

## HYGA688 智能型分条整经机

HYGA688 Intellective Sectional Warping and Beaming Machine

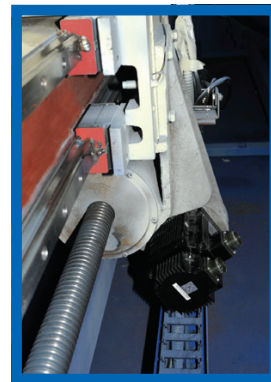
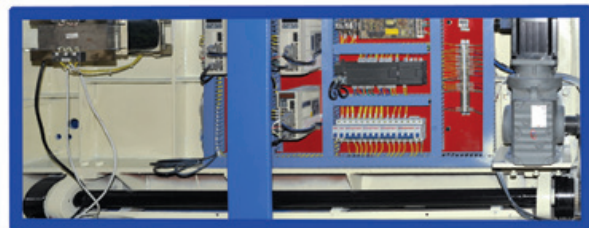


### 适用范围

适用于精毛纺织物、化纤长丝织物、色织物、丝织物、毛巾织物及特种产业用布等品种的分条整经。可作为喷水、喷气、剑杆、片梭等无梭织机的织前准备设备。能替代进口分条整经机。

### Scope of Application

This machine is suitable for sectional warping various kinds of yarns, including worsted yarn, high twisted filaments, yarn for color-woven fabric, for silk fabric, for towelling fabric and fabric in special industry. This machine, which can match water-jet, air-jet, rapier and projectile looms, is the equipment for preparation before weaving.



## HYGA688 智能型倒轴机

HYGA688 Intelligent Beaming Machine

### 主要技术特征

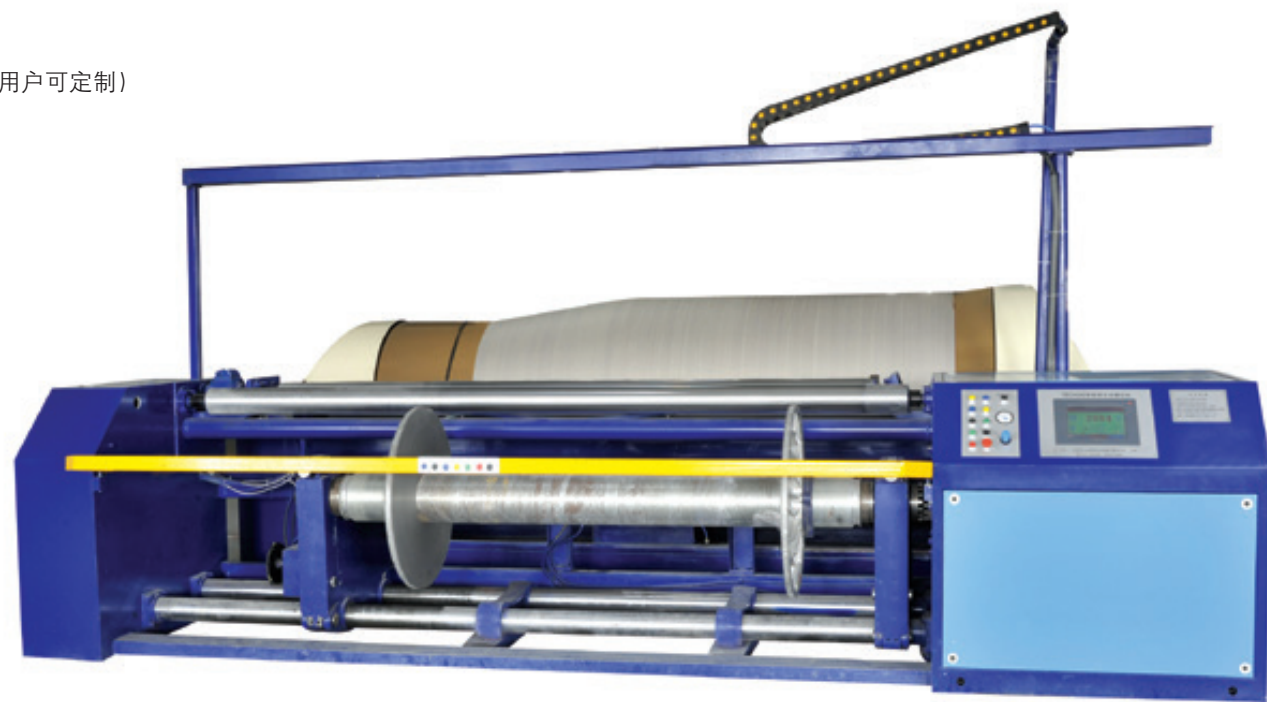
- 1、整经操作台的轴向位移由高精度伺服电机控制，起点定位、条定位一次按键自动完成。
- 2、整经操作台可自动径向位移。它由独立的步进电机控制，使定幅箱与成型纱面保持等距离，其距离可任意设定。
- 3、应用交流变频调速新技术，由计算机控制达到无级调整，保持大滚筒上纱线恒线速卷绕和退绕。
- 4、专用机、电、液、气一体化的油压装置产生油压，推动钳式制动器，完成整经刹车。倒轴张力控制采用外钢带阻尼方式，消除了传统的钳式阻尼带来的噪声和张力不均匀问题，（装有压力显示及压力大小保护控制张力不均的自动控制系统）
- 5、采用计算机及 PLC 等先进技术，并具有计总长、计匹长、计条及断头记忆等功能和满总长自停、满匹长自停、断头自停等功能。
- 6、大屏幕触摸屏的人机界面，显示清晰、信息量大、操作方便。
- 7、主机大滚筒整体在地轨上由伺服电机控制移动，分绞箱架及筒子架等固定。经纱条带在整经过程中始终呈直线状态，片纱张力保持恒定。
- 8、1:6.3 固定锥体钢质高强度大滚筒与高精度伺服电机的整经操作台配合可满足几乎所有品种的整经工艺。
- 9、可选配两种型式的倒轴机整体可移动式倒轴机，一台倒轴机可与多台整经机头配套，可选配上蜡（油）和织轴加压装置。固定式倒轴机，结构简单，操作方便。配有多种形式的筒子架能满足不同品种的工艺要求。锭距、锭数可根据用户需要特殊配置。
- 10、本机选配的张力器有三柱式可调张力器、二柱式微调张力器和单柱式张力器等多种形式。
- 11、本机还配有断经自停装置和静电消除器。

### Technical Features

1. The traverse of warping operation panel is accurately controlled by servo motor. The starting point setting and stripe setting can be achieved automatically once by pressing the button.
2. The forward and back movement of warping operation panel is accurately controlled by a step motor, so that the distance between space reed and yarn on drum is constant and the distance is optional.
3. To keep the yarn on the drum can gain constant speed when winding and unreeling, the new technology, AC frequency converter speed adjustment device, which controlled by computer to realize the stepless monitor, is put into practice.
4. The machine is braked by an electro-mechanical-hydropneumatic device during warping. The beaming tension control adopted external steel strip damping, which eliminates the noise and uneven tension problems occurred in the traditional clamping type damping. The optional automatic power control system can be equipped according to the requirements.
5. By means of microcomputer and PLC, the count of total length, cut length, strip and broken end and memory, stop motion, warp stop motion and broken-end memory function operate reliably.
6. The man-machine interface is a large screen TSS(touching sensor screen), which offers a clear picture, stores much information and operates easily.
7. The movement of the frame on the rail is controlled by servo motor, with the cross reed and bobbin creel fixed. So the stripes keep in linear shape and yarn tension is constant during the process.
8. The joint of the steel drum (cone angle 1:6.3) and the high precision servo motor is almost perfect enough to suit any type of warping.
9. Two types of beaming part are available. The first one, with the whole part movable, can match different types of warping part, waxing oiling device or press roller can be added. The second one, fixed type, is simple structure and easy operation. According to the customer's request, different bobbin creel, spindle number and spindle spales can be made.
10. Single-post type tension device, two-post type tension device and three-post type tension device are available.
11. Warp stop motion and static eliminator is optional.

主要技术参数

- 1、有效幅宽 2300 ~ 5500(mm) (特殊规格按用户可定制)
- 2、织轴盘片直径 ≤ 1000(mm)(基本型)
- 3、整经速度 0 ~ 600(m/min)
- 4、倒轴速度 0 ~ 150(m/min)
- 5、整经、倒轴恒线速精度 ±2%
- 6、制动距离 ≤ 2(m)(速度 300m/min 时)
- 7、大滚筒直径 ≤ 1026(N)
- 8、锥体长度 1310(mm)
- 9、锥角角度 7.125°
- 10、导条走丝速度 0.001 ~ 9.999(mm/r)(无级)
- 11、导条随动精度 0.02%
- 12、定幅箱与滚筒距离 可调
- 13、锥起点定位 自动
- 14、条定位 自动
- 15、条宽设定范围 0.1 ~ 999.9(min)  
(应不大于导纱辊长度)

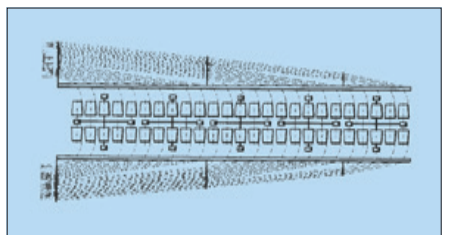
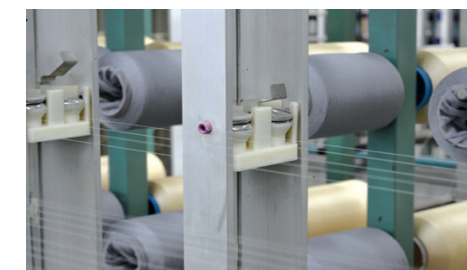


Main Technical Data

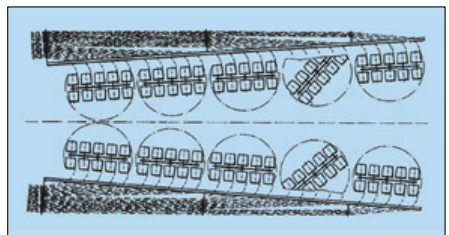
- |                             |   |   |   |
|-----------------------------|---|---|---|
| 1、Work width                | 2300 ~ 5500(mm)<br>Particular specification can be customized according to requirements | 8、Cone Lenth  | 1310(mm)  |
| 2、Beam flange diameter      | ≤ 1000(mm)(Basic form)  | 9、Cone angle  | 7.125°  |
| 3、Warping speed             | 0 ~ 600(m/min)  | 10、Stripe traverse speed                            | 0.001 ~ 9.999(mm/r)(No grade)   |
| 4、Beaming speed             | 0 ~ 150(m/min)  | 11、deviation of stripe traverse                     | 0.02%   |
| 5、Deviation of linear speed | ±2%   | 12、distance between space reed and yarn on the drum | Adjustable  |
| 6、Braking distance          | ≤ 2(m)(With a speed of 300m/min)  | 13、Positioning of cone starting point               | Automatic   |
| 7、Drum diameter             | ≤ 1026(N)   | 14、Stripe location                                  | Automatic   |
|                             |   | 15、Stripe width                                     | 0.1 ~ 999.9(min)<br>(The length should not be longer than the guide roller) |

双盘无立柱积极转动式筒子架

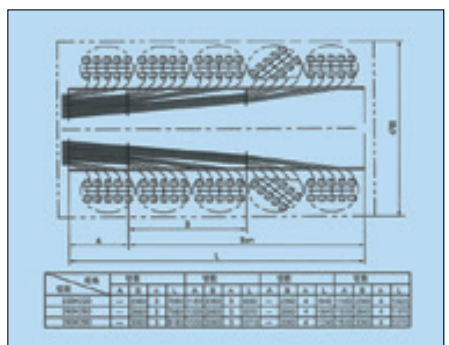
Double disc, no-post, positive turning type creel



固定式纱架 Fixed creel



V型回转式纱架 V-type rotary creel



回转式纱架 Rotary creel



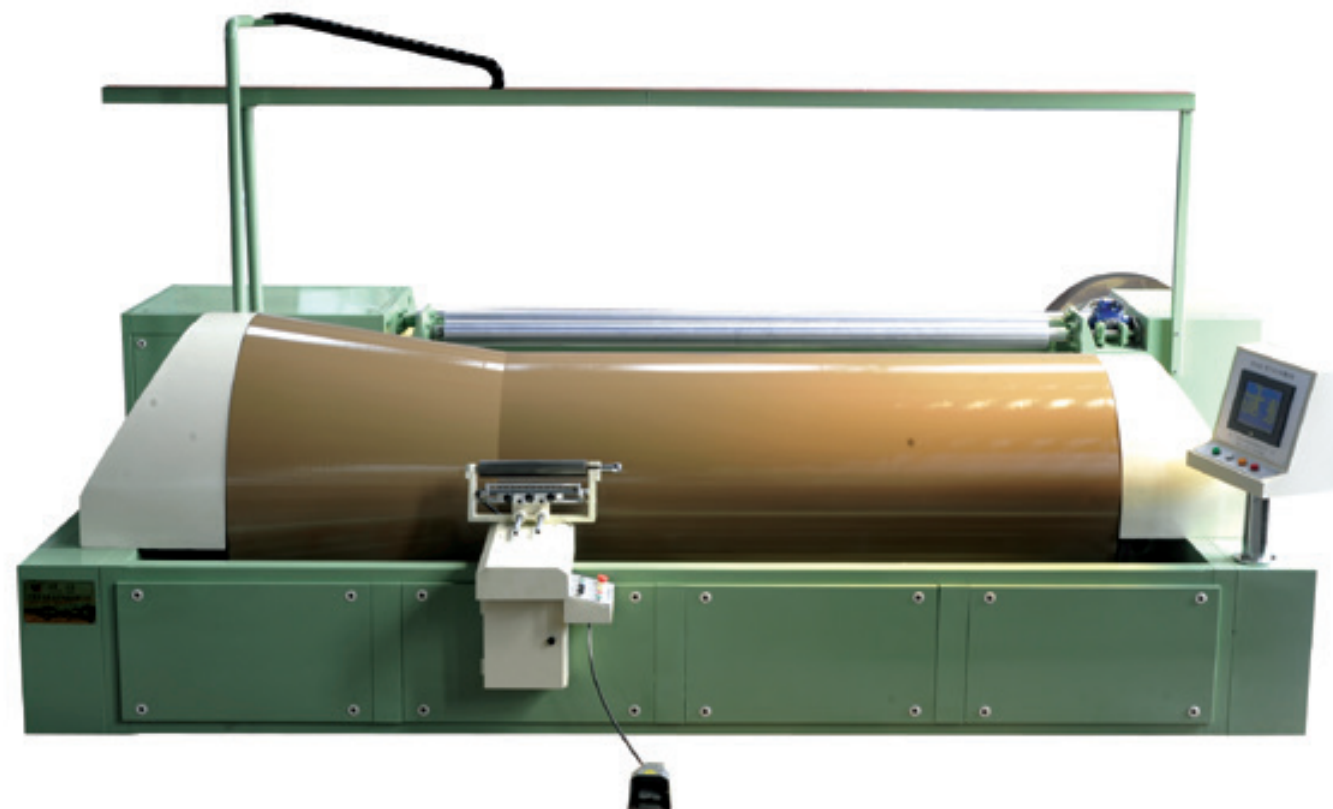
## HYGA628 高速分条整经机

HYGA628 High Speed Sectional Warping and Beaming Machine

### 适用范围

适用于精毛纺织物、化纤长丝织物、色织物、丝织物、毛巾织物及特种产业用布等品种的分条整经。可作为喷水、喷气、剑杆、片梭等无梭织机的织前准备设备。能替代进口分条整经机。

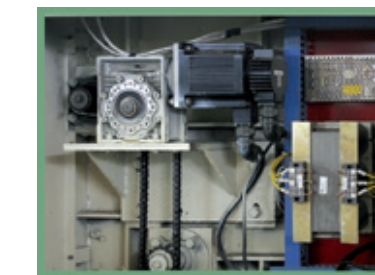
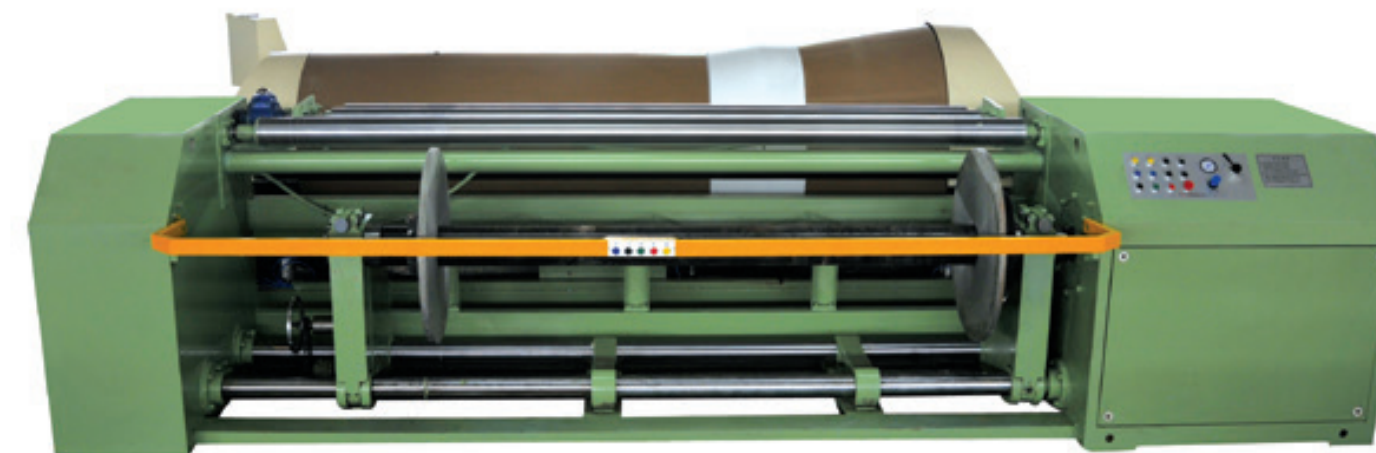
HYGA628 分条整经机可一台倒轴机配多台整经机使用，倒轴机配一台 5.4 寸触摸屏，配单台整经机使用按钮操作。



### Scope of Application

This machine is suitable for sectional warping various kinds of yarns, including worsted yarn, high twisted filaments, yarn for color-woven fabric, for silk fabric, for towelling fabric and fabric in special industry. This machine, which can match water-jet, air-jet, rapier and projectile looms, is the equipment for preparation before weaving.

HYGA628 sectional warping machine can be used with one beaming machine working with several warping machine, the beaming machine operates with a 5.4 inch touch screen and operation button of a single warping machine.



### 主要技术参数

1、有效幅宽 (Work width)	2300 ~ 4200(mm) Particular specification can be customized according	14、条定位 (Stripe location)	自动 (Automatic)
2、织轴盘片直径 (Beam flange diameter)	≤ 800(mm)	15、条宽设定范围 (Stripe width)	0.1 ~ 999.9(mm)( 应不大于导纱辊长度 ) (The length should not be longer than the guide roller)
3、整经速度 (Warping speed)	0 ~ 600(m/min)	16、筒子架锭距 (Spindle space)	300x250(mm)( 毛、棉纱 ) (Wool yarn/ cotton yarn)
4、倒轴速度 (Beaming speed)	0 ~ 100(m/min)	17、筒子架锭数 (Spindle number)	290x290, 220x220( 化纤长丝 ) (Chemical fiber)
5、整经、倒轴恒线速精度 (Deviation of linear speed)	± 2%(With a speed of 300m/min)	18、输入电压 (Input voltage)	3x380V ± 10%
6、制动距离 (Braking distance)	≤ 3(m) (300m/min)	19、装机容量 (capacity)	30(KVA)
7、大滚筒直径 (Drum diameter)	1026(mm)	20、整经电机功率 (Warping motor power)	7.5(KW)
8、锥体长度 (Cone Lenth)	1010(mm)	21、倒轴电机功率 (Beaming motor power)	15(KW)
9、锥角角度 (Cone angle)	9°	22、导条移动伺服电机 (Strip traverse motor)	1.5(KW)
10、导条走丝速度 (Stripe traverse speed)	0.001 ~ 9.999(mm/r)(No grade)	23、主机重量 (Warping and beaming frame weight)	6500(kg)
11、导条随动精度 (deviation of stripe traverse)	0.2%	24、筒子架重量 (Creel weight)	2500(kg)
12、条定位精度	可调 (Adjustable)		
13、定幅箱与滚筒距离 (distance between space reed and yarn on the drum)	自动 (Automatic)		

## HYGA206H 超高速分批整经机

HYGA206H High Speed Direct Warping Machine

### 适用范围

该机能精确控制卷绕密度、经纱长度和经纱的排列，适用于各种短纤维纱线的分批整经，是各类无梭织机的织前准备设备。

### Scope of Application

This machine can accurately control length and arrangement of warp yarn. It is suitable for directly warping of various kinds of chopped fiber yarns and is the pre-spinning preparation equipment for various kinds of pirless looms.

### 主要技术特征

- 1、经轴直接传动，变频调速电机实现整经线速度无级设定，线速度恒定。
- 2、倾斜导轨直线加压形成，压力平稳、恒定。高精度比例减压阀构成的闭环压力控制可实现经轴卷绕密度的任意设定，达到纱层卷绕密度的等量和变量设定与控制。装有压力显示及压力大小保护控制张力不均的自动控制系统。
- 3、加压辊与经轴互联的计长方式，精度更高。
- 4、伸缩箱往复横移与经轴回转同步，调整方便、可靠，卷绕纱层更均匀、平整。
- 5、气液转换的钳式制动，使经轴、压辊制动效果更好，导纱辊采用电磁制动。
- 6、间隙式吹风装置，保持箱齿清洁，间隙时间任意设定。
- 7、气动上下轴，松、夹经轴由触摸屏提示，操作方便，安全可靠。
- 8、安全杆保险装置锁定经轴，突发停电、断气，经轴不会脱落。
- 9、红外线与安全杆复式保险装置，操作更安全。
- 10、电脑触摸屏人机界面，操作方便、显示清晰、直观。
- 11、多种筒子架型式、锭距和锭数，供用户任选。
- 12、张力器、断经自停装置、静电消除装置形式多样。供用户选配。



### Technical Features

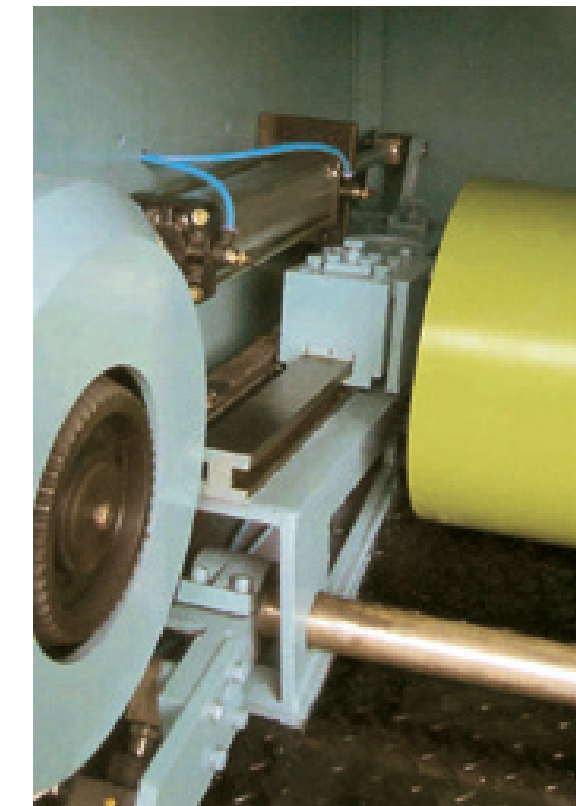
- 1.The beam drives directly, the stepless setting of the yarn speed is realized by the frequency conversion timing motor, and the speed is constant.
- 2.With the help of incline rail linear pressure equipment, the pressure is steady and constant, so is the density of the beam winding.
- 3.The design of having the beam and guide roller connect together can help have higher accuracy of the length measurement.
- 4.The reciprocating movement of adjustable reed will be synchronized with revolving of warp beam thus the adjustment is convenient and reliable and the winding yarns will be more uniform and flat.
- 5.The gas-liquid conversion clamp brake makes better braking effects for warp beams and rollers. The guide roller adopts electromagnetic brake system.
- 6.The interim blowing mechanism can keep clean of reed teeth and the interim time can be freely set.
- 7.The operation on pneumatic up & down roller and the loosening & clamping of warp beam can all be indicated by the touching screen, the operation is very convenient, safety and reliable.
- 8.To avoid the falling off of the beam in case of sudden power cut or gas stoppage, the safety devices, which can lock the poking fork of the beam when the above cases happen, are provided in the machine.
- 9.The composite safety device integrating infrared ray and safety bar can make operation be safer.
- 10.The interface of computer-aided touching screen can make operation be convenient and display be clear and visual.
- 11.Types of bobbin creel, spindle space and number are optional.
- 12.Various tensions, stop motions and static eliminating device are provided.

### 主要技术参数

- |            |                         |
|------------|-------------------------|
| 1、幅宽       | 800mm (其它幅宽根据用户要求定制)    |
| 2、最大经轴盘片直径 | 800mm (1000mm 根据用户要求定制) |
| 3、整经速度     | 100 ~ 1000m/min         |
| 4、制动距离     | ≤ 3m(500m/min)          |
| 5、箱横动速度    | 可调                      |
| 6、经纱长度误差   | ≤ 0.05%                 |
| 7、操作显示器    | 10.4 寸触摸屏               |
| 8、筒子架      | 矩 (V) 型固定式或回转式          |
| 9、筒子架锭距、锭数 | 250 × 250mm、560 锭或定制    |
| 10、主电机功率   | 11kw、15kw               |
| 11、主机重量    | 4000kg                  |
| 12、筒子架重量   | 2500kg                  |

### Main Technical Data

- 1.Work width 1800mm (can be made according to customer's request)
- 2.Beam flange diameter 800 (max) or 1000 (should be made according to special request.)
- 3.Warping speed 100-1000m/min
- 4.Braking distance ≤ 3m (500m/min)
- 5.Moving range of reed Adjustable
- 6.Length error of warp yarn ≤ 0.2%
- 7.Operating display unit 10.4 inch touching screen
- 8.Bobbin creel: Rectangle type, V type, fixed or rotary
- 9.Spindle space, spindle number: 250x250, 560 (basic type) or can be made according to customer's request
- 10.Power of main motor 11KW,15KW
- 11.Weight of main unit 4000kg
- 12.Weight of bobbin creel 2500kg





## HYGA698 型整浆联合机

### HYGA698 Type Series Warping-Sizing Combination Machine

#### 适用范围

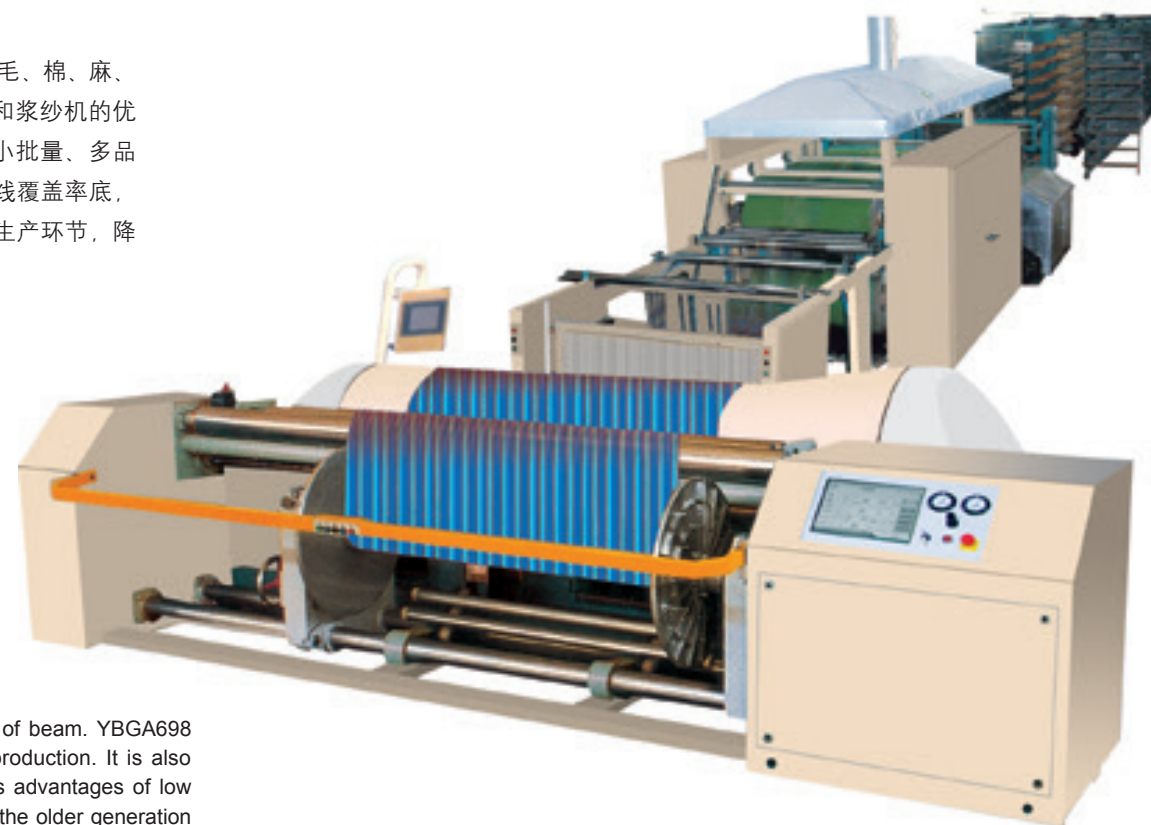
HYGA698 型系列整浆联合机是纺织行业中织前准备设备，能满足毛、棉、麻、混纺等的色织及白胚织物的复杂的上浆工艺要求，结合了分条整经机和浆纱机的优点，将整经和浆纱工序合二为一，直接完成织轴的生产。该机器适宜小批量、多品种的生产，以及码样生产和新产品试制开发的浆纱、整经过程。具有纱线覆盖率底，浆膜完整性好，更换品种快、效率高、品质好，节约原辅材料，减少生产环节，降低生产成本。

本机对色织、毛麻、丝绸等行业各种原料的纱线从高支高密至低支低密甚至高支低密的特殊要求产品的工艺适应力强，通用性好。该机全电脑控制，设计合理，结构紧凑。技术先进，性能稳定、可靠，是各种剑杆、片梭、喷气织机的良好配套设备，是替代进口的良好选择。

#### Scope of Application

In textile industry, HYGA698 type warping-sizing combination machine is the facility for preparation before spinning. It can meet the craftwork standard in sizing wool, cotton, hemp, mixed fabric and grey fabric. It has both advantages of sectional warping machine and sizing machine, which makes warping and sizing completed once, and directly accomplish the production of beam. YBGA698 is suitable for small quality production, multiplicity production and sample production. It is also suitable for the sizing and warping process in new products research. It has advantages of low percentage of yarn coverage, good integrity of chorion, quick replacement of the older generation products by new ones, high efficiency, good quality, saving raw materials as well as supplemental materials, reducing production cost.

HYGA698 is suitable to size and warp yarns used in color-woven fabric, wool fabric, silk fabric or special industry fabric, despite of the count and density. Controlled by computer, and structured reasonably, the new technology machine is stable and reliable, projectible, reliable.



#### 主要技术特征

- 1、微型计算机控制，触摸式人机介面，技术先进，操作方便，介面友好；
- 2、机、电、气、液一体化，技术先进、性能稳定、运行可靠；
- 3、先进的 AC 伺服随动系统，精度高，响应快，偏差小；
- 4、功能强大的微型计算机系统及先进的控制算法，使整个系统运行平稳、可靠，智能化程度高；
- 5、先进的 AC 矢量同步控制系统，同步精度高，响应快，超调小；
- 6、整经过程中不间断对各数据进行采样、分析、运算，使整个系统始终运行在最佳状态，使经纱成形平整，密度均匀，质量好，倒轴张力稳定均匀；
- 7、浆槽采用双浸双压，品种适应性强；
- 8、气动加压，第二压辊线性加压，上浆率均匀稳定；
- 9、浆槽温度自控，槽体采用双夹层结构，保温性好；
- 10、主辅浆槽一体，逆流式循环，保持浆液粘度稳定；
- 11、采用全烘筒干燥方式，分两组温度自控，效率高，适应性强；
- 12、烘房泵用积极传动，方便控制湿区伸长；
- 13、应用气液增压钳式制动，制动效率高。

#### 主要技术参数

- |                              |                                       |
|------------------------------|---------------------------------------|
| 1. 适用范围：6s-100s 纯棉纱、涤棉纱、亚麻   | 9. 对条精度：0.01 (mm)                     |
| 2. 整经有效幅宽：1800-3200 (根据客户要求) | 10. 位移范围：0.001 ~ 9.999 (mm)           |
| 3. 滚筒锥比：1:8                  | 11. 压浆压力：0 ~ 7.4kN                    |
| 4. 盘片直径：≤ 1000 (mm)          | 12. 浆槽容积：主浆槽 56(L)<br>辅浆槽 51(L)       |
| 5. 整经速度：2 ~ 100 (米 / 分)      | 13. 蒸发能力：180Kg/Hr<br>(蒸汽压力 ≤ 0.35Mpa) |
| 6. 倒轴速度：0 ~ 100 (米 / 分)      | 14. 装机功率：约 40(Kw)                     |
| 7. 倒轴张力：≤ 6000 (N)           |                                       |
| 8. 位移精度：0.001 (mm)           |                                       |

#### Technical Features

1. Controlled by microcomputer, touch human-computer interface, advanced technology, convenient operation and friendly interface;
2. Mechanical, electronic, gaseous, liquid integration, advanced technology, stable property, reliable running;
3. Advanced AC servo, high precision, quick response, little deviation
4. Powerful function microcomputer system and advanced control method enables the system running steadily, reliably and having high degree of intelligence;
5. Advanced AC vector synchronous controlling system, with high precision, quick response and low overshoot;
6. During warping course, constantly data sampling, analysis, calculation to keep the system in best condition, make neat yarn figuration, well-distributed density, good quality, stable and well-distributed beaming tension;
7. Dual-dipping and dual-pressing mode is applied to slurry tank.
8. Pneumatic pressurizing and 2<sup>nd</sup> roller linear pressurizing ensures uniform starching.
9. Self-controllable tank temperature. Double interlayer of the tank ensures good insulation.
10. Integral main and assistant tank and countercurrent circulation ensures stable slurry viscosity.
11. Bake materials with full-enclosed drum. It features independent temperature control of two sections, high efficiency and good adaptability.
12. Active driving used on pump in drying cabinet makes wet area extension more easily.
13. Applies air-hydraulic supercharging nip brake with high efficiency of braking.

#### Main Technical Data

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|--|---|
| 1. Application scope: 6s - 100s pure cotton yarn, terylene cotton yarn, flax | 8. Precision of displacement: 0.001 (mm)  |
| 2. Work width: 1800-3200 (according to customer request)                     | 9. Paired bar precision: 0.01 (mm)  |
| 3. Cone angle: 1:8   | 10. Displacement range: 0.001-9.999 (mm)  |
| 4. Flange diameter: <1000 (mm)   | 11. Squeezing pressure: 0-560 (kg)  |
| 5. Warping speed: 2-100 (meter/minute)                                       | 12. Stock rough volume: main stock rough 56(L)<br>assistant stock rough: 51 (L) |
| 6. Beaming speed: 0-100 (meter/minute)                                       | 13. Steam capability: 180kg/Hr<br>(vapor pressure ≤ 0.35 Mpa)                   |
| 7. Tension of beaming: <6000 (N)   | 14. Installed power: about 40kW   |