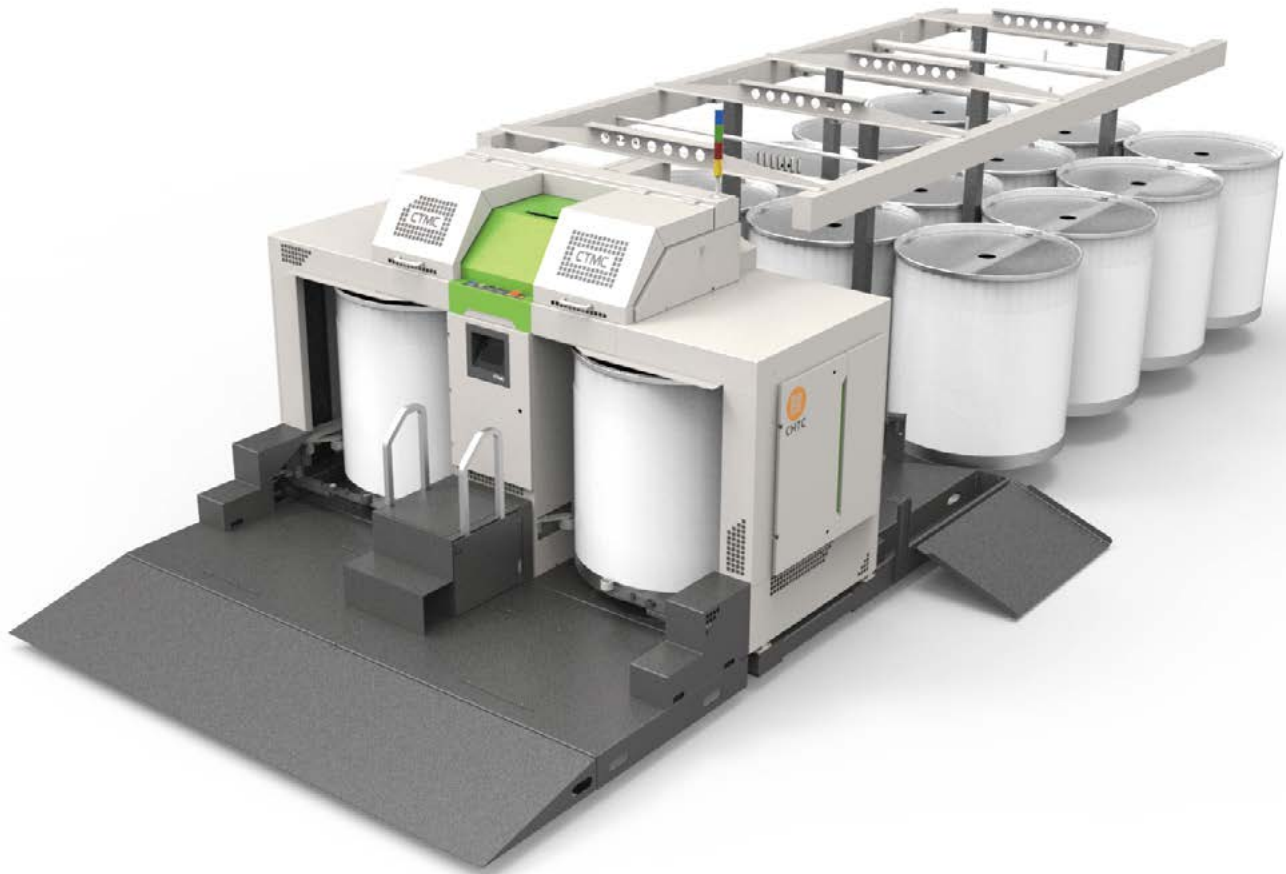




# DRAW FRAME

JWF1313 | JWF1316 | JWF1310 | JWF1312B



e-brochure

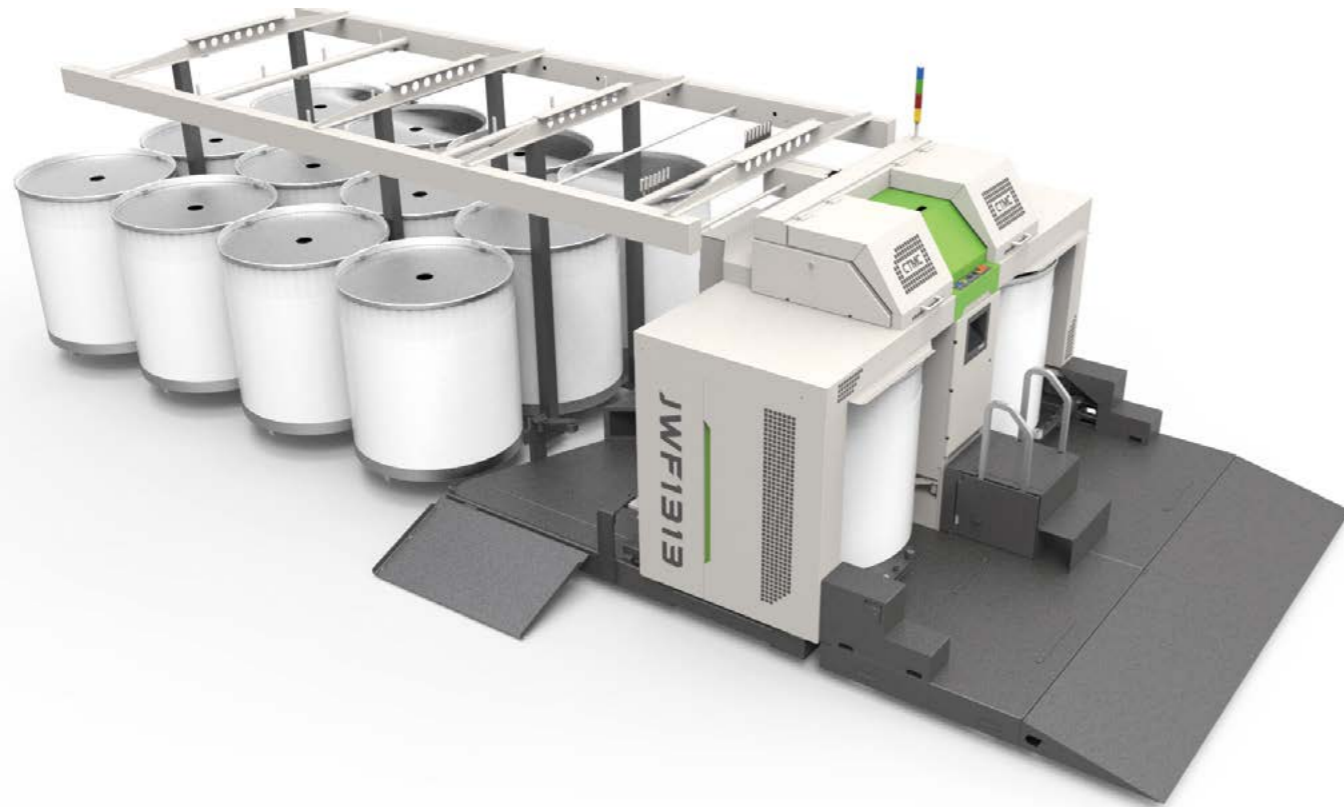
Preeminent supplier of  
**TEXTILE EQUIPMENT**



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# JWF1313 DRAW FRAME



## THE NEW SMART DRAW FRAME SUBVERTS THE TRADITION

JWF1313 smart draw frame without autoleveller is our new generation. The use of innovative driving form, electronic drafting, output diameter 1000mm, intelligent breaking device, roller monitoring, suction etc. functions make the machine be able to reduce the cost for the user to create super value benefits.

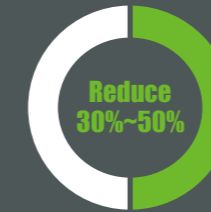
## THE NEW EXPERIENCE of delivery 1000mm and Electronic Drafting

### TWO DELIVERIES LARGE CAN

- The new I-shaped structure with daily operations is completed in front of the machine.
- With the patented extendable footplate is in folded state during normal operation.
- Cancel the transmission box, shorten the transmission chain. The transmission of the draft area can be reached the roller by two stages, so that the power consumption, speed, production costs, maintenance and other aspects have great advantages.



Production speed



Investment cost

Cost can be reduced by 30%~50% compare with the traditional and import.



The length of the arrangement is reduced by more than 2m (3 Rows)



Two-head delivery diameter of 1 meter draw frame can reduce the average daily workload of 1 hour.

## ELECTRONIC DRAFTING



- The double motors drive draft area can be draft multiple stepless adjustment, the control precision of the drafting ratio is 0.001, the system response frequency is high; In the production process, whether it is to adjust the weight or change the process, the operator only need to enter the target weight in the touch screen, the system will calculate the draft multiple automatically to adjust, convenient operation.
- The application of the double motor drive makes the mechanical transmission simple and efficient. From the main motor to the drafting area needs only two transmission, the equipment is exible, the mechanical failure rate is low, and less spare parts consumption.

## PATENT ROLLER MONITORING FUNCTION



This machine is equipped with high precision roller speed monitoring, real-time monitoring the drafting area operation state, to realize the draw frame without autoleveller online monitoring function by monitoring drafting multiple, to ensure the delivery stable quantitative in right feeding.

## ALL-NEW AUTOMATIC CAN CHANGE STRUCTURE



- With the patent of all-new automatic can change structure, The change arm can be rotated and folded to reduce the can change distance (area covered) 20%; The design of the mechanism is simple and stable, and it is more stable and easier to maintain than the traditional way, and the maintenance period can be extended to more than half a year.
- On the touch screen, the broken strip strength can be modified to achieve the function of automatic strip breaking.
- The adjustment is simple and convenient, without manual maintenance, to adapt to a wide range of varieties, and with the use of automatic can change, realizing continuous production drawing realizing continuous production drawing.

## CLEANING SYSTEM

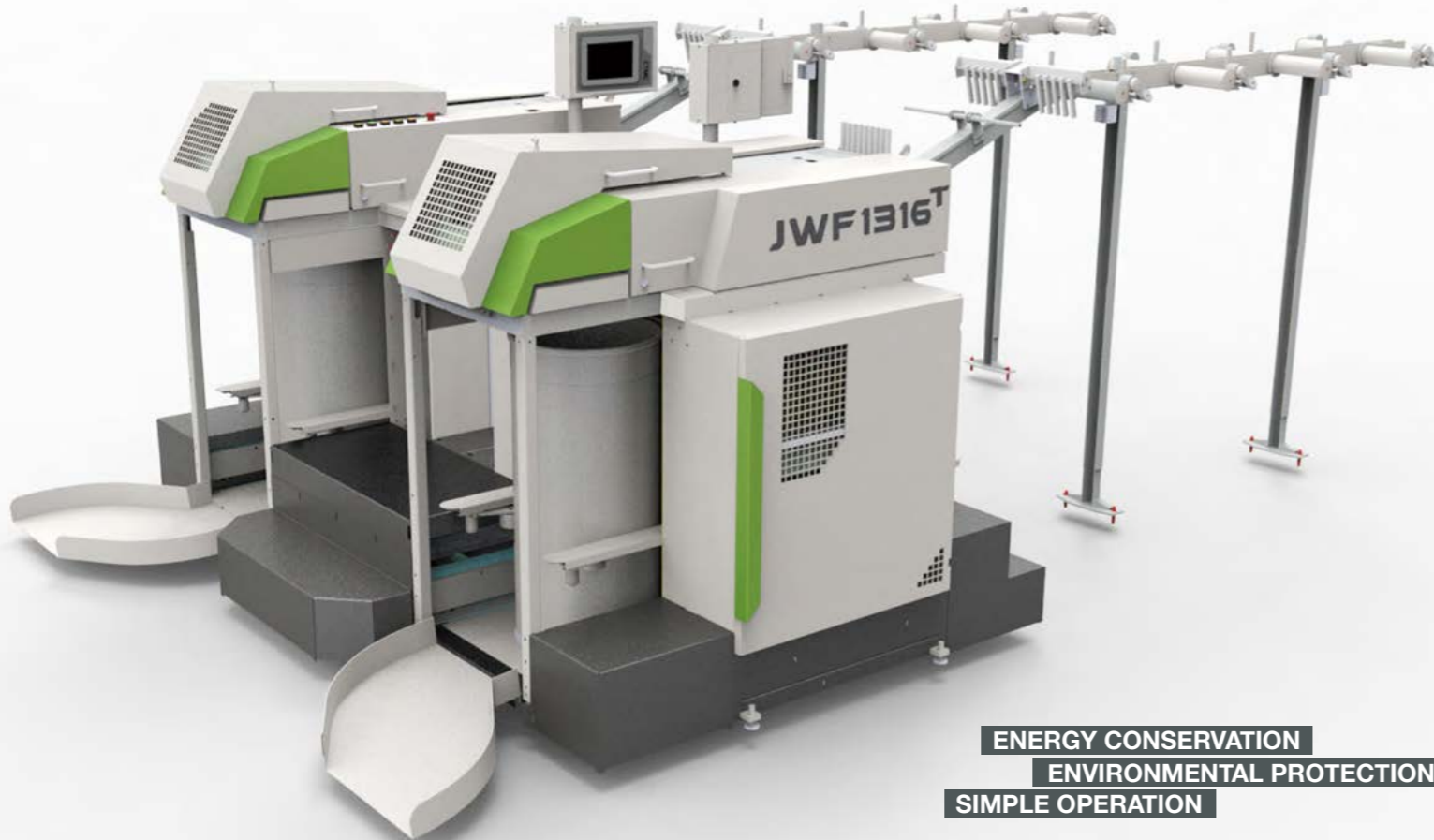


The cleaning efficiency compared with the raditional draw frame improves 50%.

- The left and right draft areas are completely separated, and the air suction is not disturbed. the air tubes do not interfere with each other. The air volume is adjusted independently, and the air tubes are reached the cleaning points respectively. The cleaning efficiency compared with the raditional draw frame improves 50%.
- At the same time it is equipped with the undervoltage alarm device, when the cotton box flying is too much, the negative pressure is insufficient, suggesting that needing to clean up immediately, in order to ensure good suction cleaning system.
- Steel bar is used for upper cleaning, effective and stable.

# JWF1316/JWF1316<sup>T</sup>

## AUTOLEVELLER DRAW FRAME



**ENERGY CONSERVATION**  
**ENVIRONMENTAL PROTECTION**  
**SIMPLE OPERATION**

## THE NEW AUTOLEVELLER DRAW FRAME SUBVERTS THE TRADITION

JWF1316/JWF1316<sup>T</sup> is our latest combined-heads autoleveller draw frame. We design it with the aim of low input, low energy consumption, low space, high yield, high quality and high efficiency. Each system of the combined-heads is independent control, Have a number of patented technologies. This series draw frames with high manufacturing precision, advanced technical level and stability is the advanced level of high-end autoleveller draw frame. And you can choose single head JWF1316 according to need.

### CONTINUOUS PRODUCTION NEEDS NO CARE

- All-new automatic can change structure with buffer structure and intelligent breaking device makes the machine realize continuous production without care. The new structure is stable reliable and convenient maintenance designed with protection device. Cans will be placed at the exit of the slope plate after can changing.
- Intelligent breaking device can be realized by the electrical control without adding any mechanical structure.



Production speed



Investment cost

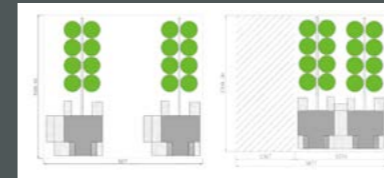


Area

Cost can be reduced by 20%~30% compare with the traditional and import.

Combined-heads can save an area of nearly 40% compare with two single heads.

### FLEXIBLE COMBINATION MODEL



- Single head or combined can be freely matched according to the spinning mill actual situation.
- The single machine group can be used in the combing integrated machine, mature and reliable.
- Combined-heads can produce different material products; can be different in ration, feeding ends, speed and process.
- It can be equipped with Uster UQA with expert system or JINGWEI EDA outoleveller system.

### DRAFTING SYSTEM



**Delivery quality control**  
 The online detection system can be real-time tracking of delivery quality situation. CV%, A%, thick and thin section, spectrum and so on of the slivers quality are tested, which reduces the quality of laboratory inspection.



**Non disassembly integrated pressure bar device**  
 In order to better control the floating fiber and more convenient operation, the use of the new generation of integrated non disassembly integrated pressure bar device, effective control the floating fiber. Pressure bar and the 2nd roller gap can be adjusted.



**Draft zone lubrication**  
 The bearing of the whole drafting zone adopts centralized lubrication, which is convenient for maintenance; And the top roller bearing seat with sealing function, can reduce the cleaning and maintenance cycle.



**Simple operation of the cradle and roller**  
 The top rollers on the use of uniform diameter, the new structure cradle, the roller lifting with the cradle, makes the drawing area cleaning more convenient.

### RELIABLE CLEANING SYSTEM



- Each head using independent suction box, equipped with under voltage alarm device, the operator can clean the cotton box according to the alarm indication, reduce workload, and ensure good suction cleaning. the frequency conversion fan can be selected to adjust the suction volume automatically according to the cleaning effect.
- The new type of top cleaning steel bar and its installation is stable and reliable, can achieve a best cleaning effect in high speed.

# JWF1310

## SERIES DRAW FRAME

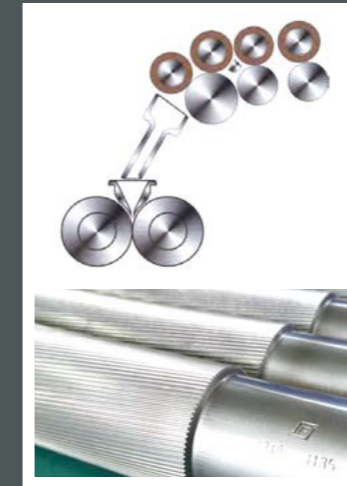


### CLASSIC HERITAGE

## QUALITY ASSURANCE

JWF1310 series draw frame is a double-delivery high-speed draw frame developed by our company in order to adapt to the new cotton spinning process development situation, based on the market experience of more than 30,000 FA306A drawing frame, and further optimize the development. This machine has inherited the advantages of FA306A series drawing frame, such as stability and reliability. Combining with new process, new technology and new processing means, it improves the high speed adaptability of the mainframe and further improves the indexes. This machine is suitable for pure spinning and blending of cotton, cotton chemical fiber and medium-long chemical fiber under 80mm. Compared with similar products at home and abroad, it has obvious advantages in cost performance.

### THE CORE PART OF DRAW FRAME



- This machine extends the type of guide roller with 3 over 3 with pressure bars and guide roller which is our rich experience. After nearly 70 years of technical precipitation, the optimal design of the strip angle from the 1st roller to the trumpet. The sliver trajectory conforms to the natural motion trajectory, in order to smooth entry into the trumpet to reduce fiber hooks and eliminate fold.
- The tooth shape, angle and processing technology of the bottom roller are further improved, which is more advantageous to the grip of the fiber, more stable, and greatly improves the quality of sliver. Using rollers monitoring technology to monitor the running state of the draft area in real time ensures the quality of the sliver. If the drawing multiple exceeds this value, it will trigger the alarm stop. ( This configuration is optional )
- The feeding roller can control the tension of sliver uniformly before it enters the drawing zone; centralized speed changing point improves the arrangement of feeding sliver which is propitious to meet the requirements of sliver drawing for high quality feeding.

### HUMAN-COMPUTER INTERACTION EASY TO ADJUST



Combination of oil bath gear box Technology-hand shift draft multiple device

- The machine adopts touch display screen, supports Chinese and English etc., input process parameters, set speed, shift, length and other operations are simple and convenient, fault alarm information display accurate and clear.
  - This machine adopts the combination of oil bath gear box and timing belt to improve the stability, accuracy and energy-saving and noise reduction in high speed, equipped with multiple sets of high precision monitoring devices to guarantee the smooth operation of the machine in high speed.
- Drawing multiple and weight adjustment extended our company's special technology -hand shift draft multiple device, technology mature, stable, fast adjustment, low intensity, easy to operate.

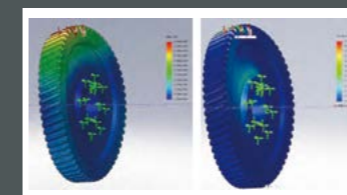
### STABLE OPERATION HIGH SPEED AND EFFICIENCY



Inverter Cleaning system

- Inverter is used to adjust the speed, which makes the rise and fall smooth and the speed increasing gentle. It can effectively control the sliver quality accident caused by the start and stop and is convenient to adjust.
- In order to control the fiber better and operate more conveniently, a new generation of integral non-disassembly pressure bar device is used to effectively control the floating fiber. The gap between the pressure bar and the 2nd roller is adjustable in the range of 2mm-3mm.
- Independently cleaning tube of both deliveries, equipped with cotton box under voltage alarm device, the equipment automatically reminds when cotton box needs to be cleaned. (The under voltage alarm device is optional)

### ENERGY SAVING AND ENVIRONMENTAL PROTECTION



- This machine is driven by energy-saving and environmental protection frequency conversion motor. The total installed power is only 5 kW.
- The top and bottom rollers are imported high precision needle bearings are selected, to meet the requirements of high speed and stability.
- This machine is the front-end model of high-speed draw frame in the market at present. In terms of product quality, output speed and operation stability, they are equal to imported products of the same type. It has a great advantage in production and maintenance costs and is widely recognized by domestic and foreign users.

# JWF1312B

## AUTOLEVELLER DRAW FRAME



### IMPROVE THE DELIVERY SPEED AND THE SLIVER QUALITY

JWF1312B draw frame with 2 deliveries and auto leveller in the course of design, the product experiences of approximate one thousand draw frame FA326A and new process of modern textile technology are used in it. The main design purpose is to improve the delivery speed and the sliver quality, and suit for the further requirement of the textile technology developing. The machine is suitable for 22~76mm cotton, cotton fiber, mid length fiber and their blends. It can be used for single doubling some fiber after combing, and widely used for first or last doubling passage for different kinds of fiber. The kind of drawframe is more mature new type of machine with 2 deliveries at present. Especially for processing combed fiber, less floor space and low maintenance cost. It has higher quality and price compared with the same kind of import. It can meet the requirement of all kinds fiber. It is the ideal product used broadly.

### DRIVING SYSTEM



- The tooth belt is adopted for the main driving. Some rank of tension draft is designed between calender roller and 1 st roller to meet the different requirement. Frontal tension device is open structure, maintenance is easy and convenient.
- The processing precision of zero-max gear box, detecting gear box and T&G roller is improved to meet the requirement of stable running with the speed 600 mm/min.
- Coiler is driven by flat belt in intersectant shafts with guide wheel, eliminating inertia force's influence on machine.
- As the key part of drawframe, 3 over 3 with pressure bars and guide roller draft system are adopted for the draft system. The direction of sliver delivery has been redesigned better, so it is suitable for high speed production. Collecting device consists of separate parts, in order to reach the ideal state of little curve and no drape.

### LOADING SYSTEM



The standard loading system is spring loading, the pneumatic loading is optional by the customer. The loading force is stable and the loading value can be adjusted.

### AUTOLEVELLER SYSTEM

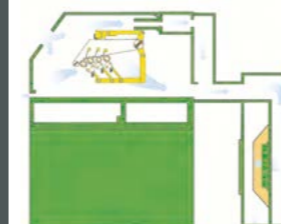


The feeding slivers will be detected when the slivers pass through the detecting rollers, and the detected signals are input the memory, When the slivers with deviation go into main draft zone, the controller compares the signals with the standard values and the draft ratio of main draft zone is changed by the servo motor and differential gear box to correct the sliver deviation. As a result, the auto-control of draft is realized and the excellent slivers are obtained. At the delivery end, the sliver quality can be auto-detected and the count change is displayed. The machine will auto stop when the count change exceeds the present limit. The control range of the auto leveller is 125% and the unevenness of combed can be corrected, that reduced the difference of sliver weight, decreased the unevenness ratio.



- |                       |                      |                         |                   |
|-----------------------|----------------------|-------------------------|-------------------|
| 1.Control unit        | 2.Operating Terminal | 3.T&G Roller            | 4.DGB&SM          |
| 5.Main Motor          | 6.FP Sensor          | 7.Collecting Device     | 8.Calender roller |
| 9.Pre-draft(Constant) |                      | 10.Main Draft(Variable) |                   |

### CLEANING SYSTEM



On the touch screen, the broken strip strength can be modified to achieve the function of automatic strip breaking. The adjustment is simple and convenient, without manual maintenance, to adapt to a wide range of varieties, and with the use of automatic can change, realizing continuous production drawing.

### INTELLIGENT BREAKING

The system controls to break the sliver automatically. The breaking efficiency is more than 99%.



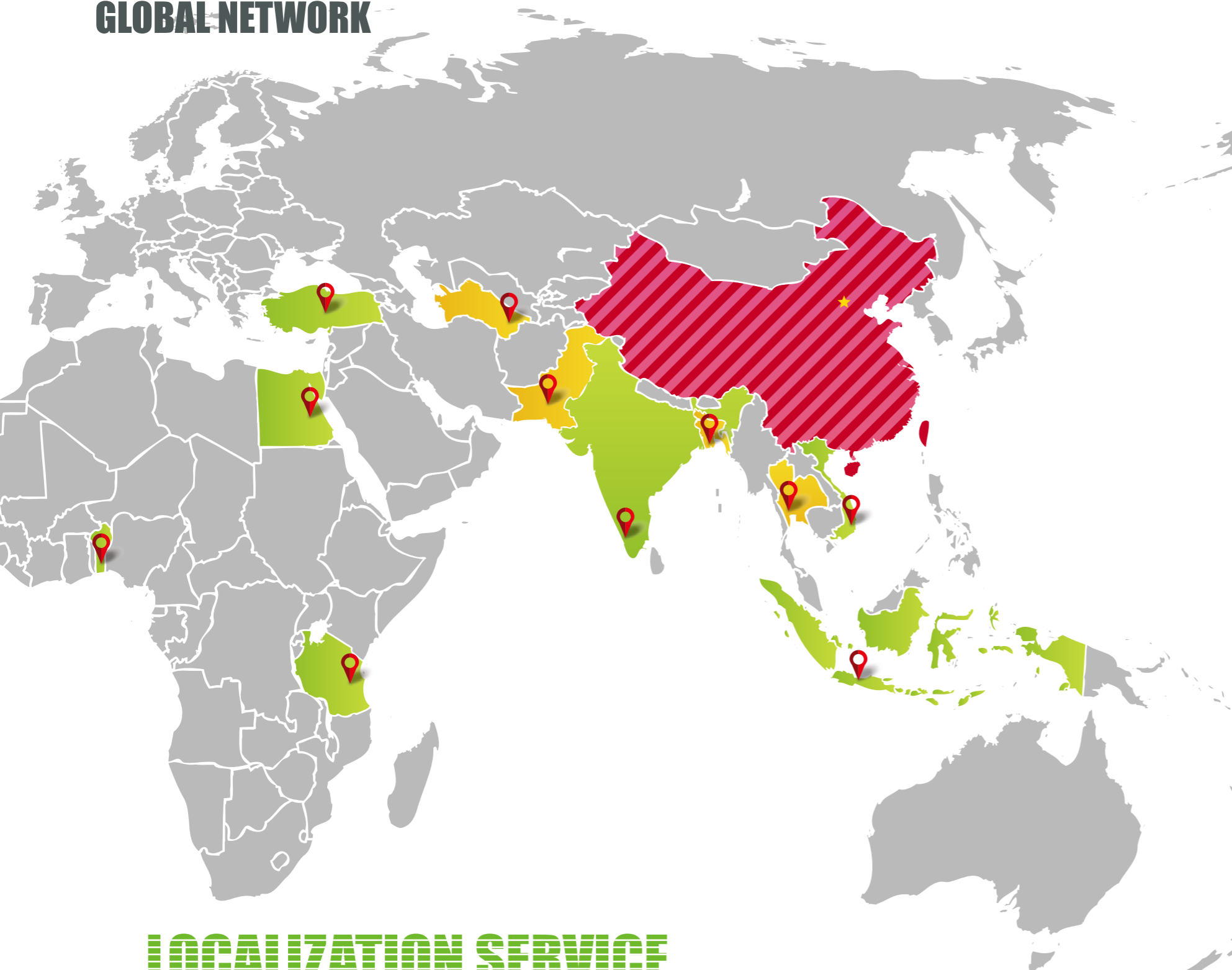
### ELECTRIC CONTROL



## MAIN SPECIFICATIONS

Type	JWF1313	JWF1316	JWF1310	JWF1312B
Suitable fiber sorts	22~76mm pure cotton, chemical fibres, and their blends.	22~80mm pure cotton, chemical fibres, and their blends	Less than 80mm cotton,colton fiber,mid length fiber and their blends	Less than 80mm cotton,colton fiber,mid length fiber
Number of deliveries	2	2	2	2
Total drafting	4~12 recommended, stepless drafting variety	4.75~12.06	3.8~13.1(4.5~9.1 Random)	4~11(5.6~8.7 Random)
Production speed (m/min)	800	1000	800	600
Total installed power (kw)	7.45	5.76	5	13
Auto stop motion (mm)	Photoelectric stop and adjacent switch stop	Photoelectric stop , adjacent switch stop and touch stop	Photoelectric stop , adjacent switch stop and touch stop	Photoelectric stop , adjacent switch stop and touch stop
Feeding can size (mm)	Can diameter	Φ1000	Φ1000	Less than Φ1000
	Can height	Less than 1400	Less than 1400	900, 1100, 1200
Delivery can(mm)	Can diameter	Φ1000	Φ1000	Φ300, Φ400, Φ450, Φ300, Φ500, Φ600,
	Can height	1200	1200	900, 1100, 1200
Loading type	Spring loading	Pendulum arm spring loading (press bar spring loading)	3 over 3 with pressure bar and top guide roller curvilinear draft	3 over 3 with pressure bar and top guide roller curvilinear draft
Cleaning type	Separate motor driving flannel-ribbon and rubber ring, or steel rod	Steel bar; Rubber ring reduplicate swing	Revolving cloth wiping top roller; Single apron traverse wiping roller	Revolving cloth wiping top roller; Single apron traverse wiping roller
Machine net weight(kg)	Approximate 2800	Approximate 2600	Approximate 2500	Approximate 2400

# GLOBAL NETWORK



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