑双变频卷染机



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# JR-140

## JR-140 Intelligent Computer Dual Frequency Dye Jigger 全不锈钢电脑双变频卷染机

Used for flat pieces of silk, kam cotton, cotton, artificial silk fabric strong activity, curing, vat dyes and desizing, scouring, bleaching, soaping, washing and other processing, it can also be used to correct chromatic aberration caused by the continuous dyeing production line.

The machine has large capacity, can be finished the bulk fabric in one time. Processing effect is uniform, and has a good reproducibility. Because of this machine adopts ac double variable frequency drive, pneumatic, parking, working and all kinds of auxiliary operation are stable and reliable operation. The speed can be on a scale of 0-150 m/min stepless adjustment, after the speed setting, it can keep the tension constant in the whole operation process. Fabric tension adjusting range of 0-250kg, small tension is especially suitable for thin and delicate fabrics such as silk, kam cotton.

Using SIEMENS PLC controller, with high degree of automation. It has automatic control and display of fabric speed and tension, automatic meter, automatic transfer, the temperature of the water and level automatic control, fault alarm etc more than 20 features. It has implemented process monitoring which makes operation management convenient. The machine also has automatic swing function when parking, avoid dye solution silting-up under the volume of cloth to ensure the quality of products. JR-140 jigger equipped with dyeing liquid circulation system, ensure the dye solution's temperature and concentration is uniform in the dye VAT. The machine has small bath ratio, which greatly reduces the consumption of water and steam, shorten the payback period of investment in the equipment.

The main transmission of JR-140 series dye jigger (Technology of German SEW)

JR-140型电脑卷染机用于平幅丝绸、锦棉、棉布、强力人造丝绸等织物的活性，硫化、还原染料染色以及退浆、煮炼、漂白、皂洗、水洗等加工，它还能用来纠正连续染色生产线上造成的色差。

该机卷染量大，中批量织物都能一次加工完成。加工效果均匀一致，具有良好的工艺重现性。由于本机采用交流双变频传动，故气动、停车、运转以及各类辅助操作平稳可靠。车速可在0-150米/分范围内无级调节，车速设定后，在整个运行过程中保持张力恒定。织物张力调节范围为0-250公斤，小张力尤其适合于丝绸、锦棉等轻薄娇嫩织物。

本机采用德国西门子PLC可编程控制器控制，自动化程度高，它具有织物速度和张力自动控制及显示、自动计道、自动后转、温度水位自动控制、故障报警等20余项功能，实现过程监控，方便了操作管理。该机还有停车时自动摆动功能，避免染液在卷布下部淤积，以确保加工质量。

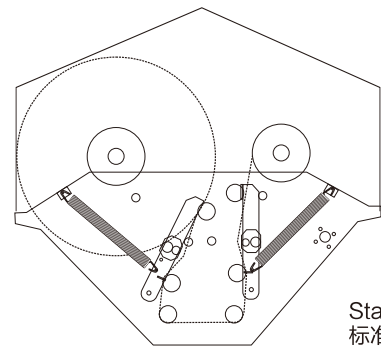
JR-140型卷染机配备有染液循环系统，保证了染槽内染液温度和浓度均匀一致。该机浴比小，从而大大降低了水及蒸汽的耗用量，缩短了设备投资的偿还期。

JR-140型卷染机主传动（德国SEW技术）

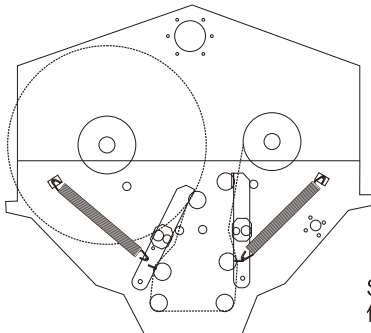
### JR-140 Stainless Steel Computer Dual Frequency AC Dye Jigger

It can be designed for standard, vacuum suction-type, multi padding-type, and small bath ratio type, in order to meet the special needs of special technology and varieties.

可设计为标准型，真空吸水型，浸多轧型，及小浴比型，以便满足特殊工艺及特殊品种需要。



Standard type  
标准型



Small bath ratio type  
低浴比型



## Feature of Technical

- The photoelectric detection when edge automatic trimming, edge neat and beautiful.
- With the same speed sub - filament roller, for preventing wrinkles and curling.
- Variable frequency regulation of Motor speed , it can be power saving, constant torque, low impact, brake fast.
- Import pulse intelligent length measuring device can be set, and modify various parameters.
- Can set length.
- Two sets of independent operating system, the operation is simple, convenient and fast.

## 技术特点

- 光电探测追边自动齐边，布边整齐美观
- 带同速分丝辊，有效防止皱布及卷边
- 电机转速变频调节，省电，恒力矩，低冲击，制动快
- 进口脉冲智能计长仪，可设置及修正多种参数
- 可设置长度
- 二套独立操作系统，操作简单，方便，快捷

## Advantage 优点

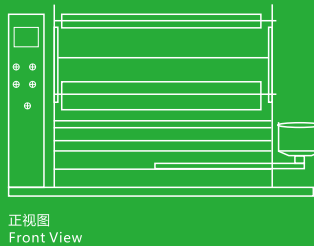
Dual variable frequency closed-loop control,different from the general frequency conversion open-loop control, realizes the constant tension speed online feedback control, which minimizes the fluctuation of velocity and tension.

General variable frequency Dye Jigger often has dropped cloth, brakes fail and other problems recurring because of the internal control current interference. We developed the Dye Jigger stable computer control program which is combined with SIEMENS technology , and it has solved the mentioned problems.

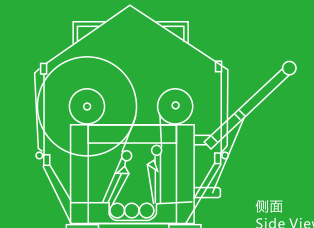
Difference color between the edge and the middle also be being a common problem to general dye jiggers, we learnt from the foreign dye jiggers who have their widen tension bracket of characteristics, combined with the experience we have accumulated over the years, has promoted the micro-disarmament swing frame system, make the machine in the process of playing board outage micro rotation, effectively prevent the dye water deposition in unilateral, thus improving dyeing problems cannot be solved in production, greatly improving the quality of the products.

双变频闭环控制，与一般变频开环控制所不同的是实现了恒张力恒速度在线反馈控制，把速度和张力波动控制到最小。因内部控制电流干扰而产生飞车、刹车失控等现象，是一般变频卷染机经常出现的问题。我厂采用德国西门子公司技术，开发出卷染机稳定电脑控制程序，已经解决飞车和刹车问题。边中差问题也一直是一般卷染机的通病，本厂吸取了国外多种卷染机扩幅摆架的特性，结合我们多年来积累的经验，推出的微解除摆架系统，使本机在打板停机过程中微动旋转，有效防止染料水份淤积单边，从而改善以往染色生产中无法解决的问题，大大提高产品的质量。

## Normal Temp. and Pressure Dye Jigger 常温常压卷染机



正视图  
Front View



侧面  
Side View

### 主要技术参数

辊幅（毫米）Roller Length（mm）	1800	2200	2800	3200	3600
实用幅宽（毫米）Fabric width applicable(mm)	1600	2000	2600	3000	3400
最大卷径（毫米）The max roll diameter（mm）	1400				
织物容量（米）Capacity for fabrics（m）	1459/t，t:织物厚度，mm1459/t，fabric thickness，t:mm				
速度（米/分）Speed（m/min）	20-150				
张力（公斤）Tension（kg）	0-250				
硬水用量（升/小时）Consumption of hard water（L/hour）	2480	3000	3800	4400	5000
软水用量（升/小时）Consumption of soft water（L/hour）	420	500	650	750	800
染槽蒸汽用量（升/小时）Consumption of steam in dye vat（L/hour）	420	500	630	720	780
染槽最大容量（升）The max capacity of dye vat（L）	1380	1700	2100	2150	2600
装机总功率（千瓦）Total power（kw）	17.2	17.2	25	25	25

- ◆ 以上参数以 JR-140 型全不锈钢电脑双变频交流卷染机为基础  
Above parameters are based on JR-140 Stainless Steel Computer Dual Frequency AC Dye Jigger
- ◆ 如需具体标准尺寸及参数可直接向本公司垂询  
For specific standard dimensions and parameters please contact us directly